

OCEANAGOLD (NEW ZEALAND)
LIMITED

WAIHI NORTH PROJECT

Stormwater Design

Summary from **Justin Kirkman**
Regarding Stormwater Design

1 INTRODUCTION

- 1.1. My name is Justin Kirkman
- 1.2. My role in relation to the Waihi North Project (“**WNP**”) has been to provide design advice in relation to stormwater. I oversaw and reviewed the Willows Farm stormwater management report which is provided within *Part H – Supporting Technical Assessments* of the application.
- 1.3. This summary has been prepared to accompany the application by Oceana Gold (New Zealand) Limited (“**OGNZL**”) for approvals required for the WNP under the Fast-track Approvals Act 2024 (“**FTAA**”). It has been prepared on the understanding that the process for determining applications under the FTAA does not require a hearing to be held, and accordingly the purpose of this summary is to confirm that, relative to my area of expertise, the stormwater management report provides an appropriate description of the relevant environment, the proposed activities comprising the effects of the WNP on that environment, and the way those effects are proposed to be managed.
- 1.4. My findings are set out in full in the stormwater management report included within *Part H – Supporting Technical Assessments* of the application.
- 1.5. While this application is not being considered by the Environment Court, I confirm that I have read the Code of Conduct for expert witnesses contained in the Environment Court of New Zealand Practice Note 2023 and that I have complied with it when preparing this summary. Other than when I state I am relying on the advice of another person, this summary is within my area of expertise. I have not omitted to consider material facts known to me that might alter or detract from the opinions that I express.

2. QUALIFICATIONS AND EXPERIENCE

- 2.1. My name is Justin Maurice Kirkman. I am currently employed as a Technical Director at Beca Limited. I have over 18 years' experience in civil (stormwater/drainage) engineering, and flood modelling.
- 2.2. I hold a Bachelor of Engineering (Environmental Engineering) from Griffith University.
- 2.3. I am a Chartered Member of Engineering New Zealand (**CMEngNZ**), a Chartered Professional Engineer (**CPEng**), a registered International Professional Engineer (**IntPE**) and an Asia-Pacific Economic Cooperation (**APEC**) Engineer.
- 2.4. I have expertise in stormwater network design and hydraulic and hydrologic engineering on site development and infrastructure projects. My relevant experience includes the following:
- 2.5. I was the stormwater discipline lead for the delivery of the Waikato Expressway Hamilton Section which included construction level design of a stormwater network, 11 wetlands, and

the development of 10+ flood models to demonstrate compliance with the project resource consents;

2.6. I have built more than 100 flood models and designed more than 20 wetlands in New Zealand and Australia using multiple flood modelling software packages to inform infrastructure design, insurance claims, and residential / commercial / industrial developments. I have presented evidence at both council-level hearings and civil arbitration (District Court) with regard to flooding and stormwater matters; and

2.7. I have been involved with The Waihi North Project since October of 2024.

2.8. In providing this summary in relation to stormwater design, I have considered the following matters as relevant to that topic:

- (a) The project description provided by OGNZL as set out in Section 2 of the Substantive Application prepared by Mitchell Daysh Limited;
- (b) The description of the existing environment, the effects of the WNP on that environment and their significance, and the proposals to manage those effects all as set out in the assessment of environmental effects accompanying the application;

2.9 The following reports have been referenced in preparation of my assessment:

- (c) WKP Mine Technical Description of Infrastructure Life of Mine Report, Beca Ltd., 10/3/2021 (Rev C, Phase 3 addendum)
- (d) Water Management Studies, GHD, 2025.
- (e) Willows Road WRS & SIA Geotechnical Assessment, WSP New Zealand Limited, June 2022.
- (f) Erosion and Sediment Control Assessment Report, Southern Skies, 2025.
- (g) Terrestrial Ecology Values and Effects of the WUG, Boffa Miskell, 2025.
- (h) Willows Rock Stack Technical Report, Engineering Geology Limited (EGL), 2025.

CONFIRMATION OF CONTENTS OF REPORT AND PROPOSED CONDITIONS

I confirm that in my opinion, the Stormwater Management Report contains an accurate and appropriate description of the environment, the actual and potential design intent of the WNP, and the recommended actions to manage those effects within my area of expertise.

I confirm that in my opinion, the contents of the Stormwater Management Report may be relied on in making a decision on the approvals sought for the WNP. I can confirm that the

design is within my area of expertise and the effects will be managed to a standard that I consider meets good practice.

A handwritten signature in blue ink, appearing to read 'JK', followed by a vertical line.

Justin Kirkman

Dated this 28th day of February 2025