

Before the Hearing Commissioners
Appointed by the Grey District Council
and West Coast Regional Council

Under the Resource Management Act 1991

In the matter of Resource consent applications by TiGa Minerals and Metals
Ltd to establish and operate a mineral sands mine on State
Highway 6, Barrytown (RC-2023-0046; LUN3154/23)

Summary Statement of Graeme John Ridley

2 February 2024

Applicant's solicitor:

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Summary of evidence


- 1 My name is Graeme John Ridley.
- 2 I prepared a statement of erosion and sediment control evidence dated 19 January 2024. My qualifications and experience are set out in that statement of evidence.
- 3 I repeat the confirmation given in that statement that I have read and agree to comply with the Code of Conduct for Expert Witnesses in the Environment Court.
- 4 My role in relation to TiGa Minerals and Metals Limited's (**TiGa**) application (the **Application**) has been to provide advice related to erosion and sediment control since September 2022.

Summary

- 5 My assessment for the erosion and sediment control is based on 2 specific phases of the Application referred to as construction and operation. I was the primary author of the Erosion and Sediment Control Plan (ESCP) that supports this approach with this ESCP having a primary focus on the set up and construction phase of the Application.
- 6 The ESCP provides the overarching approach to water management on site and is based on the provision of a detailed Site Specific ESCP (SSESCP) to be established pre works which will include specific design details. The SSESCP will also provide the ability for the West Coast Regional Council to have further input into the methodologies implemented to ensure enhanced outcomes and the opportunity for other innovative practices to be implemented.
- 7 The SSESCP will be reviewed annually and submitted with the Annual Work Programme, reflecting the water management measures proposed for construction and mining for the following 12 months.
- 8 The Application has committed to having a maximum area open at any one time of 8.0ha. This includes all the bund establishment and road access provisions. This has the effect of ensuring, including through site establishment phases, that progressive stabilisation is implemented and the risk of sediment generation and discharges are greatly reduced.
- 9 An adaptive monitoring programme will be implemented for the Application. This monitoring programme will involve ongoing site monitoring to check that the ESC water management measures have been installed correctly and that methodologies are being followed and are functioning effectively throughout the duration of the works. This will also directly inform the AWP for the Application. This is a typical best practice approach that is implemented on many earthwork projects.

Conclusion

- 10 Overall, I assess that in the context of erosion and sediment control, the ESCP and the proposed conditions of consent, into which I had input, allow for flexibility for the contractor to implement the Application, while providing certainty that effects of the Application can be managed appropriately. These conditions include the development of a future SSESCP that will allow for innovation and amendments as necessary in response to the previous 12-month period of activity and monitoring outcomes.
- 11 In addition to specific practices and methodologies, the ESCP outlines the comprehensive monitoring that will occur to ensure that erosion and sediment control measures and methodologies are fully effective and remain this way.
- 12 My experience in erosion and sediment control confirms that the Application is proposing a best practice approach with effective structural and non-structural measures. Overall, I conclude that the effects of sediment discharges from the Application will be less than minor.



Graeme Ridley

Dated this 2nd day of February 2024