

Matthew Sprott

From: Chloe.Piggford@glencore.com.au
Sent: Tuesday, 1 August 2017 9:03 AM
To: Matthew Sprott
Subject: RE: Integra UG / Mt Owen Mods

Hi Matthew,

Glencore is seeking modification to SSD 5850 under s96(1A) of the *Environmental Planning and Assessment Act 1979*.

Regards,

Chloe Piggford
Environment and Community Manager
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E: chloe.piggford@glencore.com.au
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From: Matthew Sprott [mailto:Matthew.Sprott@planning.nsw.gov.au]
Sent: Monday, 31 July 2017 10:54 AM
To: Piggford, Chloe (Integra - AU) <Chloe.Piggford@glencore.com.au>
Subject: Integra UG / Mt Owen Mods

Hi Chloe,

I am currently reviewing the proposed modifications to the Integra Underground (PA 08_0101 MOD 7) and Mount Owen (SSD 5850 MOD 1) mines and wish to seek some clarification on an inconsistency in your application information.

The Application form for the modifications states that you are seeking to modify PA 08_0101 under section 75W of the *Environmental Planning and Assessment Act 1979* (the Act) and modify SSD 5850 under section 96(1A) of the Act. However, Section 5.1.2 of the EA notes that the Mount Owen modification would be "substantially the same as the development for which Development Consent was originally granted" and is therefore being sought under s96(2) of the Act.

Can you please confirm the pathway that Glencore is seeking for the modification to SSD 5850.

Regards,
Matthew

Matthew Sprott

Team Leader – Resource Assessments
Resource Assessments & Compliance Division
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Matthew Sprott

From: Chloe.Piggford@glencore.com.au
Sent: Monday, 4 September 2017 9:03 AM
To: Matthew Sprott
Subject: RE: RFAI - IUG/MOCO Modifications

Good morning Matthew,

HV Coking Coal Pty Limited confirms that no changes to the existing EPL limits for the discharge of water to offsite receiving environments (i.e. existing Ravensworth EPL) will be sought as a result of the proposed modifications to Project Approval 08_0101 (MOD 7) and SSD-5850 (MOD 1).

The Greater Ravensworth Area Water Sharing Scheme and its associated discharges of water to offsite receiving environments will continue to be considered in future, proposed modifications where relevant.

Regards,

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From: Matthew Sprott [mailto:Matthew.Sprott@planning.nsw.gov.au]
Sent: Thursday, 31 August 2017 3:58 PM
To: Piggford, Chloe (Integra - AU) <Chloe.Piggford@glencore.com.au>
Subject: RFAI - IUG/MOCO Modifications

Hi Chloe,

I note that the EA for the Integra to Mount Owen Pipeline states that the water transfers from Integra to Mount Owen would be used as part of the GRAWSS and would not appreciably increase the need for offsite discharges.

I note that the water balance assessment indicates that the GRAWSS has sufficient storage capacity to accommodate for any additional water that is not used (ie by the Mount Owen CHPP), and would appreciate if you could also confirm that Glencore is not seeking any changes to existing EPL limits for the discharge of water to offsite receiving environments (ie via designated discharge points under the existing Ravensworth EPL and the HRSTS).

Regards,
Matthew

Matthew Sprott

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Matthew Sprott

From: Chloe.Piggford@glencore.com.au
Sent: Thursday, 10 August 2017 2:52 PM
To: Matthew Sprott
Subject: RE: IUG/MO Modifications RFAI
Attachments: HB1651 F1 Vegetation Communities_Planting Areas.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon Matthew,

I'm writing to provide a response to your email below.

We refer to Section 2.5.3 of the Response to Submissions which provides as response to the submission received from OEH on the water pipeline modifications. OEH referred to recent infrastructure projects nearby which resulted in similar small impacts on threatened biodiversity and state these projects had offset obligations. However, the Proponents have responded in Section 2.5.3 of the Response to Submissions stating that *"Given the relatively minor extent of clearing of native woody vegetation, which is based on a conservative estimate, and the proposed implementation of a suite of mitigation measures (such as avoiding removal of trees with a trunk diameter of 10 cm or greater), as well as the fact that the Offsets Policy and FBA do not apply, it is considered that offsets are not required for this minor Modification."*

Initial construction planning work for the water pipeline has identified that the route is able to be aligned to maximise the avoidance of mature trees and trees greater than 10 cm in diameter. The section of pipeline between Forest Road and Glennies Creek will generally follow the existing underground gas pipeline, utilising previously disturbed areas from the associated construction and trenching activities of the pipeline, therefore reducing the disturbance on existing remnant vegetation.

As further noted in Section A.4.1 of Appendix E of the *Integra to Mount Owen Complex Water Pipeline Modification Environmental Assessment*, the disturbance boundary provides a conservative estimate of the area of vegetation which may potentially be disturbed by the pipeline to maintain operational and environmental flexibilities. The proposed pipeline will be predominantly above ground which further provides the flexibility to amend the indicative pipeline alignment, where practicable to minimise disturbance to existing vegetation communities. This flexibility presents an opportunity to avoid the removal of mature and hollow-bearing trees. In addition, as presented in Section 8.6.4 of the Environmental Assessment and reiterated in Section 2.5.3 of the Response to Submissions, construction activities associated with the pipeline will avoid trees with trunks greater than 10 cm in diameter.

In addition to the above mentioned management and mitigation commitments and in response to OEH submission in relation to offsetting requirements, the Proponents proposes the following additional compensatory planting measures consistent with recent modifications at the Mount Owen Complex.

As the Proponent is avoiding the removal of trees with a trunk diameter of 10 cm or greater, where removal of woody vegetation is unavoidable, the Proponents proposes to plant and maintain, until established (greater than 2 m in height) five trees of the same species for every tree conforming to the Central Hunter Ironbark – Spotted Gum – Grey Box Forest, Hunter Valley River Oak, Central Hunter Swamp Oak and Central Hunter Bulloak vegetation communities which is removed through the activities associated with the construction of the water pipeline. For example, for each Hunter Valley River Oak tree removed as a result of the construction of the water pipeline, five Hunter Valley River Oak trees will be planted and maintained, until established. We propose that this requirement is included in the Integra Underground Project Approval.

These plantings will occur within, or in the vicinity of, the Assessment Boundary with the aim of linking to the existing patches of these vegetation communities adjacent to the proposed pipeline alignment.

Indicative planting areas are shown in the attached figure. Actual planting areas will be ground-truthed and undertaken by suitably qualified personnel to provide for the highest chance of success. These plantings will also comply with the general principles for the revegetation works as outlined in Integra Underground's Biodiversity Management Plan. Section 3.3 of the Integra Underground Biodiversity Management Plan (approved by DPE in April 2017) states:

"The following list provides some general principles for the revegetation and regeneration works in exploration and minor surface disturbance areas:

- to minimise the lag time on habitat development, the revegetation works will commence as soon as possible;*
- to maximise revegetation success, the type of vegetation to be re-instated will match the type of native vegetation nearest to the area to be revegetated or other native vegetation type where natural recruitment will likely be high;*
- the vegetation types to be restored will attempt to create natural habitat conditions;*
- the revegetation works will rely on natural regeneration from the soil seed bank and active weed control. Stock exclusion will be instated and areas which do not respond to natural regeneration will be supplemented with tubestock plantings and selective direct seeding;*
- seed and plants used for the restoration works will be sourced from local provenance stock (where available) to retain the local genetic integrity of the vegetation and maximise vegetation establishment success;*
- regular monitoring activities to detect the success/failure of the restoration works will be performed; and*
- all areas of restoration will have restricted human access and be protected by exclusion fencing."*

As previously communicated, there is a short timeframe remaining for the Proponents to implement this proposed water pipeline. Therefore, the Proponents seek the draft conditions and recommendation to the PAC as soon as possible.

Regards,

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From: Matthew Sprott [mailto:Matthew.Sprott@planning.nsw.gov.au]
Sent: Friday, 4 August 2017 5:51 PM
To: Piggford, Chloe (Integra - AU) <Chloe.Piggford@glencore.com.au>
Cc: Lauren Evans <Lauren.Evans@planning.nsw.gov.au>
Subject: IUG/MO Modifications RFAI

Good evening Chloe,

The Department has furthered its assessment of the IUG/MO water pipeline proposal and requires some further information to complete its consideration of the proposals.

The Department is yet to be satisfied that the biodiversity impacts of the proposal have been adequately addressed and considers that further information is required to address OEH's outstanding concerns regarding the adequacy of biodiversity offsets. The Department is liaising with OEH to determine the quantum of offsets required for the proposal and confirm appropriate approaches to managing the potential for flood impacts on private property.

The Department is currently considering requirements for additional biodiversity offset or compensation measures, including the potential for these to be provided through an increase in the area of rehabilitation EEC woodland under the Mount Owen consent. The Department will also be seeking to reflect the avoidance, mitigation and management measures detailed in the EA in its recommendations and strengthen these measures in line with recent management and compensatory planting measures imposed under consents for recent modifications at the Mount Owen Complex.

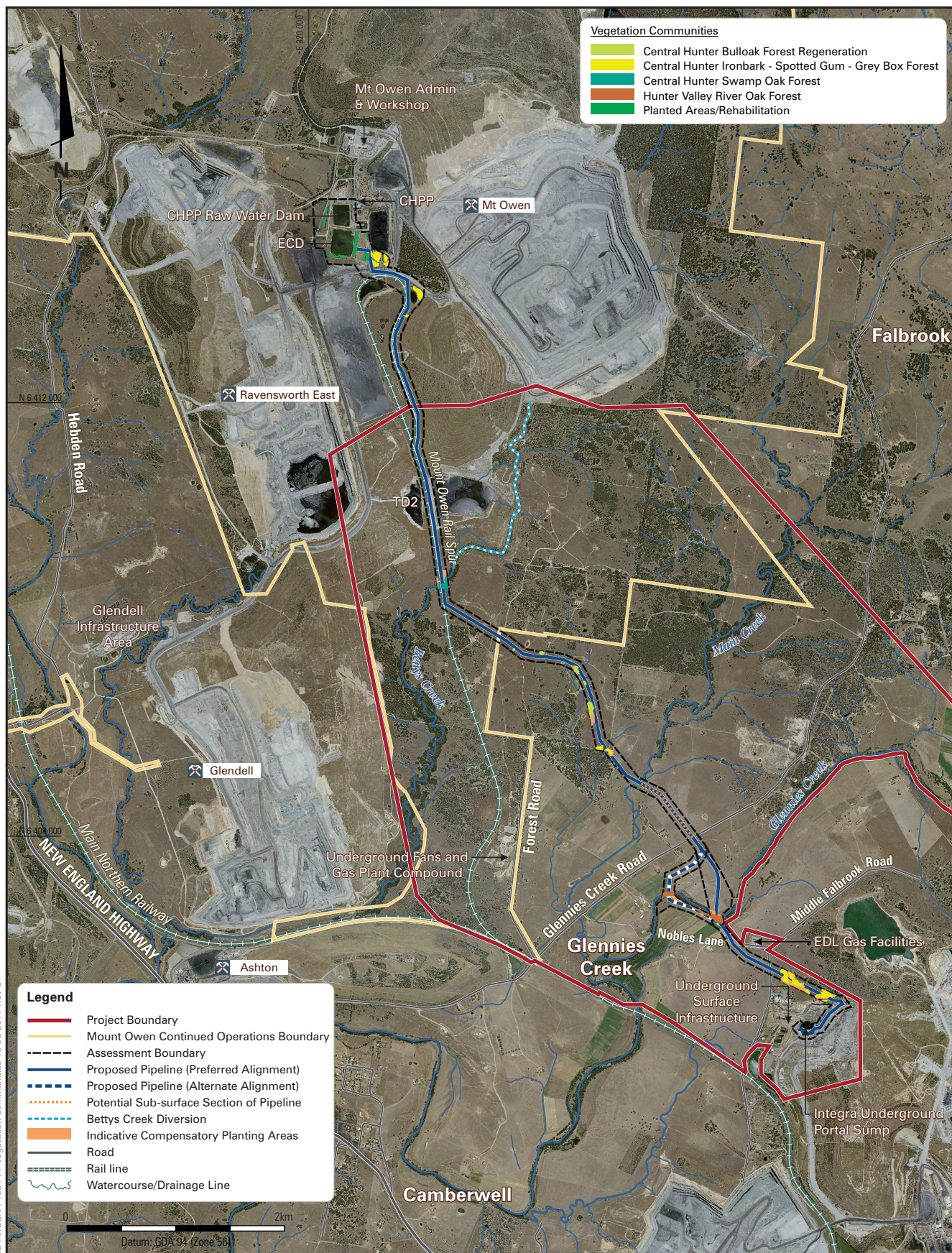
Prior to seeking Glencore's feedback on any proposed draft conditions, the Department is requesting any further feedback from Glencore on OEH's submission and any alternative proposals to account for the biodiversity impacts of the project.

Regards,
Matthew

Matthew Sprott

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INTEGRA UNDERGROUND MINE

Matthew Sprott

From: Chloe.Piggford@glencore.com.au
Sent: Tuesday, 1 August 2017 9:48 AM
To: Matthew Sprott
Cc: Nathan Cooper
Subject: FW: Request for additional information - IUG MOC Mods

Good morning Matthew,

Please find Glencore's response to the Department's request for additional information below.

- confirmation that the operation of the electric water pump, in conjunction with all other noise sources associated with the approved project, would be able to be managed to comply with the existing operational noise criteria at all nearby residences and sensitive receiver locations;

The "Operational Noise" section (page 6) of the Acoustics Assessment (Appendix C of the EA) predicted the noise levels that would be generated either a diesel or electric pump. This assessment determined that a diesel powered pump (the worst case) would result in a noise level of 25 LAeq,15min at the closest private receptor. An electric pump would generate a sound power level which is approximately 25 dBA lower than a diesel pump. Therefore, the noise level generated by the electric pump at the closest receptor would be approximately 0 dBA.

Noise generated by an electric pump would therefore not be audible at any private receptor at any time and would not increase the existing noise levels at any private receptor.

- further justification is required to demonstrate a need for proposed construction works outside of the standard construction hours, including specific details of the type (or subset) of work proposed to be undertaken during these periods; and

It is noted that the construction noise criteria (for work within standard hours) as recommended in the *Interim Construction Noise Guideline* are higher than the noise limits for the day period (as specified in PA 08_0101). This is in recognition of the temporary and short term nature of construction work which limits acoustic impacts on private receptors. Construction work outside standard hours is considered to be acceptable provided that these construction works produce noise levels that are less than the operational noise limits specified in PA 08_0101.

The operational noise limits within PA 08_0101 are proscriptive rather than descriptive. In principle, these noise limits allow the proponent a degree of operational flexibility while protecting sensitive receptors from unacceptable noise. Provided that HVCC and its construction contractor(s) is committed to complying with the relevant noise limits specified under PA 08_0101 at all receptors (including the effect of other noise from Integra), HVCC and its contractor(s) have the discretion to select the most appropriate machine or process for each task and the hours of operation for that machine or process.

HVCC is committed to the implementation of the following noise controls during construction works outside of standard construction hours:

- Construction works required to be undertaken outside of standard construction hours will be limited to tasks located a sufficient distance from all receptors to meet that the noise criteria specified within PA 08_0101. Examples of construction works which are likely to be suitable for completion outside standard construction hours include;
 - Construction of pipeline sections on the ground surface at least 1.2 km from the closest private receptor;
 - Construction of the pump station at the Integra Portal Sump; and
 - Construction of the feeder dam at the Mt Owen Complex, if this dam is required.
- All relevant construction staff will be provided with awareness training for noise matters, with a particular focus on any work required to be completed outside standard construction hours.

- further description of any reasonable and feasible measures that can be employed to minimise the construction noise impacts of the proposed water pipeline. In particular, please identify whether there are any additional measures that would be employed when construction works are occurring in proximity to privately owned land/residences (for instance limiting works in these areas to standard construction hours) and whether there has been any direct correspondence with potentially noise affected residences.

As per the response provided above, HVCC is committed to avoiding pipeline construction works within 1.2 km of the closest private receiver during periods outside of standard construction hours.

HVCC has regular consultations with the closest private receiver in relation to the current operations. During a meeting with this landholder on 26 April 2017, the construction impacts of the water pipeline were discussed. The landholder did not consider that the construction noise impacts would be a great concern and considered the proposed works to be similar to previous works undertaken within or immediately neighbouring his property for the gas drainage works. HVCC will keep this landholder informed in relation to the proposed construction program and to appropriately adjust the construction program to minimise noise impacts on this landholder.

HVCC and the construction contractor(s) will utilise standard earthmoving equipment which will be maintained and operated in a proper and efficient manner to manage noise generated during the construction works.

HVCC will conduct attended noise monitoring throughout the construction program in accordance with the Integra Underground Noise Management Plan to monitor compliance with noise limits.

Regards,

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From: Matthew Sprott [<mailto:Matthew.Sprott@planning.nsw.gov.au>]
Sent: Thursday, 27 July 2017 6:08 PM
To: Nathan Cooper <NCooper@hansenbailey.com.au>
Subject: Request for additional information - IUG MOC Mods

Good afternoon Nathan,

I am currently involved in the team reviewing the proposed Integra to Mount Owen Water Pipeline modifications.

The Department requests the following information to finalise its consideration of the noise impacts of the proposal:

- confirmation that the operation of the electric water pump, in conjunction with all other noise sources associated with the approved project, would be able to be managed to comply with the existing operational noise criteria at all nearby residences and sensitive receiver locations;
- further justification is required to demonstrate a need for proposed construction works outside of the standard construction hours, including specific details of the type (or subset) of work proposed to be undertaken during these periods; and
- further description of any reasonable and feasible measures that can be employed to minimise the construction noise impacts of the proposed water pipeline. In particular, please identify whether there are any additional measures that would be employed when construction works are occurring in proximity to privately owned land/residences (for instance limiting works in these areas to standard construction hours) and whether there has been any direct correspondence with potentially noise affected residences.

Should you have any queries regarding the above, please feel free to contact me.

Regards,
Matthew

Matthew Sprott

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Matthew Sprott

From: Chloe.Piggford@glencore.com.au
Sent: Monday, 4 September 2017 9:04 AM
To: Matthew Sprott
Subject: RE: FRAI - IUG/MOCO Pipeline Mod

Good morning Matthew,

Please find requested confirmations below as discussed.

- During the installation of the pipeline across public roads, management measures will be employed to minimise effects on road users. These mitigation measures include retaining one open lane during this pipeline installation. Therefore, no complete road closures are anticipated.
- The expected duration of the pipeline installation across each public road is one day. That is, each single lane closure will be for approximately half a day.
- Integra Underground has been granted approval from Singleton Council for the pipeline installation across each public road with regards to section 138 of the *Roads Act 1993*.

Regards,

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From: Matthew Sprott [mailto:Matthew.Sprott@planning.nsw.gov.au]
Sent: Thursday, 31 August 2017 10:14 AM
To: Piggford, Chloe (Integra - AU) <Chloe.Piggford@glencore.com.au>
Subject: FRAI - IUG/MOCO Pipeline Mod

Good morning Chloe,

I am seeking some further confirmation from Glencore with respect to the proposed road works associated with the Integra to Mount Owen Pipeline. Can you please confirm the management measures that Glencore would employ to mitigate impacts on road users during the construction of the pipeline trenches, the duration of proposed works for any public roads and an update on Glencore's consultation with Singleton Council regarding the approvals required to undertake these works.

Regards
Matthew

Matthew Sprott

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