

BEFORE THE KAIPARA DISTRICT COUNCIL

IN THE MATTER of the Resource Management Act 1991

AND

IN THE MATTER of a private plan change request by Mangawhai Central Ltd to the Kaipara District Plan (“Plan Change 78”)

SECOND STATEMENT OF SUPPLEMENTARY EVIDENCE OF JON WILLIAMSON

(WATER SUPPLY)

28 JANUARY 2021

Counsel instructed:

Ian Gordon
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Wellington 6011

Solicitors acting:

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78 Jervois Road
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INTRODUCTION

1. My full name is Jonathan Lindsay Williamson. I have the qualifications and experience as set out in my evidence in chief dated 6 November 2020.
2. I have previously provided a statement of evidence in relation to this matter dated 6 November 2020, and a first supplementary statement of evidence dated 18 December 2020.
3. I confirm that I am continuing to comply with the Code of Conduct for Expert Witnesses contained in the Environment Court Practice Note (2014) In that regard, I confirm that this evidence is written within my expertise, except where I state that I am relying on the evidence of another person. I have not omitted to consider material facts known to me that might alter or detract from the opinions expressed.

WATER TAKE CONSENTS

4. The purpose of this second supplementary statement is to confirm that Mangawhai Central Limited (“MCL”) has recently obtained resource consents (AUT.042407.01.01 and AUT.042407.02.01) authorising two water takes at the Plan Change 78 (“PC78”) site. On 8 January 2021 Northland Regional Council granted MCL consents to take water from two unnamed tributaries of the Mangawhai Harbour within the PC78 site. A copy of the consents is attached to this evidence as **Appendix A**.
5. At paragraphs 30-38 of my first supplementary statement of evidence dated 18 December 2020 I set out my assessment of the ability for surface water catchments to provide for the proposed MCL reticulated area development. This assessment was undertaken on the basis of two water takes within the PC78 site for which the above water take consents have now been granted. In other words, the two “case study” water takes addressed in my first supplementary statement of evidence have now been consented; and I confirm that the water take locations and parameters assessed in my first supplementary statement of evidence correspond with the water take locations and parameters that have been consented.
6. For completeness, the analysis in my first supplementary statement of evidence demonstrated that the two (now consented) water takes can reliably support the reticulated area proposed as part of the PC78 development.

Jon Williamson

28 January 2021

APPENDIX A

Copy of water take resource consents

Resource Consent

Document Date: 08.01.2021

*Pursuant to the Resource Management Act 1991, the Northland Regional Council
(hereinafter called "the council") does hereby grant a Resource Consent to:*

MANGAWHAI CENTRAL LIMITED

To undertake the following activities associated the supply of water for a residential and commercial development on Lot 4 DP 154785 and Lot 6 DP 314200 (83 Molesworth Drive, Mangawhai):

AUT.042407.01.01 **Take water from an unnamed tributary of the Mangawhai Harbour, at or about location co-ordinates 1741110 6002464.**

AUT.042407.02.01 **Take water from an unnamed tributary of the Mangawhai Harbour, at or about location co-ordinates 1741094 6002207.**

Note: All location co-ordinates in this document refer to Geodetic Datum 2000, New Zealand Transverse Mercator Projection.

Subject to the following conditions:

AUT.042407.01

- 1 The rate of taking shall not exceed 40 litres per second.
- 2 The Consent Holder shall only exercise this consent when flows in the unnamed tributary, as measured using the flow recorder device required by Condition 9, are greater than 4.3 litres per second.
- 3 The exercise of this consent must not reduce the flow in the unnamed tributary, as measured using the flow recorder device required by Condition 9, below 4.3 litres per second.

AUT.042407.02

- 4 The rate of taking shall not exceed 7 litres per second.
- 5 The Consent Holder shall only exercise this consent when flows in the unnamed tributary, as measured using the flow recorder device required by Condition 9, are greater than 1 litre per second.
- 6 The exercise of this consent must not reduce the flow in the unnamed tributary, as measured using the device required by Condition 9, below 1 liter per second.

General Conditions

- 7 The Consent Holder shall install a meter at each water take location that measures the volume of water taken in cubic metres at least every 15 minutes. Each meter shall:
- (a) Be telemetered to the Northland Regional Council;
 - (b) Be suited to the qualities of the water it is measuring (such as temperature, algae content, and sediment content);
 - (c) Be sealed and as tamper-proof as practicable;
 - (d) Be installed at the location from which water is taken; and
 - (e) Have an accuracy within $\pm 5\%$.

At all times, safe and easy access shall be provided to the meters for the purposes of undertaking visual inspections and water take measurements.

- 8 The Consent Holder shall verify that the meters required by Condition 7 are accurate. This verification shall be undertaken prior to 30 June:
- (a) Following the first taking of water at each take location; and
 - (b) At least once in every five years thereafter.

Each verification shall be undertaken by a person, who in the opinion of the council's Compliance Manager, is suitably qualified. Written verification of the accuracy of the meter shall be provided to the council's Compliance Manager by 31 July following the date of each verification.

- 9 The Consent Holder shall install and maintain for each water take a flow measuring device within the culvert that is downstream of the water take pump chamber. The measuring device shall:
- (a) Record, in litres per second, all flows up to 60 litres per second with an accuracy of $\pm 10\%$, at a minimum of 1 record every 15 minutes; and
 - (b) Be telemetered to the Northland Regional Council.

- 10 The design and construction of the flow measuring devices, as required by Condition 9, shall be undertaken in consultation with the council's Hydrology Department. A flow measuring device shall not be installed until the council's Compliance Manager has provided written certification that the water level measuring device is capable of meeting the requirements of Condition 9.

- 11 Prior to exercising a consent for the first time, the flow measuring device required by Condition 9 shall be calibrated by a suitably qualified and experienced person to verify accuracy. The Consent Holder shall forward the details of the person who is to undertake the calibration to the council's assigned monitoring officer at least one week prior to the calibration being undertaken. Confirmation of calibration shall be forwarded to the council's assigned monitoring officer at least one week prior to exercising the consent for the first time.

- 12 The flow measuring devices and intake structures, including pumps, shall be adequately maintained so that they operate effectively at all times.

- 13 A record of the volume of water taken daily in cubic metres shall be kept using the meters required by Condition 7, including nil abstractions. A copy of the records for the period 1 July to 30 June (inclusive) shall be forwarded each year to the council's assigned monitoring officer by the following 31 July. In addition, a copy of these records shall be forwarded immediately to the council's assigned monitoring officer on written request. The records shall be in an electronic format that has been agreed to by the council.

Advice Note: *If no water is taken during the period 1 July to 30 June (inclusive) then the Consent Holder is still required to notify the council in writing of the nil abstraction. Water use record sheets in an electronic format are available from the council's website at www.nrc.govt.nz/wur.*

- 14 A screen device shall be installed and maintained on each water intake that limits the intake velocity across the screen to less than 0.3 metres/second and has no holes or slots with a diameter or width greater than 5 millimetres.

- 15 The reticulation system and components shall be maintained in good working order to avoid or minimise leakage and wastage.

- 16 Each consent will lapse on 31 January 2026, unless before this date the consent has been given effect to.

Advice Note: *An application can be made to the council in accordance with Section 125 of the Act to extend the date after which the consent lapses. Such an application must be made before the consents lapse.*

- 17 The council may, in accordance with Section 128 of the Act, serve notice on the Consent Holder of its intention to review the conditions annually during the month of November for any one or more of the following purposes:

- (a) To deal with any adverse effects on the environment that may arise from the exercise of these consents and which it is appropriate to deal with at a later stage; or
- (b) To review the allocation of the resource.

The Consent Holder shall meet all reasonable costs of any such review.

EXPIRY DATE: 31 DECEMBER 2055

These consents are granted this Eighth day of January 2021 under delegated authority from the council by:



Stuart Savill
Consents Manager