

Attachments

Attachment A Project Approval 07_0087 Conditions Table

Attachment B Statements of Commitment Table

**Attachment C Environment Protection Licence 396 Conditions
Table**

Attachment D Consolidated Coal Lease No. 361 Conditions Table

ATTACHMENT A

Consolidated Project Approval 07_0087

Project Approval 07_0087 MOD 1 conditions dated 16 May 2011

Project Approval 07_0087 MOD 2 conditions dated 29 March 2012

Project Approval 07_0087 MOD 3 conditions dated 20 February 2013

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
	SCHEDULE 2 ADMINISTRATIVE CONDITIONS			
	Obligation to Minimise Harm to the Environment			
2/1	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.			Noted
	Terms of Approval			
2/2	<p>The Proponent shall carry out the project generally in accordance with the:</p> <ul style="list-style-type: none"> Environmental Assessment (EA) Statement of Commitments; Modification application 07_0087 Mod 1 and Environmental Assessment titled Extension of the Project Approval Area for Out-of-Pit Overburden Emplacement and Rehabilitation, Alternative Haul Road and Power-line Relocation, prepared by Business Environment and dated September 2010; Biodiversity Offset Strategy titled Bloomfield Colliery Project Modification (07_0087 MOD 1) – Proposed Offset Strategy, dated 31 March 2011; the modification application 07_0087 MOD 2 and letter entitled Bloomfield Coal Project Modification of PA 07-0087, dated November 2011; the modification 07_0087 MOD 3 as requested by letter entitled Bloomfield Coal Project – Modification of PA 07_0087, dated 17 December 2012; and conditions of this approval. <p>Notes:</p> <ul style="list-style-type: none"> The general layout of the project is shown in Appendix 2; Statement of Commitments is reproduced in Appendix 3. 	<ul style="list-style-type: none"> Environmental Assessment Completion of Mining and Rehabilitation, Nov 2008 Environmental Assessment titled Extension of the Project Approval Area for Out-of-Pit Overburden Emplacement and Rehabilitation, Alternative Haul Road and Power-line Relocation, MOD 1 07_0087, Sep 2010; Bloomfield Colliery Project Biodiversity Offset Strategy – Proposed Offset Strategy, 31 Mar 2011; Bloomfield Coal Project Modification of PA 07-0087 MOD-2, Nov 2011 	<p>The Bloomfield Colliery development is being carried out generally in accordance with the documents identified in Project Approval Schedule 2 condition 2:</p> <ul style="list-style-type: none"> Environmental Assessment(EA) Completion of Mining and Rehabilitation, November 2008 Statement of Commitments; Modification application 07_0087 Mod 1 and Environmental Assessment titled Extension of the Project Approval Area for Out-of-Pit Overburden Emplacement and Rehabilitation, Alternative Haul Road and Power-line Relocation, prepared by Business Environment, September 2010; Biodiversity Offset Strategy titled Bloomfield Colliery Project Modification (07_0087 MOD 1) – Proposed Offset Strategy, 31 March 2011; and Bloomfield Coal Project Modification of PA 07-0087 MOD-2, November 2011 conditions of this approval. 	Compliant

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BLOOMFIELD COLLIERY INDEPENDENT ENVIRONMENTAL AUDIT

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
2/3	If there is any inconsistency between the above documents, the more recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.			Noted
2/4	Proponent shall comply with any reasonable requirements of the Director-General arising from the Department's assessment of: a) any reports, plans, programs, strategies or correspondence that are submitted in accordance with the conditions of this approval; and b) the implementation of any actions or measures contained in these reports, plans, programs, strategies or correspondence	<ul style="list-style-type: none"> Blast Monitoring Program, 31 May 2012 Air Quality Monitoring Program, 31 May 2012 Water Management Plan, 18 Sep 2013 	Comments were received from the DP&I in relation to the Blast Monitoring Program, Air Quality Monitoring Program and Water Management Plan. Revision of the documents were made and the amended Plans submitted to the DP&I.	Compliant
	Limits on Approval			
2/5	Mining operations may take place on the site until 31 December 2021. <i>Note: Under this Approval, the Proponent is required to rehabilitate the site to the satisfaction of the Director-General and DRE. Consequently this approval will continue to apply in all other respects other than the right to conduct mining operations until the site has been rehabilitated to a satisfactory standard.</i>	<ul style="list-style-type: none"> Consolidated Coal Lease 761 	Mining operations may take place on the site until 31 December 2021	Noted
2/6	The Proponent shall not extract more than 1.3 million tonnes of ROM coal a year from the site.	<ul style="list-style-type: none"> Bloomfield Periodic Review 2012-2013 Bloomfield Periodic Review 2013-2014 Bloomfield Periodic Review 2014-2015 	Run-of-Mine coal extracted from 'The Wall' in 2010 to 2012 was less than 1.3mtpa: Jul 2012 to Jun 2013 - 992,727 tonnes Jul 2013 to Jun 2014 - 1,079,106 tonnes Jul 2014 to Jun 2015 - 1,114,631 tonnes	Compliant
	Hours of Operation			
2/7	Project operations may take place 24 hours per day, 7 days per week		The Bloomfield Coal operations are conducted 24hours/day, 7 days/week.	Compliant
	Management Plans / Monitoring Programs			
2/8	With the approval of the Director-General, the Proponent may submit any management plan or monitoring program required by this approval on a progressive basis.		The management plans and monitoring programs required under this approval were submitted to the DoP/DP&I/DP&E and any revisions submitted when prepared.	Compliant Ongoing
2/9	The Proponent shall prepare revisions of any strategy, plan or program required under this project approval if directed to do so by the Director-General. Such revisions shall be prepared to the satisfaction of, and within a timeframe approved by, the Director-General.		Comments on the Blast Monitoring Program, Air Quality Monitoring Program and Water Management Plan were received from DoP/DP&I and revision of the management plans undertaken and the Plans re-submitted. No revisions to the EMS, plans or programs had been required by the Director-General/Secretary between 2013 and 2015.).	Not activated
2/10	With the approval of the Director-General, the Proponent may integrate any strategy, plan, program, review, audit or committee required by this approval with any similar	<ul style="list-style-type: none"> Integrated Environmental Monitoring Program, GSS, 2007 	Integration of the monitoring programs for Bloomfield and Donaldson Coal Projects occurred and the Integrated Environmental Monitoring Program approved in 2007.	Noted

Attachment A Project Approval 07_087

B

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BLOOMFIELD COLLIERY INDEPENDENT ENVIRONMENTAL AUDIT

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
	requirement under the development consent for the Donaldson Coal Mine and the project approval for the Abel Coal Mine.			
	Structural Adequacy			
2/11	The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with relevant requirements of BCA.		No new buildings were constructed at the Bloomfield site between 2013 and 2015.	Not applicable
	Demolition			
2/12	The Proponent shall ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version		No demolition occurred at the Bloomfield site between 2013 and 2015.	Not applicable
	Operation of Plant and Equipment			
2/13	The Proponent shall ensure that all plant and equipment used on site is: a) maintained in a proper and efficient condition; and b) operated in a proper and efficient manner		All equipment and plant used on the Bloomfield Coal Mine site is maintained to manufacturer's specifications at the on-site workshop off Four Mile Creek Road and is operated in an efficient manner.	Compliant
	Community Enhancement Fund			
2/14	The Proponent shall establish a Community Enhancement Fund of a minimum of \$500,000 and implement expenditure from that fund to the satisfaction of the Director-General. Proposals for expenditure from the fund must: a) be prepared by the Proponent in consultation with Council and the CCC and be submitted to the Director-General for approval by 31 December 2009; b) be expended over the ten calendar years 2010-2019; and c) a minimum of \$180,000 on local infrastructure projects within Cessnock LGA, to be commenced no later than 30 September 2011; and d) a minimum of \$32,000 annually to locally-operating community charities	<ul style="list-style-type: none"> Letter from Bloomfield to DoP re Community Enhancement Fund Projects, 15 Dec 2010 Letter from DoP of Approval for Community Enhancement Fund Projects, 15 Feb 2011 Remittance Advice from Bloomfield Group to Cessnock City Council, 5 Apr 2011 Letter from DoP re Approval of Community Enhancement Fund support to Father Chris Riley's Youth Off the Streets, 23 Mar 2010 Remittance Advice from Bloomfield Group to Father Chris Riley's Youth Off the Streets, dated 14 Mar 2012, 28 Feb 2014, 6 May 2015 	Bloomfield Group have developed and made the payment of funds to the Cessnock City Council and Cessnock/Kurri Kurri Outreach Program to satisfy the expenditure required under this condition: a) Bloomfield Group developed infrastructure projects in consultation with the Cessnock City Council and Community Consultative Committee and submitted to the DoP; b) Funding of \$152,900 for infrastructure projects was provided to the Cessnock City Council on 5 Apr 2011; c) Bloomfield Group proposed Community Enhancement Fund Projects for Cessnock City Council, approved by DoP on 15 February 2011. Bloomfield provided \$41,000 on 6 Oct 2012; d) DoP approved Bloomfield Community Enhancement Funding to support the Cessnock/Kurri Kurri Outreach Program by providing \$32,000/yr to Father Chris Riley's Youth Off-the-Streets.	Compliant
	SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS			
	Noise			
	Noise Impact Criteria			

Attachment A Project Approval 07_087

C

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status																																																													
3/1	<p>The Proponent shall ensure that the noise generated by the project does not exceed at any residence on privately-owned land, or on more than 25% of any privately-owned land, the noise impact assessment criteria shown in Table 1 for the monitoring location nearest to that residence or land:</p> <p><i>Table 1: Operational noise impact assessment criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th>Location</th> <th>Locality</th> </tr> </thead> <tbody> <tr> <td>E</td> <td>Browns Road, Black Hill</td> </tr> <tr> <td>F</td> <td>Black Hill Road, Black Hill</td> </tr> <tr> <td>G</td> <td>Buchanan Road, Buchanan</td> </tr> <tr> <td>H</td> <td>Mt Vincent Road, Louth Park</td> </tr> <tr> <td>L</td> <td>Kilshanny Avenue, Ashtonfield</td> </tr> <tr> <td>M</td> <td>John Renshaw Drive, Buttai</td> </tr> <tr> <td>N</td> <td>Lings Road, Buttai</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Location</th> <th>MS*</th> <th>Day</th> <th>Evening</th> <th>Night</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align:center">LAeq(15 min)</td> </tr> <tr> <td>E</td> <td>40</td> <td>35</td> <td>35</td> <td>35</td> </tr> <tr> <td>F</td> <td>42</td> <td>35</td> <td>35</td> <td>35</td> </tr> <tr> <td>G</td> <td>43</td> <td>39</td> <td>42</td> <td>37</td> </tr> <tr> <td>H</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> </tr> <tr> <td>L</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> </tr> <tr> <td>M</td> <td>48</td> <td>39</td> <td>39</td> <td>37</td> </tr> <tr> <td>N</td> <td>43</td> <td>42</td> <td>42</td> <td>35</td> </tr> </tbody> </table> <p>*Morning Shoulder</p> <p>However, if the Proponent has a written negotiated noise agreement with the landowner of any privately-owned land, and a copy of this agreement has been forwarded to the Department and OEH, then the Proponent may exceed the noise limits in Table 1 on that land in accordance with the negotiated noise agreement</p> <p>Cumulative Noise Criteria</p>	Location	Locality	E	Browns Road, Black Hill	F	Black Hill Road, Black Hill	G	Buchanan Road, Buchanan	H	Mt Vincent Road, Louth Park	L	Kilshanny Avenue, Ashtonfield	M	John Renshaw Drive, Buttai	N	Lings Road, Buttai	Location	MS*	Day	Evening	Night	LAeq(15 min)					E	40	35	35	35	F	42	35	35	35	G	43	39	42	37	H	35	35	35	35	L	35	35	35	35	M	48	39	39	37	N	43	42	42	35	<ul style="list-style-type: none"> Integrated Environmental Monitoring Program, GSS, 2007 Noise Monitoring Program, 11 Nov 2013 Letter to DP&I re Quarterly Noise Monitoring Result Exceedance, 31 Jul 2013 Letter to B McNaughton re Noise Exceedance, 13 Aug 2013 Letter from DP&I re Noise Monitoring Result Exceedance, 14 Aug 2013 Quarterly Noise Monitoring Report, SLR, Jul 2015 Letter to DP&I re Quarterly Noise Monitoring Result Exceedance, 29 Sep 2015 Letter to M Elliot re Noise Exceedance, 29 Sep 2015 Letter to B McNaughton re Noise Exceedance, 29 Sep 2015 	<p>Noise monitoring is conducted in accordance with the Noise Monitoring Program (November 2013) and the Integrated Environmental Monitoring Program 2007. Noise monitoring results between 2013 and 2015 demonstrated general compliance with the operational noise impact assessment criteria.</p> <p>Two exceedances were notified to DP&I/DP&E during the 2013 to 2015 period:</p> <ul style="list-style-type: none"> Quarterly noise monitoring (dated June 2013) exhibited an exceedance of the noise criteria at one privately owned property located to the south of the Bloomfield site on John Renshaw Drive (N daytime exceedance of 8dBA and evening 2dBA). In response to the monitoring results Bloomfield re-assessed the timing of switching from the day time dump location operations to a night time dump location that reduced exposure of the receiver to noise emitted from the waste emplacement area. Quarterly noise monitoring (dated May 2015) undertaken by SLR demonstrated a minor exceedance of the noise criteria at two privately owned properties located to the south of the site on John Renshaw Drive (M daytime exceedance 1dBA; and N evening 2dBA and night-time exceedance 6 dBL_{A1(1minute)}). The cause of the noise exceedance was haul trucks being parked on a high stockpile dump at the end of afternoon shift. In response Bloomfield has put in place measures to prevent haul trucks being parked up on high dumps at the end of shifts. 	<p>Compliant</p> <p>Non-compliant (Low Risk Level)</p>
Location	Locality																																																																
E	Browns Road, Black Hill																																																																
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M	48	39	39	37																																																													
N	43	42	42	35																																																													
3/2	<p>Proponent shall take all reasonable and feasible measures to ensure that the noise generated by the project combined with the noise generated by other mines does not exceed the following amenity criteria at any residence on, or on more than 25% of, any privately owned land:</p> <ul style="list-style-type: none"> LAeq(11 hour) 50dB(A) – Morning shoulder and Day; LAeq(4 hour) 45 dB(A) – Evening; and LAeq(9 hour) 40 dB(A) – Night 	<p>Bloomfield Noise Monitoring Program, Sep 2011</p> <p>Integrated Environmental Monitoring Program, Dec 2007</p>	<p>Bloomfield noise monitoring is supplemented with the additional sites described in the Integrated Environmental Monitoring Program section 4.1 - Noise monitoring prepared for the Bloomfield, Donaldson, Abel and Tasman mines to determine compliance with the cumulative noise criteria. The quarterly noise monitoring reports and AEMR's provide comment on the cumulative noise impact from the Bloomfield, Donaldson, Abel and Tasman mines on the surrounding receivers.</p> <p>Noise management at the Bloomfield Colliery activities has demonstrated general compliance with the cumulative noise criteria.</p>	Compliant																																																													

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status						
	Continuous Improvement									
3/3	<p>Proponent shall:</p> <p>a) implement all reasonable and feasible noise mitigation measures;</p> <p>b) investigate ways to reduce the noise generated by the project; and</p> <p>c) report on these investigations and the implementation and effectiveness of these measures in the to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> Letter Report from SLR to Bloomfield re Stockpile Dozer Noise Investigations, 6 Aug 2013 Letter Report from SLR to Bloomfield re Evening Dump Noise Monitoring, 12 Sep 2013 Letter Report from SLR to Bloomfield re Night-time Operational Noise Investigations, 9 Jan 2014 	<p>Bloomfield have commissioned investigation reports to assess the adopted noise mitigation measures for the potential noise generating activities at the Bloomfield Colliery site. Investigations undertaken by SLR in 2013 and 2014 were:</p> <ul style="list-style-type: none"> Stockpile Dozer Noise Investigations, 6 Aug 2013. The report concluded - <i>No exceedances of the noise criteria are predicted at the nearest residential receivers in Ashtonfield from CHPP and dozer operations during the daytime and evening.</i> Evening Dump Noise Monitoring, 12 Sep 2013. The report concluded - <i>Noise monitoring has indicated that compliance was achieved during the noise monitoring period for operations at either dump location.</i> Night-time Operational Noise Investigations, 9 Jan 2014. The report concluded - <i>An assessment of the night-time operational scenarios has indicated compliance with the applicable noise goals at the nearest potentially affected receiver locations in the three (3) scenarios described.</i> 	Compliant						
	Monitoring									
3/4	<p>Proponent shall prepare and implement a Noise Monitoring Program for the project to the satisfaction of the Director-General. The Program must :</p> <p>a) be prepared in consultation with OEH submitted Director-General approval 6 months of the date of this approval; and</p> <p>b) include:</p> <ul style="list-style-type: none"> a combination of unattended and attended monitoring measures; and a noise monitoring protocol for evaluating compliance with the noise impact assessment criteria in this approval. 	<ul style="list-style-type: none"> Noise Monitoring Program, 11 Nov 2013 Letter from DP&I re Approval of Noise Monitoring Program, 29 Nov 2013 	<p>A Noise Monitoring Program was prepared by SLR for Bloomfield on 16 September 2011 and addressed the requirements of Project Approval Schedule 3 condition 4, Statements of Commitment 11 - MOD 1, and the Integrated Environmental Monitoring Program (December 2007). The Noise Monitoring Program was submitted to DoP on 4 November 2011, revised and resubmitted to the DP&I and approved on 29 November 2013. The Noise Monitoring Program includes:</p> <ul style="list-style-type: none"> Section 4 - Noise Monitoring Procedures presents attended and unattended noise monitoring measures; and a noise monitoring protocol for evaluating compliance with the noise impact assessment criteria in this approval. 	Compliant						
	BLASTING AND VIBRATION									
	Airblast Overpressure Limits									
3/5	<p>The Proponent shall ensure that the air-blast over-pressure level from blasting at the project does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Airblast overpressure impact assessment criteria</i></p> <table border="1"> <thead> <tr> <th>dB(Lin Peak)</th> <th>Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td>115</td> <td>5% of total number of blasts</td> </tr> <tr> <td>120</td> <td>0%</td> </tr> </tbody> </table>	dB(Lin Peak)	Allowable Exceedance	115	5% of total number of blasts	120	0%	<ul style="list-style-type: none"> Blast Monitoring Program, 31 May 2012 	<p>During January 2013 to October 2015, no blast at the Bloomfield Colliery exceeded the 120dB criteria.</p>	Compliant
dB(Lin Peak)	Allowable Exceedance									
115	5% of total number of blasts									
120	0%									
	Ground Vibration Impact Assessment Criteria									

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status									
3/6	The Proponent shall ensure that the ground vibration level from blasting at the project does not exceed the levels in Table 3 at any residence on privately-owned land. <i>Table 3: Ground vibration impact assessment criteria</i>	<ul style="list-style-type: none"> Blast Monitoring Program, 31 May 2012 	During January 2013 to October 2015, no blast at the Bloomfield Colliery exceeded vibration criteria of 5mm/s or 10mm/s.	Compliant									
	<table border="1"> <thead> <tr> <th>Peak (mm/s)</th> <th>Particle Velocity</th> <th>Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td>5</td> <td></td> <td>5% of total number of blasts</td> </tr> <tr> <td>10</td> <td></td> <td>0%</td> </tr> </tbody> </table>				Peak (mm/s)	Particle Velocity	Allowable Exceedance	5		5% of total number of blasts	10		0%
	Peak (mm/s)				Particle Velocity	Allowable Exceedance							
5		5% of total number of blasts											
10		0%											
Blasting Hours and Frequency													
3/7	The Proponent shall carry out blasting on site only between 9 am and 5 pm Monday to Saturday. No blasting is allowed on Sundays and Public Holidays.		Blasting on the Bloomfield site has only occurred between 9 am and 5 pm Monday to Saturday, with no blasting allowed on Sundays and Public Holidays (Blast Monitoring Program page 5).	Compliant									
3/8	The Proponent may carry out on the site a maximum of: <ol style="list-style-type: none"> 2 blasts a day; and 5 blasts a week, averaged over a 12 month period 		Bloomfield Colliery has not exceeded 2 blasts / day, or exceeded 5 blasts / week averaged over a 12 month period, during 2013 and 2015.	Compliant									
	Operating Conditions												
3/9	During mining operations on site, the Proponent shall implement best blasting practice to: <ol style="list-style-type: none"> protect the safety of people, property, public infrastructure, and livestock; and minimise the dust and fume emissions from blasting at the project, to the satisfaction of the Director-General. 	<ul style="list-style-type: none"> <i>Guidelines for Use of Explosives in Open Cut Mines</i> (MDG1025) Explosives Management Plan Bloomfield Pre-Blasting Checklist 	Bloomfield Collieries have implemented a Pre-Blast Checklist that must be completed by the Shot-firer prior to every blast. The checklist addresses shot tie-up design, weather conditions, fume and blast monitoring, and is followed up with a post-blast checklist. This procedure is consistent with best practice for blasting outlined in the <i>Guidelines for Use of Explosives in Open Cut Mines</i> (MDG1025).	Compliant									
3/10	The Proponent shall not undertake blasting within 500 metres of any privately-owned land, unless suitable arrangements have been made with the landowner and any tenants to minimise the risk of fly rock-related impact to the property to the satisfaction of the Director-General.		The Blast Monitoring Program (page 6) nominates a 500m exclusion zone around all blasts and the blasts are designed so there will be no damage to property, people or livestock. The Blast Monitoring Program requirements have been implemented by Bloomfield for each blast.	Compliant									
	Public Notice												

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
3/11	<p>Proponent shall:</p> <p>a) notify the landowner/occupier of any residence within 2 kilometres of the mining area who registers an interest in being notified about the blasting schedule at the mine, or any other landowner nominated by the Director-General; operate a blasting hotline, or alternate system agreed to by the Director-General, to enable the public to get up-to-date information on the blasting schedule at the project;</p> <p>b) advertise the blasting hotline number in a local newspaper at least 4 times each year; and</p> <p>d) publish an up-to-date blasting schedule on its website, to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> Letter re Blast Notification Bloomfield Collieries, 10 Nov 2009 Register of Landowners within 2km of Bloomfield Blasting Operations Bloomfield Colliery Completion of Mining and Rehabilitation Figure B – 2km Blasting Affection Zone, Sep 2009 The Cessnock Advertiser Public Notices – Notification of Bloomfield Blasting Hotline, 25 Mar 2015 	<p>a) Bloomfield Collieries notified all property owners within 2 kms of the mining areas on 10 November 2009 to register for blast notification;</p> <p>b) Bloomfield established a blasting hotline (49302680);</p> <p>c) The blasting hotline is advertised on the local newspaper (The Advertiser) 4 times /year;</p> <p>d) Blasting information is included on the Bloomfield Collieries website: www.bloomcoll.com.au/bloomfield/bfield/BlastingInformation.</p>	Compliant
	Property Inspections			
3/12	<p>Proponent shall advise the owners of privately-owned land that they are entitled to a structural property inspection to establish the baseline condition of buildings and other structures on the property:</p> <p>a) within 2 months of the date of this approval, for properties within 2 kilometres of blasting operations occurring at the date of this approval; and</p> <p>b) at least 2 months prior to blasting within 2 kilometres of additional properties.</p> <p>If the Proponent receives a written request for a structural property inspection from any such landowner, the Proponent shall:</p> <ul style="list-style-type: none"> within 2 months of receiving this request commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to inspect the condition of any building or structure on the land (prior to blasting taking place within 2 km of the property, if possible), and recommend measures to mitigate any potential blasting impacts; and give the landowner a copy of the property inspection. 	<ul style="list-style-type: none"> Letter from DoP re Approval of Structural Property Inspectors, 6 Nov 2009 Letter to Property Owners re Property Inspections for Blasting at Bloomfield Colliery, 30 Oct 2009 Register of Landowners within 2kms from Bloomfield Operations, Oct 2009 Property Inspection Report – 119 Valley View Lane Louth Park NSW, 24 Aug 2012 	<p>Bloomfield Collieries notified all property owners by letter on 30 October 2009 within 2kms of the active blasting area by letter on 30 October 2009 that they were entitled to have a structural property inspection conducted in accordance with this condition.</p> <p>Bloomfield commissioned Lindsay Dynan Pty Ltd to conduct an inspection of the residence and sub-floor area beneath the dwelling at 119 Valley View Lane South Park (a residence outside the 2km radius), following a request from the property owner. The report concluded that the defects to the timber flooring were consistent with the slight non-uniform movement of the reactive clay founding soils. No damage consistent with the effects of blasting were observed and blast ground vibration recordings were significantly below the level that could be expected to cause damage. A copy of the report was provided to the property owner.</p>	Compliant
	Property Investigations			
3/13	<p>If any landowner of privately-owned land within 2 kms of blasting operations, or any other landowner nominated by the Director-General, claims that buildings and/or other structures on his/her land have been damaged as a result of blasting at the project after the date of this approval, the Proponent shall within 3 months of receiving this claim:</p>	<ul style="list-style-type: none"> Property Inspection Report – 119 Valley View Lane Louth Park NSW, 24 Aug 2012 	<p>Bloomfield commissioned Lindsay Dynan Pty Ltd to conduct an inspection of the residence and sub-floor area beneath the dwelling at 119 Valley View Lane Louth Park (a residence outside the 2km radius), following a request from the property owner. The report concluded that the defects to the timber flooring were consistent with the slight non-uniform movement of the reactive clay founding soils. No damage consistent with the effects of blasting were observed and blast</p>	Compliant

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	<p>a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to investigate the claim; and</p> <p>b) give the landowner a copy of the property investigation report.</p> <p>If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damages to the satisfaction of the Director-General.</p> <p>If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Director-General for resolution.</p> <p>If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 5).</p>		ground vibration recordings were significantly below the level that could be expected to cause damage. A copy of the report was provided to the property owner.							
	Blast Monitoring Program									
3/14	<p>The Proponent shall prepare and implement a Blast Monitoring Program for the project to the satisfaction of the Director-General. This program must:</p> <p>a) be submitted to the Director General for approval within 6 months of the date of this approval; and</p> <p>b) include a protocol for evaluating blasting impacts on, and demonstrating compliance with, the blasting criteria in this approval for all privately-owned residences and other structures.</p>	<ul style="list-style-type: none"> Blast Monitoring Program, dated 31 May 2012 Letter to DoP re Management Plans Submitted for Approval, 25 Feb 2010 Letter to DP&I re Revised Management Plans, 4 Nov 2011 Email from DP&I with Comments on Blast Monitoring Program, 24 Apr 2012 Email to DP&I re Final Blast Monitoring Program, 6 Jun 2012 RCA Acoustics – Blast Results 	<p>A Blast Monitoring Program was prepared and submitted to the DoP on 24 February 2010. DoP provided comments on 24 April 2010 and a revised Final Blast Monitoring Program incorporating the DoP comments was submitted to DP&I on 6 Jun 2012.</p> <p>No response to the Blast Monitoring Program had been received from DP&I at the date of this audit (November 2015).</p> <p>a) Bloomfield prepared a Blast Monitoring program and submitted to DoP on 24 February 2010 within 6 months of the date of this approval;</p> <p>b) The Blast Monitoring Program included a Blast Protocol (page 6), and Evaluation of Blasting (page 9).</p>	<p>Compliant</p> <p>Administrative Non-compliance</p> <p>a) Compliant</p> <p>b) Compliant</p>						
	AIR QUALITY									
	Impact Assessment Criteria									
3/15	<p>The Proponent shall ensure that dust emissions generated by the project do not cause additional exceedances of the criteria listed in Tables 4 to 6 at any residence on privately-owned land, or on more than 25% of any privately-owned land.</p> <p><i>Table 4: Long term impact assessment criteria for particulate matter</i></p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Pollutant	Averaging Period	Criterion				<ul style="list-style-type: none"> Air Quality Monitoring Program, 31 May 2012 Letter to DoP re Management Plans Submitted for Approval, 25 Feb 2010 Letter from EPA re Air Quality Monitoring Program, 23 Apr 2010 	<p>The air quality monitoring is conducted in accordance with the Air Quality Monitoring Program and the monitoring results between 2012 and 2015 have demonstrated compliance with the long term impact assessment criteria in Project Approval 07_0087 Schedule 3 condition 15 at the nominated monitoring sites.</p>	Compliant
Pollutant	Averaging Period	Criterion								

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status																				
	<table border="1"> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td>90 µg/m³</td> </tr> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>Annual</td> <td>30 µg/m³</td> </tr> </table> <p>Table 5: Short term impact assessment criterion for particulate matter</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter < 10 µm (PM₁₀)</td> <td>24 hour</td> <td>50 µg/m³</td> </tr> </tbody> </table> <p>Table 6: Long term impact assessment criterion for deposited dust</p> <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Averaging Period</th> <th>Max increase in dep dust level</th> <th>Max total dep dust</th> </tr> </thead> <tbody> <tr> <td>Deposited dust</td> <td>Annual</td> <td>2g/m/mth</td> <td>4g/m/mth</td> </tr> </tbody> </table>	Total suspended particulate (TSP) matter	Annual	90 µg/m ³	Particulate matter < 10 µm (PM ₁₀)	Annual	30 µg/m ³	Pollutant	Averaging Period	Criterion	Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³	Pollutant	Averaging Period	Max increase in dep dust level	Max total dep dust	Deposited dust	Annual	2g/m/mth	4g/m/mth	<ul style="list-style-type: none"> Letter to DP&I re Revised Management Plans, 4 Nov 2011 Email from DP&I with Comments on Blast Monitoring Program, 24 Apr 2012 Email to DP&I re Final Air Quality Monitoring Program, 6 Jun 2012 Email to DP&I re Revised Final Air Quality Monitoring Program, 6 Jun 2012 Envirodata Reports – Bloomfield Collieries Monthly Air Quality Monitoring Reports, AECOM 		
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Pollutant	Averaging Period	Max increase in dep dust level	Max total dep dust																					
Deposited dust	Annual	2g/m/mth	4g/m/mth																					
	Monitoring																							
3/16	<p>The Proponent shall prepare and implement an Air Quality Monitoring Program for the project to the satisfaction of the Director-General. This program must:</p> <p>a) be prepared in consultation with OEH submitted to the Director-General for approval within 6 months of the date of this approval; and</p> <p>b) Include:</p> <ul style="list-style-type: none"> a combination of high-volume samplers and dust deposition gauges to monitor the dust emissions of the project and provision for additional real time monitoring if required in response to monitoring results and/or complaints; and an air quality monitoring protocol for evaluating compliance with the air quality impact assessment criteria in this approval 	<ul style="list-style-type: none"> Air Quality Monitoring Program, 31 May 2012 Letter to DoP re Management Plans Submitted for Approval, 25 Feb 2010 Letter from EPA re Air Quality Monitoring Program, 23 Apr 2010 Letter to DP&I re Revised Management Plans, 4 Nov 2011 Email from DP&I with Comments on Blast Monitoring Program, 24 Apr 2012 Email to DP&I re Final Air Quality Monitoring Program, 6 Jun 2012 Email to DP&I re Revised Final Air Quality Monitoring Program, 6 Jun 2012 Envirodata Reports – Bloomfield Collieries Monthly Air Quality Monitoring Reports, AECOM 	<p>An Air Quality Monitoring Program was prepared in consultation with OEH and submitted to the DoP on 24 February 2010. DoP provided comments on 24 April 2010 and a revised Final Air Quality Monitoring Program incorporating the DoP comments and submitted to DP&I on 13 Mar 2012.</p> <p>No response to the Air Quality Monitoring Program had been received from DP&I at the date of this audit.</p> <p>a) Bloomfield prepared an Air Quality Monitoring Program and submitted to DoP on 24 February 2010 within 6 months of the date of this approval;</p> <p>b) The Air Quality Monitoring Program includes:</p> <ul style="list-style-type: none"> a combination of and ten (10) dust deposition gauges around the project area and a high-volume sampler located at Buttai to the south of the project area to monitor the dust emissions from the project activities (page 5) complaints procedure is provided (page 7) analysis of monitoring results and investigation and reporting exceedances are provided (page 7) 	<p>Complaint</p> <p>Administrative Non-compliance</p> <p>a) Complaint</p> <p>b) Compliant</p>																				

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Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
	METEOROLOGICAL MONITORING			
3/17	During the project, the Proponent shall ensure there is a suitable continuously operating meteorological station on or adjacent to the site that complies with requirements in <i>Approved Methods for Sampling of Air Pollutants in New South Wales (DEC, 2007)</i> , or its latest version, to the satisfaction of the Director-General	<ul style="list-style-type: none"> • Environdata Reports – Bloomfield Collieries • Monthly Air Quality Monitoring Reports, AECOM • Weather Station Readout – Computer Screen 	Bloomfield Collieries contract Environdata Weather Stations Pty Ltd to provide and maintain weather monitoring and equipment for the Bloomfield mine site. The meteorological monitoring reports provide data on wind speed and direction, relative humidity, temperature, rainfall and evaporation. The weather data refreshes every 60 seconds.	Compliant
	WATER MANAGEMENT			
	Discharge			
3/18	Except as may be expressly provided for by an EPL, or in accordance with section 120 of the <i>Protection of the Environment Operations Act 1997</i> , the Proponent shall not discharge any mine water from the site. However, water may be transferred between the site and the adjoining Donaldson Coal Mine and/or Abel Coal Mine, in accordance with any approved Water Management Plan (see below).	<ul style="list-style-type: none"> • Donaldson/Abel Project Water Management Plan, March 2008 • Bloomfield Colliery Water Management Plan, 31 May 2012 	A detailed surface water management model developed for the Abel Project in accordance with the Project Approval indicated that water generated from the Abel Underground Mine would exceed the requirements of the Abel Project operations and the excess water could be utilised by transferring water to Bloomfield for use in the CHPP. The transfer of water to Bloomfield (Lake Kennerson) for use in the CHPP and/or for dust suppression was included in the Donaldson/Abel Water Management Plan approved by DoP 5 May 2008. Water management between the Bloomfield site and the adjoining Donaldson/Abel Project is also included in the Bloomfield Water Management Plan (Site Water Balance) dated 31 May 2012.	Compliant
	Water Management Plan			
3/19	The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. This plan must: <ul style="list-style-type: none"> a) be prepared in consultation with OEH and NOW and submitted to the Director-General for approval within 6 months of the date of this approval; b) be prepared by suitably qualified expert/s whose appointment/s have been approved by the Director-General; and c) include: <ul style="list-style-type: none"> • a Site Water Balance; • an Erosion and Sediment Control Plan; • a Surface Water Monitoring Plan; • a Ground Water Monitoring Program; and • a Surface and Ground Water Response Plan 	<ul style="list-style-type: none"> • Water Management Plan, dated 31 May 2012 • Letter from DoP Approving Extension of Submission Date for Water Management Plan, 10 Mar 2010 • Letter from DoP re Approval of Experts for Water Management Plan, • Letter to DoP re Management Plans Submitted for Approval, 25 Feb 2010 • Letter to DP&I re Revised Management Plans, 4 Nov 2011 • Email from DP&I with Comments on Water Management Plan, 20 Apr 2012 • Email to DP&I re Final Water Management Plan, 4 Jun 2012 	<ul style="list-style-type: none"> a) The Water Management Plan was prepared by 31 March 2010 in consultation with OEH (EPA) and NOW and submitted to the DoP. The Water Management Plan was revised and resubmitted on 13 March 2012. A revised Water Management Plan was submitted to DP&E on 6 June 2012. No response to the Water Management Plan had been received from DP&I at the date of this audit; b) The Water Management Plan was prepared by experts approved by the Director-General DoP (Steve Perrens of Evans and Peck and Andy Fulton of Aquaterra); c) The Water Management Plan includes: <ul style="list-style-type: none"> • a Site Water Balance; • an Erosion and Sediment Control Plan; • a Surface Water Monitoring Plan; • a Ground Water Monitoring Program; and • a Surface and Ground Water Response Plan 	<ul style="list-style-type: none"> a)Compliant Administrative Non-Compliance b)Compliant c)Compliant

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Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
	Site Water Balance			
3/20	The Site Water Balance must: <ol style="list-style-type: none"> include details of: <ul style="list-style-type: none"> sources and security of water supply; water use and management on site; any off-site water transfers or discharges; and reporting procedures; and describe measures to minimise water use by the project 	<ul style="list-style-type: none"> Water Management Plan, 31 May 2012 Water Management Plan – Site Water Balance, Evans and Peck, Mar 2012 	<p>The Site Water Balance was developed by Evan and Peck as part of the Water Management Plan dated 31 March 2010.</p> <p>No response to the Water Management Plan had been received from DP&I at the date of this audit.</p> <p>a) The Site Water Balance includes:</p> <ul style="list-style-type: none"> sources and security of water supply (section 2 Groundwater Inflow, section 4.3 Water Storage, section 5 Catchment Runoff); water use and management on site (section 4.4 Water Use); any off-site water transfers or discharges (Table 1-2 Schematic Diagram of Catchment and Flows, section 2 Catchments and Pits); and reporting procedures (section 6 Reporting Procedures); and <p>b) includes measures to minimise water use by the project section 4.4 Water Use.</p>	<p>a)Compliant</p> <p>Administrative Non-Compliance</p> <p>a)Compliant</p> <p>b)Compliant</p>
	Erosion and Sediment Control			
3/21	The Erosion and Sediment Control Plan must: <ol style="list-style-type: none"> be consistent with the requirements of Managing Urban Stormwater: Soils and Construction (Volume 2E – Mines and Quarries) manual (OEH 2008), or its latest version; identify activities that could cause soil erosion and generate sediment; describe measures to minimise soil erosion and the potential for transport of sediment downstream; describe the location, function and capacity of erosion and sediment control structures; and describe what measures would be implemented to maintain the structures over time. 	<ul style="list-style-type: none"> Water Management Plan, 31 May 2012 Erosion and Sediment Control Plan, GSS Environmental, Mar 2012 	<p>The Erosion and Sediment Control Plan was prepared by GSS Environmental in March 2010 as part of the Water Management Plan.</p> <p>No response to the Water Management Plan had been received from DP&I at the date of this audit.</p> <p>The Erosion and Sediment Control Plan includes:</p> <ol style="list-style-type: none"> The Erosion and Sediment Control Plan (and Mining Operations Plan) includes the requirements of <i>Managing Urban Stormwater: Soils and Construction (Volume 2E – Mines and Quarries) Manual</i> (EPA 2008) – refer to section 4 of this Audit Report for additional comment; Section 1.5 describes Sources of Erosion and Sediment; Section 2 describes Erosion and Sediment Control practices and structures; Section 2.2 Long Term Erosion and Sediment Control; section 2.3 Short Term Erosion and Sediment Control and Figure 1 Erosion and Sediment Control Plan describe and show erosion and sediment control structures at commencement of Stage 2 operation; Section 4 describes General Maintenance and Monitoring. 	<p>Compliant</p> <p>Administrative Non-Compliance</p> <p>a)Compliant</p> <p>b)Compliant</p> <p>c)Compliant</p> <p>d)Compliant</p> <p>e)Compliant</p>
	Surface Water Monitoring			
3/22	The Surface Water Monitoring Program must include: <ol style="list-style-type: none"> detailed baseline data on surface water flows and quality in creeks and other water bodies that could potentially be affected by the project; surface water and stream health impact assessment criteria; a program to monitor the impact of the project on surface water flows, water quality and stream health; and reporting procedures for the results of the monitoring program. 	<ul style="list-style-type: none"> Water Management Plan, 31 May 2012 Surface Water Monitoring and Response Plan, Evans and Peck, Mar 2010 	<p>The Surface Water Monitoring Program 31 March 2010 was prepared by Evans and Peck as part of the Water Management Plan.</p> <p>No response to the Water Management Plan had been received from DP&I at the date of this audit (November 2015).</p> <p>The Surface Water Monitoring Program includes:</p> <ol style="list-style-type: none"> section 1.2 - Baseline Data provides information on Elwells Creek and Buttai Creek; section 1.3 addresses Surface Water and Stream Health Impact Assessment Criteria; 	<p>Compliant</p> <p>Administrative Non-Compliance</p> <p>a)Compliant</p> <p>b)Compliant</p>

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Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
			c) section 1.1 - Surface Water Monitoring Program provides an outline of the monitoring program and Table 2 provide Routine Water Quality Monitoring Frequency and Parameters; d) section 2.2 - Reporting Procedures outlines the report contents.	c)Compliant (d) Compliant
	Groundwater Monitoring			
3/23	The Groundwater Monitoring Program must include: a) further development of the regional and local groundwater model; b) detailed baseline data to benchmark the natural variation in groundwater levels, yield and quality (including at any privately owned bores in the vicinity of the site); c) groundwater impact assessment criteria; d) a program to monitor the impact of the project on groundwater levels, yield, quality, groundwater dependent ecosystems and riparian vegetation; e) procedures for the verification of the groundwater model; f) reporting procedures for the results of the monitoring program and model verification.	<ul style="list-style-type: none"> Water Management Plan, 31 May 2012 Groundwater Management Plan, Aquaterra, 25 Mar 2010 	<p>The Groundwater Management Plan was prepared by Aquaterra for the Bloomfield Colliery as part of the Water Management Plan. No response to the Water Management Plan had been received from DP&I at the date of this audit.</p> <p>The Groundwater Management Plan includes: a) section 2.1 - Further Development of the Regional and Local Groundwater Model; b) section 2.2 - Baseline Data; c) section 2.3 Impact Assessment Criteria; d) section 2.4 - Monitoring Program; e) section 2.5 -[Model Verification]; f) section 2.6 - Reporting Procedures</p>	Compliant Administrative Non-Compliance a)Compliant b)Compliant c)Compliant d)Compliant e)Compliant f)Compliant
	Surface and Groundwater Response Plan			
3/24	The Surface and Groundwater Response Plan must describe the measures and/or procedures that would be implemented to: a) investigate, notify and mitigate any exceedances of the surface water, stream health and ground water impact assessment criteria; b) compensate landowners of privately-owned land whose water supply is adversely affected by the project; and c) mitigate and/or offset any adverse impacts on groundwater dependent ecosystems or riparian vegetation	<ul style="list-style-type: none"> Water Management Plan, 31 May 2012 Surface Water Monitoring and Response Plan, Evans and Peck, Mar 2010 	<p>The Surface and Groundwater Response Plan was prepared by Evans and Peck as part of the Water Management Plan. No response to the Water Management Plan had been received from DP&I at the date of this audit.</p> <p>The Surface and Groundwater Response Plan describes: a) section 1.3 - addresses Surface Water and Stream Health Impact Assessment Criteria, and section 1.4 Water Quality Trigger Values; b) section 2.1 - Response Actions; and c) section 2 - Response Plan.</p>	Compliant Administrative Non-Compliance a)Compliant b)Compliant c)Compliant
	LANDSCAPE MANAGEMENT			
	Rehabilitation			
3/25	The Proponent shall progressively rehabilitate the site in a manner that is generally consistent with the final land form set out in the EA to the satisfaction of the DRE and the Director-General. <i>Note: the conceptual final landform is shown in Appendix 4</i>		Bloomfield Colliery is being progressively rehabilitated in a manner generally consistent with the final land form set out in the Environmental Assessment and Mining Operations Plan.	Compliant Ongoing
	Landscape Management Plan			

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Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
3/26	<p>The Proponent shall prepare and implement a detailed Landscape Management Plan for the project to the satisfaction of the Director-General and DRE. This plan must:</p> <p>a) be prepared in consultation with OEH by suitably qualified expert/s whose appointment/s have been approved by the Director-General; and</p> <p>b) include a:</p> <ul style="list-style-type: none"> Rehabilitation Management Plan to be submitted to the Director-General for approval within 6 months of the date of this approval; Final Void Management Plan to be submitted to the Director-General for approval by 30 June 2013; and Mine Closure Plan to be submitted to the Director-General for approval by 30 June 2012. 	<ul style="list-style-type: none"> Landscape Management Plan (revised), 15 Jun 2011 Letter from DoP re Approval of Appointment of Experts to Prepare Plans, 16 Dec 2009 Letter to DECCW re Landscape Management Plan, 28 Apr 2010 Letter to DoP re Landscape Management Plan and Rehabilitation Management Plan, 3 Mar 2010 Email to OER re Landscape Management Plan and Rehabilitation Management Plan, 3 May 2010 Letter to DP&I re revised Landscape Management Plan, 4 Nov 2011 Letter to DP&I re revised Rehabilitation Management Plan, 4 Nov 2011 Email to DP&I re Mine Closure Plan for Approval, dated 28 Jun 2012 	<p>The Landscape Management Plan was submitted to DoP on 3 March 2010 for approval. The Landscape Management Plan was revised on 15 June 2011 and further revised and resubmitted to DP&I on 13 June 2012 (with Final Void Management Plan). A further revision of the Land Disturbance Management Plan dated 10 October 2012 was submitted to DP&I including management of Aboriginal Heritage and Permit to Disturb.</p> <p>No response to the Landscape Management Plan had been received from DP&I at the date of this audit (November 2015).</p> <p>a) John Hindmarsh and Keren Halliday were approved by the Director-General on 16 Dec 2009;</p> <p>b) The Final Draft Landscape Management Plan was prepared and submitted to DoP on 28 June 2010. The Landscape Management Plan includes:</p> <ul style="list-style-type: none"> The draft Rehabilitation Management Plan submitted to DoP on 28 February 2010 (i.e. within 6 months of the Project Approval) and a Final Rehabilitation Management Plan was submitted to DP&I on 13 March 2012; A Final Void Management Plan submitted to DP&I on 13 Jun 2012; and Mine Closure Plan submitted to DP&I on 28 Jun 2012 following comments received from NSW T&I. 	Compliant
				Administrative Non-Compliance
				a) Compliant b) Compliant
	Rehabilitation Management Plan			
3/27	<p>The Rehabilitation Management Plan must include:</p> <p>a) the rehabilitation objectives for the site;</p> <p>b) a description of the short, medium, and long term measures that would be implemented to:</p> <ul style="list-style-type: none"> rehabilitate the site; and manage the remnant vegetation and habitat on the site; 	<ul style="list-style-type: none"> Landscape Management Plan (revised), 15 Jun 2011 Rehabilitation Management Plan, 15 Jun 2011 	<p>A draft Rehabilitation Management Plan was submitted to DoP on 28 February 2010 (i.e. within 6 months of the Project Approval) and the Rehabilitation Management Plan was revised and resubmitted on 15 June 2011. A Final Rehabilitation Management Plan was submitted to DP&I on 13 March 2012.</p> <p>No response from DP&I re the Rehabilitation Management Plan had been received by Bloomfield at the date of this audit (November 2015).</p>	Compliant
				Administrative Non-Compliance

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
	<p>c) performance and completion criteria for the rehabilitation of the site;</p> <p>d) a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for:</p> <ul style="list-style-type: none"> • minimising and rehabilitating disturbed areas; • protecting vegetation and soil outside the disturbance areas; • undertaking pre-clearance surveys; • managing impacts on fauna; • landscaping the site to minimise visual impacts; • conserving and reusing topsoil; • collecting and propagating seed for rehabilitation works; • salvaging and reusing material from the site for habitat enhancement; • controlling weeds and feral pests; • controlling access; and • bushfire management; <p>e) a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>f) a description of the potential risks to successful rehabilitation and/or revegetation, and a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>g) details of who would be responsible for monitoring, reviewing, and implementing the plan.</p>		<p>The Rehabilitation Management Plan includes:</p> <p>a) Rehabilitation Aim and Objectives (page 9) and Appendix A – Rehabilitation Objectives (page A.4);</p> <p>b) Rehabilitation Approach (page 8) and Table 2</p> <p>c) Rehabilitation Indicators and Completion Criteria (page 10) and Assessment Program (page 14);</p> <p>d) Table 2 Rehabilitation Objectives and Criteria outlines the measures and timing to be implemented over 3 years (Appendix A pages A.3 to A.9);</p> <p>e) Monitoring Protocol (page 13) and Appendix A Monitoring Methodology (page A.9);</p> <p>f) Rehabilitation Indicators and Completion Criteria (page 10) and Assessment Program (page 14);</p> <p>g) Roles and Responsibilities (page 8)</p>	<p>a)Compliant</p> <p>b)Compliant</p> <p>c)Compliant</p> <p>d)Compliant</p> <p>e)Compliant</p> <p>f)Compliant</p> <p>g)Compliant</p>
	Final Void Management Plan			
3/28	<p>The Final Void Management Plan must:</p> <p>a) justify the final location and future use of the final void;</p> <p>b) incorporate design criteria and specifications for the final void based on verified groundwater modelling predictions and a re-assessment of post-mining groundwater equilibration; and</p> <p>c) describe what actions and measures would be implemented to:</p> <ul style="list-style-type: none"> • minimise any potential adverse impacts associated with the final void; and • manage and monitor the potential impacts of the final void. 	<ul style="list-style-type: none"> • Landscape Management Plan (revised), 15 Jun 2011 • Final Void Management Plan, 13 Jun 2012 • Email to DP&I re Final Void Management Plan for Approval, dated 13 Jun 2012 	<p>The Final Void Management Plan was prepared with the Landscape Management Plan and submitted to DP&I on 13 June 2012. No response to the Landscape Management Plan had been received from DP&I at the date of this audit (November 2015).</p> <p>The Final Void Management Plan include:</p> <p>a) Location of the final void (page7);</p> <p>b) Design Criteria for Final Void – Groundwater Model (page 8);</p> <p>c) Actions and measures to be implemented are described in:</p> <ul style="list-style-type: none"> • Potential Impacts of Final Void (page 9) and • Monitoring of Final Void (page 11). 	<p>Compliant</p> <p>Administrative Non-Compliance</p> <p>a)Compliant</p> <p>b)Compliant</p> <p>c)Compliant</p>
	Mine Closure Plan			

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
3/29	<p>The Mine Closure Plan must:</p> <p>a) be prepared in consultation with DRE and Council;</p> <p>b) define the objectives and criteria for mine closure;</p> <p>c) investigate options for the future use of the site in a manner consistent with the Lower Hunter Regional Strategy (Department of Planning, 2006) and/or other extant regional planning strategies;</p> <p>d) investigate ways to minimise the adverse socio-economic effects associated with mine closure, including reduction in local employment levels;</p> <p>e) describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the project; and</p> <p>f) describe how the performance of these measures would be monitored over time.</p>	<ul style="list-style-type: none"> Landscape Management Plan (revised), 15 Jun 2011 Email to Cessnock Council re Mine Closure Plan, 1 Jun 2012 Email to DP&I re Mine Closure Plan for Approval, dated 28 Jun 2012 Lower Hunter Regional Strategy (DoP, 2006) 	<p>The Mine Closure Plan was prepared part of the Landscape Management Plan and submitted to DoP on 28 June 2012.</p> <p>No response to the Landscape Management Plan had been received from DP&I at the date of this audit (February 2013)</p> <p>The Mine Closure Plan 28 June 2012 includes:</p> <p>a) The Mine Closure Plan was prepared in consultation with DRE and Cessnock Shire Council ;</p> <p>b) Purpose and Objectives (page 5)</p> <p>c) Future Land Use Options (page 8-9) with reference to Lower Hunter Regional Strategy (DoP, 2006),The Ashtonfield Agreement, and Stony Pinch Consortium;</p> <p>d) Socioeconomic Effects of Mine Closure (page 10);</p> <p>e) Post-closure Management Measures (page 11);</p> <p>f) Post-closure Monitoring (page 12).</p>	Compliant
				Administrative Non-Compliance
				a)Compliant
				b)Compliant c)Compliant
	Biodiversity Offsets			
3/29A	By 31 December 2011, the Proponent shall make suitable arrangements to provide appropriate long-term security for the Biodiversity Offset Area (see Appendix 6) to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Certificate of Title, DP1170348 Lot 2371, Registered 5 Jan 2012 	A Certificate of Title for Lot 2371 DP1170348, LGA Cessnock, Parish of Ellalong, County of Northumberland, was registered on 5 January 2012 to Four Mile Pty Ltd with Second Schedule condition of Restriction of Use of Land. The land defined in the Certificate of Title is consistent with Appendix 6 of the Project Approval.	Compliant
	Biodiversity Offset Management Plan			
3/29B	<p>By 31 December 2011, the Proponent shall prepare and implement a Biodiversity Offset Management Plan to the satisfaction of the Director-General. This plan must:</p> <p>a) be generally consistent with OEH's "Principles for the use of biodiversity offsets in NSW";</p> <p>b) include:</p> <ul style="list-style-type: none"> a description of the short, medium and long term measures that would be undertaken to implement the Biodiversity Offset Strategy; detailed performance and completion criteria for the Biodiversity Offset Strategy; and a detailed description of the measures that would be implemented within the Biodiversity Offset Area for: <ul style="list-style-type: none"> revegetation and regeneration, including (where relevant) establishment of canopy, sub- canopy, understorey and ground cover; appropriate protection, conservation and management of native vegetation and faunal habitat; 	<ul style="list-style-type: none"> Principles for the use of biodiversity offsets in NSW, OEH Biodiversity Offset Management Plan, dated 20 Oct 2011 Letter to DP&I re Biodiversity Offset Management Plan, 7 Nov 2011 	<p>The Biodiversity Offset Management Plan was prepared and submitted to DP&I on 7 November 2011 for approval.</p> <p>No response to the Biodiversity Offset Management Plan had been received from DP&I at the date of this audit (November 2015)</p> <p>The Biodiversity Offset Management Plan:</p> <p>a) references the "Principles for the use of biodiversity offsets in NSW" OEH;</p> <p>b) includes:</p> <ul style="list-style-type: none"> Short, Medium and Long-term Measures (pages 6-7); Performance and Completion Criteria (page 7); Description of the measures that would be implemented within the Biodiversity Offset Area for: <ul style="list-style-type: none"> Regeneration (page 8); Protection, Conservation and Management (page 8); Weeds and Feral Pests (page 8); Public Access (page 9); Bushfire Management (page 9) 	Compliant
				Administrative Non-Compliance
				a)Compliant b)Compliant

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	<ul style="list-style-type: none"> - controlling weeds and feral pests; - management of public access; and - bushfire management 			
	Conservation Bond			
3/29C	<p>Within 6 months of the approval of the Biodiversity Offset Management Plan, the Applicant shall lodge a conservation bond with the Department to ensure that the Biodiversity Offset Strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Offset Management Plan. The sum of the bond shall be determined by:</p> <p>a) calculating the full remaining cost of implementing the offset strategy; and</p> <p>b) employing a suitably qualified quantity surveyor to verify these costs,</p> <p>to the satisfaction of the Director-General.</p> <p>If the Biodiversity Offset Strategy is completed to the satisfaction of the D-G, the D-G will release the conservation bond. If the Biodiversity Offset Strategy is not completed to the satisfaction of the Director-General, the D-G will call in all or part of the conservation bond, and arrange for the satisfactory completion of the relevant works.</p>		<p>The Biodiversity Offset Management Plan submitted to DP&I on 7 November 2011 had not been approved by DP&I at the date of this audit (November 2015).</p> <p>The conservation bond is not required to be lodged with the DP&I until 6 months after approval of the Biodiversity Offset Management Plan.</p>	Not yet activated
	Conservation Funding			
3/30	<p>Within 6 months of the date of this approval, and again prior to 30 September 2011, the Proponent shall provide contributions of \$20,000 to conservation projects within the Cessnock LGA, in consultation with OEH and to the satisfaction of the Director-General.</p>	<ul style="list-style-type: none"> • Letter from DoP re Approval of Conservation Funding, 22 Apr 2010 • Bloomfield Remittance of Contribution to Stanford Merthyr Crown Reserve – First Payment 21 May 2010 • Bloomfield Remittance of Contribution to Stanford Merthyr Crown Reserve – Second Payment 17 Jun 2011 	<p>Bloomfield received approval from DoP on 22 April 2010 for the provision of funding for conservation projects in the Cessnock local government area.</p> <p>The approved funding was provided to the NSW Land and Property Management Authority for the Stanford Merthyr Crown Reserve Rehabilitation Project. Contributions of \$20,000 for the Stanford Merthyr Crown Reserve have been made by Bloomfield in accordance with the funding approved by the Director-General on 22 April 2010.</p>	Compliant
	HERITAGE			
	Aboriginal Cultural Heritage Management Plan			
3/31	<p>The Proponent shall prepare and implement an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:</p>	<ul style="list-style-type: none"> • Aboriginal Cultural Heritage Management Plan, dated 25 May 2010 	<p>a) The Aboriginal Cultural Heritage Management Plan was prepared by Bloomfield, and reviewed and endorsed by the Mindaribba Local Aboriginal</p>	(a)Compliant

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	<p>a) be prepared in consultation with the OEH and the local Aboriginal community and be submitted to the D-G for approval within 6 months of the date of this approval;</p> <p>b) include a protocol for the ongoing consultation and involvement of Aboriginal communities in the conservation and management of Aboriginal heritage on site; and</p> <p>c) describe the measures that would be implemented to protect Aboriginal sites on site, or if any new Aboriginal objects or skeletal remains are discovered during the project.</p>	<ul style="list-style-type: none"> Letter re Aboriginal Cultural Heritage Management Plan, Mindaribba Local Aboriginal Land Council, 30 Apr 2010 Letter to DoP re Aboriginal Cultural Heritage Management Plan, 5 May 2010 Letter from DoP re Approval of Aboriginal Cultural Heritage Management Plan, 27 May 2010 Report on Salvage of Artefacts during Aboriginal Monitoring April 2014 	<p>Land Council on 30 April 2010. The Plan was approved by DoP on 27 May 2010.</p> <p>b) The section on Aboriginal Community (page 7) provides for ongoing consultation and involvement of Aboriginal communities in the conservation and management of Aboriginal heritage on site;</p> <p>c) Onsite Aboriginal Heritage (pages 7 to12) provide guidance in relation to the measures that would be implemented to protect Aboriginal sites on site, or if any new Aboriginal objects or skeletal remains are discovered during the project activities.</p> <p>A Report on Salvage of Artefacts during Aboriginal Monitoring April 2014 was prepared by Southeast Archaeology Pty Ltd. South East Archaeology undertook the archaeological salvage with the Mindaribba Local Aboriginal Land Council required under the Part 3A Project Approval Conditions and the Aboriginal Cultural Heritage Management Plan ACHMP. Salvage included the surface collection of all visible artefacts from sites B2, B16, B18, B19, B20 and B22.</p>	<p>(b) Compliant</p> <p>(c) Compliant</p>
	VISUAL			
3/32	<p>The Proponent shall:</p> <p>a) take all reasonable and feasible measures to mitigate visual and off-site lighting impacts of the project; and</p> <p>b) ensure that all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting, to the satisfaction of the Director-General.</p>	AS4282 1995 – Control of Obtrusive Effects of Outdoor Lighting	Mining activities occur within the open pits and overburden placement during night time works occurs on low dump areas to minimise potential for light impact on off-site receivers from operational light sources.	Compliant
	GREENHOUSE GAS			
	Energy Saving Action Plan			
3/33	<p>The Proponent shall prepare and implement an Energy Savings Action Plan for the project to the satisfaction of the Director-General. This plan must:</p> <p>a) be prepared in accordance with the Guidelines for Energy Savings Action Plans (DEUS, 2005), or its latest version, and be submitted to the Director-General for approval within 6 months of the date of this approval;</p> <p>b) include consideration of energy use by mobile equipment;</p> <p>c) include a program to monitor the effectiveness of measures to reduce energy use on site.</p>	<ul style="list-style-type: none"> Energy Savings Action Plan, 8 Jul 2011 Letter to DP&I re Energy Savings Action Plan, 31 Mar 2010 Letter to DP&I re Energy Savings Action Plan, 4 Nov 2011 	<p>The Energy Saving Action Plan was prepared and implemented by Bloomfield as part of the EMS for the project:</p> <p>a) The Energy Saving Action Plan was prepared and submitted to the DoP within 6 months of the date of this Project Approval;</p> <p>b) consideration of energy use by mobile equipment is addressed in several sections of the plan;</p> <p>c) a program to monitor the effectiveness of measures to reduce energy use on site System Review and Improvement (page 11)</p>	<p>(a) Compliant</p> <p>(b) Compliant</p> <p>(c) Compliant</p>
	WASTEMINIMISATION			
3/34	<p>The Proponent shall:</p> <p>a) monitor the amount of waste generated by the project;</p> <p>b) investigate ways to minimise waste generated by the project;</p>	2011-2012 Annual Environmental, Management Report	<p>Management of waste from the Bloomfield site is contracted to Transpacific Waste that supply 1.5m³ and 3m³ waste bins for the segregation, collection and disposal of:</p> <ul style="list-style-type: none"> General waste 	Compliant

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	c) implement all reasonable and feasible measures to minimise waste generated by the project; and d) report on waste management and minimisation in the AEMR, to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Australian Waste Oil Refineries – Collection Records 2013 to 2015 General waste and Oil Filter Waste Records, Transpacific Cleanaway Pty Ltd Remondis Australia Pty Ltd General Waste Contractor, 20 Aug 2015 	<ul style="list-style-type: none"> Paper and cardboard Oil filters Old paint drums. <p>Waste oil from scheduled maintenance of mining equipment and the workshop oil separator is collected in a storage tank and periodically evacuated for reprocessing and re-use by Australian Waste Oil Refineries.</p>	
	SCHEDULE 4 ADDITIONAL PROCEDURES			Not activated
	NOTIFICATION OF LANDOWNERS			
4/1	If the results of the monitoring required in schedule 3 identify that impacts generated by the project are greater than the relevant impact assessment criteria, except where a negotiated agreement has been entered into in relation to that impact, then the Proponent shall, within 2 weeks of obtaining the monitoring results, notify the Director-General, the affected landowners and Tenants (including tenants of mine owned properties) accordingly, and provide quarterly monitoring results to each of these parties until the results show that the project is complying with the criteria in schedule 3.	<ul style="list-style-type: none"> Letter to DP&I re Quarterly Noise Monitoring Result Exceedance, 31 Jul 2013 Letter to B McNaughton re Noise Exceedance, 13 Aug 2013 Letter from DP&I re Noise Monitoring Result Exceedance, 14 Aug 2013 Letter to DP&I re Quarterly Noise Monitoring Result Exceedance, 29 Sep 2015 Letter to M Elliot re Noise Exceedance, 29 Sep 2015 Letter to B McNaughton re Noise Exceedance, 29 Sep 2015 	<p>Two exceedances were notified to DP&I/DP&E and the landowners during the 2013 to 2015 period:</p> <ul style="list-style-type: none"> Quarterly noise monitoring (dated June 2013) exhibited an exceedance of the noise criteria at one privately owned property located to the south of the Bloomfield site on John Renshaw Drive (N daytime exceedance of 8dBA and evening 2dBA). In response to the monitoring results Bloomfield re-assessed the timing of switching from the day time dump location operations to a night time dump location that reduced exposure of the receiver to noise emitted from the waste emplacement area. Quarterly noise monitoring (dated May 2015) undertaken by SLR demonstrated a minor exceedance of the noise criteria at two privately owned properties located to the south of the site on John Renshaw Drive (M daytime exceedance 1dBA; and N evening 2dBA and night-time exceedance 6 dBL_{1(1minute)}). The cause of the noise exceedance was haul trucks being parked on a high stockpile dump at the end of afternoon shift. In response Bloomfield has put in place measures to prevent haul trucks being parked up on high dumps at the end of shifts. 	Compliant
4/2	If the results of monitoring required in schedule 3 identify that impacts generated by the project are greater than the relevant air quality impact assessment criteria in schedule 3, then the Proponent shall send the relevant landowners and tenants (including tenants of mine owned properties) a copy of the NSW Health fact sheet entitled "Mine Dust and You" (and associated updates) in conjunction with the notification required in condition 1.			Not activated
	INDEPENDENT REVIEW			
4/3	If a landowner considers the project to be exceeding the impact assessment criteria in schedule 3, then he/she may ask the			Not activated

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	<p>Director-General in writing for an Independent review of the impacts of the project on his/her land.</p> <p>If the Director-General is satisfied that an independent review is warranted, the Proponent shall within 2 months of the Director-General's decision:</p> <p>a) consult with the landowner to determine his/her concerns;</p> <p>b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to conduct monitoring on the land, to:</p> <ul style="list-style-type: none"> • determine whether the project is complying with the relevant impact assessment criteria in schedule 3; and • identify the source(s) and scale of any impact on the land, and the project's contribution to this impact; and <p>c) give the Director-General and landowner a copy of the independent review.</p>			
4/4	<p>If the independent review determines that the project is complying with the relevant impact assessment criteria in schedule 3, then the Proponent may discontinue the Independent review with the approval of the Director-General.</p> <p>If the independent review determines that the project is not complying with the relevant impact assessment criteria in schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent shall:</p> <p>a) take all reasonable and feasible measures, in consultation with the landowner, to ensure that the project complies with the relevant criteria and Conduct further monitoring to determine whether these measures ensure compliance; or</p> <p>b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Director-General.</p> <p>If further monitoring under paragraph (a) determines that the project is complying with the relevant criteria, then the Proponent may discontinue the independent review with the approval of the Director-General.</p>			Not activated
4/5	<p>If the independent review determines that the relevant impact assessment criteria in schedule 3 are being exceeded, but that more than one mine is responsible for this non-compliance, then the Proponent shall, together with the relevant mine/s:</p>			Not activated

Condition No.	Project Approval Condition	Verification Documentation	Comments	Compliance Status
	<p>a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the relevant impact assessment criteria are complied with, and conduct further monitoring to determine whether these measures ensure compliance; or</p> <p>b) secure a written agreement with the landowner and other relevant mines to allow exceedances of the relevant impact assessment criteria in schedule 3, to the satisfaction of the Director-General.</p> <p>If the further monitoring referred to under paragraph (a) above determines that the project is complying with the relevant impact assessment criteria in schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.</p>			
	SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, MONITORING, REPORTING AND AUDITING			
	ENVIRONMENTAL MANAGEMENT			
	Environmental Management Strategy			
5/1	<p>The Proponent shall prepare and implement an Environmental Management Strategy for the project, to the satisfaction of the Director-General. The strategy must:</p> <p>a) be submitted to the Director-General for approval within 6 months of the date of this approval;</p> <p>b) provide the strategic framework for environmental management of the project;</p> <p>c) identify the statutory approvals that apply to the project;</p> <p>d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</p> <p>e) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the project; • respond to any non-compliance; and • respond to emergencies; <p>f) copies of the various strategies, plans and programs that are required under the conditions this approval once they have been approved; and</p>	<ul style="list-style-type: none"> • Environmental Management Strategy (revised), dated 9 Jun 2011 • Letter to DP&I re Revised Environmental Management Strategy, 25 Feb 2010 • Letter to DP&I re Revised Environmental Management Strategy, 4 Nov 2011 	<p>An Environmental Management Strategy was prepared and submitted to the DoP on 25 February 2010. The EMS was revised on 4 November 2011 and resubmitted to DP&I on 13 March 2012:</p> <p>a) The EMS was submitted to the Director-General within 6 months of the date of this Project Approval;</p> <p>b) The EMS provides the strategic framework for environmental management of the project (page 3);</p> <p>c) Statutory approvals for the project are outlined in Statutory Obligations (page 5), Approved Development (page 6) and Project Approval (page 8);</p> <p>d) Roles and Responsibilities (page 9);</p> <p>e) Procedures to be implemented are:</p> <ul style="list-style-type: none"> • Public Awareness (page 10); • Public Awareness - Complaints (page 10); • Non-Compliance (page 11); • Emergency Procedures and Incident Response (page 11); <p>f) Relationship with Other Plans (page 5);</p> <p>g) Monitoring (page 10)</p>	Compliant

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	g) a clear plan depicting all the monitoring to be carried out in relation to the project			
	Management Plan Requirements			
5/2	<p>The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>a) detailed baseline data;</p> <p>b) a description of:</p> <ul style="list-style-type: none"> • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures / criteria; • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures; <p>c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> • impacts and environmental performance of the project; • effectiveness of any management measures (see (c) above); <p>e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>f) a program to investigate and implement ways to continually improve the environmental performance of the project over time;</p> <ul style="list-style-type: none"> • a protocol for managing and reporting any: • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and <p>g) a protocol for periodic review of the plan.</p>	<ul style="list-style-type: none"> • Environmental Management Strategy, • Land Management Plan, 10 Oct 2012 • Rehabilitation Management Plan, • Final Void Management Plan, • Mine Closure Plan, • Water Management Plan • Site Water Balance • Erosion and Sediment Control Plan • Surface Water Monitoring Program • Groundwater Monitoring Program 	<p>The Bloomfield Management Plans have been prepared to address the requirements of this condition:</p> <p>Each Management Plan has:</p> <p>a) Baseline data is provided in the Environmental Assessment for the Completion of Mining and Rehabilitation (November 2008) and where relevant included in the management plans;</p> <p>b) Management Plans generally include:</p> <ul style="list-style-type: none"> • a section on Statutory Obligations and Project Approval conditions; • relevant limits or performance measures / criteria specified in conditions of approval are included where relevant (e.g. air quality, water quality, noise, vibration); • performance indicators are proposed where practicable to assess performance of, or guide the implementation of, the project management measures (e.g. air quality, water quality, noise, vibration); <p>c) Control Measures are tabulated in relevant Management Plans (e.g. air quality, water quality, noise, vibration);</p> <p>d) Monitoring to assess impacts and environmental performance of the project are included in each Management Plan;</p> <p>e) Contingency plans to manage any unpredicted impacts and their consequences from the project are outlined in the EMS and included in relevant Management Plans;</p> <p>f) Continual Improvement section is included in each Management Plan including:</p> <ul style="list-style-type: none"> • Incidents and complaints are addressed in section on Investigation and Reporting of Exceedances and Community Complaints; • Non-compliance and exceedances are addressed in Monitoring sections; <p>g) A section on Systems Review, Document Management and Continual Improvements provides for periodic review of the Management Plans.</p> <p>The Environmental Management Strategy includes a number of the requirements common to all management plans.</p>	<p>Compliant</p> <p>(refer to specific section 4.2 of this audit report)</p>
	Annual Review			
5/3	<p>Each year, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General. This review must:</p> <p>a) describe the works that were carried out in the past year, and the works that are proposed to be carried out over the next year;</p>	<ul style="list-style-type: none"> • Guidelines and Format for Preparation of an Annual Environmental Management Report, DT&I EDG03 • 2014 Annual Environmental Management Report submitted 24 Mar 2015 	<p>The annual reports prepared by Bloomfield have been prepared between 2012 and 2015 as Annual Environmental Management Reports:</p> <p>a) section 2 - Operations during the Reporting Period</p> <p>b) section 3 - Environmental Management and Performance. Monitoring data is tabulated against the regulatory standards/criteria for the current year, and provides comment on trends and predictions in the EA (where relevant);</p>	<p>Compliant</p>

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	<p>b) include a comprehensive review of the monitoring results and complaints records of the mine complex over the past year, which includes a comparison of these results against:</p> <ul style="list-style-type: none"> the relevant statutory requirements, limits or performance measures/criteria; the monitoring results of previous years; and the relevant predictions in the EA; <p>c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>d) identify any trends in the monitoring data over the life of the project;</p> <p>e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</p> <p>f) describe what measure will be implemented over the next year to improve the environmental performance of the project.</p>	<ul style="list-style-type: none"> 2013 Annual Environmental Management Report submitted 17 Apr 2014 2012 Annual Environmental Management Report 	<p>c) Non-compliant results are highlighted and the final section under each aspect includes proposed actions to be taken during the next year;</p> <p>d) Long term trends in monitoring data are reported for groundwater levels and quality, dust deposition, and community complaints. over the life of the project are not included in the AEMR;</p> <p>e) Predictions from the Environmental Assessment are included for each environmental aspect in the AEMR under Environmental Performance in section 3, where relevant.</p> <p>f) section 6 addresses Activities Proposed in the Next AEMR Period</p> <p>The annual reporting of environmental performance generally follows the requirements of Project Approval Schedule 5 condition 3 in the Annual Environmental Management Reports (equivalent to the Annual Review requirements).</p>	
	Revision of Strategies, Plans and Programs			
5/4	<p>Within three months of:</p> <p>a) the submission of an annual review under Condition 3 above;</p> <p>b) the submission of an incident report under Condition 6 below;</p> <p>c) the submission of an audit report under Condition 7 below, or</p> <p>d) any modification of the conditions of this approval (unless the conditions require otherwise),</p> <p>the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.</p> <p><i>Note: This is to ensure that strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	<ul style="list-style-type: none"> Email to DP&I re Updated Noise and Water Management Plans following Independent Environmental Audit 4 Oct 2013 	<p>The Noise Management Plan and Water Management Plan were updated following recommendations in the 2012 Independent Environmental Audit. The revised management plans were submitted to DP&I on 4 October 2013.</p>	Compliant
	Community Consultation Committee			
5/4	<p>Within 3 months of the date of this approval, the Proponent shall establish a Community Consultative Committee (CCC) for the project to the satisfaction of the Director-General. The CCC must be operated in general accordance with the Guidelines for Establishing and Operating Community Consultative</p>	<ul style="list-style-type: none"> Letter from DoP re Approval of the CCC Chair, 2 Mar 2010 CCC Initial Meeting Minutes, 3 May 2010 CCC Meeting Minutes, April 2013 	<p>A Community Consultative Committee (CCC) was established for the project and the first meeting held on 3 May 2010. Quarterly meetings have been held between 2013 and 2015. The CCC is operated in general accordance with the <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects</i> (Department of Planning, 2007). Minutes of the CCC Meetings are posted on the website.</p>	Compliant

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	Committees for Mining Projects (Department of Planning, 2007, or its latest version). <i>Note: The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval. In accordance with the Guideline, the Committee should comprise an independent chair and appropriate representation from the Proponent, affected Councils, recognised environmental groups and the general community.</i>	<ul style="list-style-type: none"> • CCC Meeting Minutes, 29 Jul 2013 • CCC Meeting Minutes, 25 Nov 2013 • CCC Meeting Minutes, 28 Apr 2014 • CCC Meeting Minutes, 28 Jul 2014 • CCC Meeting Minutes, 24 Nov 2014 • CCC Meeting Minutes, 27 Apr 2015 • CCC Meeting Minutes, 27 Jul 2015 	The CCC has an Independent Chairperson approved by the Director-General (and community and Cessnock City Council representatives) The current CCC members are: Independent Chairperson - Margaret MacDonald-Hill Cessnock City Council Representative Community Representatives: Janet Murray, Jack Dwyer Bloomfield Colliery Representatives: Greg Lamb and Brendon Clements	
	INCIDENT REPORTING			
5/5	The Proponent shall notify the Director-General and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident.	<ul style="list-style-type: none"> • Letter to DP&I re Quarterly Noise Monitoring Result Exceedance, 31 Jul 2013 • Letter to EPA re Leak in the Recycle Water Pipeline, 13 May 2014 • Letter to EPA and DRE re Incident Report on Leak in the Recycle Water Pipeline, May 2014 • Email re Pollution Line Notification re TSS Exceedance in Water Discharged to Four Mile Creek, 29 Apr 2015 • Letter to EPA re Report re TSS Exceedance in Water Discharged to Four Mile Creek, 29 Apr 2015 • Letter to DP&I re Quarterly Noise Monitoring Result Exceedance, 29 Sep 2015 	Notification to the EPA Pollution Line and written reports on any reportable incidents to the DP&E and DRE have occurred for any notifiable incidents and copies of reports forwarded to relevant agencies as required under Project Approval 07_0087, EPL 396 and CCL 361.	Compliant Ongoing
	INDEPENDENT ENVIRONMENTAL AUDIT			
5/6	Every 3 years, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an	<ul style="list-style-type: none"> • Independent Environmental Audit, Feb 2013 	The initial Independent Environmental Audit was conducted in February 2013, 3 years after the granting of the Project Approval 07_0087.	Compliant


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	<p>Independent Environmental Audit of the project. This audit must:</p> <ol style="list-style-type: none"> be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General; include consultation with the relevant agencies; assess the environmental performance of the project and assess whether it is complying with the requirements in relevant project approvals and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals); review the adequacy of strategies, plans or programs required under these approvals; and recommend appropriate measures or actions to improve the environmental performance of the mine complex, and/or any assessment, plan or program required under these approvals. <p><i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Director-General.</i></p>	<ul style="list-style-type: none"> Letter from DP&E re Endorsement of Independent Environmental Audit Team, 10 Sep 2015 Email from DP&E re Consultation under Schedule 5 condition 6(b), 24 Aug 2015 Email from DoI-RED re Consultation under Schedule 5 condition 6(b), 20 Aug 2015 Email to EPA re Consultation under Schedule 5 condition 6(b), 20 Aug 2015 	<p>This current Independent Environmental Audit was conducted in November 2015 to satisfy the requirement of this condition.</p> <ol style="list-style-type: none"> DPE approved Trevor Brown & Associates on 10 September 2015 to conduct the Independent Environmental Audit of the Bloomfield operations; Consultation occurred with DP&E, DoI-RED & EPA re any special requirements for the independent environmental audit. Response from DoI-RED addressed in section 4 of the audit report. DP&E did not require any specific issues to be audited. No specific audit requirements were received from EPA; Assessment of environmental performance of the project against Project Approval conditions (Attachment A) and Statements of Commitments from the EA (Attachment B), EPL 396 conditions (Attachment C) and Mining Lease conditions (Attachment E) are provided; Review strategies / plans / programs for adequacy (refer to section 3 of this Independent Environmental Audit Report); Measures and/or actions to improve environmental performance (refer to section 5 Conclusions of this Independent Environmental Audit Report). 	
5/7	<p>Within 6 weeks of the completion of this audit, or as otherwise agreed by the D-G, the Proponent shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.</p>	<ul style="list-style-type: none"> Independent Environmental Audit, Feb 2013 Letter to DP&I re Independent Environmental Audit and Response to Recommendations, 17 May 2013 	<p>Bloomfield responses to the recommendations in the 2013 Independent Environmental Audit Report were provided to the DP&I within 6 weeks of receipt of the report from the auditor. Action on each of the recommendations occurred to satisfy the intent of the February 2013 audit recommendations.</p>	Compliant
	ACCESS TO INFORMATION			
5/8	<p>From the end of 2009, the Proponent shall make the following information publicly available on its website:</p> <ol style="list-style-type: none"> a copy of all current statutory approvals for the project; a copy of the current environmental management strategy and associated plans and programs; a summary of the monitoring results of the project, reported in accordance with the various plans and programs approved under the conditions of this approval; a complaints register, updated on a monthly basis; a copy of the minutes of CCC meetings; a copy of any Annual Reviews (over the last 5 years); a copy of any Independent Environmental Audit, and the Proponent's response to the recommendations in any audit; and any other matter required by the Director-General. 	<p>www/bloomcoal.com.au/bloomfield</p>	<p>Bloomfield provides the required information outlined in this condition on its website: www.bloomcoal.com.au/bloomfield/bfield/Environment The Bloomfield Group website has the following headings for the Bloomfield Colliery under the Operations tab Approvals, Plans and Reports:</p> <ul style="list-style-type: none"> Overview Approvals Environmental Reports Management Plans Environmental Assessment Blasting Information CCC Information Complaints Register 	Compliant

ATTACHMENT B

STATEMENT OF COMMITMENTS (SOC) BLOOMFIELD COAL PROJECT

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
1	General			
1.1	Bloomfield Collieries Pty Limited ('Bloomfield') will carry out the proposed development generally in accordance with this Part 3A Environmental Assessment ('EA'). If there is any inconsistency between this draft Statement of Commitments and the EA, the draft Statement of Commitments will prevail to the extent of the inconsistency.	ENVIRONMENTAL ASSESSMENT s.1.4 Mining operations at Bloomfield Colliery have previously been carried out pursuant to existing use rights. The introduction of Part 3A of the EP&A Act in 2005 required Bloomfield to obtain Ministerial approval to continue mining and undertake site rehabilitation.	<i>Refer to Project Approval Schedule 2 conditions 2 and 3.</i> The Bloomfield Colliery development is being carried out generally in accordance with the Environmental Assessment ('EA') and documents identified in Project Approval Sch. 2 condition 2.	Compliant
1.2	Bloomfield will undertake mining within the Project Area, as defined by Figure 2 of the EA. The Project Area includes the following items and their associated mining activities: <ul style="list-style-type: none"> Current and proposed active open cut coal mining areas; Unshaped and shaped overburden dump areas within the Project Area; Workshop and surrounding area used for maintenance and fuel storage; Road linking the current and proposed coal mining areas with the ROM coal stockpiles adjacent to the coal washery; and Road linking the current and proposed coal mining areas to the workshop. 	ENVIRONMENTAL ASSESSMENT s.1.1 Bloomfield Colliery is an existing open cut mining operation located within Consolidated Coal Lease 761 ('CCL761'), granted under the Mining Act 1992 to the north of John Renshaw Drive, Buttai and east of Buchanan Road, Buchanan, approximately 20 km north-west of Newcastle. Bloomfield Colliery mining operations are carried out in accordance with Environmental Protection Licence 396 issued under the Protection of the Environment Operations Act 1997, and a Mining Operations Plan. ENVIRONMENTAL ASSESSMENT s.2.1 Bloomfield Coal Handling and Preparation Plant and rail loading facility operations, including associated water management and process waste management were approved by the Minister for Planning on 7 June 2007 as part of the Abel Project Approval.		Compliant

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
2	Production			
2.1	A maximum of 0.88 mtpa of ROM coal will be mined from the Bloomfield Mine during Stage 1 with a maximum of 1.3 mtpa ROM coal mined during Stages 2 to 4.	ENVIRONMENTAL ASSESSMENT s.2.5 The area to be mined is located in the south-western section of CCL761 and corresponds to the area contained within the current Bloomfield MOP. The proposed mining sequence and stages are described and shown in EA Figures 6 to 10. <ul style="list-style-type: none"> Stage 1 (current mining-2007-2008 period) – (Figure 6): Mining consists of two active open cut pits referred to as 'S Cut' and 'Creek Cut'; 	<i>Refer to Project Approval Schedule 2 condition 6.</i> Run-of-Mine coal extracted from 'The Wall' in 2010 to 2012 was less than 1.3mtpa: Jul 2012 to Jun 2013 - 992,727 tonnes Jul 2013 to Jun 2014 - 1,079,106 tonnes Jul 2014 to Jun 2015 - 1,114,631 tonnes	Compliant
2.2	Active mining will occur over 4 stages, which total approximately 10 to 12 years. The final 5 th stage is the completion of site rehabilitation.	<ul style="list-style-type: none"> Stage 2 (approximately Years 1-5) – (Figure 7): Mining in S Cut will advance to the west and north, while mining in Creek Cut advances in a southerly direction; Stage 3 (approximately Years 5 to 7) – (Figure 8): Mining in S Cut continues north and west, whilst mining in Creek Cut continues southwards, eventually joining to create one pit; Stage 4 (approximately Years 7 to 10) – (Figure 9): Completion of mining in Creek Cut and western extensions of S Cut; and Stage 5 (approximately Years 10 to 12) – (Figure 10): Post Mining Rehabilitation. 	<i>Refer to Project Approval Schedule 2 condition 5:</i> Mining operations may take place on the site until 31 December 2021.	Compliant Ongoing
2.3	All Run-of-Mine ('ROM') coal will be transported by internal haul roads to the approved ROM coal stockpiles at the Bloomfield washery.	ENVIRONMENTAL ASSESSMENT s.2.6.1 The exposed coal seam is ripped and pushed up with dozers, loaded onto coal trucks and transported to the Bloomfield ROM coal stockpile via internal haul roads.	All Run-of-Mine ('ROM') coal is transported by internal haul roads to the approved ROM coal stockpiles at the Bloomfield coal handling and preparation plant (CHPP).	Compliant
3	Hours of Operation			
3.1	Bloomfield Mine will operate 24 hours per day, seven days per week.	ENVIRONMENTAL ASSESSMENT s.2.4 The Bloomfield Colliery operates 7 days/ week, 24 hours / day.	<i>Refer to Project Approval Schedule 2 condition 7.</i> The Bloomfield Colliery operates 24hours/day, 7 days/week.	Compliant
4	Rehabilitation			
4.1	All site rehabilitation, including monitoring and maintenance will be undertaken in accordance with procedures documented in the EA and the existing Bloomfield Rehabilitation Management System.	Bloomfield Colliery currently undertakes site rehabilitation in accordance its Landscape Management Plan and Rehabilitation Management Plan, developed in accordance with Project Approval 08_0087 Schedule 3 conditions 26 and 27. The Rehabilitation Plan for Bloomfield Colliery is appended to the LRMS and incorporates commitments made in the current Bloomfield MOP.	<i>Refer to Project Approval Schedule 3 condition 27.</i> Bloomfield Colliery developed a Rehabilitation Management Plan for mining completion on CCL 761 that is consistent with the Mining Operations Plan for the Project.	Compliant
4.2	Any additional rehabilitation requirements and plans for this Project will be included in the existing Bloomfield Rehabilitation Management System.			Compliant
4.3	Land that has been mined will be rehabilitated to a safe and stable form with a land capability similar to that existing prior to mining, and with a landform compatible with the surrounding landscape.	ENVIRONMENTAL ASSESSMENT s.3.3.2 <ul style="list-style-type: none"> Rehabilitated land will be safe and stable; Land capability will be returned to a class similar to that existing prior to the commencement of mining; and Mined land will be re-contoured to a landform compatible with the surrounding natural landscape. 	<i>Refer to Project Approval Schedule 3 condition 27.</i> A Land Management Plan prepared for the Bloomfield Colliery Project takes account of the final land use proposals for the surrounding adjacent mines and plans rehabilitation to be stable and compatible with the surrounding landscape.	Compliant Ongoing

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
4.4	Post mining landform and land use plans will be developed in consultation with the landowner and with reference to the objectives of the Lower Hunter Regional Strategy (DoP, 2006).	ENVIRONMENTAL ASSESSMENT s.3.6.1 Selection of an appropriate post-mining land use and development of a suitable post mining landform is an integral part of the Bloomfield Colliery Project.	Refer to Project Approval Schedule 3 condition 28 and 29. A Mine Closure Plan has been prepared by Bloomfield with the Land Management Plan.	Compliant
5	Final Void			
5.1	The final void will be retained for the deposition of washery reject material in accordance with the Abel Project Approval.	ENVIRONMENTAL ASSESSMENT s.3.5 The final void will be at the northern extension of S Cut where it will join with Creek Cut open pit void. The final void will remain as part of an active disposal site for reject material from the washery, approved under the Abel Project. Abel Project Approval 05_0136 Schedule 4 condition 34 WASTE Disposal of Tailings and Coarse Reject 34. The Proponent shall ensure that the: (a) <u>fine tailings generated by the project are disposed of within existing underground workings or open cut pits on the Bloomfield site;</u> and (b) <u>coarse rejects generated by the project are disposed of within existing open cut pits on the Bloomfield site,</u>	Refer to Project Approval Schedule 3 condition 28. The Final Void Management Plan for the Bloomfield Colliery open cut mine was prepared with the Land Management Plan. A final void will be made available for the disposal of coarse rejects and tailings from the Bloomfield CHPP (that will be processing Abel Project Coal), after the Bloomfield Colliery open cut mining is complete.	Compliant Ongoing
5.2	Rehabilitation of the final void forms part of the Abel Project Approval. However, rehabilitation of the tailings filled void at the completion of the Abel Project will remain the responsibility of Bloomfield as outlined in the Draft Bloomfield Closure and Rehabilitation Strategy (Abel).	Letter to DoP, 11/5/09 Abel Underground Mine Part 3A Environmental Assessment, Vol.1 section 2.13.2 - Decommissioning and Rehabilitation after Completion of Mining: <i>"Rehabilitation will be undertaken in accordance with DPI guidelines which require the Bloomfield Mine Operations Plan, required as a condition of the Bloomfield mining lease, to provide details on proposed outcomes to be achieved through rehabilitation and final landform."</i>	Refer to Project Approval Schedule 3 condition 28. (SoC 20.3 addresses the same commitment) The Final Void Management Plan for the Bloomfield Colliery open cut works has been prepared with the Landscape Management Plan, and approved as part of the Mining Operations Plan 2011-2016.	Compliant
6	Environmental Management Strategy and Plans			
6.1	Bloomfield's existing environmental management systems, plans and procedures will be applied to this Project and will be amended where relevant to incorporate additional items required to manage, mitigate, or monitor impacts associated with this Project.	ENVIRONMENTAL ASSESSMENT s.2.8 Bloomfield Mining Operations Environmental Management System ('EMS') has been developed generally in accordance with ISO 14001 elements. This EMS, systems and procedures will continue to be applied to Project operations, until the completion of mining.	Refer to Project Approval Schedule 5 condition 1. The Bloomfield Colliery mining project operates under the Bloomfield Mining Operations Environmental Management System and the Environmental Management Strategy prepared under Project Approval 07_0087Schedule 5 condition 1.	Compliant
7	Environmental Monitoring and Reporting			
7.1	Bloomfield will undertake ongoing environmental monitoring as detailed in this EA.	ENVIRONMENTAL ASSESSMENT s.2.8 The environmental monitoring conducted for the Bloomfield Colliery operations occurs in accordance with the Integrated Environmental Monitoring Program .	Environmental monitoring of the Bloomfield Colliery operations occurs in accordance with the Integrated Environmental Monitoring Program (Abel December 2007) and the Monitoring programs developed under Project Approval 08_087 conditions.	Compliant
7.2	Bloomfield will implement and participate in the actions required for the Integrated Environmental	ENVIRONMENTAL ASSESSMENT s.2.8, and s.2.12	Bloomfield Colliery monitoring programs are consistent with the Integrated Environmental Monitoring Program (Abel Project)	Compliant

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
	Monitoring Program (IEMP) that forms part of the Abel Project Approval and which includes elements of the Bloomfield Project.	Bloomfield monitoring of its operations is included in the management plans and are also included in the Integrated Environmental Monitoring Program ('IEMP') (refer Section 2.12) relating to the adjacent Abel and Donaldson operations. Integration of this Project with adjacent operations has been a key consideration in mine planning and in all impact assessment studies.	December 2007), with additional monitoring locations included in the Air Quality / Water /Blast/Noise Monitoring Programs for the Bloomfield activities to supplement the integrated program.	
7.3	An Annual Environmental Management Report ('AEMR') will be prepared and forwarded to relevant government departments, including DoP. The AEMR will include a summary of all monitoring undertaken during the year, including a discussion of any exceedances and responses taken to ameliorate these exceedances.	ENVIRONMENTAL ASSESSMENT s.4.3.2 Bloomfield will be required to submit Annual Environmental Management Reports ('AEMR') documenting annual environmental performance in relation to the MOP commitments.	<i>Refer to Project Approval 07_0087 Schedule 5 condition 3.</i> Bloomfield have prepared Annual Environmental Management Reports. NB: This annual reporting of environmental performance follows the requirements of Project Approval 07_0087 Schedule 5 condition 3 required in the Annual Review report.	Compliant
8	Consultation			
8.1	Bloomfield will continue to consult with the local community throughout the life of the Project.	ENVIRONMENTAL ASSESSMENT s.5 A community consultation program was developed early in the Project to inform the surrounding community of the Project and involve them in the consideration of issues.	<i>Refer to Project Approval 07_0087 Schedule 5 condition 4.</i> A Community Consultative Committee (CCC) was established for the project and the first meeting held on 3 May 2010. CCC Meetings are held quarterly or as required.	Compliant
8.2	A specific representative of Bloomfield will be nominated and contact details provided so that members of the community may contact the mine with questions or complaints if required.	ENVIRONMENTAL ASSESSMENT s.5 Consultation with government authorities and the local community has occurred throughout the planning phase for the Completion of Mining and Rehabilitation at Bloomfield.	<i>Refer to EPL 396 condition M5</i> A 24 hour Community Hotline and email address is provided on the Bloomfield website for members of the community to contact the mine with questions or complaints.	Compliant
8.3	A record of any complaints received regarding the Project will be retained by Bloomfield for the duration of the Project.		<i>Refer to Project Approval 07_0087 Schedule 5 condition 1 - EMS. Refer to EPL 396 condition M4.3.</i> All complaints records are retained by Bloomfield Group in accordance with the EPL condition M4.	Compliant
9	Flora and Fauna			
9.1	A Flora and Fauna Management Plan will be developed and implemented prior to any clearing occurring as part of the Project.	Land Disturbance Management Procedure, 4 Oct 2007, Attachment Bloomfield Group Permit to Disturb Land Disturbance Management Procedure, 10 Oct 2012	The Bloomfield Group Permit to Disturb (pre-clearance survey) Attachment to the Land Disturbance Management Procedure is implemented prior to any vegetation clearance that is required. The Land Disturbance Management Procedure (dated 10 October 2012) outlines the controls to be implemented to manage and record disturbance to native vegetation, minimise any associated risk to native fauna populations, and control and record disturbance to Aboriginal artefacts (if encountered).	Compliant
9.2	The existing Bloomfield pre-clearance protocol will be implemented prior to any clearing occurring as part of the Project.	ENVIRONMENTAL ASSESSMENT s.7.6 and s.7.7 The following measure should be implemented to minimise any impact associated with this loss: <ul style="list-style-type: none"> Prepare and implement a pre-clearance protocol; 	Vegetation clearance and implementation of the pre-clearance protocol has occurred for the Bloomfield Colliery operations between 2013 and 2015 when any clearance has been planned: <ul style="list-style-type: none"> Approximately 7ha was stripped west of South Cut during 2014 Approximately 1ha was stripped to the west of South Cut and Creek Cut during 2013 	Compliant

November 10, 2015

BLOOMFIELD COLLIERY INDEPENDENT ENVIRONMENTAL AUDIT


SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
			<ul style="list-style-type: none"> Approximately 13ha was stripped to the west of South Cut and Creek Cut during 2012. 	
9.3	Bloomfield will commit to commensurate support to the value of \$20,000 for a local activity or program related to biodiversity, to be commenced within the first two years of mining.	<p>ENVIRONMENTAL ASSESSMENT s.7.6 and s.7.7 Response to Submissions (29/1/09) and DECC meeting minutes (30/4/09).</p> <p>The following measure should be implemented to minimise any impact associated with this loss:</p> <ul style="list-style-type: none"> Provide commensurate support of a relevant DECC approved research program in response to the loss of any of the 0.8 ha of Lower Hunter Spotted Gum – Ironbark Forest EEC. Initial discussion with DECC has indicated that a suitable strategy could be the contribution by Bloomfield to research appropriate to the conservation of this EEC community in the Hunter Region. 	<p>Refer to Project Approval 07_0087 Schedule 2 condition 14 and Schedule 3 condition 30.</p> <p>Contributions of \$20,000 for the Stanford Merthyr Crown Reserve were made by Bloomfield in accordance with the approval of the funding obtained from the Director-General on 22 April 2010.</p>	Compliant
10	Aboriginal Heritage			
10.1	An Aboriginal Heritage Management Plan ('AHMP') will be prepared in prior to any Project impacts occurring. This Plan will specify the policies and actions required to mitigate and manage the potential impacts of the Project on Aboriginal heritage. The plan will include: <ul style="list-style-type: none"> Procedures for ongoing Aboriginal consultation and involvement; Mitigation measures for the identified and potential Aboriginal evidence; Management procedures for any previously unrecorded evidence or skeletal remains; Training for relevant staff and contractors in their roles and responsibilities under the AHMP Review of the plan. 	<p>ENVIRONMENTAL ASSESSMENT s.8.8</p> <p>An Aboriginal Heritage Management Plan ('AHMP') will be formulated in consultation with the relevant Aboriginal stakeholders (Mindaribba LALC, Lower Hunter Wonnarua Council and Awabakal Traditional Owners Aboriginal Corporation) prior to any Project impacts occurring, to specify the policies and actions required to mitigate and manage the potential impacts of the proposal on Aboriginal heritage. The plan will include procedures for ongoing Aboriginal consultation, mitigation measures for the identified and potential Aboriginal evidence, and management procedures for any previously unrecorded evidence or skeletal remains.</p>	<p>Refer to Project Approval 07_0087 Schedule 3 condition 31.</p> <p>The Aboriginal Heritage Management Plan was prepared by South East Archaeology Ltd for Bloomfield Colliery and reviewed and endorsed by the Mindaribba Local Aboriginal Land Council (LALC). The section on Aboriginal Community (page 7) provides for ongoing consultation and involvement of Aboriginal communities in the conservation and management of Aboriginal heritage on site; and Onsite Aboriginal Heritage (pages 7 to12) provides guidance in relation to the measures that would be implemented to protect Aboriginal sites on site, or if any new Aboriginal objects or skeletal remains are discovered during the project activities. The Aboriginal Cultural Heritage Management Plan was submitted to and endorsed by DECCW, and approved by the Director-General of DoP on 27 May 2010.</p>	Compliant
10.2	The AHMP will include a program of salvage to be undertaken in the Project Area with representatives of Mindaribba LALC collecting identified stone artefacts from sites B2, B16, B18, B19, B20 and B22 prior to any development impacts occurring.	<p>ENVIRONMENTAL ASSESSMENT s.8.8</p> <p>The AHMP will include procedures for ongoing Aboriginal consultation, mitigation measures for the identified and potential Aboriginal evidence, and management procedures for any previously unrecorded evidence or skeletal remains.</p>	<p>Refer to Project Approval 07_0087 Schedule 3 condition 31.</p> <p>Aboriginal sites identified in the EA during the Project Approval process were salvaged in accordance with the ACHMP. Representatives from Mindaribba LALC participated and monitored the process ahead of preparation for mining activities. In all, 34 artefacts were salvaged and are being stored with the Mindaribba LALC.</p>	Compliant
10.3	Should any skeletal remains be detected during the Project, work in that location will cease immediately and the finds will be reported to the appropriate authorities, including the Police, OEH and Mindaribba LALC.		<p>Refer to Project Approval 07_0087 Schedule 3 condition 31.</p> <p>The Aboriginal Cultural Heritage Management Plan page 10 describes the process to be followed in the event of and human skeletal remains are encountered. No human skeletal remains have been found during the 2013 to 2015 period.</p>	Not activated


SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
10.4	In the event that Aboriginal objects are located during the Project, a protocol to ascertain the value of such finds, in consultation with the Aboriginal community representatives and a qualified archaeologist will be implemented and used to inform any management decision. OEH will be informed of any finds using the appropriate site recording cards.		<i>Refer to Project Approval 07_0087 Schedule 3 condition 31.</i> The Aboriginal Cultural Heritage Management Plan page 8 describes the process to be followed in the event of new Aboriginal heritage items being discovered. OEH would be notified within 15 working days via lodgement of a site record for any new Aboriginal heritage evidence that is identified within the project area or for any changes to existing recorded sites (for example, after salvage collection). An updated site record will be lodged with OEH for any sites subject to salvage. The results of any salvage actions will be documented and reported to OEH and the Mindaribba LALC.	Compliant Ongoing
10.5	Further consultation with and continued involvement of Mindaribba LALC will be continued throughout the Project, in relation to the contents and recommendations of Aboriginal Heritage studies.	ENVIRONMENTAL ASSESSMENT s.8.8 Bloomfield will continue to consult with and involve the registered Aboriginal stakeholders, particularly the LALC's, in the ongoing management of the heritage resources within the Project Area as per the AHMP.	<i>Refer to Project Approval 07_0087 Schedule 3 condition 31.</i> Bloomfield manages ongoing consultation with the Mindaribba LALC in accordance with OEH requirements and with advice from a heritage expert.	Compliant Ongoing
11	Noise Management and Monitoring			
11.1	A Noise Management Plan will be prepared and implemented for the Project. The Plan will include mitigation and monitoring requirements for the Project.	ENVIRONMENTAL ASSESSMENT s.9.2 Selecting an appropriate noise management strategy for the Project involved the following steps: <ul style="list-style-type: none"> Determining the noise reduction required to achieve Project-specific noise levels; Identifying the specific characteristics of the industry and the site that would indicate a preference for specified measures; Examining the mitigation strategies chosen by similar industries on similar sites with similar requirements for noise reduction; and considering that strategy's appropriateness for the subject development; Considering the range of noise-control measures available; and Considering community preferences for particular strategies. 	<i>Refer to Project Approval 07_0087 Schedule 3 condition 4.</i> A Noise Monitoring Program for the project was prepared in consultation with OEH submitted Director-General approval. The Noise Monitoring Program includes a combination of unattended and attended monitoring and a noise monitoring protocol for evaluating compliance with the noise impact assessment criteria in this approval.	Compliant
11.2	The following noise controls will be implemented to achieve noise criteria identified in this EA: During Year 1 (End of Stage 1): <ul style="list-style-type: none"> The excavator and dump site will be situated in a shielded location during night-time operation; No dozer operation at the drill location will occur during night and morning shoulder periods; and The front end loader will replace the dozer at the dump site during the night-time period unless 4 dBA of noise suppression is achieved. 	ENVIRONMENTAL ASSESSMENT s.9.5 The following noise controls will be implemented to achieve noise criteria identified in this EA: During Year 1 (End of Stage 1) - completed During Year 5 (End of Stage 2): <ul style="list-style-type: none"> The excavator and dump site will be situated in a shielded location during night-time operation; No dozer operation at the drill location will occur during night and morning shoulder periods; and The front end loader will replace the dozer at the dump site during the night-time period unless 4 dBA of noise suppression is achieved. 	Stage 1 controls were implemented for the Bloomfield mining operations with night time operations only conducted within the active pits or on the lower overburden emplacement locations to shield off-site receivers from noise impacts between 2013 and 2015. Stage 2 (i.e. Year 5 to 10) to Stage 4 (i.e. Year 10) of the project operations have the same noise mitigation measures implemented to maintain the protection of off-site receivers from any night time activities.	Compliant Ongoing

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
	<p>During Year 5 (End of Stage 2):</p> <ul style="list-style-type: none"> The excavator and dump site will be situated in a shielded location during night-time operation; No dozer operation at the drill location will occur during night and morning shoulder periods; and The front end loader will replace the dozer at the dump site during the night-time period unless 4 dBA of noise suppression is achieved. <p>During Year 10 (End of Stage 4):</p> <ul style="list-style-type: none"> The excavator and dump site will be situated in a shielded location during night-time operation; and No dozer operation at the drill location will occur during the night period. 	<p>During Year 10 (End of Stage 4):</p> <ul style="list-style-type: none"> The excavator and dump site will be situated in a shielded location during night-time operation; and No dozer operation at the drill location will occur during the night period. 		
11.3	Noise complaints received will be dealt with in accordance with Bloomfield's existing complaints protocol.	<p>Environmental Management Strategy page 10</p> <p>All complaints that are raised by the community and/or government agencies are recorded.</p>	<p><i>Refer to EPL 396 condition M4.3.</i></p> <p>All noise complaints recorded have been dealt with under the Bloomfield Group Complaints Procedures and in accordance with the EPL condition M4.</p>	Compliance Ongoing
12	Blasting			
12.1	Bloomfield will continue to consult with nearby residents regarding their blasting program, consistent with current practice and the Shot Firing and Explosives Management Plan	<p>ENVIRONMENTAL ASSESSMENT s.2.8</p> <p>Bloomfield Environmental Policy</p> <ul style="list-style-type: none"> Consult with the community and relevant government bodies with regard to environmental performance, obligations and issues, as appropriate to their interests." 	<p><i>Refer to Project Approval 07_0087 Schedule 3 condition 11.</i></p> <p>Bloomfield Collieries sent a letter to all property owners within 2 kms of the mining areas on 10 November 2009 for the residents to register for blast notification.</p> <p>A blast hotline was established by Bloomfield (4930 2680) and advertised in the local newspaper (The Advertiser) four (4) times /year. Blasting information is also included on the Bloomfield Collieries website.</p>	Compliant Ongoing
12.2	Blasting will only be undertaken during the hours of 9.00 am to 5.00 pm Monday to Saturday. Blasting will not occur on Sundays or Public Holidays	<p>ENVIRONMENTAL ASSESSMENT s.9.8</p> <p>Times and Frequency of Blasting</p> <p>Blasting should only generally be permitted during the hours of 9.00 am to 5.00 pm Monday to Saturday. Blasting should not take place on Sundays or Public Holidays.</p> <p>Blasting should generally take place no more than once per day.</p>	<p><i>Refer to Project Approval 07_0087 Schedule 3 condition 7.</i></p> <p>Blasting on the Bloomfield site has only occurred between 9 am and 5 pm Monday to Saturday, with no blasting allowed on Sundays and Public Holidays (Blast Monitoring Program page 5).</p>	Compliant Ongoing
12.3	Blasts will be designed in consideration of vibration and airblast limits, wind speed and direction.	<p>ENVIRONMENTAL ASSESSMENT s.9.8</p> <p>In order to predict the levels of blast emissions (ground vibration and airblast) at the surrounding receivers from the Project, the measured ground vibration and airblast levels from blasting</p>	<p><i>Refer to Project Approval 07_0087 Schedule 3 conditions 5 and 6; EPL conditions L4.2 and L4.3; and CCL condition 10.</i></p> <p>All blasts are designed in accordance with the requirements in the Explosives Management Plan and Blast Monitoring Program. Blast</p>	Compliant Ongoing

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
		operations are used to develop blast emissions site laws, assuming current blasting practice.	design is planned to manage the vibration and airblast impact to within regulatory criteria.	
12.4	Blast monitoring will be conducted over the life of the mine in accordance with requirements provided by the Shot Firing and Explosives Management Plan.	Explosives Management Plan, 20 Nov 2012 Blast Monitoring Program 31 May 2012.	Refer to EPL condition M7.1 Blast management is addressed in the Explosives Management Plan including Blast Fume Management Strategy. Blast monitoring is conducted for each blast as described in the Blast Monitoring Program.	Compliant Ongoing
12.5	All relevant personnel will be trained in Bloomfield's environmental obligations in relation to blasting controls.	ENVIRONMENTAL ASSESSMENT s.2.8 Blasting will only be conducted in accordance with requirements provided in the Shot Firing and Explosives Management Plan	Refer to Project Approval 07_0087 Schedule 3 conditions 9 and 10 Bloomfield Collieries have a Pre-Blast Checklist that must be completed by the Shot-firer prior to every blast. The checklist addresses shot tie-up design, weather conditions, fume and blast monitoring, and is followed up with a post-blast checklist. This procedure is consistent with best practice for blasting outlined in the Guidelines for Use of Explosives in Open Cut Mines (MDG1025). The Bloomfield Colliery Induction Training – Environmental Obligations includes blasting controls.	Compliant Ongoing
13	Air quality			
13.1	An Air Quality Monitoring Program will be prepared and implemented for the Project. The Air Quality Monitoring Program will include monitoring at locations as described in the EA.	ENVIRONMENTAL ASSESSMENT s.2.12 Due to the proximity of other mining operations, relevant impact assessment studies (i.e. air quality and noise) have considered cumulative impact. An Integrated Environmental Monitoring Program ('IEMP') developed as part of the Abel Project Approval was approved by DoP and is currently implemented as described.	Refer to Project Approval 07_0087 Schedule 3 condition 16. The Air Quality Monitoring Program was prepared in consultation with OEH and submitted to the DoP on 24 February 2010. DoP provided comments on 24 April 2010. A revised Final Air Quality Monitoring Program incorporating the DoP comments was completed on 9 August 2011. The Air Quality Monitoring Program was further revised on 31 May 2012.	Compliant
13.2	Dust generation on the Project Area will be minimised by implementation of the following: <ul style="list-style-type: none"> All vehicles will be operated according to Mine Transport Management Plan, which requires vehicles to remain on specified routes; Disturbed areas will be minimised where possible; Dust suppression water spraying will be used on all active haul roads and stockpile areas where required; All mobile equipment will be maintained in good working order; Adequate stemming will be used in blast holes; and Meteorological conditions will be considered in the timing of blasts to minimise impacts of blast generated dust 	ENVIRONMENTAL ASSESSMENT s.2.8 The Bloomfield Environmental Management Strategy was developed to manage the impacts and operation of activities on the site including the Air Quality Monitoring Program to minimise the operations impact on the environment. The Environmental Management Strategy includes the Environmental Policy as well as relevant environmental systems and procedures to guide current operations.	Refer to Project Approval 07_0087 Schedule 3 condition 16 and Air Quality Monitoring Program (page 5): Dust minimisation management measures to be utilised at Bloomfield Colliery include: <ul style="list-style-type: none"> The use of predictive meteorological modelling software program which incorporates regional weather station data and forecasts to predict daily weather events that may exacerbate dust impacts from planned operations; Utilisation of real-time on site weather station data to assist in planning decisions; Limiting speed limits of all vehicles on internal roads; Minimising drop heights from equipment for loading and dumping operations; Minimising overburden haul road haulage distances; Utilising water carts to minimise dust impacts on all active areas where equipment is in operation; Rehabilitating disturbed areas as soon as practical following completion of mining operations; and Utilising in pit dumps during periods of high winds. 	Compliant Ongoing

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
14	Greenhouse Gas Monitoring / Energy Efficiency			
14.1	Bloomfield will assess the viability of improving energy efficiency and reducing greenhouse gas emissions from its operations, including the mining fleet, stationary equipment and mining processes.	ENVIRONMENTAL ASSESSMENT s.10.9 Bloomfield is currently registered as a participant in the Federal Government Energy Efficiency Opportunities ('EEO') and Greenhouse Challenge Plus programs. An Assessment and Reporting Schedule has been prepared under the EEO program and an Energy Assessment of open cut operations will be undertaken in accordance with the commitments made in that schedule. The EEO Energy Assessment will document current and proposed initiatives for the efficient supply and management of energy usage, as well as procedures for the reporting and management of greenhouse gases resulting from Scope 1 and 2 emissions.	<i>Refer to Project Approval 07_0087 Schedule 3 condition 33.</i> Bloomfield Colliery have prepared an Energy Saving Action Plan that was submitted to the DoP on 31 March 2010, within 6 months of the date of this Project Approval.	Compliant
14.2	Bloomfield will monitor greenhouse gas emissions in accordance with the requirements of the current EEO and Greenhouse Challenge Plus programs and comply with any reporting requirements under the NGER Act 2007.		The Bloomfield Group submits an annual greenhouse gas emissions report in accordance with the <i>National Greenhouse Emissions Reporting Act 2007</i> .	Compliant Ongoing
15	Surface Water Management			
15.1	Surface water management for the Project will be undertaken in accordance with Bloomfield's existing Environmental Water Management System ('EWMS'). The EWMS will be modified to address the additional requirements for this Project provided in the Draft Water Management Plan (Appendix H).	ENVIRONMENTAL ASSESSMENT s.2.8 and s.11.5 The water management systems that support the existing and proposed mining at Bloomfield are part of the Integrated Water Management System (IWMS) provided for the Bloomfield, Abel and Donaldson mines as part of the Abel Project Approval. The draft Surface Water Management Plan is consistent with the IWMS. New pits and sediment dams proposed as part of the Project will be operated in the same way as the S Cut pit is currently operated and will not require any new facilities other than a small sediment dam constructed near the western boundary of the Project Area for Stage 3.	<i>Refer to Project Approval 07_0087 Schedule 3 condition 19.</i> The Water Management Plan was prepared in consultation with OEH (EPA) and NOW and submitted to the DoP by 5 April 2010 (submission date extension approved by DoP). The Water Management Plan was prepared by experts approved by the Director-General DoP (Steve Perrens of Evans and Peck and Andy Fulton of Aquaterra);	Compliant
15.2	An Erosion and Sediment Control Plan will be prepared that will form part of the EWMS.	ENVIRONMENTAL ASSESSMENT s.2.8, s.11.3 and s.11.5 An Erosion and Sediment Control Plan ('ESCP') will be implemented to ensure that no undue pollution of receiving waters occurs during the Project. The ESCP will be prepared in accordance with guidelines in <i>Managing Urban Stormwater: Soils and Construction</i> (Landcom 2004) and <i>Managing Urban Stormwater Soils and Construction - Volume 2E: Mines and Quarries</i> (DECC 2008).	<i>Refer to Project Approval 07_0087 Schedule 3 condition 21.</i> An Erosion and Sediment Control Plan was prepared by GSS Environmental in March 2010 as part of the Bloomfield Water Management Plan. The Erosion and Sediment Control Plan and Mining Operations Plan for the Bloomfield Colliery address the components of the guidelines for <i>Managing Urban Stormwater: Soils and Construction</i> (Landcom 2004) and <i>Managing Urban Stormwater Soils and Construction - Volume 2E: Mines and Quarries</i> .	Compliant
16	Surface Water Monitoring Program			
16.1	Bloomfield's existing EWMS incorporates a Surface Water Monitoring Program which will be implemented for this Project and updated to include the additional monitoring point proposed for this Project in consultation with NOW.	ENVIRONMENTAL ASSESSMENT s.11.5.2 The surface water monitoring program as per the Abel Project Approval includes the following sites relevant to the Project: <ul style="list-style-type: none"> • Four Mile Creek at John Renshaw Drive; • Four Mile Creek upstream of the Bloomfield lease area ('CCL761'); • Four Mile Creek at the New England Highway; and • Buttai Creek at Lings Road. 	<i>Refer to Project Approval 07_0087 Schedule 3 condition 22.</i> The Surface Water Monitoring Program 31 March 2010 was prepared by Evans and Peck as part of the Bloomfield Water Management Plan. <ul style="list-style-type: none"> • The Surface Water Monitoring Program prepared for the Bloomfield Colliery site includes monitoring sites on Elwells Creek at Haul Road and Buttai Creek at Buchanan Road and the Integrated Environmental Monitoring Program includes 	Compliant

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		<p>It is proposed to add a monitoring site on Buttai Creek immediately upstream of Buchanan Road</p> <p>Abel Project Approval Schedule 3 condition 2 ENVIRONMENTAL MONITORING PROGRAM</p> <p>2. The Proponent shall prepare and implement an Environmental Monitoring Program for the project to the satisfaction of the Director-General. This program must be submitted to the Director-General within 6 months of this approval, consolidate the various monitoring requirements in schedule 4 of this approval into a single document, and be integrated as far as is practicable with the monitoring programs of the adjoining Bloomfield, Donaldson and Tasman mines.</p>	<p>additional monitoring sites on Four Mile Creek at John Renshaw Drive; Four Mile Creek upstream of the Bloomfield lease area (CCL761); Four Mile Creek at the New England Highway; and Buttai Creek at Lings Road and immediately upstream of Buchanan Road.</p>	
16.2	A response/mitigation procedure will be developed as part of the EWMS for unforeseen surface or groundwater impacts being detected during the Project.	<p>ENVIRONMENTAL ASSESSMENT s.11.6.3</p> <p>....response plan will be implemented in the event of significant unforeseen surface water impacts or variances from the predicted inflow rates and/or groundwater level impacts.</p>	<p><i>Refer to Project Approval 07_0087 Schedule 3 condition 24.</i></p> <p>The Surface and Groundwater Response Plan was prepared by Evans and Peck with the Bloomfield Water Management Plan.</p>	Compliant
17	Groundwater Monitoring			
17.1	Bloomfield's existing EWMS will incorporate a Groundwater Monitoring Program, developed in consultation with NOW.	<p>ENVIRONMENTAL ASSESSMENT s.12.4</p> <p>The monitoring program currently operating at the Bloomfield mine will be integrated with the surface water monitoring program. As required, monitoring bores will be licenced under the Water Act 1912/ Water Management Act 2000.</p>	<p><i>Refer to Project Approval 07_0087 Schedule 3 condition 23.</i></p> <p>The Groundwater Management Plan as prepared by Aquaterra for the Bloomfield Colliery as part of the Water Management Plan, and includes a Groundwater Monitoring Program (section 2).</p>	Compliant
18	Visual Amenity			
18.2	<p>Visual impacts of the Bloomfield Mine will be mitigated by the following strategies:</p> <ul style="list-style-type: none"> Rehabilitation of the southern boundary of the Project Area adjacent to John Renshaw Drive will be given priority during the early stages of mining; Mobile directional lighting in active mine areas will be directed away from neighbouring properties and roadways; and Complaints regarding lighting will be investigated by Bloomfield during the relevant shift. 	<p>ENVIRONMENTAL ASSESSMENT s.14.6.1</p> <p>Ongoing rehabilitation by Bloomfield Colliery will improve the visual quality for residences with a view of the current mining operations, especially to the south of the Project Area. Residents who currently view current mining areas within the Project Area will see an improvement in visual quality as rehabilitation progress. This would reduce any potential visual impact, especially for residents in the Buttai Valley and users of John Renshaw Drive.</p> <p>ENVIRONMENTAL ASSESSMENT s.14.6.2</p> <p>Where possible, lights should be utilised at the lowest effective level and directed away from Incoming views, in particular, Buttai Valley, John Renshaw Drive and Ashtonfield. All lighting should be directed to the ground and to within the work area and avoid being cast skyward or over long distances. Procedures are in place to ensure lighting does not shine directly toward</p>	<ul style="list-style-type: none"> The portions of the southern boundary of the project area adjacent to John Renshaw Drive that include the high wall of S cut open pit have been managed to reduce the visual impact of the Bloomfield Colliery works from John Renshaw Drive and nearby residences, with natural vegetation retained where practicable and disturbed areas rehabilitated.  <p>John Renshaw Drive from overburden emplacement above S cut high wall.</p>	Compliant

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
		residences in any direction, particularly to the south. Staff and management should continue to be trained in	<ul style="list-style-type: none"> Mobile lighting towers used in active mine areas are located to direct light away from off-site receivers. No complaints in relation to light scatter or impact have been received by Bloomfield Colliery between 2009 and 2012. 	
18.2	Tree areas will be incorporated into rehabilitation to assist the visual blending of overburden dumps with the surrounding landscape	<p>ENVIRONMENTAL ASSESSMENT s.3.4.3</p> <p>Rehabilitated areas are generally sown with pasture species to create a stable landscape potentially suitable for light grazing. Areas of tree planting are also incorporated into the rehabilitation scheme and are situated to assist with habitat enhancement and to visually blend former overburden dump areas with the surrounding landscape.</p>	 <p>Rehabilitated overburden emplacement with mature tree stock vegetation established (approx. 10 years)</p>	Compliant Ongoing
19	Staff Training			
19.1	Bloomfield will ensure that all personnel receive training in their responsibilities to mitigate, manage and monitor potential environmental impacts.	<p>ENVIRONMENTAL ASSESSMENT s.2.8, s.2.11 and s.3.2</p> <p>Existing systems and procedures that have been developed to manage the impacts and operation of activities on the site. The Bloomfield Induction Training and Environmental Policy includes the statements:</p> <ul style="list-style-type: none"> Conducting our operations in compliance with all relevant environmental legislation, regulations and licences; Consulting with managers and employees about our aim and about their individual responsibilities; Informing our contractors, customers and suppliers of our aim and of their environmental responsibilities in relation to our business; 	Bloomfield Colliery Induction Training includes environmental obligations related to Bloomfield operations for compliance with all relevant environmental legislation, regulations and licences.	Compliant
20	Integration with Other Mining Operations – Roles and Responsibilities			
20.1	Bloomfield will implement and participate in the actions required for the Integrated Environmental Monitoring Program ('IEMP') that forms part of the Abel Project Approval and which includes elements of the Bloomfield Project.	<p>ENVIRONMENTAL ASSESSMENT s.2.8, s.2.12 and s.15.2</p> <p>The Bloomfield Mining Operations Environmental Management System ('EMS') has been developed generally in accordance with ISO 14001 principles. This EMS, systems and procedures will continue to be applied to Project operations, until the completion of mining.</p>	Bloomfield Colliery has implemented environmental monitoring consistent with the Integrated Environmental Monitoring Program (December 2007), with additional monitoring locations included in the Air Quality/Water/Blast/Noise Monitoring Programs for the Bloomfield activities to supplement the integrated program.	Compliant
20.2	Bloomfield is responsible for the operation, maintenance and monitoring of all water	<p>ENVIRONMENTAL ASSESSMENT s.15.3.2</p> <p>Letter to DoP (11/5/09)</p>	Refer to Project Approval 07_0087 Schedule 3 condition 20:	Compliant Ongoing

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	management systems and structures within its Project Area.the water management system that supports the existing and proposed mining at Bloomfield forms part of the Integrated Water Management System (IWMS) provided for the Bloomfield, Abel and Donaldson mines. This IWMS was approved under the Abel Project. The IWMS involves the management of all surface runoff and groundwater sources associated with the Abel, Bloomfield and Donaldson mines, ensuring continuous supply to the Bloomfield washery whilst minimising discharge to Four Mile Creek from the operating areas.	The Bloomfield components of the Integrated Water Management System are: <ul style="list-style-type: none"> • Lake Kennerson – clean water collection basin with EPL approved discharge Point 1 to Four Mile Creek. • Lake Forster – disturbed area water collection basin, with water reused through the CHPP and for dust suppression on site. • Tailing storage facility water reuse system – water pumped to Lake Forster for reuse in the CHPP 																																																								
20.3	Rehabilitation of the final void forms part of the Abel Project Approval. However, rehabilitation of the tailings filled void at the completion of the Abel Project will remain the responsibility of Bloomfield as outlined in the Draft Bloomfield Closure and Rehabilitation Strategy (Abel)	<p>Letter to DoP, 11/5/09</p> <p>Abel Underground Mine Part 3A Environmental Assessment, Vol.1 section 2.13.2 - Decommissioning and Rehabilitation after Completion of Mining:</p> <p><i>“Rehabilitation will be undertaken in accordance with DPI guidelines which require the Bloomfield Mine Operations Plan, required as a condition of the Bloomfield mining lease, to provide details on proposed outcomes to be achieved through rehabilitation and final landform.”</i></p>	<p>The rehabilitation of the final void is outlined in the draft Closure and Rehabilitation Strategy (Abel) and the relevant actions/commitments have been picked up in the 2012-2016 Mining Operations Plan for the Bloomfield Colliery Table 11 item 7 Open cut Final Void:</p> <table border="1"> <thead> <tr> <th>Rehab. Phase</th> <th>Indicator</th> <th>Completion Criteria</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="3">Landform establishment</td> <td>Capping of tailings</td> <td>2 metres</td> <td></td> </tr> <tr> <td>Slope gradients</td> <td><18 degrees</td> <td></td> </tr> <tr> <td>Drainage</td> <td>Completed</td> <td></td> </tr> <tr> <td rowspan="4">Growth medium development</td> <td>Suitable topsoil</td> <td>Completed</td> <td></td> </tr> <tr> <td>Biosolids application</td> <td>100t/ha</td> <td></td> </tr> <tr> <td>Gypsum application</td> <td>To be determined</td> <td></td> </tr> <tr> <td>Soil surface prepared</td> <td>Completed</td> <td></td> </tr> <tr> <td rowspan="8">Ecosystem development</td> <td>Appropriate pasture grass seed selected</td> <td>Completed</td> <td></td> </tr> <tr> <td>Seeding rate</td> <td>50kg/ha</td> <td></td> </tr> <tr> <td>Stable water management structures</td> <td></td> <td></td> </tr> <tr> <td>Ground cover</td> <td>>70%</td> <td></td> </tr> <tr> <td>Presence of rill erosion</td> <td>Rills remain stable</td> <td></td> </tr> <tr> <td>Presence of noxious weeds</td> <td>No significant infestation</td> <td></td> </tr> <tr> <td>Soil pH</td> <td>pH 4.5 - 9</td> <td></td> </tr> <tr> <td>Soil EC</td> <td>EC <0.6dS/m</td> <td></td> </tr> <tr> <td>Soil EAT Class</td> <td>C - 8</td> <td></td> </tr> </tbody> </table>	Rehab. Phase	Indicator	Completion Criteria		Landform establishment	Capping of tailings	2 metres		Slope gradients	<18 degrees		Drainage	Completed		Growth medium development	Suitable topsoil	Completed		Biosolids application	100t/ha		Gypsum application	To be determined		Soil surface prepared	Completed		Ecosystem development	Appropriate pasture grass seed selected	Completed		Seeding rate	50kg/ha		Stable water management structures			Ground cover	>70%		Presence of rill erosion	Rills remain stable		Presence of noxious weeds	No significant infestation		Soil pH	pH 4.5 - 9		Soil EC	EC <0.6dS/m		Soil EAT Class	C - 8		Not yet activated
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21	Community Enhancement Fund																																																										
21.2	Bloomfield will establish a Community Enhancement Fund (CEF) that will provide a range of practical commitments to local community projects and contributions to the local community.	<p>Response to Submissions 29 Jan 2009</p> <p>Email to DoP 7 May 2009</p> <p>Project Approval Schedule 2 condition 14.</p> <p><i>The Proponent shall establish a Community Enhancement Fund ... and implement expenditure from that fund to the satisfaction of</i></p>	<p>Refer to Project Approval 07_0087 Schedule 2 condition 14.</p> <p>Bloomfield Group developed infrastructure projects in consultation with the Cessnock City Council and Community Consultative Committee. The proposal was submitted to the DoP and approved on 15 February 2011.</p>	Compliant																																																							

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21.2	<p>The CEF will comprise two components:</p> <ul style="list-style-type: none"> • Within two years of the Bloomfield Mine being approved, \$180,000 will be provided by Bloomfield for a local infrastructure project within Cessnock Local Government Area, to be determined in consultation with Cessnock City Council. • Over a period of ten years from the date of the Bloomfield Mine being approved, \$320,000 will be provided by Bloomfield for a community welfare based charity/s focussed within the Cessnock LGA, to be determined in consultation with Cessnock City Council. 	<p><i>the Director-General. Proposals for expenditure from the fund must:</i></p> <p>a) <i>be prepared by the Proponent in consultation with Council and the CCC and be submitted to the Director-General for approval by 31 December 2009;</i></p> <p>b) <i>.....</i></p> <p>c) <i>a minimum of \$180,000 on local infrastructure projects within Cessnock LGA, to be commenced no later than 30 September 2011;...</i></p> <p>Project Approval Schedule 3 condition 30.</p> <p><i>Within 6 months of the date of this approval, and again prior to 30 September 2011, the Proponent shall provide contributions of \$20,000 to conservation projects within the Cessnock LGA, in consultation with OEH and to the satisfaction of the Director-General.</i></p>	<p>Funding of \$152,900 for infrastructure projects was provided to the Cessnock City Council on 5 Apr 2011.</p> <p>DoP also approved Bloomfield Community Enhancement Funding to support the Cessnock / Kurri Kurri Outreach Program by providing \$32,000/yr to Father Chris Riley's Youth Off the Streets. Contributions of \$20,000 for the Stanford Merthyr Crown Reserve were made by Bloomfield in accordance with Project Approval Schedule 3 condition 30 approved by the Director-General on 22 April 2010.</p> <p>The Bloomfield Group has an ongoing commitment to support local community projects and activities, community groups, schools, charities and community events.</p> <p>Bloomfield is also a participant in Cessnock City Council's Adopt-a-Road program and has entered into a three year agreement with the Council to undertake litter collection campaigns along Buchanan Road, between John Renshaw Drive and Louth Park Road, Buchanan. Bloomfield contracted the Kurri Kurri Community Centre Inc to conduct quarterly litter collection programs.</p>	Compliant Ongoing								
Statement of Commitment for s75W Modification (07-0087 MOD 1)												
1	General											
1.1	<p>Bloomfield Collieries will carry out the proposed development generally in accordance with the Section 75W Environmental Assessment ('EA') and the Part3A Environmental Assessment (07_0087). If there is any inconsistency between the Statement of Commitments (SoC) and the EA, the SoC will prevail to the extent of the Inconsistency.</p>	<p>S75W Modification ENVIRONMENTAL ASSESSMENT s.1.4</p> <p>It is proposed to extend the approved Project Area to allow for some minor physical alterations and rehabilitation works to the mine. The proposed extension of 259 hectares is in addition to the approved 317 hectare Project Area. The additional area is predominantly land that has been mined and heavily disturbed by historic mining activities. No additional winning of coal is proposed in this extension area.</p> <p>The other Modification Activities are:</p> <ul style="list-style-type: none"> • Upgrade and use of Wattle Tree Drive as an alternative haul route (location marked as 'A' on Figure 2). • Additional overburden emplacement and rehabilitation - east of Save a Mile Haul Road (location marked as 'B' on Figure 2); • Additional out-of-pit landform reshaping and rehabilitation – northern and south-eastern areas (locations marked as 'C' and 'E' on Figure 2); and • Construction of a corridor and overhead power-line from an existing power-line onto the open cut mine site, together with some clearing for an associated infrastructure area (location marked as 'D' on Figure 2). 	<p>The Bloomfield Colliery development is being carried out generally in accordance with the documents identified in Project Approval 07_0087 Schedule 2 condition 2:</p> <ul style="list-style-type: none"> • Environmental Assessment(EA) Completion of Mining and Rehabilitation, November 2008 • Mod 1 Environmental Assessment titled Extension of the Project Approval Area for Out-of-Pit Overburden Emplacement and Rehabilitation, Alternative Haul Road and Power-line Relocation, prepared by Business Environment, September 2010; • Biodiversity Offset Strategy (07_0087 MOD 1) – Proposed Offset Strategy, 31 March 2011; and • Bloomfield Coal Project Modification of PA 07-0087 MOD-2, November 2011 	Compliant								
1.2	<p>Bloomfield will undertake mining and rehabilitation activities within the Project Area as defined by the Schedule of Land (Figure 8). The proposed Modification Activities include:</p> <ul style="list-style-type: none"> • Upgrade and use of Wattle Tree Drive as an alternative haul route (Area A); • Additional overburden emplacement and rehabilitation - east of Save a Mile Haul Road (Area B); 		<p>Bloomfield undertake the mining and rehabilitation activities within the Project Area as defined by the Schedule of Land:</p> <table border="1"> <thead> <tr> <th colspan="2">Lot & DP Number</th> </tr> </thead> <tbody> <tr> <td>Lot 36 DP 755260</td> <td>Lot 1 DP 722210</td> </tr> <tr> <td>Lot 35 DP 755260</td> <td>Lot 26 DP 755260</td> </tr> <tr> <td>Lot 34 DP 755260</td> <td>Lot 25 DP 755260</td> </tr> </tbody> </table>	Lot & DP Number		Lot 36 DP 755260	Lot 1 DP 722210	Lot 35 DP 755260	Lot 26 DP 755260	Lot 34 DP 755260	Lot 25 DP 755260	Compliant Ongoing
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Lot 6 DP 241097 (Pipeline)	Various Council Road Reserves																																																	
2	Hours of Operation																																																	
2.1	Bloomfield Mine will operate 24 hours per day seven days per week except for the proposed Modification Activities. No Modification Activities will occur during the night-time period (10.00pm-6.00am). To manage noise from the various Modification Activities the following hours of operation will be followed:	S75W Modification ENVIRONMENTAL ASSESSMENT s.6.6 In order to meet the noise criteria provided in the Bloomfield Approval and the project specific noise levels (PSNLs) developed for the Bloomfield EA, no Modification Activities will occur during the night-time period (10.00pm-6.00am). Therefore sleep disturbance noise goals are not applicable. Construction hours	Refer to Project Approval 07_0087 Statement of Commitment 2.1 The construction associated with the Modification activities have not occurred during the night-time period (10.00pm-6.00am). To manage noise from the various Modification Activities the hours of operation in SoC and Project Approval 07_0087 have been followed.	Compliant																																														

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
	<p>Wattle Tree Drive construction (Area A) and Power line Corridor (Area D)</p> <p>a. Construction hours (for the power line corridor and construction of Wattle Tree Drive) will be between 7.00am and 6.00pm Monday to Friday and 8.00am to 1.00pm Saturdays.</p> <p>b. A bund will be constructed adjacent to Wattle Tree Drive and trees will be planted to screen this area, to minimise impacts and stray light scatter.</p> <p>East of Save-a-Mile haul road (Area B)</p> <p>c. Day time operations (7.00am to 6.00pm Mondays to Saturdays, 8.00am to 6.00pm Sundays) will be in the southern part of the dump to raise the dump and provide screening for evening (6.00pm-10.00pm) and morning shoulder (6.00am-7.00am) operations.</p> <p>d. The height of the overburden emplacement area will be limited to an RL of 100 metres</p> <p>e. During evening and morning shoulder periods, the following controls will be in place:</p> <p>i. the drill and clearing dozer will be worked in a shielded location; dumping will only occur in the northern part of the dump;</p> <p>ii. the dozer will only operate in a shielded location in the northern part of the dump;</p> <p>iii. an earthen bund will be constructed in the approved dumping area to the south of the existing haul road to a minimum height of 80 metres RL; and</p> <p>iv. There will be no coal haulage from S-Cut during the morning shoulder period.</p> <p>Northern area (Area C)</p> <p>f. Dumping and rehabilitation during the daytime period only.</p> <p>South-eastern area (Area E)</p> <p>g. Dumping and rehabilitation during the daytime period only (7.00am to 6.00pm Mondays to Saturdays, 8.00am to 6.00pm Sundays)</p>	<p>(for the power-line corridor and construction of Wattle Tree Drive) will between the hours of 7.00am and 6.00pm Monday to Friday and 8.00am to 1.00pm Saturdays.</p>		

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
	<p>h. Dumping will be restricted to a maximum of 70 hours of work; and</p> <p>i. A front end loader will replace the dozer at the Area E dump once the emplacement reaches an RL of 52 metres.</p>			
3	Ecology			
3.1	A pre-clearing protocol to protect any threatened species using trees within the power line clearing area will be implemented during construction of the corridor.	S75W Modification ENVIRONMENTAL ASSESSMENT s.6.3 In the area to be cleared, 31 trees having potential fauna habitat hollows were found. One tree of particular note in the vicinity was a tall Spotted Gum (<i>Corymbia maculata</i>) which contained a large raptor nest. This tree is located just outside of the proposed clearing area and care will be taken during clearing not to disturb this tree.	Vegetation clearance and implementation of the pre-clearance protocol has occurred for the Bloomfield Colliery development between 2012 and 2015.	Compliant
3.2	The identified nesting tree adjacent to the power-line clearing area will be protected during construction of the power-line and associated infrastructure to prevent accidental damage by machinery.	Land Disturbance Management Procedure, 4 Oct 2007, Attachment Bloomfield Group Permit to Disturb	The nesting tree adjacent to the power-line clearing area was not disturbed as the proposed power-line and associated infrastructure relocation did not proceed.	Compliant
3.3	Bloomfield will commit to providing a biological offset to compensate for the loss of native vegetation. The offset will be agreed with and designed to satisfy the requirements of the Department of Planning and generally be consistent with OEH's "Principles for the use of biodiversity offsets in NSW".	Project Approval 07_0087 Schedule 3 condition 29A By 31 December 2011, the Proponent shall make suitable arrangements to provide appropriate long-term security for the Biodiversity Offset Area (see Appendix 6) to the satisfaction of the Director-General.	Refer to Project Approval 07_0087 Schedule 3 condition 29A: A Certificate of Title for Lot 2371 DP1170348, LGA Cessnock, Parish of Ellalong, County of Northumberland, was registered on 5 January 2012 to Four Mile Pty Ltd with Second Schedule condition of Restriction of Use of Land. The land defined in the Certificate of Title is consistent with Appendix 6 of the Project Approval.	Compliant
3.4	Bloomfield will commit to providing \$20,000 towards the Stanford Merthyr Conservation Project being managed by the Land and Property Management Group within 6 months of Director General's approval of the modification.	Project Approval 07_0087 Schedule 3 condition 30 Within 6 months of the date of this approval, and again prior to 30 September 2011, the Proponent shall provide contributions of \$20,000 to conservation projects within the Cessnock LGA, in consultation with OEH and to the satisfaction of the Director-General.	Refer to Project Approval 07_0087 Schedule 3 condition 30 Bloomfield received approval from DoP on 22 April 2010 in relation to Project Approval Schedule 3 condition 30 for the provision of funding for conservation projects in the Cessnock local government area. The approved funding was provided to the NSW Land and Property Management Authority for the Stanford Merthyr Crown Reserve Rehabilitation Project. Contributions of \$20,000 for the Stanford Merthyr Crown Reserve were made by Bloomfield in accordance with the DoP approval of the funding proposal.	Compliant
4	Water Management			
4.1	The existing water drainage channel to Lake Kennerson will be re-routed around the disturbance area prior to commencement of works in the south-eastern area.	S75W Modification ENVIRONMENTAL ASSESSMENT s.6.9.1 The proposed south-east landform reshaping area covers part of the area used as a drainage channel from the pits to Lake Kennerson. This channel will be relocated around the area of proposed disturbance to ensure this system continues to operate.	The water drainage channel to Lake Kennerson was re-routed around the mine and waste emplacement disturbance area prior to commencement of works in the south-eastern area	Compliant
4.2	Diversion banks and sediment control measures will be provided at the toe of the proposed batter of the emplacement area adjacent to Save-a-Mile	S75W Modification ENVIRONMENTAL ASSESSMENT s.6.9.2 The proposed northern area to be reshaped is currently draining poorly and the proposed works will improve this situation and	Diversion banks and sediment control measures were constructed at the toe of the batter of the waste emplacement area adjacent to Save-a-Mile haul road to protect downstream areas.	Compliant

November 10, 2015

BLOOMFIELD COLLIERY INDEPENDENT ENVIRONMENTAL AUDIT

SoC No.	Statement of Commitment	Verification Documentation	Comment	Compliance Status
	haul road prior to works commencing to protect downstream areas.	drain the area towards the haul road and the existing drainage system.		

ATTACHMENT C

EPL 396 TABLE BLOOMFIELD COAL PROJECT

Condition No.	EPL Condition		Comments	Compliance Status
1	Administrative Conditions			
A1	What the licence regulates			
A1.1	This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition. Scheduled Activity / Fee Based Activity Scale Mining for coal > 2000000 - 5000000 handled Coal Works > 5000000 - 2000000 T produced	-	The Bloomfield Colliery mining operations have been compliant with the Scheduled Activity maximum scale specified in this condition (i.e. Mining has not exceeded 5,000,000 tonnes of coal handled and the coal works have not exceeded 2,000,000 tonnes produced).	Compliant
A2	Premises or plant to which this licence applies			
A2.1	The licence applies to the following premises: Bloomfield Colliery Four Mile Creek Road Ashtonfield NSW 2323	-	The Bloomfield Colliery operations have only occurred on Consolidated Cola Lease 761, located at Four Mile Creek Road Ashtonfield.	Compliant
A3	Information supplied to the EPA			
A3.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence. In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.	-		Noted
2	Discharges to Air and Water and Application to Land			
P1	Location of monitoring/discharge points and areas			
P1.1	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.	-		Noted

Condition No.	EPL Condition			Comments	Compliance Status	
P1.2	The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area. <i>Water and land</i>			<ul style="list-style-type: none"> Water Management Plan, 18 Sep 2013 Surface Water Monitoring Program, 18 Sep 2013 AEMR section 3.3.3 Environmental Incident 	<p>Monitoring of water quality released from Bloomfield EPA Point 1 and ambient water quality monitoring at EPA Point 2 has been conducted in accordance with the Environment Protection Licence conditions and the Surface Water Monitoring Program.</p> <p>Discharge water quality results generally exhibited compliance with the EPL water quality criteria in EPL 396 condition L2.4 and L3.1 between 2012 and October 2015 except for May 2014 when a leak in the recycle water pipeline from the tailings dam occurred resulting in potential loss of water off site into Four Mile Creek. The incident was reported to the EPA in accordance with EPL 396 conditions.</p>	Compliant
	EPA ID no.	Type of Monitoring Point / Discharge Point	Location Description			Non-compliant (Low risk)
	1	Discharge to waters under wet weather conditions Volume monitoring; Discharge quality monitoring	Lake Forster pipe outlet labelled as Discharge Point W001 on Bloomfield Colliery Water Management Plan dated 31/03/1999.			
2	Ambient water quality monitoring	Four Mile Creek located 500m upstream of the current New England Highway culvert for Four Mile Creek				
3	Limit Conditions					
L1	Pollution of waters					
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .			<ul style="list-style-type: none"> <i>Protection of the Environment Operations Act 1997</i> section 120 	Water quality monitoring of water discharged from the Bloomfield Colliery site has demonstrated compliance with the <i>Protection of the Environment Operations Act 1997</i> section 120.	Compliant
L2	Concentration limits					
L2.1	For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.					Noted
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.					Noted
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.					Noted
L2.4	Water and/or Land Concentration Limits					

Condition No.	EPL Condition				Comments	Compliance Status
	POINT 1			<ul style="list-style-type: none"> Water Discharge Results 2015 Water Discharge Results 2014 Water Discharge Results 2013 2014 AEMR section 3.3 and Appendix B 2013 AEMR section 3.3 and Appendix B 2012 AEMR section 3.3 and Appendix B 	<p>Quality of water releases from Point 1 during 2013 to 2015 have been compliant with the EPL concentration limits in EPL condition L2.4.</p> <p>During 2015 32 discharges occurred from EPA Point 1 between January and October 2015. The maximum discharge volume did not exceed 40ML/day and the TSS, EC and iron results were compliant with the water quality criteria.</p>	Compliant
	Pollutant	Units of Measure	100 %ile conc limit			
	Conductivity	mS/cm	6000			
	Filterable iron	mg/L	1.0			
	pH	pH	6.5-8.5			
	Total suspended solids	mg/L	30			
L3	Volume and mass limits					
	For each discharge point or utilisation area specified below (by a point number), the volume/mass of:			<ul style="list-style-type: none"> Water Discharge Results 2015 Water Discharge Results 2014 Water Discharge Results 2013 	<p>During 2014 there were 19 licensed with a total discharge volume of 990 ML. The water quality was compliant with the EPL concentration limits in EPL condition L2.4.</p> <p>During 2013 there were 21 licensed discharges conducted with a total discharge volume of 1680 ML. The water quality was compliant with the EPL concentration limits in EPL condition L2.4.</p>	Compliant
L3.1	a) liquids discharged to water; or;					
	b) solids or liquids applied to the area; must not exceed the volume/mass limit specified for that discharge point or area.					
	Point	Unit of Measure	Volume/Mass Limit			
	1	Kilolitres/day	40,000			
L3.2	Discharge from Point 1 as referred to in Condition L3.1 is only permitted under the following conditions:			<ul style="list-style-type: none"> Water Discharge Results 2015 Water Discharge Results 2014 Water Discharge Results 2013 2014 AEMR section 3.3 and Appendix B 2013 AEMR section 3.3 and Appendix B 2012 AEMR section 3.3 and Appendix B 	<p>During 2015 32 discharges occurred from EPA Point 1 between January and October 2015. The maximum discharge volume did not exceed 40ML/day and the TSS, EC and iron results were compliant with the water quality criteria.</p> <p>During 2014 there were 19 licensed with a total discharge volume of 990 ML. The water quality was compliant with the EPL concentration limits in EPL condition L2.4.</p> <p>During 2013 there were 21 licensed discharges conducted with a total discharge volume of 1680 ML. The water quality was compliant with the EPL concentration limits in EPL condition L2.4.</p>	Compliant
	- in wet weather conditions following 10mm or greater 24 hours rainfall event in the catchment in the first 24 hour period following the rainfall event; and					
	- in wet weather conditions following a 15mm or greater 24 hours rainfall event in the catchment in the second 24 hour period following the rainfall event; and					
	- in wet weather conditions following a 20mm or greater 24 hours rainfall event in the catchment in the third 24 hour period following the rainfall event.					
L4	Blasting					
L4.1	Blasting in or on the premises must only be carried out between 9:00 hours and 17:00 hours, Monday to Saturday. Blasting in or on the premises must not take place on Sundays or Public Holidays without the prior approval of the EPA.			<ul style="list-style-type: none"> 2014 AEMR section 3.8 and Appendix C 2013 AEMR section 3.8 and Appendix C 2012 AEMR section 3.8 and Appendix C Bloomfield Blast Results 2015 Bloomfield Blast Results 2014 Bloomfield Blast Results 2013 	Blasting on the premises has only occurred between 9:00 hours and 17:00 hours, Monday to Saturday, with no blasting conducted on Sundays or Public Holidays	Compliant

Condition No.	EPL Condition		Comments	Compliance Status																	
L4.2	The airblast overpressure level from blasting operations in or on the premises must not exceed: a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and b) 120 dB (Lin Peak) at any time. At any affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.	<ul style="list-style-type: none"> • 2014 AEMR section 3.8 and Appendix C • 2013 AEMR section 3.8 and Appendix C • 2012 AEMR section 3.8 and Appendix C • RCA Acoustics Blast Result Reports • Bloomfield Blast Results 2015 • Bloomfield Blast Results 2014 • Bloomfield Blast Results 2013 	Monitoring of blast over-pressure occurred at the Elliot, McNaughton, Mt Vincent Road and Richard's residences and for all blasts during 2013 to 2015. (a) All air blast overpressure results were compliant with EPL condition L4.2 (a) – less than 5% of the total blasts were <115dB, at all sites for all blasts monitored. (b) No air blast overpressure exceeded 120dB at any monitoring location between May 2013 and October 2015.	Compliant																	
L4.3	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: a) 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and b) 10 mm/s at any time. At any affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.	<ul style="list-style-type: none"> • 2014 AEMR section 3.8 and Appendix C • 2013 AEMR section 3.8 and Appendix C • 2012 AEMR section 3.8 and Appendix C • RCA Acoustics Blast Result Reports • Bloomfield Blast Results 2015 • Bloomfield Blast Results 2014 • Bloomfield Blast Results 2013 	Monitoring of vibration (mm/s) occurred at Elliot residence, McNaughton residence, Mt Vincent Road residence and Richards residence for all blasts during 2013-2015 period. No vibration results exceeded 5mm/s between 2013 and October 2015. <table border="1"> <thead> <tr> <th rowspan="2">Monitoring Location</th> <th colspan="2">Vibration peak particle velocity (ppv)</th> </tr> <tr> <th>>5mm/s ppv</th> <th>>10mm/s ppv</th> </tr> </thead> <tbody> <tr> <td>Elliot</td> <td>0</td> <td>0</td> </tr> <tr> <td>McNaughton</td> <td>0</td> <td>0</td> </tr> <tr> <td>Mt Vincent Road</td> <td>0</td> <td>0</td> </tr> <tr> <td>Richards</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Monitoring Location	Vibration peak particle velocity (ppv)		>5mm/s ppv	>10mm/s ppv	Elliot	0	0	McNaughton	0	0	Mt Vincent Road	0	0	Richards	0	0	Compliant
Monitoring Location	Vibration peak particle velocity (ppv)																				
	>5mm/s ppv	>10mm/s ppv																			
Elliot	0	0																			
McNaughton	0	0																			
Mt Vincent Road	0	0																			
Richards	0	0																			
4	Operating Conditions																				
O1	Activities must be carried out in a competent manner																				
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.		The storage of materials and substances (e.g. explosives, oils and greases) at the Bloomfield Colliery site only occurs in designated areas and stored in accordance with Australian Standards. Waste oil/lubricants generated by the Bloomfield operations is managed under contract with a licenced contractor.	Compliant																	
O2	Maintenance of equipment																				
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.		All equipment and plant used by Bloomfield is maintained at the Bloomfield workshop (off Four Mile Road) in accordance with manufacturer's specification.	Compliant																	
O3	Dust																				

Condition No.	EPL Condition		Comments	Compliance Status														
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	<ul style="list-style-type: none"> 2014 AEMR section 3.3 and Appendix B 2013 AEMR section 3.3 and Appendix B 2012 AEMR section 3.3 and Appendix B Monthly Air Quality Monitoring Reports, AECOM, 2015 Air Quality Management Operational Procedures, 3 Oct 2012 	The annual average for dust deposition rate monitoring has indicated that the operations/activities of the Bloomfield Colliery have been conducted in a manner that minimises dust generation and complies with the regulatory criteria of <math><4g/m^2/mth.</math>	Compliant														
5	Monitoring and Recording Conditions																	
M1	Monitoring records																	
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.		All monitoring results required by this licence or a load calculation protocol are recorded and retained by Bloomfield in accordance with this condition.	Compliant														
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	<ul style="list-style-type: none"> Monitoring records of Water Quality, Discharge Volumes, Dust Deposition, Blast and Vibration - 2010-2012 	All monitoring records required to be kept by Bloomfield under this licence are in a legible form, are retained for at least 4 years and can be produced to any authorised officer of the EPA who asks to see them.	Compliant														
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	<ul style="list-style-type: none"> Chain-of-Custody Forms (accompanying samples delivered to NATA registered laboratories –VGT, Bloomfield Mine Environment Sheet – Mine Water Discharge, Steel River Testing – dust) Monitoring Reports AECOM, VGT, RCA Acoustics, Steel River Testing) 	Monitoring records and Chain-of-Custody forms for monitoring provide the date the sample was taken, time taken where relevant sampling point number and name of the person responsible for collection of the samples.	Compliant														
M2	Requirement to monitor concentration of pollutants discharged																	
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	<ul style="list-style-type: none"> 2014 AEMR section 3.3 and Appendix B 2013 AEMR section 3.3 and Appendix B 2012 AEMR section 3.3 and Appendix B Discharge Records Point 1 and Point 2 2013 to 2015 		Compliant														
M2.2	Water and/ or Land Monitoring Requirements Point 1	<ul style="list-style-type: none"> 2014 AEMR section 3.3 and Appendix B 2013 AEMR section 3.3 and Appendix B 2012 AEMR section 3.3 and Appendix B Discharge Records Point 1 and Point 2 Water Quality 2013 to 2015 Mine Water Discharge Sheets 	Surface water monitoring data was collected for the Bloomfield Surface Water Monitoring Program was in accordance with the requirements of EPL condition M2.1 and M2.2 and the Water Management and Integrated Environmental Monitoring Program.	Compliant														
	<table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of Measure</th> <th>Frequency</th> <th>Sampling method</th> </tr> </thead> <tbody> <tr> <td>Conductivity</td> <td>mS/cm</td> <td rowspan="4">Daily during discharge</td> <td rowspan="4">Grab sample</td> </tr> <tr> <td>pH</td> <td></td> </tr> <tr> <td>TSS</td> <td>mg/L</td> </tr> <tr> <td>Filterable iron</td> <td>mg/L</td> </tr> </tbody> </table>	Pollutant	Units of Measure	Frequency	Sampling method	Conductivity	mS/cm	Daily during discharge	Grab sample	pH		TSS	mg/L	Filterable iron	mg/L			
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Conductivity	mS/cm	Daily during discharge	Grab sample															
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Condition No.	EPL Condition				Comments	Compliance Status																					
	Point 2 <table border="1"> <thead> <tr> <th>Pollutant</th> <th>Units of Measure</th> <th>Frequency</th> <th>Sampling method</th> </tr> </thead> <tbody> <tr> <td>Conductivity</td> <td>mS/cm</td> <td>Continuous during discharge</td> <td>In-line</td> </tr> <tr> <td>pH</td> <td>pH</td> <td rowspan="2">Daily during discharge</td> <td rowspan="2">Grab sample</td> </tr> <tr> <td>TSS</td> <td>mg/L</td> </tr> </tbody> </table>				Pollutant	Units of Measure	Frequency	Sampling method	Conductivity	mS/cm	Continuous during discharge	In-line	pH	pH	Daily during discharge	Grab sample	TSS	mg/L									
Pollutant	Units of Measure	Frequency	Sampling method																								
Conductivity	mS/cm	Continuous during discharge	In-line																								
pH	pH	Daily during discharge	Grab sample																								
TSS	mg/L																										
M3	Testing methods – concentration limits																										
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.				<ul style="list-style-type: none"> Steel River Testing – Dust Deposition Results VGT – Water Quality Results 	Monitoring and analysis of samples for the Bloomfield Colliery has been conducted in accordance with approved methods with analysis conducted by NATA registered laboratories (ALS and ACIRL)	Compliant																				
M4	Recording of pollution complaints																										
M4.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.				<ul style="list-style-type: none"> Bloomfield Colliery Complaints Registers 2012 to 2015 	Legible records of complaints are kept by Bloomfield Group on the Complaints Register.	Compliant																				
M4.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.				<ul style="list-style-type: none"> Bloomfield Colliery Complaints Registers 2012 to 2015 	Legible records of complaints are kept by Bloomfield Group on the Complaints Register and include: a) date / time of the complaint; b) method by which the complaint was made (i.e. email, complaints telephone line, EPA pollution Line etc); c) details of the complainant; d) nature of the complaint; e) action taken in relation to the complaint The complaints received between 2013 and 2015 were: <table border="1"> <thead> <tr> <th>Year</th> <th>Total</th> <th>Blasts</th> <th>Noise</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td>2015</td> <td>4</td> <td>0</td> <td>0</td> <td>2 (dust) 2 (other)</td> </tr> <tr> <td>2014</td> <td>10</td> <td>2</td> <td>6</td> <td>1 (Odour)</td> </tr> <tr> <td>2013</td> <td>9</td> <td>2</td> <td>6</td> <td>1 (dust)</td> </tr> </tbody> </table>	Year	Total	Blasts	Noise	Other	2015	4	0	0	2 (dust) 2 (other)	2014	10	2	6	1 (Odour)	2013	9	2	6	1 (dust)	Compliant
Year	Total	Blasts	Noise	Other																							
2015	4	0	0	2 (dust) 2 (other)																							
2014	10	2	6	1 (Odour)																							
2013	9	2	6	1 (dust)																							
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.					All complaints records are retained by the Bloomfield Group.	Compliant																				
M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.						Noted																				
M5	Telephone complaints line																										
M5.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation				<ul style="list-style-type: none"> www.bloomcoal.com.au/bloomfield 	A 24 hour Community Hotline (02 4930 2680) and email address (info@bloomcoll.com.au) is provided on the	Compliant																				

Condition No.	EPL Condition		Comments	Compliance Status												
	to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.		Bloomfield website for members of the community to contact the mine with questions or complaints.													
M5.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	<ul style="list-style-type: none"> www.bloomcoal.com.au/bloomfield 	The 24 hour Community Hotline (02 4930 2680) is provided on the Bloomfield website.	Compliant												
M5.3	The preceding two conditions do not apply until 3 months after: a) the date of the issue of this licence or b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.	<ul style="list-style-type: none"> Bloomfield Colliery Complaints Register 		Noted												
M6	Requirement to monitor volume or mass															
M6.1	For each discharge point or utilisation area specified below, the licensee must monitor: a) the volume of liquids discharged to water or applied to the area; b) the mass of solids applied to the area; c) the mass of pollutants emitted to the air, at the frequency and using the method and units of measure, specified below. Point 1 <table border="1"> <thead> <tr> <th>Frequency</th> <th>Units of Measure</th> <th>Sampling method</th> </tr> </thead> <tbody> <tr> <td>Daily during any discharge</td> <td>kilolitres/day</td> <td>By calculation</td> </tr> </tbody> </table> Point 2 <table border="1"> <thead> <tr> <th>Frequency</th> <th>Units of Measure</th> <th>Sampling method</th> </tr> </thead> <tbody> <tr> <td>Daily during any discharge</td> <td>kilolitres/day</td> <td>In-line instrumentation</td> </tr> </tbody> </table>	Frequency	Units of Measure	Sampling method	Daily during any discharge	kilolitres/day	By calculation	Frequency	Units of Measure	Sampling method	Daily during any discharge	kilolitres/day	In-line instrumentation	<ul style="list-style-type: none"> Water Discharge Results 2014 AEMR section 3.3 and Appendix B 2013 AEMR section 3.3 and Appendix B 2012 AEMR section 3.3 and Appendix B Discharge Monitoring Equipment Status, ENVAULT 	Monitoring of the volume of water discharged from Point 1 to Four Mile Creek occurs daily for any discharge. The discharges only occur as approved in EPL condition L3.1 and no discharges greater than 40ML per day occurred between 2013 and 2015.	Compliant
Frequency	Units of Measure	Sampling method														
Daily during any discharge	kilolitres/day	By calculation														
Frequency	Units of Measure	Sampling method														
Daily during any discharge	kilolitres/day	In-line instrumentation														
M7	Blasting															
M71.	To determine compliance with condition(s) L4.2 and L4.3: a) Airblast overpressure and ground vibration must be measured at any affected residence or sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee	<ul style="list-style-type: none"> AS 2187.2-2006 µMX Calibration Certificate No. 0702, TEXCEL 28 Aug 2015 	<p>(a) The blast monitoring program consists of four blast monitors (three fixed and one mobile) located at residences to the south, south-east, west and north-west of current open cut operations that are activated for each blast.</p> <p>(b) The blast monitors are maintained and calibrated by an external contractor/consultant (TEXCEL) in accordance with AS 2187.2-2006.</p>	Compliant												

Condition No.	EPL Condition		Comments	Compliance Status
	as to an alternative overpressure level - for all blasts carried out in or on the premises; and b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 2187.2-2006.			
6	Reporting Conditions			
R1	Annual Return documents			
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: a) a Statement of Compliance; and b) a Monitoring and Complaints Summary. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA	<ul style="list-style-type: none"> EPA Annual Return 31 Dec 2013 to 30 Dec 2014 EPA Annual Return 31 Dec 2012 to 30 Dec 2013 	The Annual Returns have been completed on the approved forms for the period of 31 December to 30 December each year and include a Statement of Compliance and Monitoring and Complaints Summary.	Compliant
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below. <i>Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.</i>			Noted
R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period. <i>Note: An application to transfer a licence must be made in the approved form for this purpose.</i>		-	Not Applicable
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.		-	Not Applicable
R1.5	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60	<ul style="list-style-type: none"> EPA Annual Return 2010-2011 EPA Annual Return 2009-2010 	The EPL Annual Return reporting period is 31 December to 30 December each year.	Compliant

Condition No.	EPL Condition		Comments	Compliance Status
	days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').		The Annual Returns have been submitted to the EPA (OEH) by 28 February each year within the 60 day reporting period.	
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.		Copies of the Annual Returns are retained by Bloomfield within the internal filing system.	Compliant
R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	<ul style="list-style-type: none"> EPA Annual Return 2010-2011 EPA Annual Return 2009-2010 	The Annual Returns have been completed on the approved forms with the Monitoring and Complaints Summary signed by Bloomfield Company Directors.	Compliant
R1.8	A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.			Noted
R2	Notification of environmental harm			
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	<ul style="list-style-type: none"> Water Incident – Report to EPA, May 2014 	Notification of incidents were made to the EPA between 2013 and 2015.	Compliant
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred. <i>Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.</i>	<ul style="list-style-type: none"> Blast Overpressure Exceedance- Pollution Line Incident 135198, 9 Mar 2012 Water Discharge EC Exceedance - Pollution Line Incident 13146, 17 Nov 2012 Water Incident – Pollution Line Incident CO7411, 8 May 2014 Water Incident Report to EPA, May 2014 Water Discharge TSS Exceedance – Pollution Line Ref. CO5628, 21 Apr 2015 	Written Bloomfield Significant Incident Investigation Reports were submitted to DECCW/OEH for the following events between 2013 and 2015: <ul style="list-style-type: none"> A leak in the recycle water pipeline from the tailings dam occurred in May 2014 resulting in potential loss of water off site into Four Mile Creek. The incident was reported to the EPA Pollution Line in accordance with EPL 396 condition. Water Discharge TSS Exceedance 21 April 2015. Incident Report prepared and submitted to the EPA on 21 April 2015 	Compliant
R3	Written report			
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	<ul style="list-style-type: none"> Letter to EPA re Discharge TSS Exceedance on 21 Apr 2015, dated 22 Apr 2015 Letter from EPA re Mine Water Release Incident, 30 Jul 2014 Letter to EPA Mine Water Release Incident, 21` Aug 2014 	Written response to the EPA request dated 30 July 2014 was prepared for the Mine Water Release notified to the EPA Pollution Line. The report provided: <ul style="list-style-type: none"> Incident Description; Incident Response; Events Related to the Incident; Investigation Conclusions and Follow-up. No further action was required by the EPA.	Compliant

Condition No.	EPL Condition		Comments	Compliance Status
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.			Noted
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	<ul style="list-style-type: none"> Blast Overpressure Exceedance-Pollution Line Incident 135198, 9 Mar 2012 Water Discharge EC Exceedance - Pollution Line Incident 13146, 17 Nov 2012 Water Incident – Report to EPA, 21 May 2014 	<p>Written Bloomfield Significant Incident Investigation Reports prepared for the events listed in EPL condition R2.2 between 2012 and 2015 provided:</p> <ul style="list-style-type: none"> Incident Description Initial Incident Response Attendance during the Incident Incident Outcome Events Related to the Incident Investigation Conclusion Follow-up Site Remediation (if required) 	Compliant
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.			Noted
R4	Other reporting conditions			
R4.1	Reporting blasting limit exceedance The licensee must report any exceedance of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedance becomes known to the licensee or to one of the licensee's employees or agents.	<ul style="list-style-type: none"> Bloomfield Colliery Significant Investigation Report to DECCW dated 22 Sep 2010 Letter from DECCW re Penalty Notice, 1 Nov 2010 Email to DoP re Blast Exceedance, 9 Mar 2012 Letter to OEH re Blast Exceedance on 9 Mar 2012, dated 13 Mar 2012 Letter from EPA re Blast Overpressure Exceedance , 20 Mar 2012 	<p>Bloomfield have provided written details of any incidents within 7 days of the incident occurring (e.g. refer to blast reporting condition R4.1).</p> <p>Two exceedances of the blast overpressure criteria were reported between 2010 and 2012:</p> <ul style="list-style-type: none"> Bloomfield Colliery reported an overpressure value of 127.9dB� on 16 September 2010 to DECCW and received a Penalty Infringement Notice (PIN) on 1 November 2010. An overpressure value of 120.6dB� that exceeded the 120dB� criteria on 9 March 2012 was reported to DoP and OEH. The EPA issued an Official Caution Notice to Bloomfield on 20 March 2012. <p>No blast overpressure or vibration exceedances occurred between 2013 and 2015.</p>	Compliant

Condition No.	EPL Condition		Comments	Compliance Status
7	General conditions			
G.1	Copy of licence kept at the premises			
G1.1	A copy of this licence must be kept at the premises to which the licence applies.		A copy of EPL No. 369 is available on the premises at the Bloomfield Colliery administration Office – Environment Manager.	Compliant
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.		-	Noted
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.		-	Noted
8	Pollution Studies and Reduction Programs			
U1	Coal Mine Particulate Matter Control Best Practice			
U1.1	The Licensee must conduct a site specific Best Management Practice (BMP) determination to identify the most practicable means to reduce particle emissions.	<ul style="list-style-type: none"> Bloomfield Coal Mine Particulate Matter – Best Management Practice Pollution Reduction Program, Todoroski Air Services, 25 Jun 2012 Bloomfield Particulate Matter – Best Management Practice Implementation, 2014 		Compliant
U1.2	The Licensee must prepare a report which includes, but is not necessarily limited to, the following: <ul style="list-style-type: none"> - identification, quantification and justification of existing measures that are being used to minimise particle emissions; - identification, quantification and justification of best practice measures that could be used to minimise particle emissions; - evaluation of the practicability of implementing these best practice measures; and - a proposed timeframe for implementing these best practice measures. In preparing the report, the Licensee must utilise the document entitled <i>Coal Mine Particulate Matter Control Best Practice – Site Specific Determination Guideline – November 2011</i> .	<ul style="list-style-type: none"> Bloomfield Coal Mine Particulate Matter – Best Management Practice Pollution Reduction Program, Todoroski Air Services, 25 Jun 2012 Bloomfield Particulate Matter – Best Management Practice Implementation, 2014 	The Particulate Matter – Best Management Practice Pollution Reduction Program prepared by AleksTodoroski and includes: <ul style="list-style-type: none"> • identification, quantification and justification of existing measures that are being used to minimise particle emissions (section 3 - Emissions Inventory); • identification, quantification and justification of best practice measures that could be used to minimise particle emissions (section 3.2 - Analysis of Potential Control Measures); • evaluation of the practicability of implementing these best practice measures (section 3.2 - Analysis of Potential Control Measures); and • a proposed timeframe for implementing these best practice measures (section 4 - Timing of Additional Works). 	Compliant
U1.3	All cost related information is to be included as Appendix 1 of the Report required by condition U1.2 above.		Cost related to the Particulate Matter – Best Management Practice Pollution Reduction Program were not included in the report enabling the report to be placed in full on the Bloomfield website.	Compliant
U1.4	The Report required by condition U1.2 must be submitted by the Licensee to the Office of Environment and Heritage's Regional Manager Hunter, at PO Box 488G, NEWCASTLE WEST 2302 by 29 June 2012.	<ul style="list-style-type: none"> Letter to Karen Marler Head Regional Operations Unit – Hunter re Pollution Reduction Program, 29 Jun 2012 	The Bloomfield Coal Mine Particulate Matter – Best Management Practice Pollution Reduction Program, prepared by Todoroski Air Services was submitted to the OEH on 29 Jun 2012.	Compliant

November 10, 2015

BLOOMFIELD COLLIERY INDEPENDENT ENVIRONMENTAL AUDIT

Condition No.	EPL Condition		Comments	Compliance Status
U1.5	The report required by condition U1.2 above, except for cost related information contained in Appendix 1 of the Report, must be made publicly available by the Licensee on the Licensee's website by 6 July 2012.	<ul style="list-style-type: none">Bloomfield Coal Mine Particulate Matter – Best Management Practice Pollution Reduction Program, Todoroski Air Services, 25 Jun 2012	The Bloomfield Coal Mine Particulate Matter – Best Management Practice Pollution Reduction Program, is available on the Bloomfield Colliery website.	Compliant

Attachment D

Consolidated Coal Lease No. 361

Conditions 2 to 8 and 12 to 16 are identified as conditions relating to environmental management for the purpose of Section 374A(1) of the *Mining Act 1992*.

Condition No.	Consolidated Coal Lease Condition	Verification	Comments	Compliance Status
2	Environmental Harm			
	(a) The lease holder must implement all practicable measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of any activities under this lease.		Bloomfield Colliery have implemented environmental management plans and environmental monitoring programs for the open cut operations in accordance with the Project Approval and Environment Protection Licence to minimise the potential of environmental harm from the activities conducted on CCL 361.	Compliant
3	Mining Operations Plan (MOP)			
	(a) Mining operations must not be carried out otherwise than in accordance with a Mining Operations Plan that has been approved by the Director-General.	<ul style="list-style-type: none"> Interim Mining Operations Plan Guidelines, DTIRIS, Nov 2011. 2012-2016 Mining Operations Plan Letter from DRE re Approval of the 2012-2016 MOP, 16 Jan 2013 	The revised and updated 2012-2016 Mining Operations Plan was prepared by Bloomfield to address the requirements of and in accordance with the Department of Trade and Investment, Regional Infrastructure and Services (DTIRIS) <i>Interim Mining Operations Plan Guidelines</i> (November 2011). The 2012-2016 MOP was approved by Division of Resources and Energy (DRE) on 16 January 2013.	Compliant
4	Environmental Management Report			
	(a) The lease holder must lodge Environmental Management Reports (EMR) with the Director-General annually or at dates otherwise directed by the Director-General. (b) The EMR must: ii) Report against compliance with the MOP; iii) Report on progress in respect of rehabilitation completion criteria; iv) Report on the extent of compliance with regulatory requirements; and v) Have regard to any relevant guidelines adopted by the Director-General.	<ul style="list-style-type: none"> 2010-2011 Annual Environmental Management Report 2011-2012 Annual Environmental Management Report 	The annual environmental management report (AEMR) has been prepared to address: (i) compliance with the MOP (section 2.4 Mining; section 5.3 Further Development of the Final Rehabilitation Plan; section 6 Activities Proposed in the Next AEMR Period); (ii) progress in respect of rehabilitation completion criteria (section 5.3 Further Development of the Final Rehabilitation Plan); (iii) extent of compliance with regulatory requirements (section 3 Environmental Management and Performance); and (iv) addresses relevant guidelines adopted by the Director-General (section 1.1 Consents, Leases and Licenses).	Compliant
5	Environmental Incident Report			
	(a) The lease holder must report any environmental incidents. The report must: ii) Be prepared according to any relevant Department Guidelines; iii) Be submitted within 24 hours of the environmental incident occurring.	<ul style="list-style-type: none"> Blast Overpressure Exceedance- Pollution Line Incident 135198, 9 Mar 2012 Water Discharge EC Exceedance - Pollution Line Incident 13146, 17 Nov 2012 Noise Exceedance – Reported to DP&I and Landowner, June 2013 	Environmental Incident Reports have been prepared by Bloomfield for notifiable incidents between 2012 and October 2015. Written Bloomfield Significant Incident Investigation Reports were prepared for the following events between 2013 and 2015: <ul style="list-style-type: none"> Noise Exceedance - one exceedance assessment criteria (39 LAeq(15minute)) occurred at Location M (daytime 47 LAeq(15minute)) in June 2013; A leak in the recycle water pipeline from the tailings dam occurred in May 2014 resulting in potential loss of water off site 	Compliant

Condition No.	Consolidated Coal Lease Condition	Verification	Comments	Compliance Status
		<ul style="list-style-type: none"> Water Incident – Report to EPA, May 2014 	into Four Mile Creek. The incident was reported to the EPA in accordance with EPL 396 condition	
6	Additional Environmental Reports Additional environmental reports may be required from time to time as directed in writing by the Director-General and must be lodged as instructed.			Noted
7	Rehabilitation Any disturbance as a result of activities under this lease must be rehabilitated to the satisfaction of the Director-General.	<ul style="list-style-type: none"> Mining Operations Plan 2012-2016 		Noted
8	Subsidence Management (a) The lease holder shall prepare a Subsidence Management Plan prior to commencing any underground mining operations which will potentially lead to subsidence of the land surface.		The current Bloomfield Colliery operations involve open cut mining.	Not applicable
10	Blasting (a) Ground Vibration The lease holder must ensure that the ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10mm/s and does exceed 5mm/s in more than 5% of the total number of blasts over a 12 month period at any dwelling or occupied premises, unless determined otherwise by the DECCW (OEH). (b) Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120dB and does exceed 115dB in more than 5% of the total number of blasts over a 12 month period at any dwelling or occupied premises, unless determined otherwise by the DECCW (OEH).	<ul style="list-style-type: none"> 2010-2011 AEMR section 3.8 and Appendix C 2011-2012 AEMR section 3.8 and Appendix C RCA Acoustics Blast Result Reports 	(a) Monitoring of vibration occurred for all blasts during 2013 to 2015 and no vibration results exceeded 5mm/s. (b) Air blast overpressure results between May 2013 and October 2015 were compliant with Project Approval 07_0087 Schedule 3 condition 8 and EPL condition L4.2 with less than 5% of the blasts >115dB at all sites for all blasts monitored and no blast overpressure recorded greater than 120dB.	Compliant
12	Prevention of soil erosion and pollution Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion unless otherwise authorised by a relevant approval and in accordance with the Mining Operations Plan.	<ul style="list-style-type: none"> Mining Operations Plan 2012-2016 Erosion and Sediment Control Plan Integrated Environmental Monitoring Program Air Quality Monitoring Program Water Management Plan 2010-2011 Annual Environmental Management Report 	The Bloomfield Project operations have occurred in accordance with the environmental management plans and environmental monitoring programs for control of water pollution and erosion and sediment control as authorised under the Project Approval and EPL approvals and in accordance with the Bloomfield Mining Operations Plan.	Compliant

Condition No.	Consolidated Coal Lease Condition	Verification	Comments	Compliance Status
		<ul style="list-style-type: none"> 2011-2012 Annual Environmental Management Report 		
13	Transmission lines, Communication lines and Pipelines			
	Operations must not interfere with or impair the stability or efficiency of any transmission line, communications line or pipeline or other utility on the lease area without the prior written approval of the Director-General and subject to any conditions stipulated.		No interference with or impairment with the stability or efficiency of any transmission line, communications line or pipeline or other utility occurred within the CCL 361 area between 2013 and 2015.	Compliant
15	Trees and Vegetation			
	(a) The lease holder must not fell trees, strip bark or cut timber on any land subject of this lease without the consent of the landholder who is entitled to the use of the timber.	Land Disturbance Management Procedure, 10 Oct 2012	Vegetation clearance and implementation of the pre-clearance protocol has occurred for the Bloomfield Colliery operations between 2013 and 2015: <ul style="list-style-type: none"> Approximately 7ha was stripped west of South Cut during 2014 Approximately 1ha was stripped to the west of South Cut and Creek Cut during 2013 Approximately 13ha was stripped to the west of South Cut and Creek Cut during 2012. 	Compliant