

**BEFORE COMMISSIONERS APPOINTED BY WAIKATO REGIONAL
AND HAURAKI DISTRICT COUNCILS**

UNDER

the Resource Management Act 1991 (**RMA**)

AND

IN THE MATTER

of an application for resource consents to extend
the Waihi Gold Mine via underground and open
pit mining methods known as Project Martha

BY

OCEANA GOLD (NEW ZEALAND) LIMITED

Applicant

**SYNOPSIS OF TECHNICAL REPORT (s42A) AND RESPONSE TO EVIDENCE BY
NIGEL LLOYD
FOR THE HAURAKI DISTRICT COUNCIL**

(Noise)

[16th November 2018]

**BROOKFIELDS
LAWYERS**

A M B Green

Telephone No. 09 979 2172

Fax No. 09 379 3224

P O Box 240

DX CP24134

AUCKLAND

1. INTRODUCTION

- 1.1. My full name is Nigel Robert Lloyd. I am an Acoustic Consultant with Acousafe Consulting and Engineering Ltd a position I have held for over 33 years. I have advised Hauraki District Council on noise aspects of gold mining projects in Waihi, including Martha Mine, Favona Mine, Correnso and the Martha Drill Drive Project.
- 1.2. I assisted with the noise review of the District Plan.
- 1.3. I have read the Code of Conduct for Expert Witnesses contained in the Environment Court Practice Note 2014 and have complied with that practice note in preparation of this evidence. I agree to comply with it in presenting evidence at this hearing. The evidence that I give is within my area of expertise, except where I have stated my reliance on other identified evidence. I have considered all material facts that are known to me that might alter or detract from the opinions that I express in this evidence
- 1.4. In liaison with Mr Burton I prepared a Section 42A noise report of Project Martha dated 16th October 2018 for which I peer reviewed the noise information that was provided as part of the Project Martha application to HDC for Land Use Consent. The review was primarily of the Hegley Acoustic Consultants' Assessment of Noise Effects Report No. 17086/2 dated 22nd May 2018 which is Appendix F of the Assessment of Environmental Effects.
- 1.5. As part of that process I provided a preliminary review of the need for further noise information dated 30th May 2018.
- 1.6. I have read Mr Hegley's evidence to this hearing.
- 1.7. I made a visit to the area surrounding Martha Mine on 22nd September 2018. I have visited the mine on numerous occasions previously but this visit was specific to the circumstances of this application.
- 1.8. The key findings of my report are that Mr Hegley has made an appropriate noise assessment of the construction works associated with the MP 4 cutback at the north side of the Martha Pit. The construction works will involve the formation of a noise bund (expected duration of 2-3 weeks weather dependent)

and the relocation of Bulltown/Cambridge Roads. Special protection is to apply to Waihi Central School during term time.

- 1.9. Because the MP 4 works will extend beyond the EMMA consent Noise Control Boundaries, this means that those Noise Control Boundaries will be inconsistent with the circumstances of this consent application. As the applicant is purchasing the three dwellings for which noise levels were predicted to exceed 50 dB L_{Aeq} , then this allows the proposed conditions to be simplified. The agreed condition now is for the MP 4 works to comply with 50 dB L_{Aeq} at any dwelling (not owned by the consent holder or related company or not subject to an agreement with the consent holder or related company). This is the limit provided for in the EMMA consent applied near to the pit crest in the vicinity of the proposed MP 4 cutback works.

2. SUBMISSIONS

- 2.1. Four submissions were received in opposition concerning noise from the proposed underground mining (206.2, 207.1, 208.14, 209.14). These submitters reside south and east of the Martha Pit and either discuss the historical concerns about the mine operation (and noise monitoring) or seek the imposition of tighter noise conditions.
- 2.2. One concern is regarding noise monitoring in different wind conditions. The recommended noise standards are to be measured and assessed in accordance with the latest (2008) versions of NZS 6801 and NZS 6802. These Standards provide for noise to be appropriately adjusted to slightly positive propagation conditions which will allow monitoring to be undertaken more often. This should help to satisfy some of the submitters' concerns.

3. CONCLUSION

- 3.1. I have read the latest tracked changes of the draft conditions (at the date of preparing this evidence). The noise conditions are set out in Conditions 14 to 27 inclusive (including proposed new condition 26A) and I consider that these conditions, combined with the restrictions on hours of operation (conditions 8 to 13 inclusive), will appropriately manage the noise impacts from the proposed works.

Nigel Robert Lloyd

16th November 2018