Kāpiti Coast
DISTRICT COUNCIL
Me Huri Whakamuri, Ka Titiro Whakamua

Waikanae River, Recharge and Borefield Annual Report 2025-26 (Consent WGN130103 [41283, 41284 & 41285])

Prepared for Greater Wellington Regional Council
by Kāpiti Coast District Council

FINAL

Revision History

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1 Introduction and Compliance Summary

1.1 Overview of consented activities

Kāpiti Coast District Council (the Council) holds resource consents (WGN130103 [41283], [41284] and [41285]), which authorise the following activities:

- **Groundwater take** from bores within the Waikanae Bore field for supplementing public water supply, through Waikanae River recharge or as an emergency public water source;
- **Surface water take** from the Waikanae River for public water supply; and
- **Discharge of groundwater** from the Waikanae Bore field to the Waikanae River for the purpose of river recharge and bore trialling.

Under the groundwater take consent, the Council is authorised to abstract water from eight production wells within the Waikanae Bore field as part of the Waikanae River Recharge Scheme. All eight wells were successfully tested and maintained throughout the 2025/26 reporting year (1 July – 30 June). **Figure 1** shows the location of the production wells and associated monitoring bores.

1.2 Monitoring requirements

The resource consents require ongoing monitoring of the Waikanae River, small coastal streams, wetlands, and the Waikanae Bore field. The consents also require the Council to prepare and maintain a range of plans, manuals, and reports – summarised in the diagram in **Appendix A**. Council reviewed and updated the Wetland, Small Coastal Streams and River Ongoing Mitigation Plans (OMPs), as discussed in the 2024/25 Annual Report. Council undertook routine monitoring throughout 2025/26. Council also undertook macroinvertebrate (MCI) monitoring as per the updated River OMP.

1.3 Summary of compliance activity

The following provides a summary of activities and compliance for the 2025/26 river recharge season:

- **River recharge operations:** The river level/flow rate remained above the minimum flow throughout 2025/26 and the river recharge scheme was not initiated.
- **Trigger exceedances:** Monitoring data for all applicable environmental triggers were reviewed for the 2025/26 monitoring period. No trigger thresholds attributable to operation of the Scheme were exceeded. The Scheme was not operated for river recharge during 2025/26.
- **Wetland OMP:** The OMP was updated to include new location maps with new monitoring plot locations established by Wildlands Consultants Ltd (Wildlands) in the 2024/25 monitoring round. Minor editorial updates were also made.
- **Small Coastal Streams OMP:** OMP was updated to refine the trigger response mechanisms and revise the mean lowest annual level for Ngārara Stream after the culvert blockage clearance in September 2022. Minor editorial updates were also made.
- **River OMP:** The OMP was updated following Wildlands' review of the methodology regarding periphyton and MCI sampling. Minor editorial updates were also made.
- **Performance Assessment Review (PAR):** In line with discussions at the 2023/24 and 2024/25 annual meetings for the AMG, GWRC has now approved an amendment to existing resource consents to delay the delivery of the PAR by 3 years, to April 2033. The resource consents now have new consent numbers (WGN130103 [41283], [41284] and [41285]).

- **Adaptive Management Group (AMG):** The AMG met on 29 September 2026 to discuss the draft Annual Report and Water Conservation Report.

Table 1: Compliance Summary

Section	
River	River Abstraction
	River Recharge
	Downstream River Flows
	River Aquatic monitoring
Borefield	Abstraction Volumes and Rates
	Back-up wells PW1 and PW5
	Shallow Aquifer Drawdown Monitoring
	Deep Aquifer Drawdown Monitoring
	Saline Intrusion Monitoring
	Waikanae River Flow Gauging
Wetlands	Wetlands Monitoring
Small Coastal Streams	Small Coastal Streams Monitoring

Key	
	No triggers or actions needed
	Trigger or action
	Exceedance

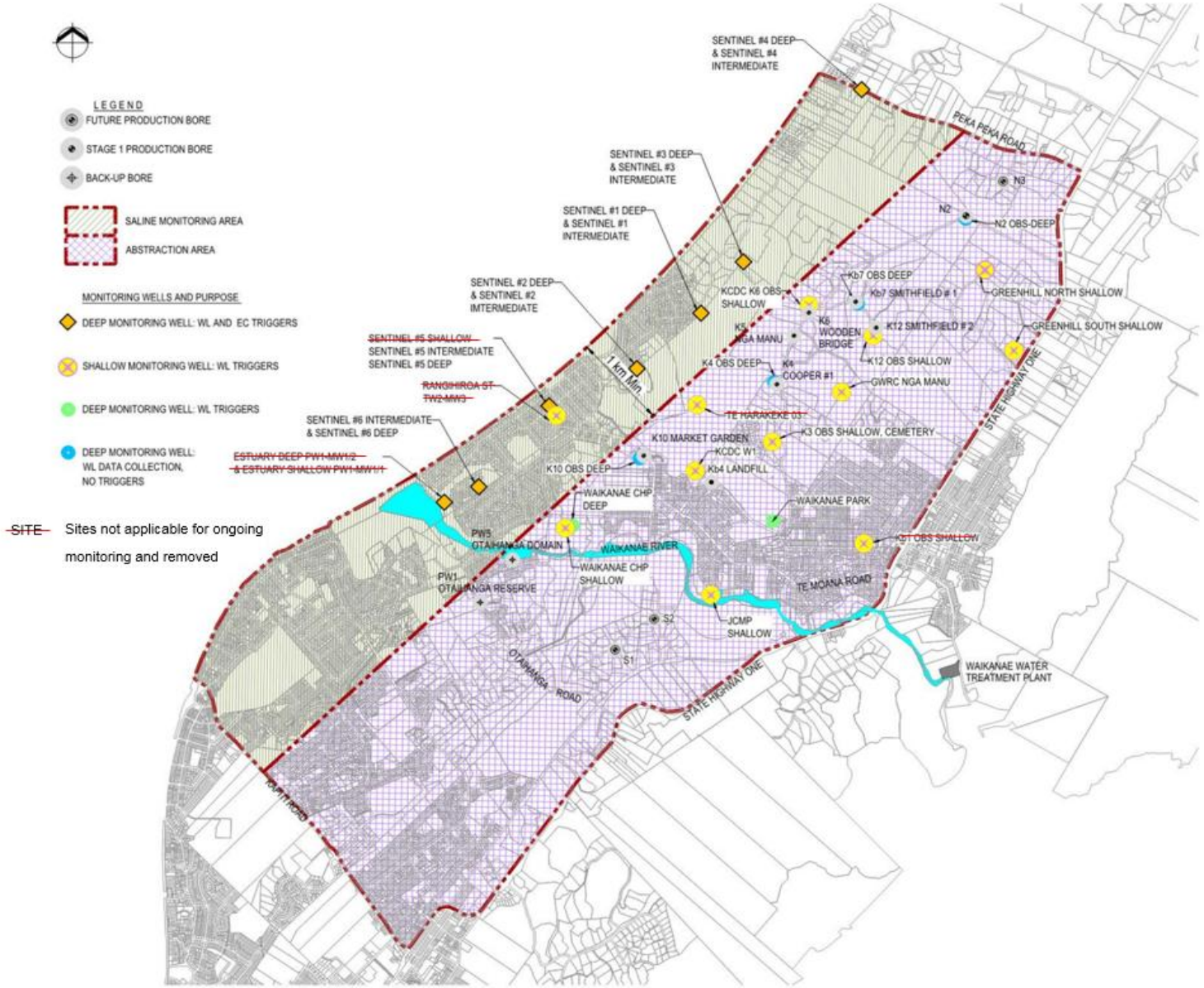


Figure 1: Location Plan - Waikanae Borefield Abstraction Wells and Monitoring Bores

2 Waikanae River

2.1 Waikanae River Flows

Greater Wellington Regional Council (GWRC) measures Waikanae River flow at a gauging station located approximately 200 metres upstream of the Waikanae Water Treatment Plant (WTP) intake. Flow data from GWRC's SCADA system is transmitted to the Council's SCADA system at approximately 15-minute intervals. This data is used to manage public water supply abstraction. It is important to note that the Council stores and uses the real-time data as received, and it is not retrospectively updated if GWRC later adjusts the flow records based on updated level-to-flow conversion algorithms.

Figure 2 presents the river flow data for the 2025/26 monitoring period, and **Table 2** summarises peak and low flow periods. Council is required to initiate river recharge to ensure flows always remain above 750 L/s. River recharge was not triggered in 2025/26 as flows did not approach the 750 L/s threshold.

Table 2: Upstream Waikanae River Flows

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Peak flow	197,525 L/s on 26 August 2024	149,471 L/s on 6 June 2026
Minimum flow	855 L/s on 13 March 2025	1,124 L/s on 7 April 2026
Low flow periods when river recharge used	February, March and April.	None

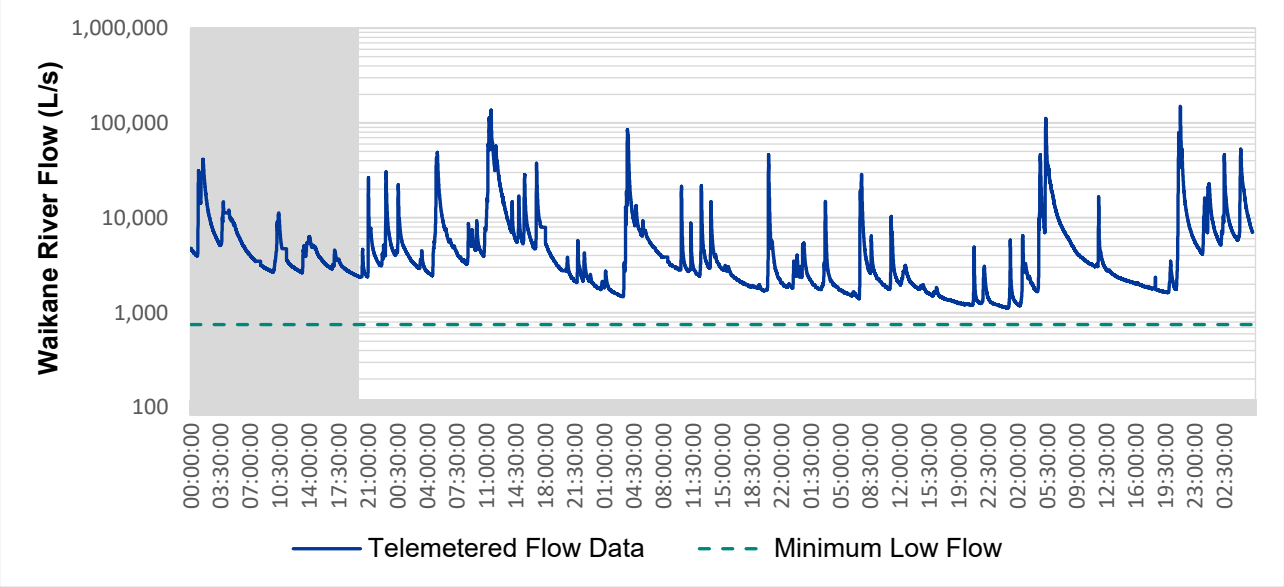


Figure 2: Waikanae River Flow at Water Treatment Plant (July 2025 – June 2026)

2.2 River Abstraction

No triggers or actions needed

The Council measures and records water abstraction from the Waikanae River using a flow meter installed at the Water Treatment Plant (WTP) intake. In accordance with Condition 13 of consent WGN130103 [41284], abstraction data is automatically transmitted from the Council's SCADA system to GWRC's Water Use Data

Management System (Hydrotel). The Council also provides a quarterly abstraction report to GWRC. Daily abstraction volumes for the 2025/26 reporting period are presented in **Table 3** and shown graphically in **Figure 3**. The red line indicates the maximum daily volume authorised by the consent. No exceedances occurred during 2025/26.

Table 3: Daily and Annual Waikanae River Abstractions

Period	1 July 2023 - 30 June 2024	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Maximum daily abstraction	19,423 m^3/day (on 6 December 2023)	15,722 m^3/day (on 16 February 2025)	16,779 m^3 (on 16 February 2026)
Maximum allowable daily volume permitted by Condition 5 of consent WGN130103 [34399]	30,700 m^3/day	30,700 m^3/day	30,700 m^3/day
Total annual abstraction volume	4,700,011 m^3	4,418,718 m^3	4,471,888 m^3
Equivalent average daily abstraction	12,842 m^3/day	12,106 m^3/day	12,252 m^3/day
Maximum total abstraction volume permitted by Condition 5 of consent WGN130103 [34399]	11,174,800 m^3/year	11,174,800 m^3/year	11,174,800 m^3/year

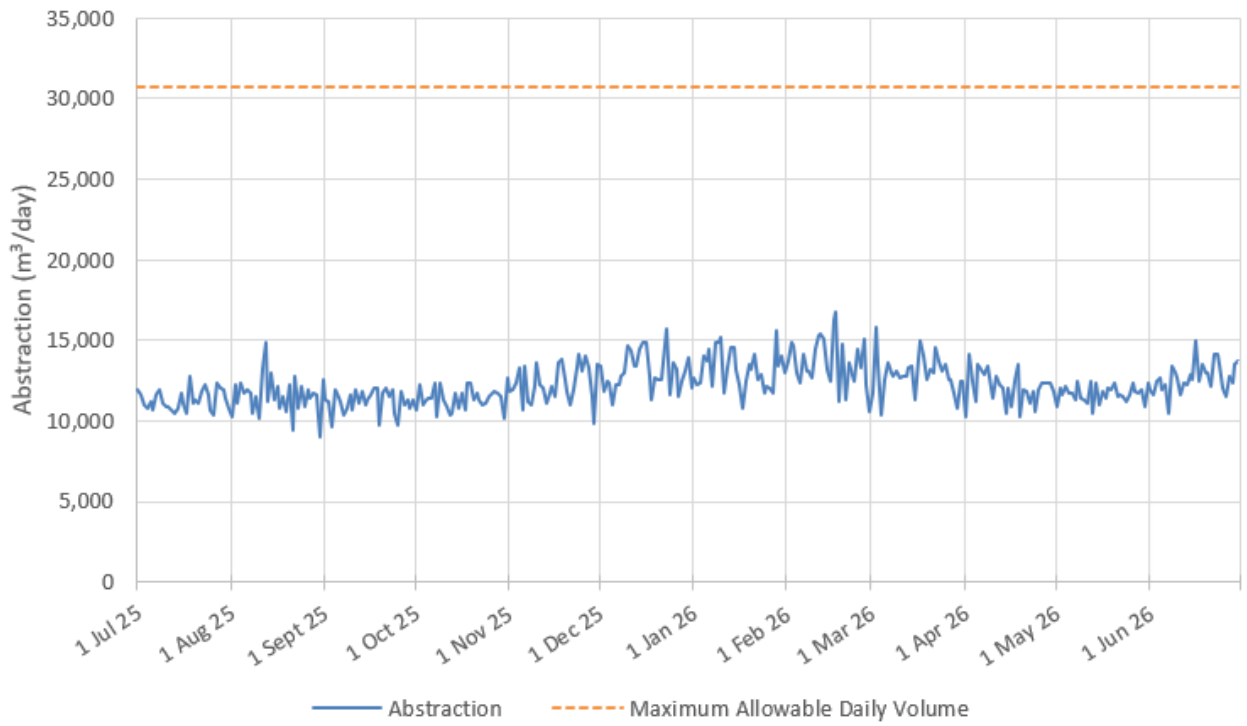


Figure 3: Waikanae WTP River Abstraction Volumes (m^3/day)

The instantaneous rates of abstraction (recorded at 15-minute intervals) for the reporting period are shown in **Table 4** and **Figure 4** below. The instantaneous abstraction rate was always within the consented limit.

Table 4: Instantaneous rates of abstraction from Waikanae River

Period	1 July 2023 - 30 June 2024	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Maximum abstraction rate	318 L/s (on 14 November 2023)	311 L/s (on 16 August 2024)	260 L/s (on 5 November 2025)
Maximum abstraction rate at time of maximum abstraction permitted by Condition 5 [34399]*	463 L/s	463 L/s	463 L/s

** 355 L/s when the flows in the river are below 1,400 L/s and 463 L/s when the flows in the river are above 1,400 L/s.*

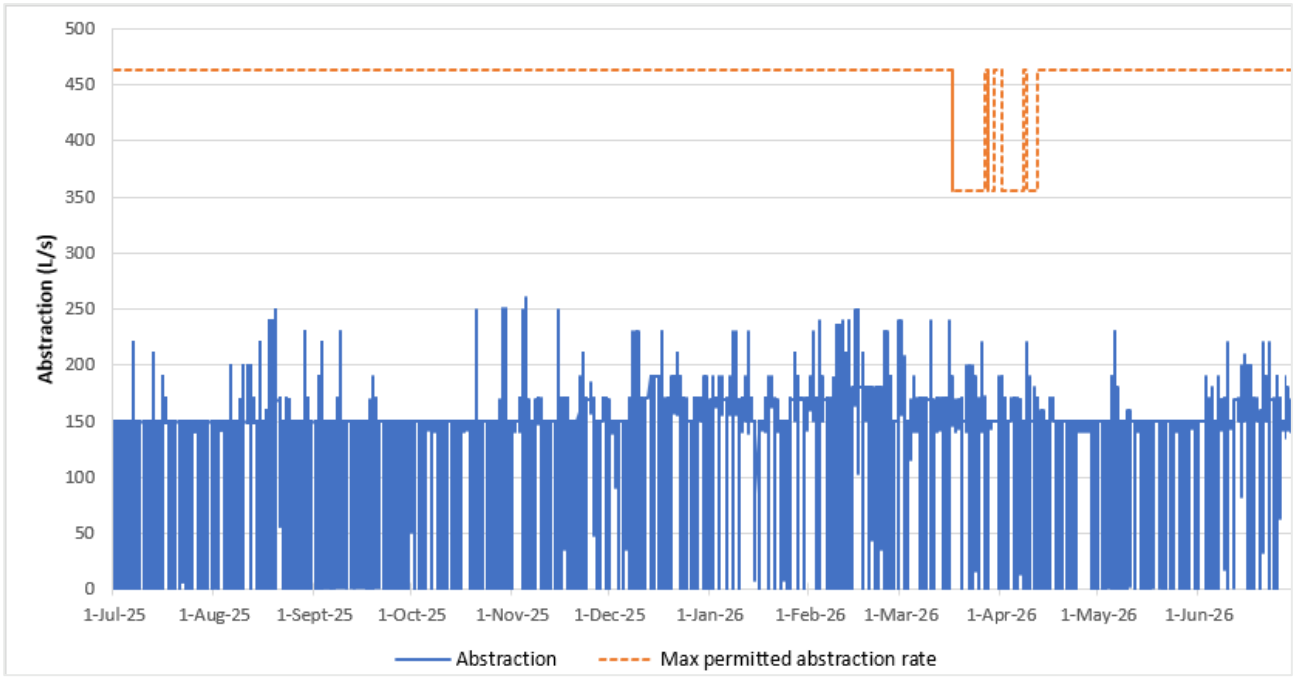


Figure 4: Waikanae WTP River Abstraction Rates (L/s)

2.3 River Recharge

No triggers or actions needed

River recharge is required when Waikanae River flows drop below 750 L/s, or below the natural upstream flow if it is less than 750 L/s, to maintain minimum downstream flow. Recharge is carried out in accordance with the approved Bore Preference Hierarchy Plan (BPHP) and Waikanae River Operational Management Plan (OMP).

Daily and instantaneous discharge volumes from the borefield to the river are presented in **Table 5** and shown in **Figure 5** and **Figure 6**. Recharge corresponding with low flow was not activated in 2025/26. The only recharge that occurred this year was discharges associated with bore testing and maintenance were within the limits for Short Duration Discharges, as defined by Consent WGN130103 [41285].

Table 5: River recharge discharges into the Waikanae River

Period	1 July 2023 - 30 June 2024	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Number of days of river recharge	No river recharge required, short-term discharges only	14 (excluding short-term)	No river recharge required, short-term discharges only
Maximum river recharge	2,901 m^3/day (on 12 October 2023)	3,853 m^3/day (on 2 April 2025)	2,996 m^3/day (on 10 July 2025)
Ecological monitoring trigger exceeded? *	Trigger not exceeded	Trigger not exceeded	Trigger not exceeded
Number of days of short duration discharges	16 days above 0 m^3/day 35 days above 1 m^3/day	13 days above 0 m^3/day 15 days above 1 m^3/day	14 days above 0 m^3/day 25 days above 1 m^3/day
Total volume of bore water discharged to the Waikanae River (river recharge and additional short-term discharges)	27,723 m^3	21,409 m^3	24,827 m^3

**recharge exceeds 225L/s for 48 hours or greater.*

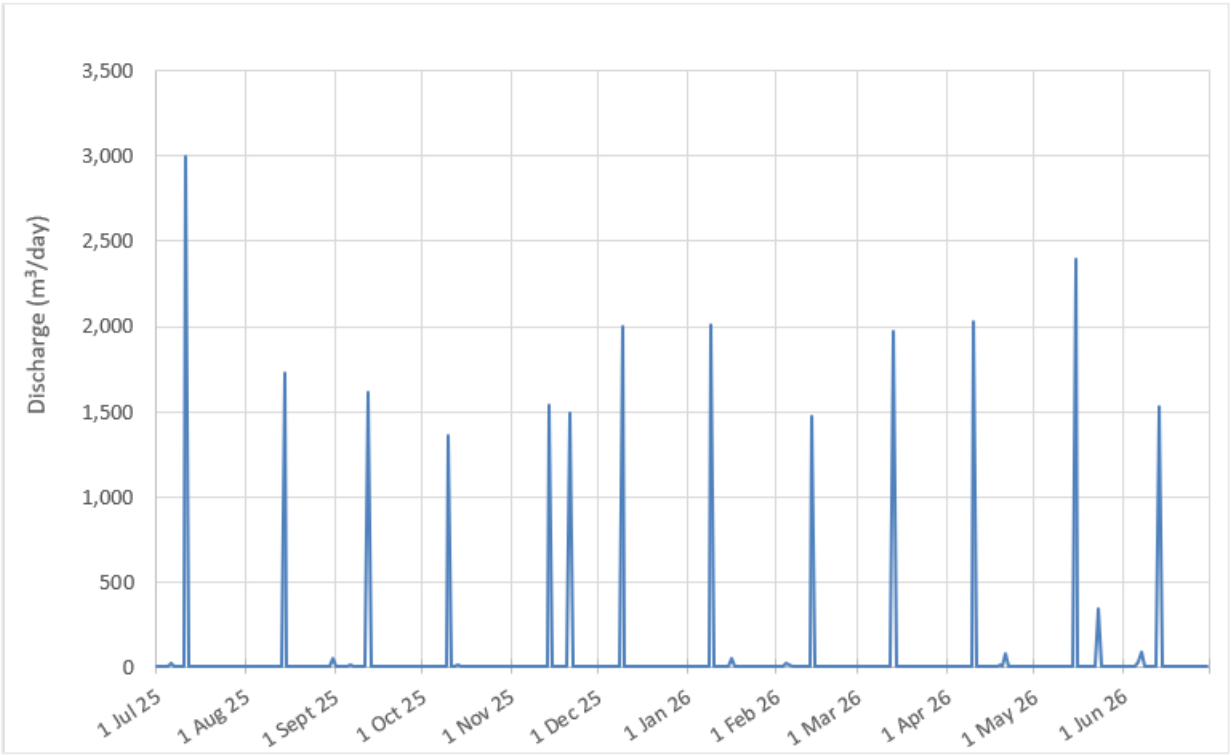


Figure 5: Daily Waikanae River Recharge (and Short Duration Discharges) for 2025/26 (m^3/day)

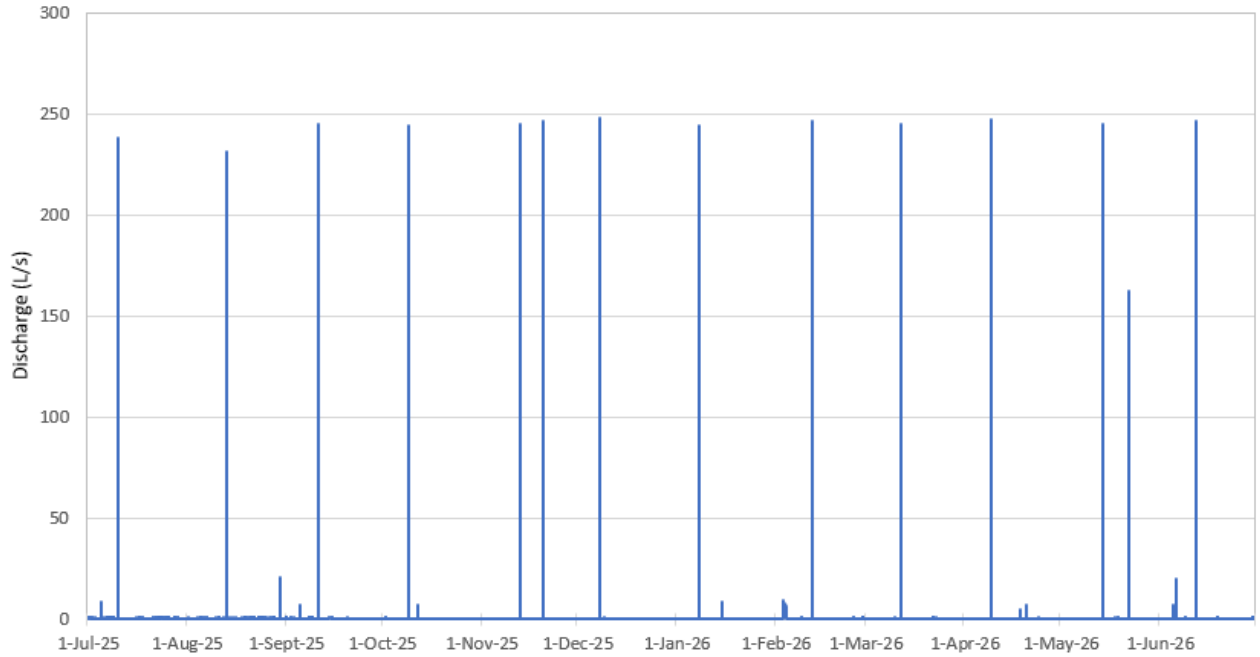


Figure 6: Instantaneous Waikanae River Recharge (and Short Duration Discharges) 2025/26 (L/s)

2.4 Downstream River Flows

No triggers or actions needed

In accordance with Condition 6 of consent WGN130103 [41284] and Condition 12 of WGN130103 [41285], the Council calculates the river flow immediately downstream of the Waikanae WTP's river recharge discharge structure. A minimum downstream flow of 750 L/s must be maintained, unless the natural upstream river flow falls below this level. Low-flow data for the downstream Waikanae River is provided in **Table 6**. The lowest downstream river flow in 2025/26 was 960 L/s on 7 April 2026.

Figure 7 shows the river flow at the GWRC gauging site upstream of the WTP (grey line), the WTP abstraction (yellow line), the river recharge (purple line) and the resulting calculated flow immediately downstream of the WTP (blue line) during the river recharge season of 2025/26 year.

Table 6: Downstream Waikanae River Flows

Period	1 July 2023 - 30 June 2024	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Lowest downstream river flow	1,113 L/s (on 19 July 2023)	753 L/s (on 29 March 2025)	960 L/s (on 7 April 2026)
Minimum flow of downstream river in accordance with Condition 6 of consent WGN130103 [34399] and condition 12 of WGN130103 [34400]*	750 L/s	750 L/s	750 L/s
Maximum percentage recharge flow of river flow downstream	17%	23%	16%

**750 L/s unless upstream flow naturally falls below this level*
***river re-gauging undertaken on this date by GWRC*

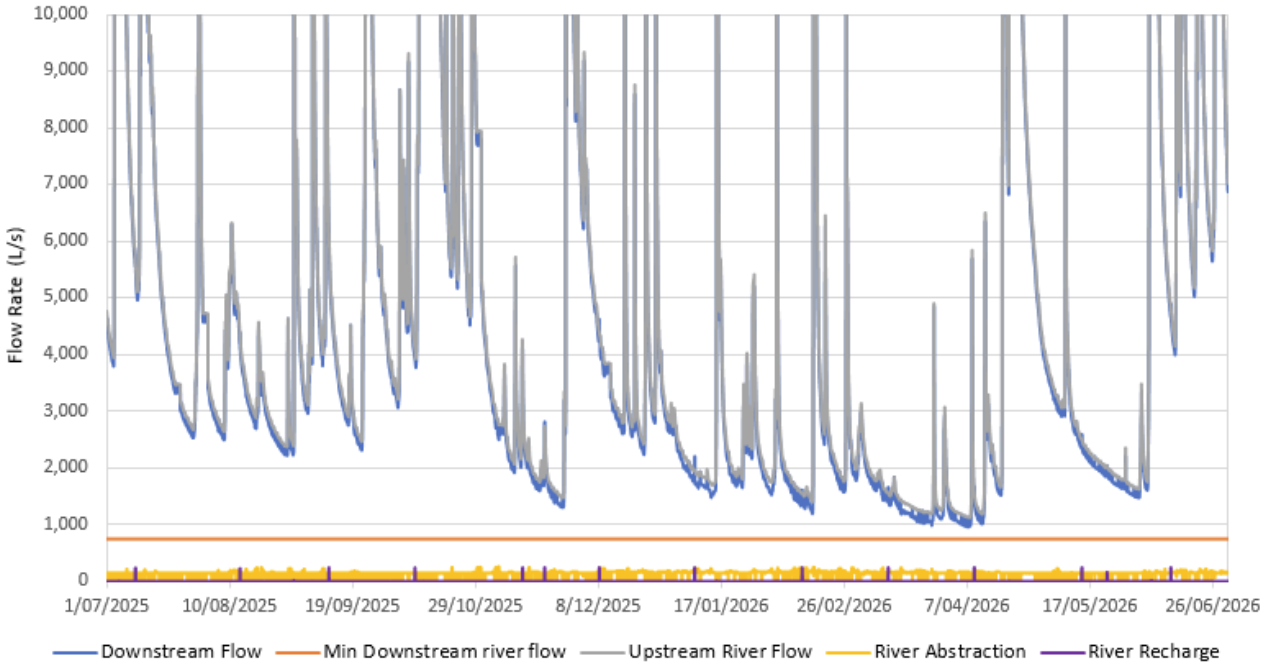


Figure 7: River flow upstream and downstream of WTP during low flow period December 2025 to February 2026.

2.5 River Aquatic Monitoring

No triggers or actions needed

Council amended the River OMP to update the monitoring requirements for periphyton, macroinvertebrates and water chemistry in 2025/26. The amendments were in response to a review of the periphyton trigger undertaken by Wildlands Consultants Limited on behalf of Council. The revised “alert” trigger is when river recharge exceeds 225 L/s for a total of 48 hours or more in a 4-day period. The trigger was not exceeded during the 2025/26 river recharge season, meaning monitoring was not required, as shown in **Table 7**.

Table 7: River aquatic monitoring undertaken

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Periphyton monitoring	Not required	Not required
Water Quality Sampling- DRP	Not required	Not required
Water Quality Sampling- Conductivity	Not required	Not required
Temperature	Not required	Not required

The 2025 updated River OMP now requires Council to undertake baseline MCI monitoring every 5-years. Baseline monitoring was originally assessed between 2014 to 2016. Council engaged Wildlands to update the baseline monitoring data for MCI during the 2025/26 monitoring season.

Monitoring was undertaken in March 2026, and the results are reported in the MCI monitoring report provided in **Appendix B**. The monitoring results showed reduced MCI scores compared to baseline sampling. The average MCI score in March 2026 was 114, compared to a range of 117-130 from the baseline monitoring. The reason for the difference is not known, but unlikely to be attributed to Scheme use given Council has only used the Scheme intermittently and at a very small scale over the previous 10-years.

Changes may instead be related to climatic and landscape-level changes in the catchment as it has been 10-years since baseline monitoring was undertaken. Changes between control and discharge sites were also consistent, further indicating changes are unrelated to Scheme use.

The report recommends that the baseline monitoring and OMP for the Waikanae River are updated to incorporate the reanalysed 2014-2016 data and the new 2026 data set. The report also recommends that future MCI monitoring is carried out concurrently with a round of periphyton monitoring to investigate a relationship between MCI metrics and periphyton levels. This will improve the ability to differentiate effects of the Scheme as opposed to impacts from changes in climate, land use, nutrient pollution or other factors. Council will seek to progress these recommendations in 2026/27.

The results were discussed at the annual meeting for the Adaptive Management Group. Members agreed that the change in MCI scores warrants further investigation. Potential contributing factors discussed included seasonal conditions, temperature, periphyton growth, and river levels. The group agreed that additional monitoring should be undertaken over successive years, including repeat sampling in 2026/27, to establish whether a pattern exists. The baseline would not be reset at this stage, with at least an additional year of data needed to determine if resetting the baseline is justified.

3 Waikanae Borefield

3.1 Abstraction Volumes and Rates

No triggers or actions needed

Abstraction from each production well (measured in litres per second (L/s) and cubic metres per day (m³/day)) is recorded in accordance with Conditions 13, 14, and 20 of consent WGN130103 [41283]. The Council automatically submits full abstraction data to GWRC via its SCADA system. A summary of the abstraction for 2025/26 is provided in **Table 8**, with total daily abstraction from the Waikanae Bore field shown in **Figure 8**.

Table 8: Total daily and annual volumes pumped from the production bores

Period	1 July 2023 - 30 June 2024	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Total annual volume pumped	19,801 m^3	44,127 m^3	22,484 m^3
Annual permitted volume (Condition 8 of WGN130103 [41283])	2,300,000 m³/year	2,300,000 m³/year	2,300,000 m³/year
Maximum total daily take volume and date	2,160 m^3 (on 12 October 2023)	3,126 m^3 (on 2 April 2025)	2,213 m^3 (on 10 July 2025)
Maximum daily take permitted by Condition 6 of WGN130103 [41283]	23,600 m³/day	23,600 m³/day	23,600 m³/day

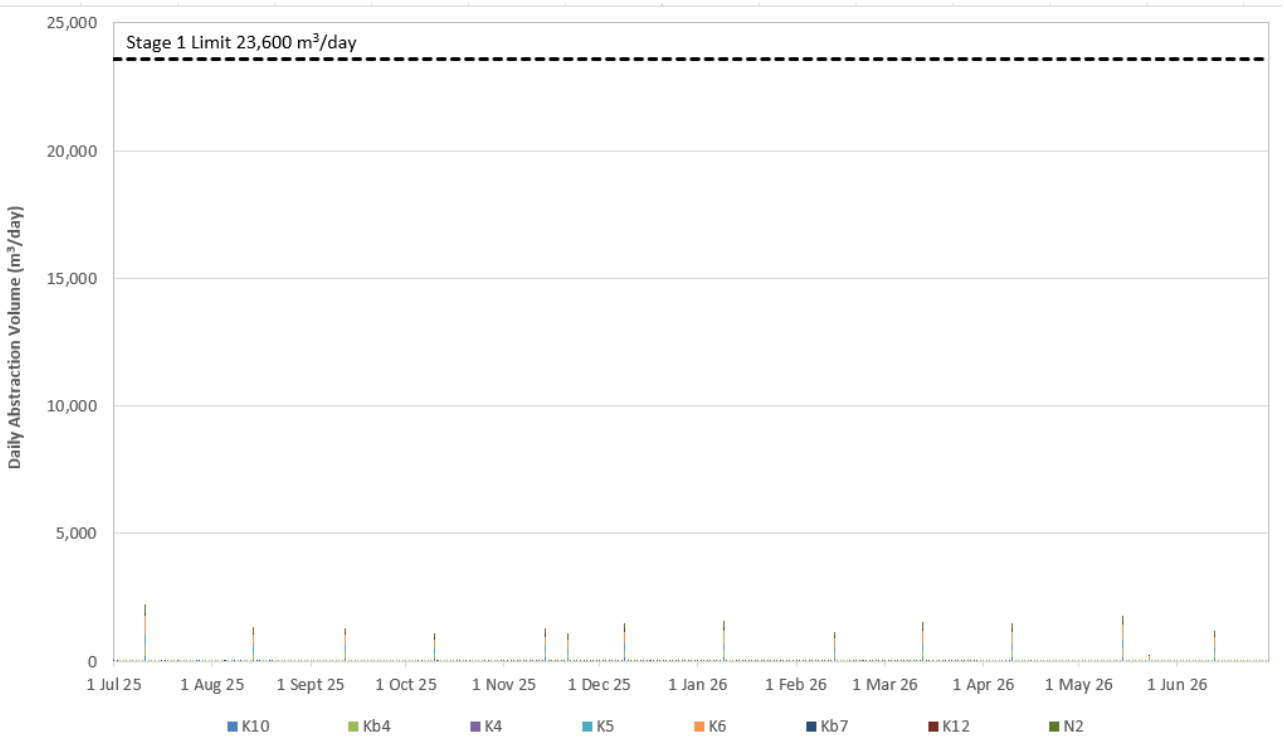


Figure 8: Daily Abstraction Volumes from Production Wells 2025/26

The total instantaneous abstraction rate from the production wells is shown in **Table 9** and plotted in **Figure 9**. The combined instantaneous abstraction from the borefield was below the maximum abstraction permitted by Condition 8 of WGN130103 [41283] during 2025/26.

Table 9: Total instantaneous abstraction rate from production wells

Period	1 July 2023 - 30 June 2024	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Maximum combined abstraction	254 L/s for 15 minutes on 9 August 2023	256 L/s for 15 minutes on 29 March 2025	249 L/s for 90 minutes of 8 December 2025
Maximum instantaneous abstraction permitted by Condition 8 of WGN130103 [41283].	273 L/s	273 L/s	273 L/s

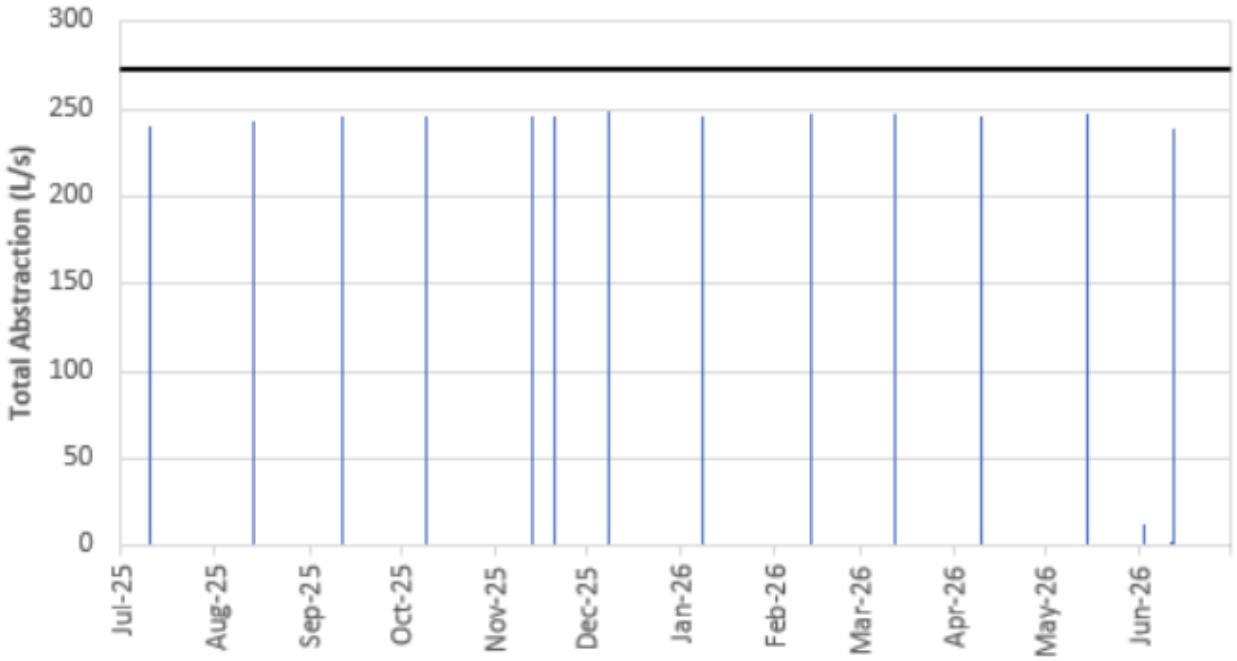


Figure 9: Total Instantaneous Abstraction from Production Wells

The maximum instantaneous abstraction rates for the individual production bores are detailed in **Table 10**. **Figure 10** on the following page shows the daily and cumulative recharge from the Scheme over the past 10 years. **Figure 10** shows the peaks of River Recharge Scheme use in 2018 and again in 2022, confirming the minimal use of the Scheme over the consent duration. The individual bore abstractions were below the Stage 1 maximum yield values in Condition 8 of WGN130103 [41283].

Table 10: Maximum Instantaneous abstraction rates for the individual production bores

Maximum instantaneous abstraction	Stage 1 Maximum yield (Condition 8 of WGN130103 [41283])	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
K10	36 L/s	17 L/s	17 L/s
Kb4	35 L/s	35 L/s	35 L/s
K4	65 L/s	63 L/s	63 L/s
K5	36 L/s	30 L/s	30 L/s
K6	58 L/s	57 L/s	57 L/s

Maximum instantaneous abstraction	Stage 1 Maximum yield (Condition 8 of WGN130103 [41283])	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Kb7	8 L/s	6 L/s	6 L/s
K12	10 L/s	8 L/s	8 L/s
N2	25 L/s	24 L/s	24 L/s

All individual bore abstractions were below the Stage 1 maximum yield values in Condition 8 of WGN130103 [34384].

3.2 Flow Gauging

No triggers or actions needed

Measurement of Waikanae River flows at Jim Cooke Memorial Park are undertaken when the borefield abstraction exceeds 23,000 m³/day for a three-day period as outlined in approved River and Borefield OMPs. As shown in **Table 11**, the trigger was not exceeded in 2025/26.

Table 11: Flow gauging of the Waikanae River

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Flow Gauging Trigger Status	Borefield abstraction of 23,000 m³/day for a three-day period was not exceeded.	Borefield abstraction of 23,000 m³/day for a three-day period was not exceeded.

3.3 Back-up Wells PW1 and PW5

No triggers or actions needed

Council holds a separate resource consent WGN050025 [33147] for two groundwater bores in Otaihanga (PW1 and PW5) for back up water supply. In 2025/26, PW1 and PW5 were not connected to the water reticulation system and were therefore not used. These bores have not been utilised since the Waikanae Bore field was commissioned in 2006 and are unlikely to be used in the foreseeable future. Both bores have had their chlorine dosing systems decommissioned, and their water meters are currently unvalidated. As such, additional work would be required to bring them into service for emergency potable water supply.

Table 12: Combined abstraction from wells PW1 and PW5 for back up public water supply to the surrounding communities

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Combined abstraction from wells PW1 and PW5	Wells not used for back up water supply	Wells not used for back up water supply.
Maximum combined abstraction permitted by Consent WGN050025 [33147].	7000 m³/day	7000 m³/day

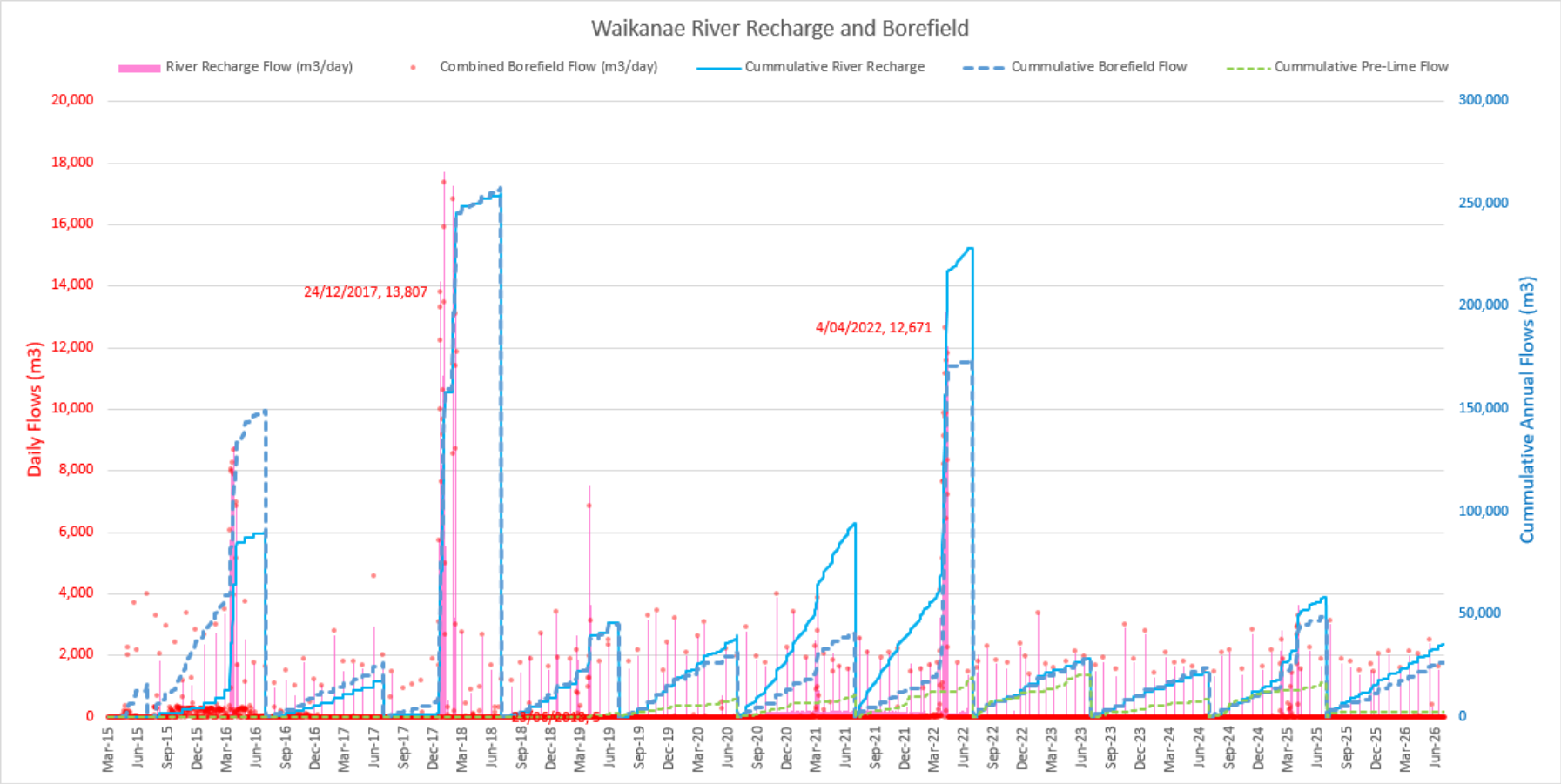


Figure 10: River Recharge Scheme use since 2015

3.4 Borefield Monitoring Programme

The Borefield Monitoring Programme is set out in the approved Borefield OMP. Note that the Council is only required to monitoring triggers during the river recharge season.

3.4.1 Shallow Aquifer Drawdown Monitoring

No triggers or actions needed

Table 13 below lists the shallow aquifer monitoring sites, the applicable trigger levels and the minimum water level (daily average) recorded during the monitoring period compared to last year.

Table 13: Shallow Aquifer Drawdown Monitoring Wells and Trigger Levels

Well Name	GWRC Bore Number	Trigger Level			Min level last monitoring period 2023/24 (mm AMSL)	Min level this monitoring period 2024/25 (mm AMSL)	Min level this monitoring period 2025/26 (mm AMSL
		Alert (mm AMSL)	Action (mm AMSL)	Cease (mm AMSL)			
KCDC K6 Obs Shallow	R26/6992	2180	1980	1780	3061	3059	3106
GWRC Nga Manu	R26/6991	7138	6938	6738	7798	7620	7927
KCDC W1	R26/7025	4350	4150	3950	4935	4953	4981
Waikanae CHP Shallow	R26/6916	1445	1245	1045	2187	2126	2361
K12 Obs Shallow, Smithfield Rd	R26/6300	5035	4835	4635	5493	5521	5648
JCMP Shallow, Jim Cooke Memorial Park	N/A	6641	6441	6241	7316	7353	7507
K3A Obs Shallow, Cemetery	R26/6290	6964	6764	6564	7715	7750	8014
Greenhill North Shallow, Greenhill Rd North	N/A	6387	6187	5987	6916	6918	7113
Greenhill South Shallow, Greenhill Rd South	N/A	11829	11629	11429	12500	12418	12759

Table 14 lists trigger notifications from shallow monitoring bores during the 2025/26 monitoring period. Council was notified of several trigger exceedances throughout the season. However, following investigation, all triggers were false alarms and due to maintenance or malfunctioning. Also, the Scheme did not operate in 2025/26.

Table 14: Shallow Aquifer Triggers

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Total number of notifications	21	4
Total number of actual triggers	0	0

3.4.2 Deep Aquifer Drawdown Monitoring

No triggers or actions needed

Table 15 lists the deep aquifer monitoring sites, the applicable trigger levels and the minimum water level (daily average) recorded during this year's monitoring period compared to last year.

Table 15: Deep Aquifer Drawdown Monitoring Wells and Trigger Levels

Well Name	GWRC Bore Number	Trigger Level			Min level monitoring period 2023/24 (mm AMSL)	Min level monitoring period 2024/25 (mm AMSL)	Min level monitoring period 2025/26 (mm AMSL)
		Alert [mm AMSL]	Action [mm AMSL]	Cease [mm AMSL]			
Sentinel #1 Deep, Rutherford Drive	R26/6378	-1537	-3787	-5475	3325	3157	3336
Sentinel #1 Intermediate, Rutherford Drive	N/A	-2526	-4776	-6463	1823	1815	1879
Sentinel #2 Deep, Hodgkins Rd	N/A	-898	-2698	-4048	2922	2887	2532
Sentinel #2 Intermediate, Hodgkins Rd	N/A	-1757	-3557	-4907	1798	1755	2013
Sentinel #3 Deep, Old WWTP	R26/6776	-2090	-4490	-6290	3118	2088	3307
Sentinel #3 Intermediate, Old WWTP	N/A	-2547	-4947	-6747	2126	1401	2226
Sentinel #4 Deep, Peka Peka Rd	N/A	1832	932	257	4027	3941	4170
Sentinel #4 Intermediate, Peka Peka Rd	N/A	284	-616	-1291	1988	1954	2260
Sentinel #5 Intermediate, Taiata St	R26/6955	-393	-1443	-2231	1821	1526	1887
Sentinel #5 Deep, Taiata St	N/A	19	-1031	-1819	2117	2112	2216
Sentinel #6 Deep, Tamati Place	N/A	560	-190	-752	2226	2150	2223
Sentinel #6 Intermediate, Tamati Place	N/A	599	-151	-714	2107	2118	2329
Waikanae CHP Deep	R26/6594	540	-510	-1298	2540	1515	2811
Waikanae Park	R26/6284	4611	2511	936	8602	8541	8901

Table 16 lists trigger notifications from deep monitoring bores during the 2025/26 monitoring period. Council was notified of several trigger exceedances throughout the year. However, following investigation, all triggers were false alarms and due to maintenance or malfunctioning. Also, the Scheme did not operate in 2025/26.

Table 16: Deep Aquifer Triggers

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Total number of notifications	7	4
Total number of actual triggers	0	0

3.4.3 Saline Intrusion Monitoring

No triggers or actions needed

Table 17 lists the saline intrusion monitoring sites, the applicable trigger levels and the maximum electrical conductivity (daily average) recorded during this year's monitoring period compared to last year.

Table 17: Saline Intrusion Monitoring Wells Electrical Conductivity Trigger Levels

Well Name	GWRC Bore Number	Trigger Level			Max monitoring period 2023/24 (µS/cm)	Max monitoring period 2024/25 (µS/cm)	Max this monitoring period 2025/26 (µS/cm)
		Alert (µS/cm)	Action (µS/cm)	Cease (µS/cm)			
Sentinel #1 Deep, Rutherford Drive	R26/6378	1500	1875	2188	1172	978	877
Sentinel #1 Intermediate, Rutherford Drive	N/A	521	651	760	404	455	396
Sentinel #2 Deep, Hodgkins Rd	N/A	1532	1915	2234	1242	1261	1214
Sentinel #2 Intermediate, Hodgkins Rd	N/A	1699	2124	2478	975	1040	1176
Sentinel #3 Deep, Old WWTP	R26/6776	1342	1677	1956	1027	883	1011
Sentinel #3 Intermediate, Old WWTP	N/A	2789	3486	4067	509	466	117
Sentinel #4 Deep, Peka Peka Rd	N/A	866	1082	1262	656	724	589
Sentinel #4 Intermediate, Peka Peka Rd	N/A	761	951	1110	687	595	658
Sentinel #5 Intermediate, Taiata St	R26/6955	3642	4553	5311	3596	2901	2786
Sentinel #5 Deep, Taiata St	N/A	5818	6518	7218	5122	4926	5402
Sentinel #6 Deep, Tamati Place	N/A	8693	9393	10093	7536	7136	7818
Sentinel #6 Intermediate, Tamati Place	N/A	1684	2105	2455	1617	829	868

Table 18 lists trigger notifications from saline intrusion monitoring bores during the 2025/26 river recharge season. Council was notified of several trigger exceedances throughout the year. However, following investigation, all triggers were false alarms and due to maintenance or malfunctioning. Also, the Scheme did not operate in 2025/26.

Table 18: Saline Intrusion Monitoring Triggers

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Total number of notifications	0	2
Total number of actual triggers	0	0

3.4.4 Summary of triggers

The OMPs require the Council to monitor triggers during the recharge season and report on these triggers to GWRC. The Council received a total of 43 notifications of a trigger event for the RRwGW monitoring wells during 2025/26. Of these, 10 notifications were received during the river recharge season (1 December to 30 April). **Table 19** summarises the in-season notifications, including the date, monitoring point and alert level.

In all cases a Council or GWRC monitoring asset was found to have failed, or it had been affected by a maintenance or power outage event.

Table 19: Summary of Notified Monitoring Point Failure Events

Date	Monitoring Bore	Alert Level
12/11/2025	Sentinel #4 Intermediate, Peka Peka Road Conductivity	1
14/11/2025	Sentinel #4 Intermediate, Peka Peka Road Conductivity	1
29/01/2026	Waikanae CHP Shallow Level	1-3
29/01/2026	Waikanae CHP Deep Level	1
4/02/2026	Waikanae Park Level	1-3
26/03/2026	KCDC W1 Level	1

3.5 Bore Water Quality Monitoring

No triggers or actions needed

3.5.1 Production Bores

Following the approved BoMM:

- Bore water quality samples are taken from production bores at the start of the abstraction season.
- Water quality sampling is compulsory at the conclusion of the monitoring season if the abstraction from the bore field reaches 23,000m³/day for three consecutive days or reaches a volumetric measure of 540,000m³ or more.

Bore water quality samples were taken from production bores at the start of the 2025/26 season. Bore Water Quality Sampling results from Eurofins' analysis of samples can be found in **Appendix E**. No non-compliance indicators are noted. The abstraction from production bores during 2025/26 did not exceed 23,000m³/day for three consecutive days or reach 540,000m³ or more, meaning monitoring at the conclusion of the season was not required.

3.5.2 Blended Bore Water

Blended Bore Water sampling is no longer required going as per the approved Borefield OMP.

3.6 Potentially Affected Existing Private Wells

Condition 7 of consent WGN130103 [34384] requires work to be undertaken to identify potentially affected existing authorised wells (and actions (b)-(d) listed in the condition) prior to implementing each stage of the project as referenced in Condition 6. GWRC confirmed on 21 July 2016 that Council has met all requirements of Condition 7 for Stage 1.A website provides groundwater level monitoring information as well as contact details if well users wish to discuss issues arising or make complaints. Refer to www.kapiticoast.govt.nz.

3.7 Complaints

Condition 45 of consent WGN130103 [34384] requires Council to maintain an on-going record of any complaints received alleging adverse effects from, or related to, abstraction from the Waikanae Borefield, including complaints of any adverse effects on private bores. Council did not receive any complaints in 2025/26.

4 Wetlands Monitoring

No triggers or actions needed

Wetland triggers are applicable to Nga Manu wetland as per the Wetland OMP.

Figure 11 shows the Nga Manu wetland groundwater levels for the wetland monitoring period (Dec 2025 – May 2026), including regression analysis of the trigger levels based on the district wide shallow groundwater effects. No trigger was exceeded in 2025/26. The next Wetland Condition Assessment is proposed for 2027/28 in line with the three-yearly schedule.

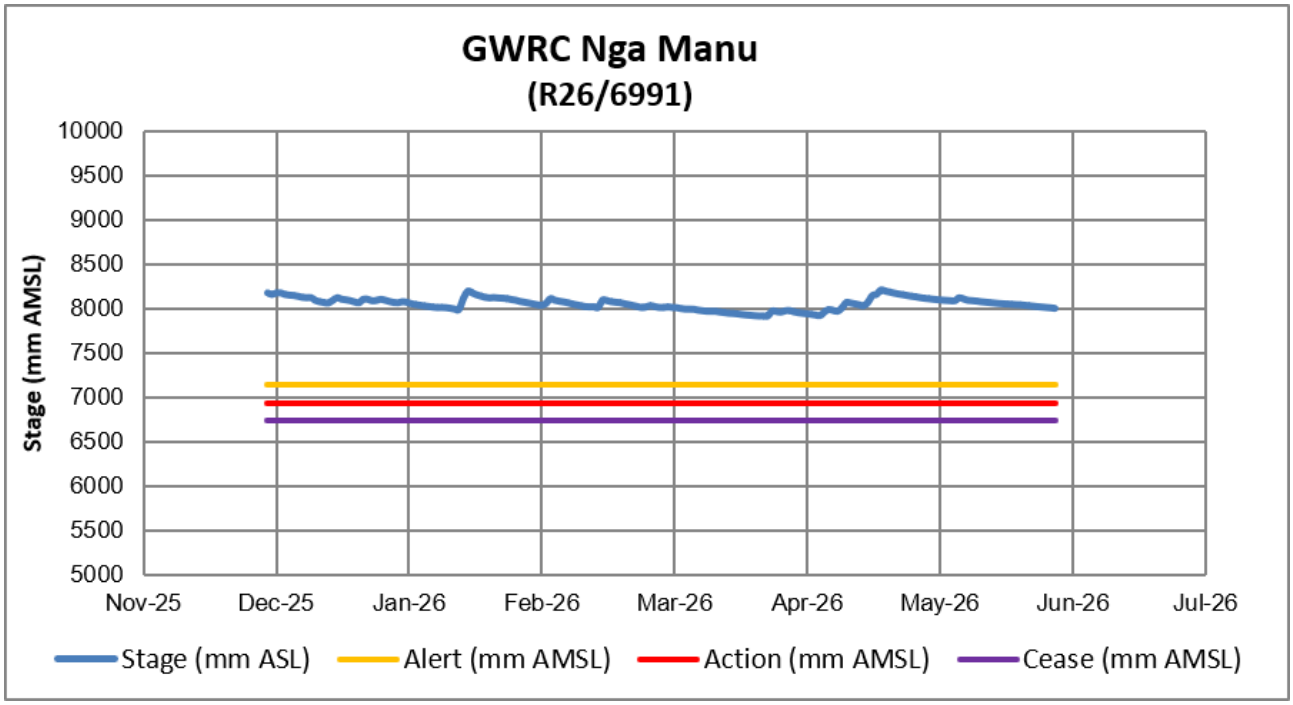


Figure 11: Nga Manu Wetland Regression Analysis

Te Harakeke wetland is to be included in an updated Wetland OMP if access can be regained. The number of notifications and actual triggers from the alarm notifications during the river recharge season are shown in **Table 20** (the analysis of these triggers is provided in **Table 19** in the previous section). As discussed, all notifications were due to technical faults with monitoring equipment, meaning no actual triggers were exceeded.

Table 20: Wetland Automated Triggers

Period	1 July 2024 - 30 June 2025	1 July 2025 - 30 June 2026
Total number of notifications	3	0
Total number of actual triggers	0	0

5 Small Coastal Streams Monitoring

No triggers or actions needed

One small coastal stream site, Ngārara Stream, has been monitored this year as defined in the Small Coastal Stream OMP. The required monitoring period is from 1 December 2025 to 1 May 2026. As per the Small Coastal Streams OMP, Council monitors the groundwater level using a shallow groundwater piezometer. Council now uses the average of each year mean annual low groundwater level (starting from 9 September 2022 and adjusted each year) to set:

- The Alert Level (mean annual low groundwater level)
- The Alarm Level (the MALGL less 50mm)
- The Cease Level (the MALGL less 100mm)

Figure 12 shows the groundwater level during the monitoring season. **Figure 12** shows that there were two periods when the stream dropped below the alert trigger of 2986mm. From 18 March 2026 to 26 March 2026 the level dropped to as low as 2969mm. The other period was between 4 April 2026 to 7 April 2026. During both periods, the bores were not taking water for the River Recharge scheme and had not been within the previous 15 days. As such, Council didn't further investigate the cause of the trigger exceedance because it was not related to Scheme use.

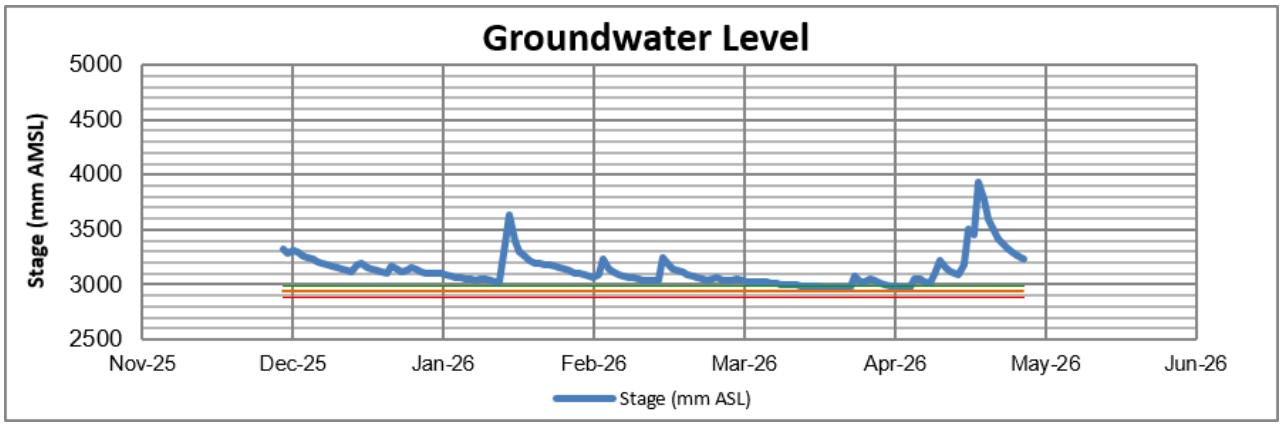


Figure 12: Ground water levels for Ngarara Small Coastal Stream

The triggers have been adjusted for the 2026/27 monitoring season based on the updated MALGL. **Table 21** provides the updated action and cease triggers for the 2026/27 river recharge season.

Table 21: Mean Annual Low Level Trigger Levels for Small Coastal Streams for 2026/27

Location	Trigger Level		
	Alert (mm -)	Action (mm -)	Cease (mm -)
Ngārara Groundwater Level (mm AMSL)	*2961	2911	2861

* Mean lowest annual water level since 9 September 2022

** Mean lowest annual water level since 9 September 2022, minus 50mm

*** Mean lowest annual water level since 9 September 2022, minus 100mm

6 Operations

6.1 Operations Log and Maintenance Undertaken

The Council has confirmed that its existing SCADA system together with the NCS system are an 'electronic data management system' that records and stores the information required by Condition 20 of consent WGN130103 [35973] and Condition 18 of consent WGN130103 [35974]. Bore field abstraction, river abstraction and river recharge data are automatically transmitted from Council's SCADA system to GWRC's Water Use Data Management System. The Council has implemented Water Outlook as a system to store and report data and operational information relating to the Waikanae Bore field. The Council is also using Water Outlook to store and report data and operational information relating to the Waikanae River take and recharge. A copy of the site logs for each production bore is included in **Appendix D**, which also includes the Waikanae River take and recharge operational records.

6.2 Operation and Maintenance Manuals

In 2025/26, Council submitted several amendments to the OMP's for GWRC approval. In summary:

- **Wetland OMP:** OMP was updated to include new location maps with new monitoring plot locations established by Wildlands in the 2024/25 monitoring round, and other minor updates.
- **Small Coast Streams OMP:** OMP was updated to refine the trigger response mechanisms and revise the mean lowest annual level for Ngārara Stream following September 2022, and minor updates.
- **River OMP:** OMP was updated following Wildlands' review of the methodology regarding periphyton and MCI sampling, and minor amendments.

GWRC certified the updated OMPs on 9 December 2025.

7 Mitigation/Adaptive Management

7.1 Overview

The Waikanae River Recharge consents are governed through an adaptive management approach, which is a structured, flexible approach to environmental management that allows for decision-making to evolve over time based on monitoring results and new information.

The Council has progressed several mitigation and adaptive management projects in 2025/26, including:

- Obtaining resource consent to delay the Performance Assessment Report (PAR) by three years to provide more time to collect robust data and increase Scheme use to inform the report.
- Updating three OMPs to reflect improved knowledge and/or data collection and collecting updated MCI baseline data.
- Obtaining the gravel extraction resource consent to ensure ongoing protection of the WTP intake.
- Preparing for fish passage improvements once Council undertakes gravel extraction under new consent, potentially in 2025/26 (with the intention of minimising streambed disturbance to one event for both gravel extraction and fish passage improvement activities)

This section provides a summary of these projects.

7.2 Performance Assessment Report

In 2023/24, the Council proposed extending the timeframe for the PAR to 7 April 2033 (i.e. three years). The reason for this extension is that the Council's water demand has been much lower than anticipated since the consents were granted. This has resulted in limited use of the Scheme over the consent term, and the Council is likely pushing out the requirement to expand to Stage 2 by 3-4 years. The Council also anticipates having minimal monitoring data to undertake the PAR in 2029, due to triggers not being exceeded. The purpose of the delay is therefore to better align with the Council's progression to Stage 2 of the Scheme and collect more trigger-related monitoring data to inform the PAR.

The Council submitted the s.127 resource consent application to GWRC in 2025/26. The resource consent was approved on 14 May 2026. This delay, along with the recent amendments to the OMPs to facilitate increased data collection, will ensure that Council has a robust dataset in the lead up to the PAR in 2033.

7.3 OMP Review and updated baseline data collection

As previously described in this report, Council updated three OMPs in 2024/25. Council also engaged Wildlands to update baseline monitoring data for MCI and periphyton. The March 2026 MCI monitoring recorded an average score of 114, lower than the baseline range of 117-130. However, given the Scheme has only been used intermittently and at low volumes over the past decade, the change is considered unlikely to be a result of Scheme operations. The Adaptive Management Group reviewed the findings and agreed that the results warrant further investigation but that there is currently insufficient evidence to justify resetting the baseline. Repeat MCI sampling is therefore proposed for 2026/27 monitoring season to better understand the drivers of the observed changes and distinguish any potential Scheme effects from wider environmental trends. The sampling would also provide more confidence that, when the Scheme is operating, the effects of Scheme use can be distinguished from other causes.

7.4 Waikanae Intake Gravel Extraction & Fish Passage

GWRC granted a replacement resource consent on 5 March 2026 for Council to continue extracting gravel from the bed of the Waikanae River to protect the Waikanae River intake. The resource consent (WGN250135) authorises the Council to remove up to 750m^3 of gravel per year from upstream of the Waikanae Water Treatment Plant (WTP) intake structure and deposit it downstream of the main weir to maintain river flows into the WTP intake structure.

Council is required to extract all gravel in accordance with the approved Fish Management Plan (FMP) and includes the following requirements:

- Council must notify Te Ātiawa ki Whakarongotai Charitable Trust and Wellington Fish & Game Council prior to undertaking works.
- Council must de-fish the affected reach prior to undertaking works, which includes use of an electric fishing machine (EFM), which requires license from Wellington Fish & Game Council.
- Council must avoid undertaking works during the native bird nesting season (1 August to 28 February), unless necessary to reduce the risk of gravel entering the intake structure (for any works during the season, Council must follow a specific process to protect bird habitat).

Council has not determined when gravel extraction will be required. However, staff's intention is to undertake gravel extraction and fish passage improvements at the same time, to minimise the requirement for excavators and machinery in the riverbed.

7.5 Recommendations of the Adaptive Management Group

The Adaptive Management Group (AMG) for the RRwGW scheme comprises representatives of Council, GWRC and Te Ātiawa ki Whakarongotai and any other key stakeholders as determined appropriate, which includes Wellington Fish and Game Council, Department of Conservation, Regional Public Health and Friends of the Waikanae River.

The AMG met on 29 September 2026 to discuss the Annual Waikanae River Recharge Report and the Water Conservation Report. At the meeting, the AMG agreed that repeat MCI sampling should be undertaken in 2026/27 to better understand the observed changes and distinguish any potential Scheme effects from wider environmental trends. The results of the monitoring will be reported in the 2026/27 Annual Report. The AMG also discussed data availability for the Waikanae River, including establishing a central location for comparing relevant data, and the linkages between the ecological monitoring programme and cultural values indicators.

Appendix A

Consent Requirements and Documents

An annual Waikanae River, Recharge and Borefield report is required by Condition 42 of consent WGN130103 [41283], Condition 24 of consent WGN130103 [41284] and Condition 26 of consent WGN130103 [41285]. This report to Greater Wellington Regional Council (GWRC) covers the period from 1 July 2017 through to 30 June 2018. The requirements of these conditions are listed in the tables below (Table 23, Table 24, and Table 25) with cross-references to the relevant sections in this report.

Table 22: Requirements for Annual Waikanae River report

Condition 24 of Consent WGN130103 [41284]	Section in this Annual Report
The consent holder shall, by 30th September each year, submit an Annual Waikanae River report to the Manager, or by another date as agreed with the Manager. The annual Waikanae River report shall report on the year 1 July to 30 June inclusive, and include the following information:	
a) Records of the instantaneous rate of take (L/s), and total daily volumes (m^3);	Section 2.2
b) Flow and river recharge information to demonstrate compliance with Condition 6 (Waikanae River low flow);	Sections 2.1, 2.3 and 2.4
c) Provide information to demonstrate compliance with Condition 18 of this consent	Sections 2.1, 2.2 and Section 6.1
d) Results of all monitoring undertaken that year required by Conditions 19, 20 and 21 of this consent (if applicable), including a comprehensive analysis of the monitoring results, assessment against any relevant guidelines and comparison with previous years' results (i.e. trend analysis);*	Section 2.5 and Section 3.2
e) Details of any trigger levels or compliance limits that were reached (if occurred that year);	Section 2.5
f) Details of any actions and/or mitigation/adaptive management taken in response to trigger levels or compliance limits being reached, including an assessment of the effectiveness of these actions and/or mitigation/adaptive management;	Section 2.5 and Section 3.2
g) Any recommendations for changes to the Waikanae River Baseline Monitoring Plan or the On-going Mitigation Plan (as relevant), including triggers, compliance limits or actions and/or mitigation measures or changes to the operations and maintenance manual, including recommendations of the Adaptive Management Group (referred to in Condition 26 of this consent);	Section 6.2 and Section 7, 7.1.1 and 7.2
h) A discussion on any mitigation/adaptive management that may be required in the coming year;	Section 7
i) Summary of any maintenance undertaken.	Section 6.1
The annual Waikanae River report can be combined with the annual River Recharge report required by the conditions of discharge permit WGN130103 [41285]. The annual Waikanae River report shall be made available to the public on the Kāpiti Coast District Council website no later than 30 September each year, or by another date as agreed with the Manager. Note: The consent holder is only required to report on the listed requirements of this condition if they have occurred during that compliance year (1 July to 30 June inclusive). Note: The consent holder may request, with the Manager's approval, an extension of time to submit the annual report to the Manager and make it available to the public on the website, if the Adaptive Management Group requires more time to consider the draft annual report and provide their recommendations as required by part (g) of this condition.	Refer www.kapiticoast.govt.nz

**Conditions 19 and 20 due to completion of Baseline monitoring*

Table 23: Requirements for Annual River Recharge report

Condition 26 of Consent WGN130103 [41285]	Section in this Annual Report
The consent holder shall, no later than 30 September each year that a discharge to the River occurs, submit an annual River Recharge report to the Manager, or by another date as agreed with the Manager. The annual River Recharge report shall report on the year 1 July to 30 June inclusive, and include the following information:	
a) Records of the instantaneous rate of discharge (L/s), and total daily volumes (m^3) of discharge	Section 2.3
b) Dates, times and duration of discharge	Section 2.3
c) Information to demonstrate compliance with the rate of discharge specified in Condition 5	Section 2.3
d) Flow and river recharge information to demonstrate compliance with the Waikanae River low flow specified in Condition 12 of this consent	Section 2.4
e) Results of all monitoring undertaken that year required by Conditions 22* or 23 of this consent (if applicable), including a comprehensive analysis of the monitoring results, assessment against any relevant guidelines and comparison with previous years' results (i.e. trend analysis)	Section 2.5 and Section 3.2
f) Details of any trigger levels or compliance limits that were reached (if occurred that year)	Section 2.5
g) Details of any actions and/or mitigation/adaptive management taken in response to trigger levels or compliance limits being reached, including an assessment of the effectiveness of these actions and/or mitigation/adaptive management	Section 2.5 and Section 3.2
h) Any recommendations for changes to the Waikanae River Baseline Monitoring Plan or the On-going Mitigation Plan as relevant), including triggers, compliance limits or actions and/or mitigation measures or changes to the operations and maintenance manual, required by Condition 17 to be discussed with the Adaptive Management Group (as required by Condition 27 of this consent)	Section 6.2 and Section 7, 7.1.1 and 7.2
i) A discussion on any mitigation/adaptive management that may be required in the coming year	Section 7
j) Summary of any maintenance undertaken	Section 6.1
The annual River Recharge report may be combined with the annual Waikanae River report required by consent WGN130103 [41285]. The annual River Recharge River report shall be made available to the public on the Kāpiti Coast District Council website by 30 September each year, or by another date as agreed with the Manager. Note: The consent holder may request, with the Manager's approval, an extension of time to submit the annual report to the Manager and make it available to the public on the website, if the Adaptive Management Group requires more time to consider the draft annual report and provide their recommendations as required by part (g) of this condition.	Refer www.kapiticoast.govt.nz

**Condition 22 is not applicable due to completion of Baseline monitoring.*

Table 24: Requirements for Annual Waikanae Borefield report

Condition 42 of Consent WGN130103 [41283]	Section in this Annual Report
The consent holder shall, by 30 September each year, submit an annual Waikanae Borefield report to the Manager, or by another date as agreed with the Manager. The annual Waikanae Borefield report shall report on the year 1 July to 30 June inclusive, and include the following information:	
a) A copy of the records to demonstrate compliance with Condition 20 of this consent;	Sections 3.1 and 3.3
b) Details of the use (including daily and total volumes of groundwater abstracted) and reasons for that use of the water from the Borefield;	Section 3.1
c) A summary of Waikanae River flow gauging required by Condition 25 of this consent, if undertaken that year; *	Section 3.2
d) Results of all monitoring undertaken that year required by conditions of this consent (if applicable), including a comprehensive analysis of the monitoring results, assessment against any relevant guidelines and comparison with previous years' results (i.e. trend analysis);	Sections 3, 4 and 5
e) Results or evidence to demonstrate compliance with Condition 7 of this consent	Section 3.6
f) Details of any trigger levels or compliance limits that were reached (if occurred that year) and specifically the findings of saline monitoring compared with the 'alert', 'action' or 'cease' triggers;	Sections 3 and 4
g) Details of any actions and/or mitigation/adaptive management taken in response to trigger levels or compliance limits being reached, including an assessment of the effectiveness of these actions and/or mitigation/adaptive management;	Sections 3, 4 and 5
h) Any recommendations for changes to the monitoring plan required by conditions of this consent, including triggers, compliance limits or actions and/or mitigation measures or changes to the operations and maintenance manual, required by Condition 19 of this consent, including any recommendations of the Adaptive Management Committee (referred to in Condition 43 of this consent);	Section 6.2, Section 7.1.2, 7.1.3, 7.1.4, and 7.2
i) A discussion on any mitigation/adaptive management that may be required in the coming year;	Section 7
j) A copy of the complaints record required by Condition 45 of this consent;	Section 3.7
k) Summary of any maintenance undertaken.	Section 6.1
The annual Waikanae Borefield report shall be made available to the public on the Kāpiti Coast District Council website by 30 September each year, or by another date as agreed with the Manager. Note: The consent holder may request, with the Manager's approval, an extension of time to submit the annual report to the Manager and make it available to the public on the website, if the Adaptive Management Group requires more time to consider the draft annual report and provide their recommendations as required by part (h) of this condition.	Refer www.kapiticoast.govt.nz

** Condition that may change following S127*

In addition to the above consents, Council holds resource consent WGN050025 [33147] to abstract groundwater from two wells (PW1 and PW5) for the purpose of back up water supply for the communities of Waikanae, Paraparaumu and Raumati. Requirements of Condition 15 are discussed in Section 4.6

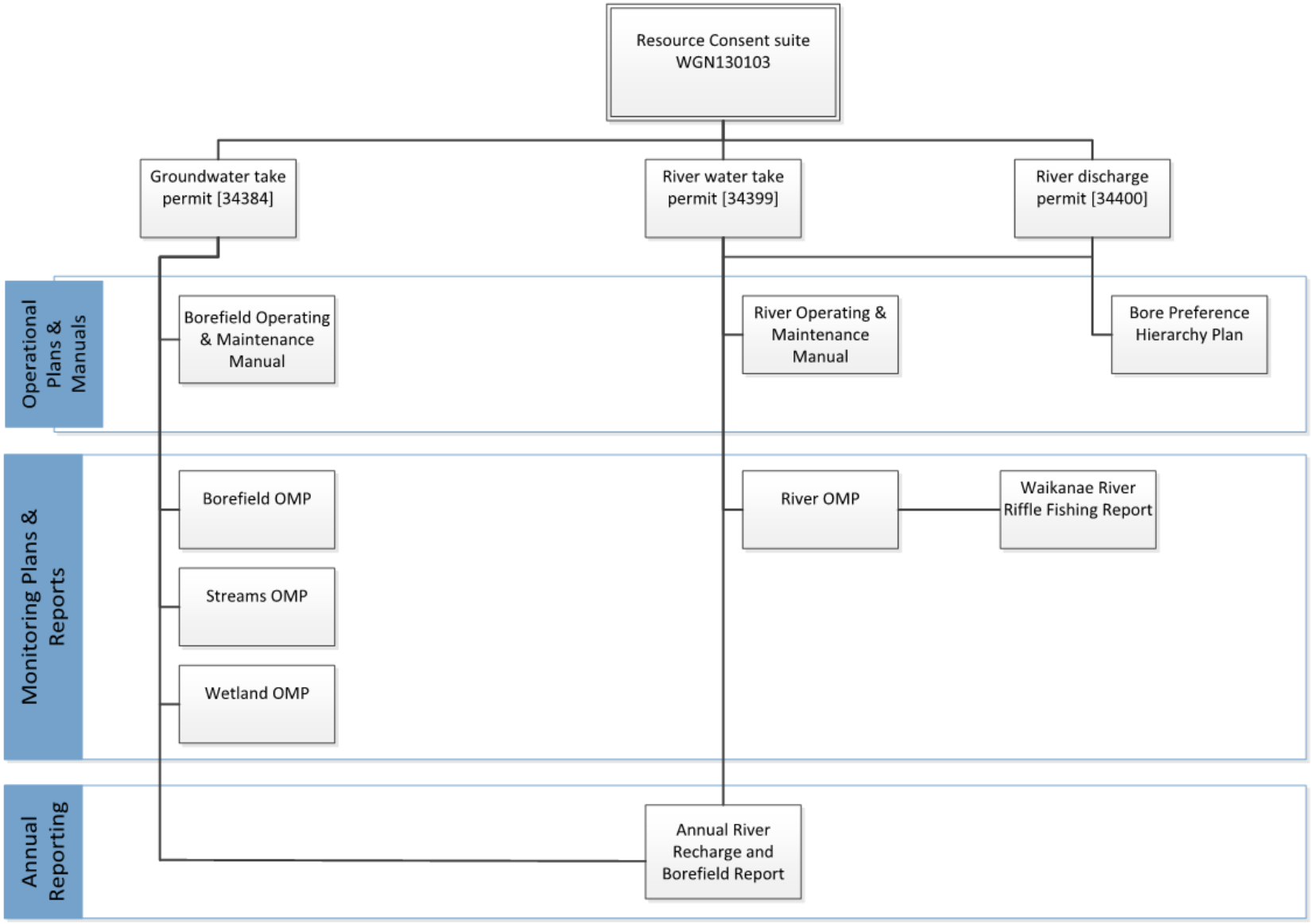


Figure 13: Key documents for RRwGW consent and ongoing monitoring

Appendix B

Macroinvertebrates Monitoring Report, March 2026

River Recharge With Groundwater: Waikanae River 2026 Baseline Macroinvertebrate Monitoring

Prepared for:	Kāpiti Coast District Council	Reviewed and approved for release by:	Justyna Giejsztowt Principal Ecologist – Biodiversity and Modelling Specialist
Author:	Lily Tidwell, Richard Storey		
Report No:	7086e		
Date:	April 2026		

1.0 Background

The Waikanae River Recharge with Groundwater (RRwGW) scheme (consent WGN130103 [35973]) authorises Kāpiti Coast District Council (KCDC) to take surface water from the Waikanae River, then recharge the river with groundwater to maintain a minimum flow of 750 L/s at the water treatment plant (unless the river naturally drops below this level). Though introducing groundwater to the river may provide some water quality benefits (e.g. cooling), differences in the chemical composition of the groundwater may cause adverse effects to river ecology, especially during periods of low flow when greater relative amounts of groundwater may be introduced.

As part of the supporting information for the consent application, KCDC accepted that the investigation work undertaken as part of the consenting of the scheme could not precisely predict actual effects on the environment. Accordingly, KCDC enacted a programme of baseline measures to inform ongoing monitoring plans (OMPs) to help further understand potential environmental effects. OMPs were originally prepared by Boffa Miskell Ltd in 2014 and then reviewed and updated by Wildland Consultants Ltd (Wildlands) in 2025. Monitoring in the Waikanae River includes flow, water quality, periphyton, and macroinvertebrates, with triggers for "alert levels" when recharge is operating and periphyton cover of the river bed exceeds certain levels (Wildland Consultants 2025). To date none of the trigger levels have been exceeded.

Baseline data for macroinvertebrate metrics was collected by Boffa Miskell on six sampling occasions between 2014 and 2016. Because the latest data in this series are now 10 years old, Wildland Consultants (2025) recommended collecting additional baseline macroinvertebrate data in early 2026 to ensure there had not been a significant shift in macroinvertebrate metrics since 2016. Provided the new data do not indicate a significant shift in the baseline, they are intended to be added to the earlier data series, with the baseline being determined from the average and range of all data.

Previous baseline monitoring assessed the levels of macroinvertebrate metrics at low and medium periphyton levels, but not at high periphyton levels as none occurred during the sampling period. Boffa Miskell (2017) concluded that the proportional abundance of some taxa in the macroinvertebrate community varied with low vs. medium periphyton levels, but macroinvertebrate metric scores did not vary between sites, across sampling sessions, or across periphyton levels. However, the statistical analyses used to make these conclusions lacked statistical power as samples were treated as independent rather than as repeat samples at the same sites over time. For this reason, the original 2014-2016 baseline data have been reassessed as part of the new 2026 baseline monitoring.

2.0 Scope

The scope of the RRwGW baseline macroinvertebrate monitoring and reassessment is to:

- Provide current (2026) values of baseline macroinvertebrate metrics for control and recharge monitoring sites.
- Reassess previous (2014-2016) baseline data using appropriate statistical models.
- Determine whether there are significant differences between baseline (no groundwater input) control and recharge monitoring sites.
- Compare 2026 macroinvertebrate baseline metrics to previous (2014-2016) baseline data.
- Recommend any further changes to macroinvertebrate monitoring protocols for the Waikanae River OMP.

3.0 Methods

Macroinvertebrates were sampled at all five sites (control sites: C1-2 and recharge sites: R1-3) on 19 March 2026. Three replicate samples per site were collected using the quantitative sampling method for hard-bottomed streams (NEMS 2022). Replicates were analysed separately using the "200+ fixed count with scan for missed taxa" method (NEMS 2022[1]). Macroinvertebrate metrics calculated for each site included Macroinvertebrate Community Index (MCI), Quantitative Macroinvertebrate Community Index (QMCI), EPT richness, % EPT abundance, and Average Score Per Metric (ASPM).

EPT is an acronym for the three main orders of pollution-sensitive aquatic insects - Ephemeroptera (mayflies), Plecoptera (stoneflies), and Trichoptera (caddisflies). Because these insects are generally sensitive to water quality and habitat quality, their richness (number of species) and abundance are useful measures of stream health.

Values were assigned scores of excellent, good, fair, or poor as per the National Policy Statement for Freshwater Management (2020; NPS-FM); attribute bands are described in Tables 1 and 2.

Table 1 – Attribute bands for Quantitative Macroinvertebrate Community Index (QMCI) and Macroinvertebrate Community Index (MCI) scores (NPS-FM 2020).

Score	QMCI	MCI	Description
A – Excellent	≥6.5	≥130	Macroinvertebrate community indicative of pristine conditions with almost no organic pollution or nutrient enrichment.
B – Good	5.5 – 6.5	110 – 129	Macroinvertebrate community indicative of mild organic pollution or nutrient enrichment. Largely composed of taxa sensitive to organic pollution/nutrient enrichment.
C – Fair	4.5 – 5.4	90 – 110	Macroinvertebrate community indicative of moderate organic pollution or nutrient enrichment. There is a mix of taxa sensitive and insensitive to organic pollution/nutrient enrichment.
D – Poor	<4.5	<90	Macroinvertebrate community indicative of severe organic pollution or nutrient enrichment. Communities are largely composed of taxa insensitive to inorganic pollution/nutrient enrichment.

[1] The NEMS standardised methods were published after the original baseline report (Boffa Miskell 2017). The 2017 report utilised methods published in Stark *et al.* 2001; the differences in these methods are very minor and not relevant to this assessment.

Table 2 – Attribute bands for Average Score Per Metric (ASPM; NPS-FM 2020).

Score	ASPM	Description
A – Excellent	≥0.6	Macroinvertebrate communities have high ecological integrity, similar to that expected in reference conditions.
B – Good	0.4 – 0.6	Macroinvertebrate communities have mild-to-moderate loss of ecological integrity.
C – Fair	0.3 - 0.4	Macroinvertebrate communities have moderate-to-severe loss of ecological integrity.
D – Poor	<0.3	Macroinvertebrate communities have severe loss of ecological integrity.

A generalised linear mixed model (GLMM) was used to compare March 2026 data to data from previous sampling events for EPT richness, MCI and QMCI scores. In this model, sampling event was a fixed factor, and site was a random factor. The model used a Gaussian (normal) distribution family and an identity link function. Another GLMM was used to determine whether there was a significant difference between sites over all sampling events. In this model, site was a fixed factor and sampling event year was a random factor.

4.0 Results

4.1 March 2026 results

4.1.1 River flows prior to sampling

Between 1 January 2026 and 19 March 2026 (when macroinvertebrates were sampled) there were four high flow events exceeding three times the median flow (flows exceeding three times the median flow are considered to cause significant scouring of periphyton and macroinvertebrates from stream beds). The largest of these flow events, on 15 January, was approximately 25 times the median flow, and the most recent event prior to sampling, on 26 February, was 5.6 times the median flow. For sampling purposes, macroinvertebrates are normally expected to recover within three weeks of a high flow event. Therefore, although there were several high flow events during the 10 weeks prior to sampling, macroinvertebrate metrics are not expected to have been greatly affected by high flows.

4.1.2 Periphyton

Although periphyton was not formally surveyed as part of the macroinvertebrate monitoring, it appears in site photographs that periphyton cover was low at all sites. This is likely in part due to the high flow events during the weeks prior to sampling.

4.1.3 Macroinvertebrate metrics

The macroinvertebrate metric scores from the March 2026 sampling are shown in Table 3 and Figures 1–3.

MCI scores ranged from 109 at site R1 to 121 at site C2. The two control sites had slightly higher MCI scores than the three recharge sites but no significant difference between sites was found ($F = 2.12$, $df = 4,10$, $p = 0.15$).

QMCI scores ranged from 3.30 at site R1 to 5.26 at site C1. Differences among the five sites were statistically significant ($F = 585$, $df = 4,10$, $p < 0.001$), however, no significant difference was found between control and recharge sites overall ($t = 0.474$, $df = 3$, $p = 0.67$).

EPT richness ranged from five taxa at site R1 to ten taxa at site C1. Differences among the five sites were statistically significant (F=6.86, df=4,10, *p*=0.006), but no significant difference was found between control and recharge sites overall (t = 2.16, df = 3, *p* = 0.119).

Across all the measured metrics, site R1 had the lowest scores, but the other two recharge sites had scores that were equivalent to, or only slightly lower than, the control sites.

Table 3: March 2026 scores for macroinvertebrate metrics at all RRwGW monitoring sites. Colours indicate attribute bands as described in Tables 2 and 3.

Metric	C1	C2	R1	R2	R3
Average of total abundance	228	365	478	185	228
Average of % EPT abundance	50%	27%	22%	56%	42%
Average of taxa richness	18	16	14	13	13
Average of EPT richness	10	9	5	7	8
Average of MCI score	116	121	109	110	114
Average of QMCI score	5.26	3.92	3.30	5.40	3.70
Average of ASPM	0.478	0.390	0.317	0.457	0.423

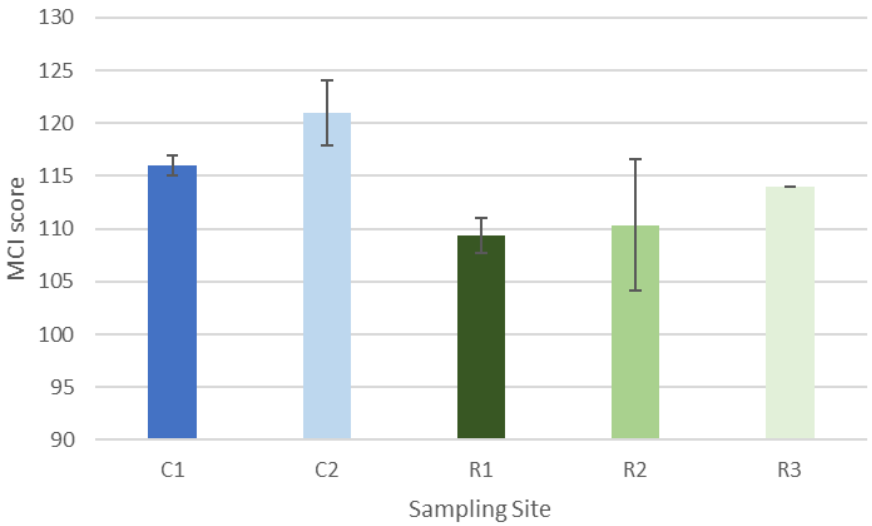


Figure 1 – Macroinvertebrate Community Index (MCI) scores for March 2026 samples.

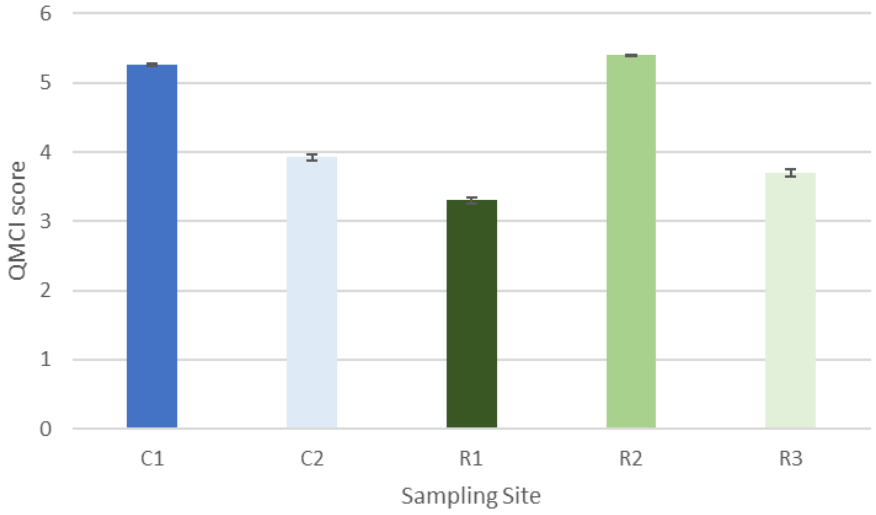


Figure 2 – Quantitative Macroinvertebrate Community Index (QMCI) scores for March 2026 samples.

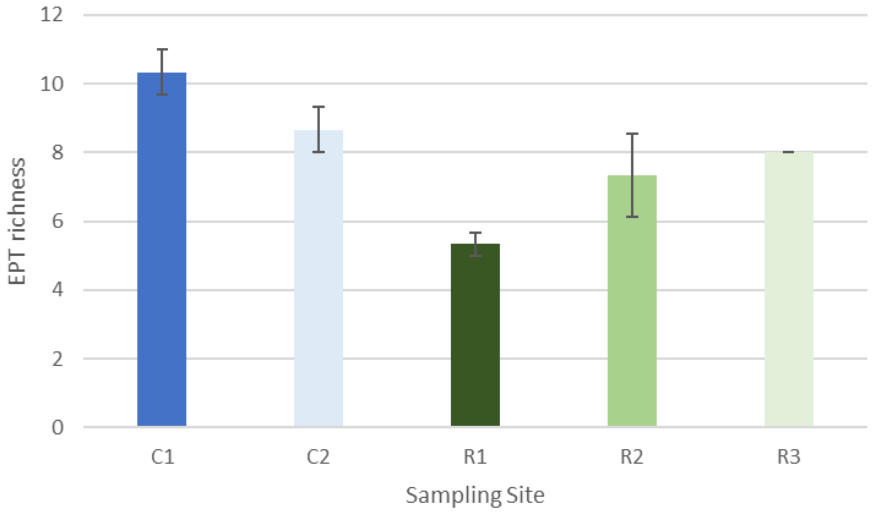


Figure 3 – EPT (Ephemeroptera, Plecoptera, and Trichoptera) richness for March 2026 samples.

4.1.4 Community composition

Average abundance of larger taxa (groups) was calculated for each site to provide an overview of community composition. Ephemeroptera (mayflies), Trichoptera (caddisflies), Coleoptera (beetles), and Diptera (flies) were present in all samples, with Megaloptera (dobsonflies) and Mollusca (snails) present in most samples, though in small numbers. The most abundant taxa across all sites were *Deleatidium* mayflies, elmid beetles, orthoclad flies, and conoesucid caddisflies. The high abundance of Diptera (true flies) at site R1 may explain why this site had low scores for metrics such as QMCI.

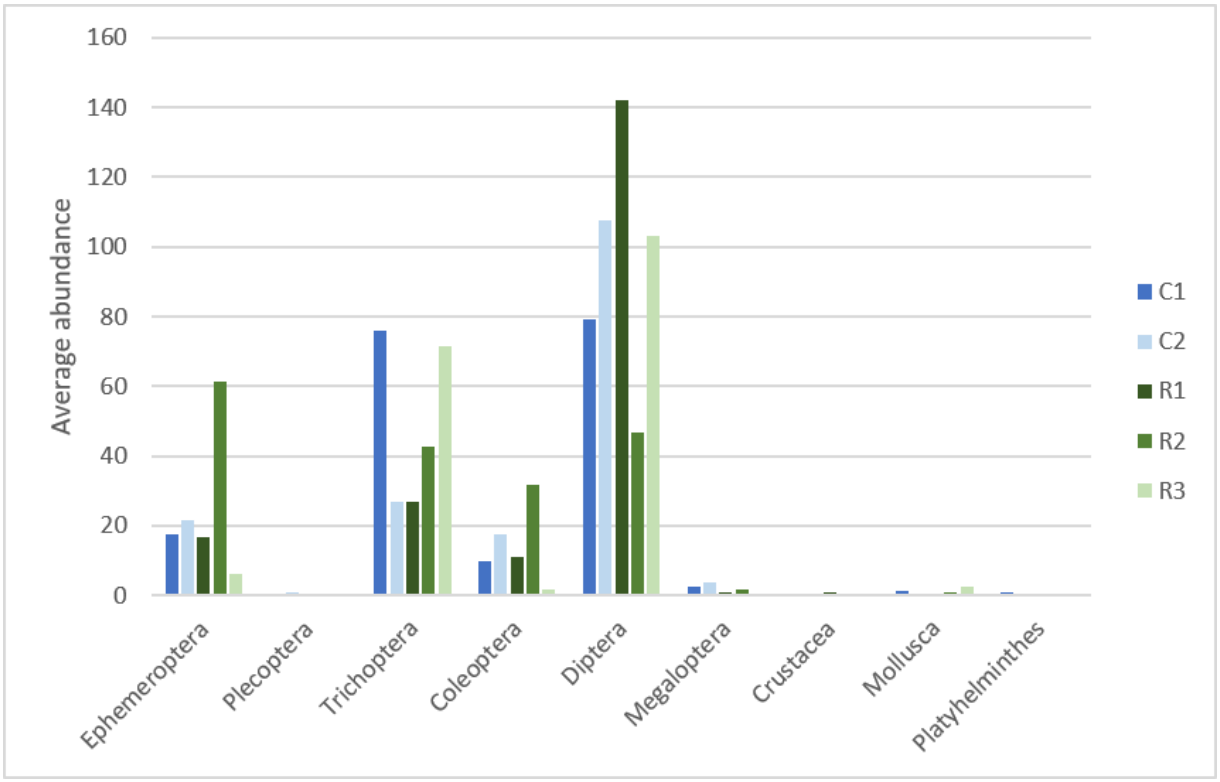


Figure 4 – Average abundance of taxonomic groups in samples taken in March 2026.

4.1.5 Summary of March 2026 results

The March 2026 scores for MCI, QMCI and EPT richness were all lower than scores in previous baseline sampling events. The average MCI score in March 2026 was 114, whereas scores in previous samples ranged from 117 to 130, and the differences were significant ($F = 5.94$, $p < 0.001$). The average QMCI score in March 2026 was 4.32 compared with 5.38 to 7.36 in previous years, and the differences were significant ($F=19.415$, $p < 0.001$). Average EPT richness in March 2026 was 7.8 compared with 9.8 to 13.8 in previous samples, and the differences were significant ($F = 9.26$, $p < 0.001$). The reasons for the lower scores in 2026 are not known, but may include climatic and landscape-level changes in the catchment as it has been ten years since the last baseline sampling round. These changes are not attributable to the RRwGW scheme as no groundwater input events have yet occurred as of June 2026.

4.2 Comparison among Control and Recharge sites, 2014–2026

When all baseline sampling events (2014–2026) were combined, no significant difference was found among the five sites in terms of MCI ($F =1.87$, $df = 4,24$, $p = 0.15$), QMCI ($F=2.26$, $df=4,24$, $p=0.090$) or EPT richness ($F = 1.80$, $df = 4,24$, $p = 0.161$). Recharge sites (R1-3) as a group did not differ significantly from control sites (C1-2) for these metrics, indicating that under normal conditions (i.e. no groundwater inputs) the control and recharge sites are similar in terms of macroinvertebrate metrics. Graphs are provided in Appendix 1 and raw data are provided in Appendix 2.

5.0 Conclusions and Recommendations

The values of the macroinvertebrate metrics MCI, QMCI and EPT richness in March 2016 were all lower than the range during 2014-2016. These results do not confirm that the baseline set by the 2014-2016 data has remained unchanged, however, one year of data is not sufficient evidence to prove that the baseline has shifted. It is recommended another set of monitoring data should be collected in February or March 2027. Provided that weather conditions in early 2027 are within the normal range, the baseline monitoring report and ongoing management plan can be updated, with data from 2026 and 2027 either combined with earlier data or a used to recommend setting a new baseline.

It is also recommended that future MCI monitoring is carried out concurrently with a round of periphyton monitoring to investigate whether there is a relationship between MCI metrics and periphyton levels. This will improve the ability to differentiate effects of the RRwGW scheme as opposed to impacts from changes in climate, land use, nutrient pollution, or other factors.

References

Boffa Miskell Limited 2017. *Waikanae River Final Aquatic Baseline Monitoring Report: A report on 15 months of summer aquatic data collection for water permits WGN130103 [34399] & [34400].* Report prepared by Boffa Miskell Limited for Kāpiti Coast District Council.

Matheson, F., Quinn J., Hickey C. 2012. *Review of the New Zealand instream plant and nutrient guidelines and development of an extended decision-making framework: Phases 1 and 2 final report*. Prepared for the Ministry of Science and Innovation EnviroLink Fund. August 2012. NIWA Client Report HAM2012-018

National Environmental Monitoring Standards (2022). Macroinvertebrates - Collection and Processing of Macroinvertebrate Samples from Rivers and Streams. 98 pp.

Wildland Consultants (2025). *River Recharge with Groundwater: Waikanae River 2025 Baseline Monitoring Report*. Wildland Consultants Contract Report No. 7086b. Prepared for Kāpiti Coast District Council. 20pp.

Appendix 1

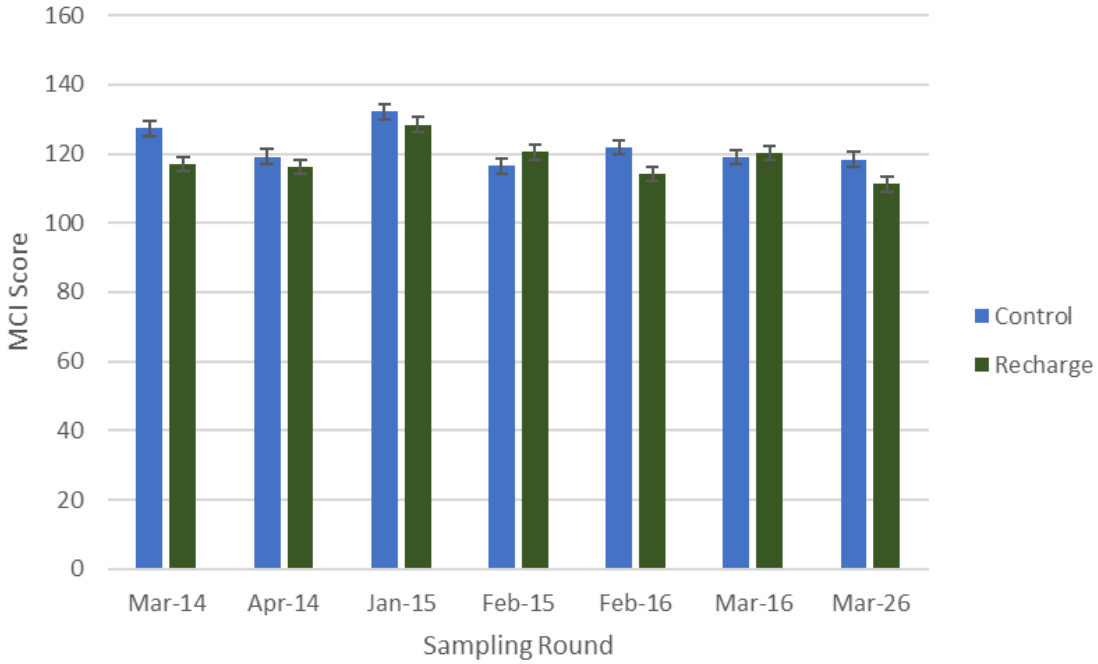


Figure A1-1 – Average Macroinvertebrate Community Index (MCI) scores over time for control and recharge sites.

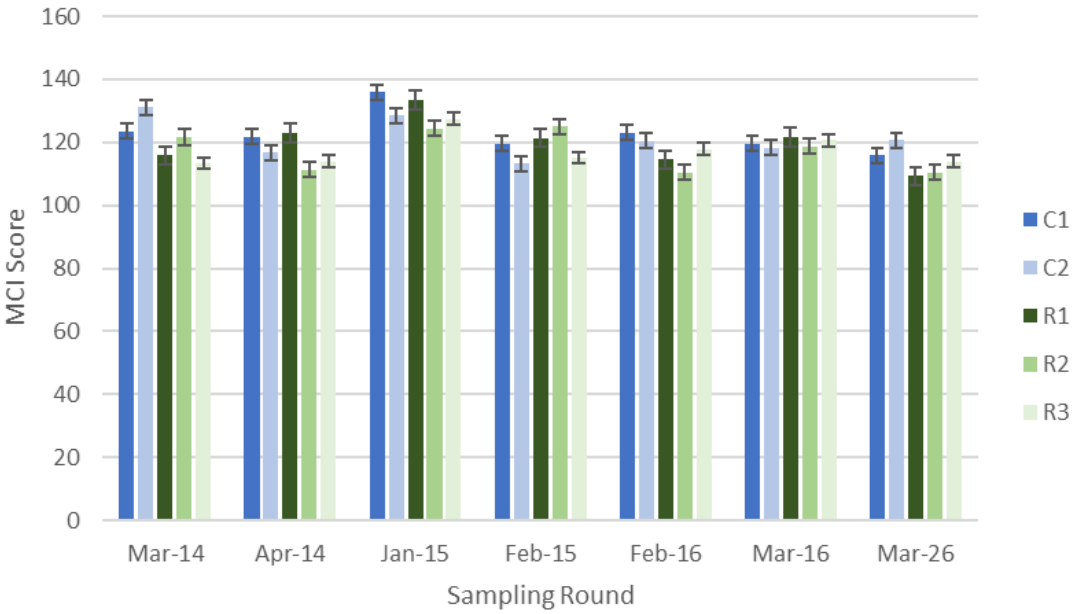


Figure A1-2 – Macroinvertebrate Community Index (MCI) scores over time for all sites.

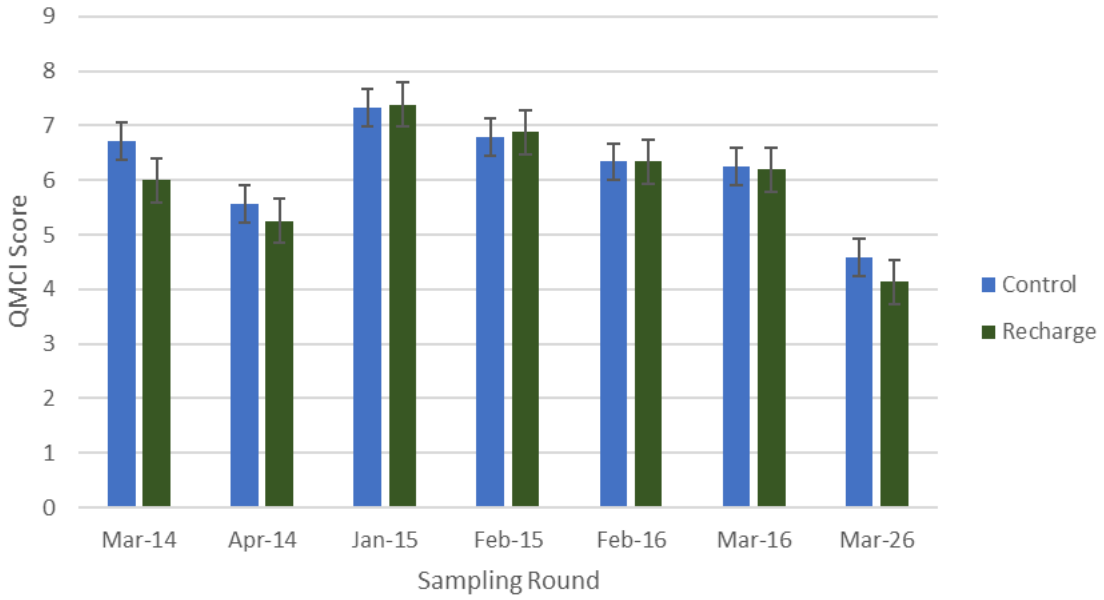


Figure A1-3 – Average QMCI scores over time for control and recharge sites.

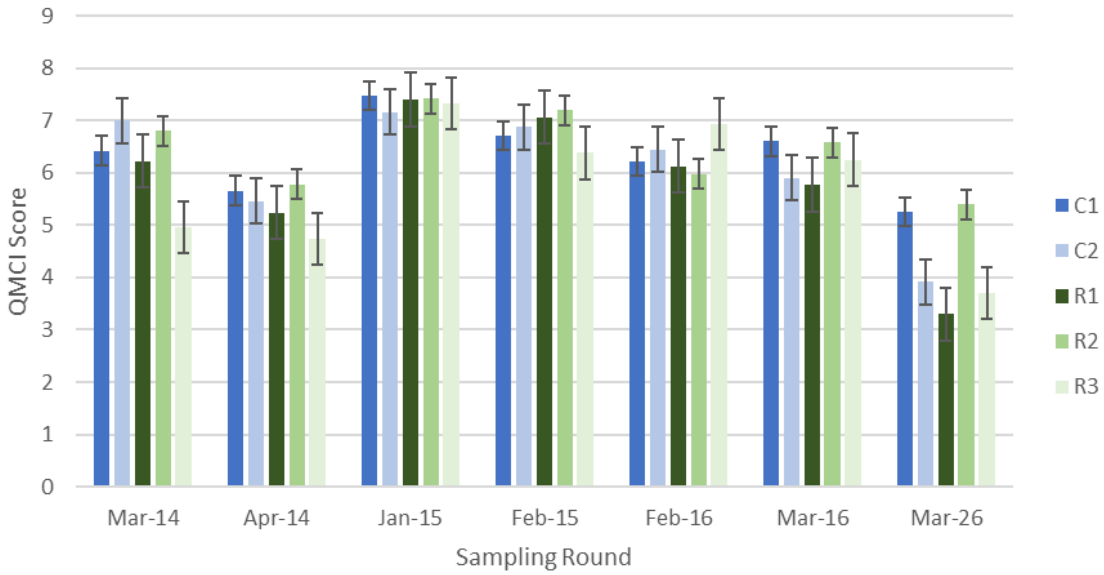


Figure A1-4 – QMCI scores over time for all sites.

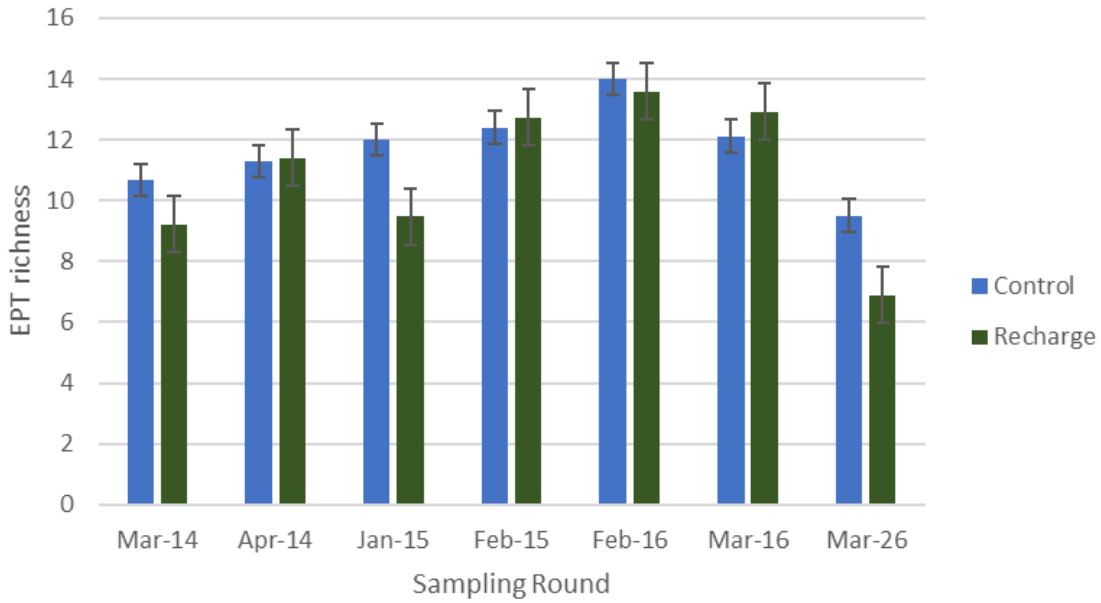


Figure A1-5 – Average EPT richness over time for control and recharge sites.

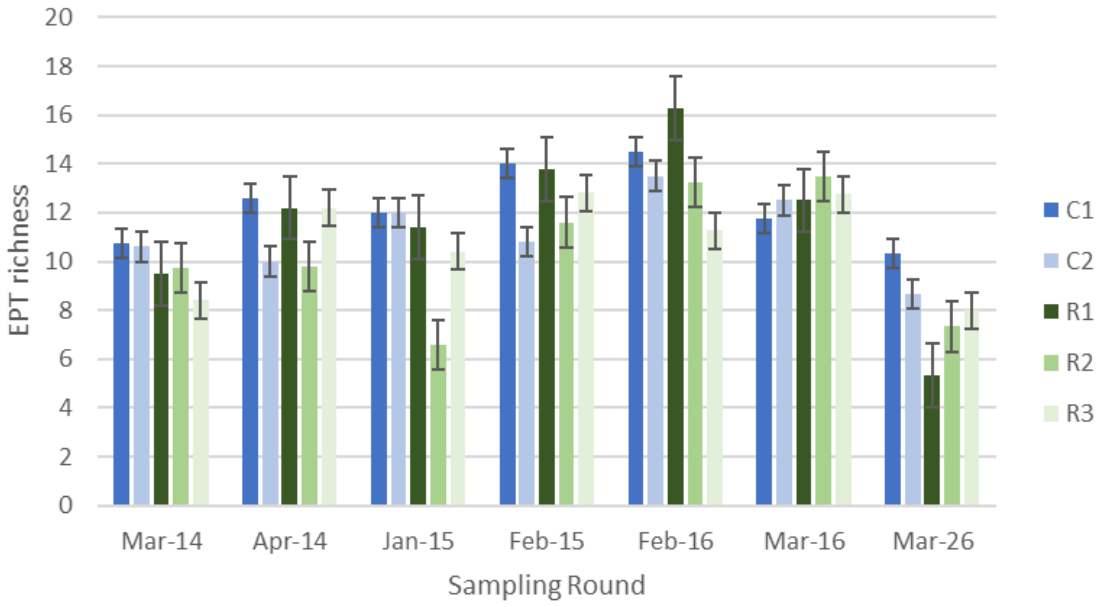


Figure A1-6 – EPT richness over time for all sites.

Appendix 2

Raw data

Site	C1			C2			R1			R2			R3		
Replicate	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**
Total abundance	217	226	240	390	345	360	399	552	482	208	177	169	200	265	218
% EPT abundance	51%	50%	49%	27%	27%	28%	21%	20%	24%	57%	55%	57%	42%	41%	44%
Taxa richness	17	19	19	16	15	16	14	14	14	15	11	12	13	13	13
EPT richness	9	11	11	8	8	10	6	5	5	9	5	8	8	8	8
MCI score	114	117	117	125	115	123	106	111	111	115	98	118	114	114	114
QMCI score	5.28	5.21	5.29	3.82	4.00	3.94	3.29	3.23	3.38	5.42	5.37	5.40	3.64	3.66	3.79
ASPM	0.46	0.49	0.48	0.39	0.37	0.41	0.32	0.31	0.32	0.48	0.41	0.48	0.42	0.42	0.43

Appendix C

Operation and Maintenance Logs Intake and Production Bores

Kāpiti Coast DISTRICT COUNCIL
Me Huri Whakamuri, Ka Titiro Whakamua

Borefield Operations - Operational Record Summary

Report Pe 01/07/2025
Report Pe 30/06/2026
Generate 27/10/2026
Total Rec 406

Bore Name	Date	User	Bore Level above Pump (m)	Pump Run Hours	Temp (°C)	Flow Forward (m³)	Flow Reverse (m³)	Cabinet Filter	Checked Well-head	Compressor Service Due Date	Run compressor manually?	Compressor Run Hours	Well-head Security Comment	Comments	Maintenance Duties Carried Out	Check Wrapping for Mold, Dirt, Damage, Graffiti	Location
K10	03/07/2025	Phillip MacDonald	52.0	5065.9	14.3	34,488.09	111.79	2 - Clean	Yes	01/03/2026	Yes	305	0	0	0	No action Needed	-40.8683946652292,175.034410069697;9.8028309704826;7.26832485198975;4
K10	10/07/2025	Simon Fraser	32.0	5068.0	25.2	34,677.00	111.79	3 - No Action	Yes	10/03/2026	Yes	305	0	0	0	No action Needed	-40.8683528099 59,175.034465091466;3.53553390593274;10.4701681137085;3
K10	17/07/2025	Mitchell Sarney	52.0	5069.0	14.3	34,713.00	111.00	3 - No Action	Yes	01/03/2026	Yes	305	0	0	0	No action Needed	-40.8683866728478,175.034376662388;3.53553390593274;11.784010887146;4
K10	24/07/2025	Tama Te-Whata	52.0	5069.4	14.4	34,713.36	111.79	2 - Clean	Yes	24/03/2026	Yes	305.78	0	0	0	No action Needed	-40.8683824818962,175.034574894398;3.53553390593274;13.3725118637085;3
K10	31/07/2025	Phillip MacDonald	52.0	5069.4	14.3	34,713.36	111.79	2 - Clean	Yes	01/03/2026	Yes	305.78	0	0	0	No action Needed	-40.8683890747399,175.034553728323;4.81311445403621;9.075514793396;3
K10	07/08/2025	Wayne Elley	52.0	5069.4	14.3	34,713.37	111.79	2 - Clean	Yes	01/03/2026	Yes	305	0	0	0	No action Needed	-40.8683352589935,175.034402218307;3.53311816069575;8.38807582855225;3
K10	14/08/2025	Wayne Elley	51.7	5070.0	14.3	34,756.41	111.80	2 - Clean	Yes	01/03/2026	No	306	0	0	0	No action Needed	-40.8683167195503,175.034396590226;3.52918206540116;8.09669399261475;3
K10	21/08/2025	Tama Te-Whata	52.0	5070.2	14.3	34,759.02	111.80	2 - Clean	Yes	21/03/2026	Yes	306.63	0	0	0	No action Needed	-40.8683719206982,175.034540277137;3.53553390593274;8.523268699646;3
K10	29/08/2025	Tama Te-Whata	52.0	5070.2	14.3	34,759.02	111.80	2 - Clean	Yes	29/03/2026	Yes	306.92	0	0	0	No action Needed	-40.8683726165625,175.034539742823;3.47384844390734;10.5882711410522;3
K10	04/09/2025	Wayne Elley	51.9	5070.2	14.3	34,759.02	111.80	2 - Clean	Yes	01/03/2026	Yes	307	0	0	0	No action Needed	-40.8683390315785,175.034472302018;3.59471501955852;5.85352993011475;3
K10	11/09/2025	Mitchell Sarney	52.0	5072.0	15.9	34,888.00	111.00	3 - No Action	Yes	25/03/2026	Yes	308	0	0	0	No action Needed	-40.8683127872062,175.034438041007;3.46153901894102;10.5651998519897;4
K10	18/09/2025	Tama Te-Whata	52.0	5072.0	14.4	34,888.86	111.80	2 - Clean	Yes	18/03/2026	Yes	308.25	0	0	0	No action Needed	-40.8683541036407,175.034593086768;3.52938610720963;6.38294887542725;3
K10	25/09/2025	Phillip MacDonald	52.0	5072.0	14.3	34,888.86	111.80	2 - Clean	Yes	01/03/2026	Yes	308	0	0	0	No action Needed	-40.8683513850354,175.034585874691;14;8.2472677230835;3
K10	02/10/2025	Wayne Elley	51.9	5072.0	14.3	34,888.86	111.80	2 - Clean	Yes	01/03/2026	Yes	308	0	0	0	No action Needed	-40.8683345179961,175.034511971311;3.46956577539438;7.7372579574585;3
K10	09/10/2025	Mitchell Sarney	51.0	5074.0	16.1	34,998.00	111.00	3 - No Action	Yes	25/03/2026	Yes	309	0	0	0	No action Needed	-40.8683253592261,175.034339614376;3.53553390593274;7.365553855896;3
K10	16/10/2025	Tama Te-Whata	52.0	5074.2	14.4	34,998.24	111.81	2 - Clean	Yes	16/03/2026	Yes	309.39	0	0	0	No action Needed	-40.8683472359934,175.034535080357;3.53553390593274;5.4887228012085;3
K10	23/10/2025	Phillip MacDonald	52.0	5074.2	14.4	34,998.24	111.81	2 - Clean	Yes	01/03/2026	Yes	309.94	0	0	0	No action Needed	-40.8683388559982,175.034425820009;3.43536713375054;7.33485317230225;3
K10	30/10/2025	Wayne Elley	51.9	5074.2	14.4	34,998.24	111.81	2 - Clean	Yes	01/03/2026	Yes	309	0	0	0	No action Needed	-40.868329948365,175.034429386504;3.62636420885065;7.165175437927 25;3
K10	06/11/2025	Mitchell Sarney	52.0	5074.2	14.4	34,998.00	111.00	3 - No Action	Yes	25/03/2026	Yes	309	0	0	0	No action Needed	-40.8683099365242,175.034498451441;4.08346956959615;6.76161098480225;3
K10	13/11/2025	Wayne Elley	32.4	5076.0	25.4	35,113.67	111.81	2 - Clean	Yes	01/03/2026	Yes	310	0	0	0	No action Needed	-40.868409315808,175.03452358503;3.53538612221432;6.685622215271;3
K10	20/11/2025	Tama Te-Whata	52.0	5076.0	14.4	35,128.56	111.81	2 - Clean	Yes	20/03/2026	Yes	310.72	0	0	0	No action Needed	-40.8683961158464,175.034569602272;3.908610685040 88;8.3957052230835;4
K10	27/11/2025	Wayne Elley	51.9	5078.0	14.3	35,237.55	111.81	2 - Clean	Yes	01/03/2026	Yes	311	0	0	0	No action Needed	-40.8683673267876,175.034488737159;3.52130610162443;7.0312032699585;3
K10	04/12/2025	Phillip MacDonald	52.0	5078.3	14.4	35,237.55	111.81	2 - Clean	Yes	01/03/2026	Yes	311.33	0	0	0	No action Needed	-40.8684977231317,175.034447952276;13.0052089230196;8.43824672698975;3
K10	11/12/2025	Tama Te-Whata	52.0	5080.7	14.4	35,382.43	111.81	2 - Clean	Yes	11/03/2026	Yes	312.04	0	0	0	No action Needed	-40.8683873853095,175.034488644614;3.94436603533 67;8.726820945739 75;4
K10	18/12/2025	Phillip MacDonald	52.0	5080.0	14.4	35,382.43	111.81	2 - Clean	Yes	01/03/2026	Yes	312	0	0	0	No action Needed	-40.8683968288474,175.034515732078;3.72052770964734;7.65516567230225;3
K10	24/12/2025	Simon Fraser	52.0	5080.8	14.3	35,382.00	111.00	3 - No Action	Yes	26/03/2026	Yes	312	0	0	0	No action Needed	-40.8683439251035,175.034441873431;1.5;16;
K10	31/12/2025	Wayne Elley	52.0	5080.8	14.3	35,382.43	111.81	2 - Clean	Yes	01/03/2026	Yes	312	0	0	0	No action Needed	-40.8683440977891,175.034514610236;3.52937197542219;9.60902309417725;3
K10	08/01/2026	Wayne Elley	50.7	5083.0	17.4	35,541.26	111.81	2 - Clean	Yes	01/03/2026	Yes	313	Ok	None	0	No action Needed	-40.868400001226,175.034444473284;3.53542942832903;7.87635707855225;3
K10	15/01/2026	Phillip MacDonald	52.0	5083.0	14.3	35,541.26	111.81	2 - Clean	Yes	01/03/2026	Yes	313	OK	K10 No data all bore monitoring equipment powered done Also	0	No action Needed	-40.8683545776709,175.034528341142;3.53253230130056;4.4386739730835;3
K10	22/01/2026	Wayne Elley	52.1	5083.0	14.3	35,541.26	111.81	2 - Clean	Yes	01/03/2026	Yes	313	Ok	0	0	No action Needed	-40.8683521499243,175.034476856348;3.97842548241975;7.22120571136475;3
K10	29/01/2026	Tama Te-Whata	52.0	5083.4	14.4	35,541.26	111.81	2 - Clean	Yes	29/03/2026	Yes	314.12	Ok	0	0	No action Needed	-40.8683714482955,175.034542893677;11.6510522896515;6.35654686577618;10.120730194818
K10	05/02/2026	Tama Te-Whata	52.0	5083.4	14.4	35,541.26	111.81	2 - Clean	Yes	05/03/2026	Yes	314.42	OK	0	0	No action Needed	-40.8684353124137,175.034440658872;3.20056021596056;11.8444356918335;4
K10	12/02/2026	Simon Fraser	51.0	5085.0	16.0	35,655.00	111.00	3 - No Action	Yes	12/03/2026	Yes	315	None	0	0	No action Needed	-40.8683268696632,175.034494 1387;3.41406075772159;0.638094928115606;3.00573135172459
K10	19/02/2026	Wayne Elley	52.0	5085.0	14.3	35,655.51	111.81	2 - Clean	Yes	01/03/2026	Yes	315	Ok	0	0	No action Needed	-40.8683704563875,175.034503955977;3.52966482521007;8.412428855896;4
K10	26/02/2026	Simon Fraser	52.0	5085.0	14.3	35,655.00	111.00	3 - No Action	Yes	26/03/2026	Yes	315	Ok	0	0	No action Needed	-40.8683632983649,175.034486 9679;2.65303783566395;22.60255336761 47;6
K10	05/03/2026	Tama Te-Whata	52.0	5085.0	14.3	35,655.54	111.82	2 - Clean	Yes	05/03/2026	Yes	315.71	Ok	0	0	No action Needed	-40.8683532290541,175.034527117549;3.53553390593274;4.2240743637085;3
K10	12/03/2026	Phillip MacDonald	51.0	5087.0	14.4	35,806.20	111.82	2 - Clean	Yes	01/09/2026	Yes	317	Ok	0	0	No action Needed	-40.8683703654511,175.034536594177;13.9989419141778;7.939040184021;32
K10	19/03/2026	Tama Te-Whata	52.0	5087.9	14.4	35,806.20	111.82	2 - Clean	Yes	19/09/2026	Yes	317.23	OK	0	0	No action Needed	-40.8682837385272,175.034570424011;7.884748734512 36;-1;9.5
K10	26/03/2026	Simon Fraser	51.0	5087.9	14.4	35,806.00	111.00	3 - No Action	Yes	26/03/2027	Yes	317	Ok	0	0	No action Needed	-40.8683373872571,175.034385798662;3.53553390593274;6.684889793396;3
K10	02/04/2026	Tama Te-Whata	52.0	5088.0	14.4	35,810.01	111.82	2 - Clean	Yes	02/09/2026	Yes	317.88	OK	0	0	No action Needed	-40.8683748962738,175.034566261037;3.63072122407348;7.63270473480225;4
K10	16/04/2026	Wayne Elley	51.8	5090.0	14.4	35,966.60	111.82	2 - Clean	Yes	16/09/2026	Yes	318	Ok	0	0	No action Needed	-40.8683756346109,175.034512750619;3.52937113944091;8.5546407699585;4
K10	23/04/2026	Wayne Elley	51.5	5090.0	14.4	35,966.60	111.82	2 - Clean	Yes	23/09/2026	Yes	319	0	0	0	No action Needed	-40.868366435033,175.034524699847;3.52936866167592;8.64698696136475;4
K10	30/04/2026	Tama Te-Whata	52.0	5090.7	14.4	35,966.60	111.82	2 - Clean	Yes	30/09/2026	Yes	319.6	0	0	0	No action Needed	-40.8683774918536,175.034547544022;2.917367082237 74;1.8142843246 46;3
K10	07/05/2026	Simon Fraser	51.0	5090.0	14.4	35,966.00	111.00	3 - No Action	Yes	07/09/2026	Yes	320	0	0	0	No action Needed	-40.8682249663796,175.034464054448;5;-1;9.5
K10	14/05/2026	Wayne Elley	32.1	5092.0	25.3	36,079.00	111.82	2 - Clean	Yes	14/09/2026	Yes	320	0	0	0	No action Needed	-40.8683582956331,175.034456992 53;3.52939421921318;7.482985496521;4
K10	21/05/2026	Wayne Elley	51.4	5093.0	14.4	36,143.34	111.82	3 - No Action	Yes	21/09/2026	Yes	320	0	0	0	No action Needed	-40.8682472,175.034436766667;5;8;9.5
K10	28/05/2026	Tama Te-Whata	51.0	5093.7	14.4	36,143.34	111.82	2 - Clean	Yes	28/09/2026	Yes	321.43	0	0	0	No action Needed	-40.8684186697122,175.034548563509;7.20950710308562;16.791090965271;8

K10	04/06/2026	Phillip MacDonald	51.0	5093.7	14.3	36,143.34	111.82	2 - Clean	Yes	01/09/2026	Yes	321.71	0	0	0	No action Needed	-40.8683906995323,175.034559134012;4.96861629287554;7.94508266448975;3
K10	11/06/2026	Wayne Elley	50.6	5093.7	14.3	36,143.00	111.00	2 - Clean	Yes	11/09/2026	Yes	321	0	0	0	No action Needed	-40.8682361427718,175.034464270215;3.52936412360438;2.01222133636475;3
K10	18/06/2026	Phillip MacDonald	50.0	5095.0	14.3	36,260.83	111.82	2 - Clean	Yes	01/09/2026	Yes	322	0	0	0	No action Needed	-40.8684220971238,175.034521871322;3.52066665422878;8.271803855896;3
K10	25/06/2026	Simon Fraser	50.0	5095.0	14.3	36,260.00	111.00	3 - No Action	Yes	25/09/2026	Yes	323	0	0	0	No action Needed	-40.8682502166667,175.034453866667;5;6;9.5

K6	03/07/2025	Phillip MacDonald	49.0	7323.3	14.5	609,223.00	266,335.00	3 - No Action	Yes	01/09/2025	Yes	656.42	0	0	0	No action Needed	-40.8545160061129,175.053995093494;5.60753193004324;10.1716451644897;4
K6	10/07/2025	Simon Fraser	29.0	7324.0	30.2	609,586.00	266,335.00	3 - No Action	Yes	01/09/2025	No	657	0	0	0	No action Needed	-40.8546043513723,175.053988890885;3.53553390593274;10.344069480896;3
K6	17/07/2025	Mitchell Sarney	49.0	7326.0	14.5	609,989.00	266,335.00	2 - Clean	Yes	01/03/2026	Yes	659	0	0	0	No action Needed	-40.8544644167164,175.054157339594;8.47198734666792;9.3380880355835;4
K6	24/07/2025	Tama Te-Whata	49.0	7327.0	14.5	609,989.00	266,335.00	2 - Clean	Yes	24/09/2025	Yes	659.68	0	0	0	No action Needed	-40.8545222925403,175.053964834823;3.9189555832183;6.312270164489753
K6	31/07/2025	Phillip MacDonald	49.0	7327.0	14.5	609,989.00	266,335.00	3 - No Action	Yes	01/09/2025	Yes	659.68	0	0	0	No action Needed	-40.8545550022292,175.053943974958;3.5312567996861 7;13.148268699646;4
K6	07/08/2025	Wayne Elley	49.2	7327.0	14.5	609,989.00	266,335.00	2 - Clean	Yes	01/09/2025	Yes	659	0	0	0	No action Needed	-40.854520322793,175.053993249475;3.74384695575079;9.317946434021;3
K6	14/08/2025	Wayne Elley	48.9	7329.0	14.7	610,491.00	266,335.00	2 - Clean	Yes	01/09/2025	Yes	662	0	0	0	No action Needed	-40.8546593785666,175.05390197055;5.84961700753595;11.274977684021;4
K6	21/08/2025	Tama Te-Whata	49.0	7329.4	14.5	610,491.00	266,335.00	2 - Clean	Yes	21/09/2025	Yes	662.8	0	0	0	No action Needed	-40.8545709786687,175.054012619013;3.52846135107105;7.202956199646;3
K6	29/08/2025	Tama Te-Whata	49.0	7329.4	14.5	610,491.00	266,335.00	2 - Clean	Yes	29/09/2025	Yes	662.82	0	0	0	No action Needed	-40.8544921704604,175.054085766464;3.52938616957153;7.7990255355835;3
K6	04/09/2025	Wayne Elley	49.2	7329.4	14.5	610,491.00	266,335.00	3 - No Action	Yes	01/03/2026	Yes	663	0	0	0	No action Needed	-40.8545589214571,175.053992159828;3.53553390593274;7.6662130355835;6
K6	11/09/2025	Mitchell Sarney	48.0	7331.0	15.5	610,943.00	266,336.00	2 - Clean	Yes	01/03/2026	Yes	666	0	0	0	No action Needed	-40.8545726677783,175.054003056302;3.53553390593274;11.0787496566772;3
K6	18/09/2025	Tama Te-Whata	49.0	7331.6	14.5	610,943.00	266,336.00	2 - Clean	Yes	18/03/2026	Yes	666.42	0	0	0	No action Needed	-40.8544596026208,175.0541576110 17;3.64846976143178;9.299147605896;3
K6	25/09/2025	Phillip MacDonald	49.0	7331.6	14.5	610,943.00	266,336.00	2 - Clean	Yes	01/03/2026	Yes	666	0	0	0	No action Needed	-40.8545698984452,175.054019029076;4.36395196170275;11.5603170394897;6
K6	02/10/2025	Wayne Elley	49.2	7331.6	14.5	610,943.00	266,336.00	3 - No Action	Yes	01/03/2026	Yes	666	0	0	0	No action Needed	-40.8545326861002,175.053963996633;4.32830136327821;8.34486293792725;3
K6	09/10/2025	Mitchell Sarney	48.0	7333.0	15.4	611,322.00	266,337.00	2 - Clean	Yes	01/03/2026	Yes	668	0	0	0	No action Needed	-40.8545531295083,175.054023839289;5.59324936406785;8.23537545837462;3
K6	16/10/2025	Tama Te-Whata	49.0	7333.0	14.5	611,322.00	266,338.00	2 - Clean	Yes	16/03/2026	Yes	668.85	0	0	0	No action Needed	-40.8545138555144,175.054037505296;3.28060616836546;7.6259298324585;3
K6	23/10/2025	Phillip MacDonald	49.0	7333.0	14.5	611,322.00	266,341.00	2 - Clean	Yes	01/03/2026	Yes	668.85	0	0	0	No action Needed	-40.8545736736067,175.053990064352;3.53553390593274;7.078383445737 5;6
K6	30/10/2025	Wayne Elley	49.2	7333.0	14.5	611,322.00	266,344.00	3 - No Action	Yes	01/03/2026	Yes	668	0	0	0	No action Needed	-40.8545675129079,175.054006157606;3.53553390593274;5.130446434021;4
K6	06/11/2025	Mitchell Sarney	49.0	7333.0	14.5	611,322.00	266,346.00	2 - Clean	Yes	01/03/2026	Yes	668	0	0	0	No action Needed	-40.8545507910111,175.053993417113;14;9.780348777771;4
K6	13/11/2025	Wayne Elley	48.6	7335.0	15.3	611,737.00	266,354.00	2 - Clean	Yes	01/03/2026	Yes	671	0	0	0	No action Needed	-40.8545500976332,175.054042742313;3.52936670467059;6.576979637146;3
K6	20/11/2025	Tama Te-Whata	49.0	7335.0	14.5	611,737.00	266,357.00	2 - Clean	Yes	20/03/2026	Yes	671.99	0	0	0	No action Needed	-40.8544164291032,175.0541122725;3.53553390593274;3.6230001449585;3
K6	27/11/2025	Wayne Elley	49.2	7337.0	14.5	612,087.00	266,357.00	2 - Clean	Yes	01/03/2026	Yes	673	0	0	0	No action Needed	-40.8544829814144,175.054098274722;3.53553390593274;6.712416648864 75;3
K6	04/12/2025	Phillip MacDonald	49.0	7337.0	14.5	612,087.00	266,360.00	2 - Clean	Yes	01/03/2026	Yes	674.2	0	0	0	No action Needed	-40.8545567035731,175.054012676152;3.52874299693134;-2.12913608551025;3
K6	11/12/2025	Tama Te-Whata	49.0	7339.0	14.5	612,595.00	0.00	2 - Clean	Yes	11/03/2026	Yes	677.57	0	0	0	No action Needed	-40.8545867481429,175.054021709897;5.10325804972447;9.1452169418335;3
K6	18/12/2025	Phillip MacDonald	49.0	7339.0	14.5	612,595.00	0.00	3 - No Action	Yes	01/03/2026	Yes	677	0	0	0	No action Needed	-40.8545498053308,175.054013155715;3.53553161075695;6.5434103012085;4
K6	24/12/2025	Simon Fraser	49.0	7339.0	14.5	612,595.00	0.00	2 - Clean	Yes	26/03/2026	Yes	677	0	0	0	No action Needed	-40.854521645952,175.054033221124;3.55410850571179;8.28138637542725;3
K6	31/12/2025	Wayne Elley	49.2	7339.0	14.4	612,595.00	0.00	0	Yes	01/03/2026	Yes	678	0	0	0	No action Needed	-40.854539082424,175.05394173819;4.36856555919814;11.899977684021;4
K6	08/01/2026	Wayne Elley	48.0	7342.0	15.6	613,128.00	266,363.00	2 - Clean	Yes	01/03/2026	Yes	682	Ok	New high level sensor	Pulled out some larger weeds	No action Needed	-40.8545342876256,175.054067379267;3.97321329169622;8.18434047698975;4
K6	15/01/2026	Phillip MacDonald	49.0	7342.0	14.5	613,128.00	266,365.00	2 - Clean	Yes	01/03/2026	Yes	682	OK	Service due sticker still says March '26	0	No action Needed	-40.8545758068939,175.054059470544;13.9996484500299;8.75367641448975;3
K6	22/01/2026	Wayne Elley	49.4	7342.0	14.4	613,128.00	266,365.00	2 - Clean	Yes	01/03/2026	Yes	682	Ok	0	0	No action Needed	-40.85447201336,175.054064665597;3.52936404752248;5.5476827621 46;3
K6	29/01/2026	Tama Te-Whata	49.0	7342.3	14.4	613,128.00	266,366.00	2 - Clean	Yes	29/03/2026	Yes	682.77	Ok	0	0	No action Needed	-40.8545527869119,175.054001993665;3.22872247104696;5.1474142074585;6
K6	05/02/2026	Tama Te-Whata	49.0	7342.3	14.4	613,128.00	266,367.00	2 - Clean	Yes	05/03/2026	Yes	683.44	OK	0	0	No action Needed	-40.8545450130501,175.053985726652;3.7293972084279 1;12.1174459457397;4
K6	12/02/2026	Simon Fraser	48.0	7344.0	15.3	613,511.00	266,367.00	3 - No Action	Yes	12/03/2026	Yes	686	Ok	0	0	No action Needed	-40.8544046106197,175.05406986007;3.70100265861712;8.16541957855225;6
K6	19/02/2026	Wayne Elley	49.3	7344.0	14.5	613,512.00	266,373.00	2 - Clean	Yes	01/03/2026	Yes	687	Ok	0	0	No action Needed	-40.8545211282676,175.054030260737;3.72001202949875;10.219069480896;3
K6	26/02/2026	Simon Fraser	48.0	7344.0	14.4	613,512.00	266,373.00	3 - No Action	Yes	01/03/2026	Yes	687	Ok	0	0	No action Needed	-40.8544334862762,175.054084947496;5.37162205282204;21.9464864730835;6
K6	05/03/2026	Tama Te-Whata	49.0	7344.0	14.4	613,512.00	266,373.00	2 - Clean	Yes	05/03/2026	Yes	687.52	Ok	0	0	No action Needed	-40.8533419110261,175.05913739109;3.53553390593274;7.3756856918335;4
K6	12/03/2026	Phillip MacDonald	48.0	7346.0	15.2	614,029.00	266,373.00	2 - Clean	Yes	01/03/2026	Yes	690	OK	0	0	No action Needed	-40.8545300810188,175.053975411394;3.5289422524053;9.065260887146;3
K6	19/03/2026	Tama Te-Whata	48.0	7346.0	14.4	614,029.00	266,373.00	2 - Clean	Yes	19/03/2026	Yes	690.52	Ok	0	0	No action Needed	-40.854556274277,175.054062819266;3.20922060325662;8.990553855896;3
K6	26/03/2026	Simon Fraser	48.0	7346.0	14.4	614,029.00	266,373.00	3 - No Action	Yes	26/03/2026	Yes	690	OK	0	0	No action Needed	-40.8544683969029,175.054073799565;3.53553390593274;5.8747091293335;3
K6	02/04/2026	Tama Te-Whata	48.0	7346.8	14.4	614,029.00	266,373.00	2 - Clean	Yes	02/03/2026	Yes	690.52	OK	0	0	No action Needed	-40.8545605962 71,175.054052931245;13.9933808742345;1.915602684021;8
K6	16/04/2026	Wayne Elley	49.0	7349.0	14.5	614,532.00	266,373.00	2 - Clean	Yes	01/03/2026	Yes	691	0	0	0	No action Needed	-40.8545687255066,175.054032390617;3.52937537745 05;6.45606899261475;3
K6	23/04/2026	Wayne Elley	48.9	7349.0	14.4	614,532.00	266,373.00	2 - Clean	Yes	23/03/2026	Yes	691	0	0	0	No action Needed	-40.8545517734494,175.05402315741;3.52454483857065;10.755446434021;4
K6	30/04/2026	Tama Te-Whata	48.0	7349.3	14.4	614,532.00	266,373.00	2 - Clean	Yes	01/03/2027	Yes	692.04	0	0	0	No action Needed	-40.85566445,175.062116233333;5;4;9.5
K6	07/05/2026	Simon Fraser	49.0	7349.0	14.4	614,532.00	266,373.00	3 - No Action	Yes	30/03/2027	Yes	692.34	0	0	0	No action Needed	-40.854611392171,175.053997021331;14;6.3471212387085;8
K6	14/05/2026	Wayne Elley	28.1	7352.0	30.2	615,109.00	266,373.00	2 - Clean	Yes	07/03/2027	Yes	693	0	0	0	No action Needed	-40.8543694028995,175.054278157209;5;0;9.5
K6	21/05/2026	Wayne Elley	49.1	7352.0	14.3	615,177.00	266,373.00	3 - No Action	Yes	14/03/2027	Yes	693	0	0	0	No action Needed	-40.8545113082364,175.054032688715;3.50938835412643;7.76893520355225;3
K6	28/05/2026	Tama Te-Whata	48.0	7353.1	14.3	615,318.00	266,373.00	2 - Clean	Yes	21/03/2027	Yes	694.4	0	0	0	No action Needed	-40.8545092308299,175.054045019827;3.52936413021209;6.385817527771;3
K6	04/06/2026	Phillip MacDonald	49.0	7353.2	14.3	615,318.00	266,373.00	2 - Clean	Yes	28/03/2027	Yes	694.4	0	0	0	No action Needed	-40.8545735519 86,175.054015669758;11.1454479741348;8.314772605896;3
K6	11/06/2026	Wayne Elley	48.7	7353.2	14.4	615,318.00	266,373.00	2 - Clean	Yes	01/03/2027	Yes	694	0	0	0	No action Needed	-40.8545458037562,175.054010767676;14.0000003816073;8.618422508239 75;4
K6	18/06/2026	Phillip MacDonald	48.0	7355.0	14.4	615,731.00	266,373.00	2 - Clean	Yes	11/03/2027	Yes	695	0	0	0	No action Needed	-40.8544758920951,175.054069752465;3.5260293810848;8.671217918396;3
K6	25/06/2026	Simon Fraser	48.0	7355.0	14.4	615,731.00	266,373.00	3 - No Action	Yes	01/03/2027	Yes	695	0	0	0	No action Needed	-40.8544661377534,175.054075296519;3.35384213084985;8.7292013168335;3

Kāpiti Coast DISTRICT COUNCIL
Me Huri Whakamuri, Ka Titiro Whakamua

KB4	03/07/2025	Phillip MacDonald	36.0	6259.0	14.6	356,938.00	9,865.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706373982829,175.042706446683;4.86997638244463;10.6676168441772;6
KB4	10/07/2025	Simon Fraser	28.0	6262.0	23.4	357,418.00	9,891.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706954261669,175.042627472593;4.00326664029716;10.733962059021;3
KB4	17/07/2025	Mitchell Sarney	36.0	6263.0	14.5	357,419.00	9,931.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706980314157,175.042692713525;2.87325500670036;10.4379416052252;4.02936443818856
KB4	24/07/2025	Tama Te-Whata	36.0	6263.2	14.5	357,433.00	9,967.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706773631655,175.042692013248;4.07928385191078;9.56300258636475;4
KB4	31/07/2025	Phillip MacDonald	36.0	6263.0	14.6	357,444.00	10,004.00	2 - Clean	Yes				0	0	0	No action Needed	-40.87069187394,175.042735449429;3.54786892124745;11.5683736801147;3
KB4	07/08/2025	Wayne Elley	36.2	6263.0	14.6	357,756.00	10,042.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706562191947,175.042723462536;12.5414797359861;8.97438315395266;6.594334539078
KB4	14/08/2025	Wayne Elley	35.9	6265.0	14.5	357,769.00	10,080.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706855774306,175.042715985491;3.53553390593274;9.724928855896;3
KB4	21/08/2025	Tama Te-Whata	36.0	6265.6	14.6	357,778.00	10,107.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706880665899,175.042661689559;3.9694878186506 4;6.70521450042725;4
KB4	29/08/2025	Tama Te-Whata	36.0	6265.6	14.5	357,783.00	10,138.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8707015868657,175.042818160891;5.91806639262773;10.1727437973022;4
KB4	04/09/2025	Wayne Elley	36.2	6265.0	14.5	358,056.00	10,173.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706814005326,175.042705055553;8.4364185087069;11.1986717600375;4.24716431726292
KB4	11/09/2025	Mitchell Sarney	36.0	6267.0	16.0	358,065.00	10,202.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706623311018,175.042742386932;3.4413133292367;9.580397605896;3
KB4	18/09/2025	Tama Te-Whata	36.0	6267.8	14.6	358,069.00	10,233.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706836915024,175.042733084573;4.3105532542763;13.1947774887085;8
KB4	25/09/2025	Phillip MacDonald	36.0	6267.0	14.6	358,075.00	10,263.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8707104408797,175.042721824794;6.07767580872902;7.258803367614 75;4
KB4	02/10/2025	Wayne Elley	36.2	6267.0	14.5	358,304.00	10,288.00	2 - Clean	Yes				0	0	0	No action Needed	-40.870657745797,175.042695096268;8.04814660289527;9.081508848816 16;4.13307987493636
KB4	09/10/2025	Mitchell Sarney	36.0	6269.0	15.4	358,304.00	10,316.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706779918083,175.042704669922;3.53553390593274;9.814772605896;3
KB4	16/10/2025	Tama Te-Whata	36.0	6269.6	14.7	358,308.00	10,345.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706838808176,175.042789374183;3.66177712218861;7.86561489105225;4
KB4	23/10/2025	Phillip MacDonald	36.0	6269.5	14.6	358,311.00	10,375.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8707265812438,175.042697875652;13.9982428083144;8.9948263168335;4
KB4	30/10/2025	Wayne Elley	36.2	6269.0	14.7	358,316.00	10,410.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706797520689,175.042638536698;3.53542944489593;4.1820821762085;3
KB4	06/11/2025	Mitchell Sarney	36.0	6269.0	14.6	358,580.00	10,438.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8707826398694,175.042744148686;4.22737467713107;13.4845724105835;6
KB4	13/11/2025	Wayne Elley	35.9	6271.0	15.5	358,583.00	10,473.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706338798863,175.042701528691;3.61285944515764;8.27503871917725;3
KB4	20/11/2025	Tama Te-Whata	36.0	6271.7	14.6	358,804.00	10,505.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8707529125115,175.042650358626;13.9324202279719;1.3703145980835;16
KB4	27/11/2025	Wayne Elley	36.2	6273.0	14.7	358,810.00	10,536.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706685203386,175.042691751652;3.53552855266065;8.36622524261475;4
KB4	04/12/2025	Phillip MacDonald	36.0	6273.0	14.7	359,115.00	10,571.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706716590025,175.042685528394;3.52151663477833;3.0238790512085;3
KB4	11/12/2025	Tama Te-Whata	36.0	6275.0	14.9	359,124.00	10,571.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8707218710714,175.042652283027;14;9.5622091293335;3
KB4	18/12/2025	Phillip MacDonald	36.0	6275.0	14.7	359,130.00	10,632.00	2 - Clean	Yes				0	0	0	No action Needed	-40.870677153618,175.042661670758;4.89605183733261;9.1605978012085;4
KB4	24/12/2025	Simon Fraser	36.0	6275.0	14.6	359,136.00	0.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706833561882,175.042692432 18;1.5;21;
KB4	31/12/2025	Wayne Elley	36.2	6275.0	14.7	0.00	0.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706625056598,175.042686739862;3.61602034358834;11.9248189926147;4
KB4	08/01/2026	Wayne Elley	35.6	6278.0	15.8	359,452.00	10,673.00	2 - Clean	Yes				Ok	Weeds are bad	Pulled out some larger weeds	No action Needed	-40.8706775473761,175.042801024378;3.70259984397548;5.755202293396;4
KB4	15/01/2026	Phillip MacDonald	36.0	6278.0	14.6	359,464.00	10,711.00	2 - Clean	Yes				OK	Weeds	Weed spray done	No action Needed	-40.8707879951855,175.043128806345;9.55678556858858;28.2985372543335;24.0000016786396
KB4	22/01/2026	Wayne Elley	36.4	6278.0	14.7	359,467.00	10,741.00	2 - Clean	Yes				Ok	Could do with weed spray	0	No action Needed	-40.8706635632579,175.042673050 04;3.93544154083572;2.917616844177225;4
KB4	29/01/2026	Tama Te-Whata	36.0	6278.3	14.7	359,479.00	10,780.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8706665705567,175.042712276407;3.52447613914964;7.7086935043335;3
KB4	05/02/2026	Tama Te-Whata	36.0	6278.0	14.8	359,494.00	10,822.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8707366286833,175.042786110121;6.28243079840627;11.8464498519897;4
KB4	12/02/2026	Simon Fraser	35.0	6280.0	17.4	359,736.00	10,822.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8706665139742,175.042726624567;2.92966471179343;7.09168914332986;4.02936443818856
KB4	19/02/2026	Wayne Elley	36.2	6280.0	14.7	359,747.00	10,893.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8706753934183,175.042730486183;3.53553390593274;8.903151512146;3
KB4	26/02/2026	Simon Fraser	36.0	6280.0	14.7	10,925.00	10,958.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8707354672404,175.042686713216;3.92087295439281;9.7084493637085;4
KB4	05/03/2026	Tama Te-Whata	36.0	6280.0	14.7	359,758.00	10,988.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8707076828433,175.042696966182;3.1952778743021;6.1271505355835;3
KB4	12/03/2026	Phillip MacDonald	35.0	6282.0	15.5	360,073.00	11,022.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8707078185602,175.042761681841;3.78940144401151;12.2212057113647;4
KB4	19/03/2026	Tama Te-Whata	36.0	6282.0	14.8	360,080.00	11,022.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.870702563575,175.042729952417;3.51986445639652;13.3088521957397;3
KB4	26/03/2026	Simon Fraser	36.0	6282.0	14.7	360,090.00	11,097.00	3 - No Action	Yes				OK	0	0	No action Needed	-40.8706804225602,175.042678602203;3.53553390593274;7.20655727386475;3
KB4	02/04/2026	Tama Te-Whata	36.0	6282.0	14.7	360,107.00	11,169.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8707382345121,175.042717207221;3.52467860352588;10.2215719223022;3
KB4	16/04/2026	Wayne Elley	36.2	6285.0	14.8	360,431.00	11,204.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706903972729,175.042760241599;3.53542944675124;10.7971944808963
KB4	23/04/2026	Wayne Elley	36.0	6285.0	14.6	360,439.00	11,244.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706905419472,175.042706151537;3.52769426276052;10.8877096176147;3
KB4	30/04/2026	Tama Te-Whata	36.0	6285.0	14.7	360,452.00	11,244.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8707062762356,175.042739042284;3.53523036403135;16.1848287582397;4
KB4	07/05/2026	Simon Fraser	36.0	6285.0	14.7	360,469.00	11,323.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706849522939,175.042699300244;3.52938611002051;12.2951192855835;3
KB4	14/05/2026	Wayne Elley	28.0	6287.0	23.6	360,771.00	11,360.00	2 - Clean	Yes				0	0	0	No action Needed	-40.870731034004,175.042721149305;3.51187045146536;10.4609518051147;3
KB4	21/05/2026	Wayne Elley	36.2	6288.0	14.6	360,856.00	11,397.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8706403936035,175.042721499406;3.01010749511072;6.4962911605835;4
KB4	28/05/2026	Tama Te-Whata	36.0	6288.0	14.6	360,864.00	11,430.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8707604602135,175.042731922574;11.2360796979733;8.9032735824585;4
KB4	04/06/2026	Phillip MacDonald	36.0	6288.0	14.6	360,870.00	11,483.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8709349650739,175.042963168014;12.9538491675654;3.90049524169823;29.748938875195
KB4	11/06/2026	Wayne Elley	36.0	6288.0	14.6	360,893.00	11,525.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8706715792688,175.042677763459;3.746081387642 57;7.261549949646;4
KB4	18/06/2026	Phillip MacDonald	36.0	6290.0	14.4	361,148.00	11,525.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8884216844661,175.072571723019;13.295014;39.3256031601427;3.93726994043377
KB4	25/06/2026	Simon Fraser	36.0	6290.0	14.5	361,158.00	11,598.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8707110478825,175.042708908091;3.83363179944451;8.890700340271;3

K4	03/07/2025	Phillip MacDonald	48.0	7856.0	13.7	446,580.00	7,569.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613353404174,175.0504303212;8.80578772551698;20.1552376523614;4.99437261912822
K4	10/07/2025	Simon Fraser	29.0	7859.0	28.3	447,221.00	7,582.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8612460876264,175.0503956528l5;3.53553390593274;13.9032125473022;3
K4	17/07/2025	Mitchell Sarney	49.0	7860.0	13.7	447,431.00	7,593.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613023721062,175.0504944754533;3.82131847774522;21.7364645004272;4
K4	24/07/2025	Tama Te-Whata	48.0	7860.3	13.7	447,431.00	7,605.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613693435126,175.05045147629;5.10358912513485;21.8148946762085;4
K4	31/07/2025	Phillip MacDonald	49.0	7860.0	13.7	447,431.00	7,619.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613193651858,175.0504985304l4;7.31667001518909;19.2251340392977;7.56576642660816
K4	07/08/2025	Wayne Elley	48.1	7860.0	13.7	447,431.00	7,635.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613207714684,175.0504617779261;3.52928333227346;18.441481590271;3
K4	14/08/2025	Wayne Elley	48.0	7862.0	13.8	447,976.00	7,647.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613044076556,175.0504350174l7;3.52938734676504;20.0786886215213
K4	21/08/2025	Tama Te-Whata	48.0	7862.7	13.7	447,976.00	7,660.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613361511l6,175.0504521468423;3.53553390593274;16.7738180160522;3
K4	29/08/2025	Tama Te-Whata	48.0	7862.7	13.7	447,976.00	7,676.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613142744087,175.0505083055934;4.126641581160l5;20.8501729965214
K4	04/09/2025	Wayne Elley	48.0	7862.0	13.7	447,976.00	7,690.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613403884073,175.0504319916l;4.05012092943985;19.8720235824585;4
K4	11/09/2025	Mitchell Sarney	48.0	7861.0	14.8	448,455.00	7,704.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613538772382,175.0504259901l;3.5292156156212;17.7978658676147;4
K4	18/09/2025	Tama Te-Whata	48.0	7864.9	13.7	448,455.00	7,717.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613693435126,175.0504457765l6;4.30186578377409;16.4423360824585;4
K4	25/09/2025	Phillip MacDonald	49.0	7864.0	13.7	448,455.00	7,737.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613252745356,175.0504514189661;3.79351063595431;18.2409200668335;4
K4	02/10/2025	Wayne Elley	48.1	7864.0	13.7	448,455.00	7,753.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613501908638,175.0503791404l6;4.90156292029024;17.2000875473022;4
K4	09/10/2025	Mitchell Sarney	48.0	7866.0	14.7	448,852.00	7,765.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613242069l6,175.0504207147l5;3.53553390593274;15.7749166488647;4
K4	16/10/2025	Tama Te-Whata	48.0	7866.6	13.7	448,852.00	7,777.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613899629944,175.0503522345l6;3.60676109971714;11.9783468246l6;3
K4	23/10/2025	Phillip MacDonald	49.0	7866.0	13.7	448,852.00	7,788.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613628056281,175.0504559186l9;4.94080384917935;18.868971824646;4
K4	30/10/2025	Wayne Elley	48.1	7866.0	13.7	448,852.00	7,810.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613306610294,175.0504647196l7;3.53553390593274;16.2340230941772;4
K4	06/11/2025	Mitchell Sarney	48.0	7866.0	13.7	448,852.00	7,837.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613477995744,175.0503378821l2;3.70102920641701;16.8391866683l6;4
K4	13/11/2025	Wayne Elley	47.6	7868.0	14.7	449,278.00	7,861.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613291522869,175.0504800585l;3.91332264477286;15.538649559021;3
K4	20/11/2025	Tama Te-Whata	48.0	7868.5	13.7	449,278.00	7,881.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8612603386l1,175.0504416767l5;4.06237656264356;18.1215963363647;4
K4	27/11/2025	Wayne Elley	48.0	7870.0	13.7	449,658.00	7,907.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613334116l7,175.0503987861l7;5.28032087948891;20.0962057113647;4
K4	04/12/2025	Phillip MacDonald	48.0	7870.0	13.7	449,658.00	7,907.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613307070268,175.0504387320l7;3.52937013921855;18.4681539535522;4
K4	11/12/2025	Tama Te-Whata	48.0	7872.0	13.8	450,199.00	7,926.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613212313884,175.0504821540l6;3.53553390593274;18.4260396957397;3
K4	18/12/2025	Phillip MacDonald	48.0	7872.0	13.7	450,199.00	0.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613768872254,175.0503964910l5;14;22.4625387191772;4
K4	24/12/2025	Simon Fraser	48.0	7872.0	13.7	450,199.00	0.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613866954912,175.0504507760l9;12.9666395346378;24.0750265121l6;4
K4	31/12/2025	Wayne Elley	47.9	7872.0	13.7	450,199.00	0.00	2 - Clean	0				0	0	0	No action Needed	-40.8613129751757,175.0504550803l5;2;19;
K4	08/01/2026	Wayne Elley	47.2	7874.0	15.0	450,733.00	7,944.00	2 - Clean	Yes				Ok	0	Pulled out some larger weeds	No action Needed	-40.8613187173791,175.0504369748l;3.53538281035255;16.3526754379272;3
K4	15/01/2026	Phillip MacDonald	48.0	7874.0	13.7	450,733.00	7,967.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8613109485758,175.0503829602l5;13.2204996195l7;17.945876121521;4
K4	22/01/2026	Wayne Elley	48.0	7874.0	13.7	450,733.00	7,991.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8613132726942,175.0504253191l4;3.52936405372052;14.6464986801147;3
K4	29/01/2026	Tama Te-Whata	48.0	7875.0	13.7	450,733.00	8,012.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8613614645236,175.0504306891l;3.53553390593274;14.711012840271;3
K4	05/02/2026	Tama Te-Whata	48.0	7875.0	13.7	450,733.00	8,031.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8612787351393,175.0505707507l2;8.00053331964183;17.2956075668335;4
K4	12/02/2026	Simon Fraser	48.0	7876.0	14.6	451,157.00	8,031.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8613942796747,175.0504571759l4;4.74865153019176;17.1475973455235;4.029364438188856
K4	19/02/2026	Wayne Elley	48.0	7876.0	13.8	451,157.00	8,086.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8613464494428,175.0504734696l3;3.52936611229975;18.3329610824585;4
K4	26/02/2026	Simon Fraser	48.0	7876.0	13.7	451,157.00	8,107.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8613123465l1,175.0504829084l7;3.53553390593274;19.5410299301147;3
K4	05/03/2026	Tama Te-Whata	48.0	7876.0	13.8	451,157.00	8,125.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8613038833333,175.05047445;5;7;9.5
K4	12/03/2026	Phillip MacDonald	48.0	7879.0	14.8	451,726.00	8,144.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8613105863713,175.0504404121l8;7.10611291502176;18.752760887146;4
K4	19/03/2026	Tama Te-Whata	48.0	7879.0	13.8	451,726.00	8,165.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8613127666667,175.0504705;5;7;9.5
K4	26/03/2026	Simon Fraser	48.0	7879.0	13.8	451,726.00	8,165.00	3 - No Action	Yes				OK	0	0	No action Needed	-40.8613346005241,175.0504503028l3;4.74865153019176;14.9109030095l6;4.02936443818856
K4	02/04/2026	Tama Te-Whata	48.0	7879.5	13.8	451,739.00	8,204.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8613194650637,175.0503969051l;3.52937171768344;17.5395040512085;3
K4	16/04/2026	Wayne Elley	47.9	7882.0	13.8	452,297.00	8,242.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613899201505,175.0504617870l6;3.53553207727324;17.072585105896;4
K4	23/04/2026	Wayne Elley	47.9	7882.0	13.8	452,297.00	8,260.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613318833333,175.05048265;5;5;9.5
K4	30/04/2026	Tama Te-Whata	48.0	7882.0	13.8	452,297.00	8,278.00	2 - Clean	Yes				0	0	0	No action Needed	-40.86131385,175.0504771166l7;5;4;9.5
K4	07/05/2026	Simon Fraser	48.0	7882.0	13.8	45,227.00	8,278.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613351453096,175.0504187867l5;4.5;21;
K4	14/05/2026	Wayne Elley	29.0	7884.0	28.6	452,859.00	8,313.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613530832767,175.0504600531l9;3.52138402112592;20.7801046371l6;3
K4	21/05/2026	Wayne Elley	47.8	7885.0	13.7	452,969.00	8,326.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8613343,175.0504793;5;11;9.5
K4	28/05/2026	Tama Te-Whata	48.0	7885.8	13.7	453,143.00	8,339.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613358578094,175.0504824893l2;3.53553390593274;21.811842918396;3
K4	04/06/2026	Phillip MacDonald	48.0	7885.0	13.7	444,790.00	8,353.00	2 - Clean	Yes				0	0	0	No action Needed	-40.861329523418,175.0503978627l4;4.58651015996739;17.563796043396;4
K4	11/06/2026	Wayne Elley	47.9	7885.0	13.7	453,143.00	8,365.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613097900858,175.0505027740l9;3.53544317386365;18.3256978988647;3
K4	18/06/2026	Phillip MacDonald	48.0	7887.0	13.7	453,572.00	8,378.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8613607101523,175.0504010172l3;14;20.4377584457397;4
K4	25/06/2026	Simon Fraser	48.0	7887.0	13.7	453,572.00	8,378.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8612923166667,175.05045265;5;13;9.5

K5	03/07/2025	Phillip MacDonald	55.0	5531.0	15.0	21,010.00	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567204466647,175.05230823548;7.39971153484516;11.9003438949585;4
K5	10/07/2025	Simon Fraser	24.0	5533.0	24.4	21,234.00	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567726412655,175.052343965003;4.469808483560 38;12.888258934021;4
K5	17/07/2025	Mitchell Sarney	56.0	5535.0	15.0	21,414.00	1.16	3 - No Action	Yes				0	0	0	No action Needed	-40.8566763997458,175.052244281559;14;4.03590297698975;8
K5	24/07/2025	Tama Te-Whata	55.0	5535.1	15.0	21,414.36	1.16	3 - No Action	Yes				0	0	0	No action Needed	-40.8567532617981,175.052274121135;4.485210605657 14;12.1946554519236;4.00125615153523
K5	31/07/2025	Phillip MacDonald	56.0	5535.0	15.0	21,414.36	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567404538678,175.052292909737;3.529664134787 93;11.918523271521;3
K5	07/08/2025	Wayne Elley	56.9	5535.0	15.0	21,414.36	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.856795674228,175.052323155268;6.32947365579708;12.1579122543335;4
K5	14/08/2025	Wayne Elley	56.6	5537.0	15.0	21,670.94	1.16	3 - No Action	Yes				0	0	0	No action Needed	-40.856717848257,175.052383924066;14;13.477858543396;4
K5	21/08/2025	Tama Te-Whata	55.0	5537.5	15.0	21,670.00	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8566884579472,175.052347791967;16.0037786157343;14.991470980458;8.8712205693230 6
K5	29/08/2025	Tama Te-Whata	56.0	5537.5	15.0	21,670.94	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567333881 65,175.052375459746;3.13445442851999;12.155837059021;3
K5	04/09/2025	Wayne Elley	56.9	5537.0	15.0	21,670.94	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567522822877,175.052330787061;3.8708495665995;12.1277608871 46;4
K5	11/09/2025	Mitchell Sarney	54.0	5539.0	15.5	21,893.00	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567854410482,175.0523315133;3.60331199690551;11.07124233245 85;3
K5	18/09/2025	Tama Te-Whata	56.0	5539.6	15.0	21,896.77	1.16	3 - No Action	Yes				0	0	0	No action Needed	-40.8567300010699,175.052281581617;4.15109839901138;10.4028463363647;4
K5	25/09/2025	Phillip MacDonald	56.0	5539.0	15.0	21,896.77	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567364979916,175.052296249359;3.53553390593274;10.8282613754272;3
K5	02/10/2025	Wayne Elley	57.0	5539.0	15.0	21,896.77	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8568404956262,175.052340280923;8.938375498273 81;12.7798604965 21;6
K5	09/10/2025	Mitchell Sarney	54.0	5541.0	15.5	22,089.00	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567412337669,175.052268756717;14.5597713835899;11.4853048324585;4
K5	16/10/2025	Tama Te-Whata	56.0	5541.0	15.0	22,089.55	1.16	3 - No Action	Yes				0	0	0	No action Needed	-40.8567418369153,175.052270909234;3.65813661060049;8.762526512146;3
K5	23/10/2025	Phillip MacDonald	56.0	5541.0	15.0	22,089.55	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567100530871,175.052215280174;3.77525366617013;7.7914571762085;4
K5	30/10/2025	Wayne Elley	57.0	5541.0	15.0	22,089.55	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567823050924,175.052326591848;4.47282141008736;10.8893576668335;4
K5	06/11/2025	Mitchell Sarney	55.0	5541.0	15.0	22,089.00	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567483495237,175.052320997159;13.4657699058953;8.6380758285522 5;4
K5	13/11/2025	Wayne Elley	55.2	5543.0	15.5	22,301.93	1.16	3 - No Action	Yes				0	0	0	No action Needed	-40.8566513622202,175.052230935381;4.80550714240424;8.8341207504272 5;4
K5	20/11/2025	Tama Te-Whata	55.0	5543.4	15.0	22,301.93	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567531360694,175.052311085328;3.81652991358022;10.4081563949585;3
K5	27/11/2025	Wayne Elley	56.9	5545.0	15.0	22,495.81	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8544784113772,175.054101127492;3.52936368790946;4.865309715271;3
K5	04/12/2025	Phillip MacDonald	56.0	5545.0	15.0	22,495.81	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8567114394141,175.052311078 72;3.77277057822536;8.2074728012085;4
K5	11/12/2025	Tama Te-Whata	55.0	5547.0	15.1	22,758.76	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8568293694787,175.052177310153;4.80211619682185;10.4749898910522;4
K5	18/12/2025	Phillip MacDonald	55.0	5547.0	15.0	22,758.76	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8566749178168,175.052355852581;4.40645733801188;12.4641256332397;4
K5	24/12/2025	Simon Fraser	55.0	5547.0	15.0	22,758.00	1.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8567404793956,175.052363472222;7.84221472864906;12.6341085433 96;4
K5	31/12/2025	Wayne Elley	56.9	5547.0	15.0	22,758.76	1.16	3 - No Action	Yes				0	0	0	No action Needed	-40.8568187267504,175.052311107 79;12.7047606916394;14.6856832504272;4
K5	08/01/2026	Wayne Elley	54.3	5549.0	15.6	23,013.27	1.16	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8566901263338,175.052341678501;3.11502880246723;11.5651998519897;4
K5	15/01/2026	Phillip MacDonald	55.0	5549.0	15.0	23,013.27	1.16	2 - Clean	Yes				OK	0	0	No action Needed	-40.8567702929158,175.052358938584;9.00724560616705;22.8404684066772;12
K5	22/01/2026	Wayne Elley	57.0	5549.0	15.1	23,013.27	1.16	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8566645274657,175.052324374345;3.78991201299748;12.6986227035522;3
K5	29/01/2026	Tama Te-Whata	55.0	5550.0	15.1	23,013.27	1.16	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8567813118608,175.052295353431;8.0240650612881;11.574660114944;3.42949905602185
K5	05/02/2026	Tama Te-Whata	55.0	5550.0	15.0	23,013.27	1.16	2 - Clean	Yes				OK	0	0	No action Needed	-40.8567082508924,175.052273616091;3.57859025569055;8.9655294418335;4
K5	12/02/2026	Simon Fraser	54.0	5551.0	15.5	23,214.00	1.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8567294571929,175.052305972367;4.39333332793926;10.7469015121 46;4
K5	19/02/2026	Wayne Elley	56.9	5551.0	15.0	23,214.24	1.16	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8566391066163,175.052261585875;3.66538134705144;15.173415184021;4
K5	26/02/2026	Simon Fraser	55.0	5551.0	15.0	23,214.00	1.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8567209495612,175.052362550213;3.53553390593274;15.2053365707397;3
K5	05/03/2026	Tama Te-Whata	55.0	5551.0	15.0	23,214.24	1.16	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8568033017599,175.052378140553;5.06004949367433;13.2821798324585;3
K5	12/03/2026	Phillip MacDonald	53.0	5554.0	15.5	23,486.12	1.16	2 - Clean	Yes				OK	0	0	No action Needed	-40.8567403955766,175.052308486938;14;12.33375453948 97;4
K5	19/03/2026	Tama Te-Whata	55.0	5554.0	15.1	23,486.12	1.16	2 - Clean	Yes				OK	0	0	No action Needed	-40.8567925303226,175.052332207958;4.03442062588299;11.8826436996 46;4
K5	26/03/2026	Simon Fraser	55.0	5554.0	15.1	23,486.00	1.00	3 - No Action	Yes				OK	0	0	No action Needed	-40.8567271521695,175.052330363705;3.53553390593274;11.5388936996 46;3
K5	02/04/2026	Tama Te-Whata	55.0	5554.0	15.0	23,486.12	1.16	2 - Clean	Yes				0	0	0	No action Needed	-40.8568107703224,175.052333288881;7.46743932348044;12.5760641098022;4
K5	16/04/2026	Wayne Elley	56.9	5557.0	15.1	23,760.82	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.8567813509712,175.052324306998;3.66865543342826;5.5314474105835;3
K5	23/04/2026	Wayne Elley	56.8	5557.0	15.0	23,760.82	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.8566174666667,175.052366733333;5;9;9.5
K5	30/04/2026	Tama Te-Whata	55.0	5557.0	15.0	23,760.82	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.8568044752263,175.052357856347;14;6.925551414489 75;24
K5	07/05/2026	Simon Fraser	55.0	55557.0	15.0	23,760.00	1.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8566759806126,175.05231058225;7;25;
K5	14/05/2026	Wayne Elley	26.1	5559.0	24.5	24,036.00	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.8566773288734,175.052389004233;4.7429108974186;12.7560567855835;3
K5	21/05/2026	Wayne Elley	56.8	5559.0	15.0	24,078.04	1.28	3 - No Action	Yes				0	0	0	No action Needed	-40.8566557,175.05240345;5;5;9.5
K5	28/05/2026	Tama Te-Whata	55.0	5560.7	15.1	24,156.18	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.856808590578,175.052297695252;13.7173690777945;17.7432394027 71;16
K5	04/06/2026	Phillip MacDonald	55.0	5560.0	15.0	24,156.18	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.8567772759505,175.052371183573;3.53553390593274;15.6437520980835;3
K5	11/06/2026	Wayne Elley	56.8	5560.0	15.0	24,156.00	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.8567212880397,175.052277746666;3.49877088335697;9.9901266098022 5;4
K5	18/06/2026	Phillip MacDonald	55.0	5562.0	15.0	24,357.44	1.28	2 - Clean	Yes				0	0	0	No action Needed	-40.8567524493201,175.052278892 85;13.9995192111625;7.695204734802 25;3
K5	25/06/2026	Simon Fraser	55.0	5562.0	15.0	24,357.00	1.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8566026333333,175.05248375;5;7;9.5

KB7	03/07/2025	Phillip MacDonald	40.0	2646.0	14.1	34,883.53	185.20	2 - Clean	Yes				0	0	0	No action Needed	-40.853104161295,175.059151935192;14.486464906647;-1.05708408355713;32
KB7	10/07/2025	Simon Fraser	40.0	2646.0	19.2	34,919.37	196.24	3 - No Action	Yes				0	0	0	No action Needed	-40.8533055335666,175.059118196531;4.603264484083l6;13.0258932448924;3.55450321738038
KB7	24/07/2025	Tama Te-Whata	40.0	2646.3	14.1	34,935.40	200.54	2 - Clean	Yes				0	0	0	No action Needed	-40.8532764483624,175.059173433273;3.53553390593274;15.4381246566772;3
KB7	31/07/2025	Phillip MacDonald	40.0	2646.0	14.1	34,957.88	202.48	2 - Clean	Yes				0	0	0	No action Needed	-40.8533175196942,175.059178127085;3.5355014548208;13.5189352035522;3
KB7	07/08/2025	Wayne Elley	40.1	2646.0	14.2	35,011.28	210.35	3 - No Action	Yes				0	0	0	No action Needed	-40.8533358381581,175.059132192108;3.5064671164855 2;11.3429708480835;4
KB7	14/08/2025	Wayne Elley	39.9	2647.0	14.2	35,039.13	217.44	2 - Clean	Yes				0	0	0	No action Needed	-40.8533218509886,175.059133111106;3.52937736778082;11.4491720199585;3
KB7	21/08/2025	Tama Te-Whata	40.0	2647.1	14.2	35,042.02	219.36	2 - Clean	Yes				0	0	0	No action Needed	-40.8532615285747,175.059174858197;6.85375443784078;13.3809957504272;4
KB7	29/08/2025	Tama Te-Whata	40.0	2647.1	14.2	35,042.42	219.40	2 - Clean	Yes				0	0	0	No action Needed	-40.8533353731417,175.059132948681;3.53553390593274;13.8035421371 46;3
KB7	04/09/2025	Wayne Elley	40.1	2647.0	14.1	35,065.00	219.00	2 - Clean	Yes				0	0	0	No action Needed	-40.853282374565,175.059128106637;3.529422736029 95;9.80067348480225;3
KB7	11/09/2025	Mitchell Sarney	39.0	2648.0	14.5	35,065.17	219.17	3 - No Action	Yes				0	0	0	No action Needed	-40.8533061499732,175.059145614417;3.5293861056945 1;11.728346824646;3
KB7	18/09/2025	Tama Te-Whata	40.0	2648.2	14.2	35,065.17	219.46	2 - Clean	Yes				0	0	0	No action Needed	-40.8532998757817,175.059151305049;4.45372470058608;11.5470724105835;6
KB7	25/09/2025	Phillip MacDonald	40.0	2648.0	14.2	35,065.17	219.46	2 - Clean	Yes				0	0	0	No action Needed	-40.8533377673767,175.059172277495;4.20134306661499;9.9799337387085;4
KB7	02/10/2025	Wayne Elley	40.2	2648.0	14.1	35,109.00	219.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8533008293539,175.059107051741;3.53179074578224;9.77369594573975;3
KB7	09/10/2025	Mitchell Sarney	39.0	2650.0	14.5	35,109.77	219.46	3 - No Action	Yes				0	0	0	No action Needed	-40.853332397566,175.059125321149;3.53553390593274;9.5304708480835;3
KB7	16/10/2025	Tama Te-Whata	40.0	2650.2	14.2	35,109.78	219.46	2 - Clean	Yes				0	0	0	No action Needed	-40.8533531846859,175.059162872075;3.53553390593274;9.085768699646;4
KB7	23/10/2025	Phillip MacDonald	40.0	2650.0	14.2	35,109.87	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.853236205608,175.059258304162;12.9408847641372;12.0113668441772;4
KB7	30/10/2025	Wayne Elley	40.2	2650.0	14.2	35,109.00	219.00	2 - Clean	Yes				0	0	0	No action Needed	-40.853313204895,175.059119623959;3.5355320435078;10.7104024887085;4
KB7	06/11/2025	Mitchell Sarney	40.0	2650.0	14.2	35,156.36	219.61	3 - No Action	Yes				0	0	0	No action Needed	-40.8533547400698,175.059137423492;3.52103591874641;10.6196432113647;3
KB7	13/11/2025	Wayne Elley	39.0	2652.0	14.4	35,156.36	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8533617774443,175.059219954445;3.54136362100469;10.8173971176147;4
KB7	20/11/2025	Tama Te-Whata	40.0	2652.4	14.2	35,196.31	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8532458125063,175.059248618945;5.97109203441722;14.785231590271;4
KB7	27/11/2025	Wayne Elley	40.0	2654.0	14.2	35,196.31	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8533112171234,175.059157827885;3.52937878439462;11.2209615707397;4
KB7	04/12/2025	Phillip MacDonald	40.0	2654.0	14.2	35,248.24	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8533155552731,175.05920262112;13.9987616107633;10.7223043441772;4
KB7	11/12/2025	Tama Te-Whata	40.0	2656.6	14.2	35,248.24	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8533457062565,175.059183961294;2.46727656691685;16.7529439926147;3
KB7	18/12/2025	Phillip MacDonald	40.0	2656.0	14.2	35,248.00	219.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8533304614019,175.059062218741;13.9996498528885;10.9903707504272;4
KB7	24/12/2025	Simon Fraser	40.0	2656.0	14.2	35,248.24	219.61	3 - No Action	0				0	0	0	No action Needed	-40.8533421205357,175.05916479975;2;29;
KB7	31/12/2025	Wayne Elley	40.0	2656.0	14.2	0.00	0.00	2 - Clean	0				0	0	0	No action Needed	-40.8532894498514,175.059120786444;3.5293645994158;9.9997091293335;3
KB7	08/01/2026	Wayne Elley	38.5	2659.0	14.5	35,304.75	219.61	2 - Clean	Yes				Ok	Weeds weeds weeds	Pulled out some larger weeds	No action Needed	-40.8532910634989,175.059185415382;3.5293684102925;8.65376186370 85;4
KB7	15/01/2026	Phillip MacDonald	40.0	2659.0	14.2	35,304.75	219.61	2 - Clean	Yes				OK	Could do with weed spray	Weed spray done	No action Needed	-40.8532791197577,175.05917457343;3.49690730991345;12.7541646957397;3
KB7	22/01/2026	Wayne Elley	40.0	2659.0	14.2	35,304.75	219.61	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8532704133921,175.05917980352;3.53553390593274;6.99659633636475;3
KB7	29/01/2026	Tama Te-Whata	40.0	2659.0	14.2	35,304.75	219.61	2 - Clean	Yes				Ok	0	0	No action Needed	-40.85314636377,175.059309193878;13.1040458697001;11.0252828598022;3
KB7	05/02/2026	Tama Te-Whata	40.0	2659.2	14.2	35,304.75	219.61	2 - Clean	Yes				OK	0	0	No action Needed	-40.8532995304342,175.059272479609;13.3553504589932;11.1617574691772;3
KB7	12/02/2026	Simon Fraser	39.0	2661.0	14.5	35,345.00	219.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8533207467206,175.059149963944;3.53553390593274;10.7277364730835;3
KB7	19/02/2026	Wayne Elley	39.9	2661.0	14.2	35,345.86	219.61	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8533829180692,175.059176900794;3.56626290959367;11.3569478988647;3
KB7	26/02/2026	Simon Fraser	40.0	2661.0	14.2	35,345.00	219.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8533175561645,175.059023476561;3.52936521412932;10.2096090316772;3
KB7	05/03/2026	Tama Te-Whata	40.0	2661.0	14.2	35,345.86	219.61	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8533261548688,175.059035720161;4.7337749976382;9.31989959254861;4.02936443818856
KB7	12/03/2026	Phillip MacDonald	39.0	2663.0	14.5	35,400.48	219.61	2 - Clean	Yes				OK	0	0	No action Needed	-40.8532936731734,175.059258341952;3.53553390593274;19.5436544418335;3
KB7	19/03/2026	Tama Te-Whata	40.0	2663.0	14.2	35,400.00	219.61	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8533221500957,175.059167809603;3.48320928776646;12.3066137298457;3.00019271210504
KB7	26/03/2026	Simon Fraser	40.0	2663.0	14.2	35,400.00	219.00	3 - No Action	Yes				OK	0	0	No action Needed	-40.8532573626138,175.059161908574;7.28330792448494;11.8022603988647;4
KB7	02/04/2026	Tama Te-Whata	40.0	2663.7	14.2	35,402.51	219.61	2 - Clean	Yes				OK	0	0	No action Needed	-40.8533177554604,175.059143623877;2.74207426306329;12.1867819167674;4.02936443818856
KB7	16/04/2026	Wayne Elley	39.8	2666.0	14.2	35,461.15	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8533139992886,175.0591572562;3.53553390593274;12.9831686019897;3
KB7	23/04/2026	Wayne Elley	39.9	2666.0	14.2	35,461.15	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8533377915992,175.059133022591;13.9898108584248;6.7743673324585;12
KB7	30/04/2026	Tama Te-Whata	40.0	2666.5	14.2	35,461.15	219.61	2 - Clean	Yes				0	0	0	No action Needed	-40.8532715,175.059131866667;5;2;9.5
KB7	07/05/2026	Simon Fraser	40.0	2666.0	14.2	35,461.00	219.00	3 - No Action	Yes				0	0	0	No action Needed	-40.853272,175.059089283333;5;7;9.5
KB7	14/05/2026	Wayne Elley	12.0	2667.0	25.6	35,485.84	220.55	2 - Clean	Yes				0	0	0	No action Needed	-40.8532692333333,175.059033783333;5;-2;9.5
KB7	21/05/2026	Wayne Elley	40.1	2667.0	14.2	35,495.14	220.57	3 - No Action	Yes				0	0	0	No action Needed	-40.8532808,175.059009066667;5;3;9.5
KB7	28/05/2026	Tama Te-Whata	40.0	2667.8	14.2	35,495.32	220.60	2 - Clean	Yes				0	0	0	No action Needed	-40.8533193193398,175.05914092869;3.48332237284342;13.7719259262085;3
KB7	04/06/2026	Phillip MacDonald	40.0	2667.0	14.2	35,495.49	220.49	2 - Clean	Yes				0	0	0	No action Needed	-40.8532672333333,175.059114166667;5;4;9.5
KB7	11/06/2026	Wayne Elley	40.2	2667.0	14.1	35,495.79	220.71	2 - Clean	Yes				0	0	0	No action Needed	-40.8532308907138,175.059056089906;13.9999995118294;11.7630147933 96;3
KB7	18/06/2026	Phillip MacDonald	40.0	2669.0	14.1	35,518.68	221.20	2 - Clean	Yes				0	0	0	No action Needed	-40.8533146680658,175.059172178068;3.5355319411917;11.0340108871 46;3
KB7	25/06/2026	Simon Fraser	40.0	2669.0	14.1	35,520.00	221.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8533165964914,175.059119789887;3.66843993627629;10.6732320785522;4

K12	03/07/2025	Phillip MacDonald	60.8	1182.0	14.4	45,316.58	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556548322258,175.06215144164;3.54778584843624;11.6180562973022;4
K12	10/07/2025	Simon Fraser	23.1	1184.0	36.2	45,386.00	60.12	3 - No Action	Yes				0	0	0	No action Needed	-40.8556405641519,175.062145237043;3.53553390593274;12.1936178207397;3
K12	17/07/2025	Mitchell Sarney	60.9	1185.0	14.4	45,426.00	60.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8556259464281,175.062162343518;3.52852550869449;15.3314962387085;3
K12	24/07/2025	Tama Te-Whata	60.9	1185.8	14.4	45,426.55	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556748880454,175.062216147943;5.48818478560544;8.683913230896;3
K12	31/07/2025	Phillip MacDonald	60.9	1185.0	14.4	45,426.55	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556196999353,175.06216861843;3.52385150913454;11.3498067855835;3
K12	07/08/2025	Wayne Elley	60.9	1185.0	14.4	45,426.55	60.12	3 - No Action	Yes				0	0	0	No action Needed	-40.8556261426275,175.062174706353;3.52940083204324;5.29603481292725;3
K12	14/08/2025	Wayne Elley	60.7	1187.0	14.4	45,494.40	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556384099079,175.062157980554;3.52938774092997;10.3259420394897;3
K12	21/08/2025	Tama Te-Whata	60.9	1187.7	14.4	45,494.40	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556418633469,175.062199719413;4.50342107739374;10.3542013168335;4
K12	29/08/2025	Tama Te-Whata	61.0	1187.4	14.4	45,494.40	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556560706728,175.061966702505;4.2001586072337;20.4203634262085;3
K12	04/09/2025	Wayne Elley	60.9	1187.0	14.4	45,494.40	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556344905359,175.0621188733;3.589784809985;9.179945945733975;3
K12	11/09/2025	Mitchell Sarney	59.9	1188.0	14.5	45,554.00	60.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8556146259l5,175.062150100293;3.53553388460594;11.17182826995853
K12	18/09/2025	Tama Te-Whata	60.9	1188.9	14.4	45,584.93	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556486537447,175.062210768565;4.10581187622669;5.81709194183335;4
K12	25/09/2025	Phillip MacDonald	60.9	1188.0	14.4	45,554.93	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556648297616,175.062116990029;3.53553390593274;13.04774737973022;4
K12	02/10/2025	Wayne Elley	60.9	1188.0	14.4	45,554.93	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556280304034,175.062119770554;3.71040673234037;8.994032859802254
K12	09/10/2025	Mitchell Sarney	59.9	1190.0	14.5	45,606.00	60.12	3 - No Action	Yes				0	0	0	No action Needed	-40.8556535980113,175.062122857361;3.53553390593274;10.5200338363647;3
K12	16/10/2025	Tama Te-Whata	60.9	1190.0	14.4	45,606.45	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556388039522,175.062167029991;3.53553390593274;12.468581199646;3
K12	23/10/2025	Phillip MacDonald	61.0	1190.0	14.4	45,606.45	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556031466226,175.062092455565;13.3360088845768;9.095778465271;3
K12	30/10/2025	Wayne Elley	60.9	1190.0	14.4	45,606.45	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556265076135,175.062167380341;3.52936405254531;12.32124233245853
K12	06/11/2025	Mitchell Sarney	60.9	1190.0	14.4	45,606.00	60.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8556420235826,175.062087791508;3.52938761138378;11.5090475082397;3
K12	13/11/2025	Wayne Elley	59.8	1192.0	14.5	45,668.84	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556368752282,175.06217616552;3.53543339238112;9.628798484802254
K12	20/11/2025	Tama Te-Whata	60.8	1192.8	14.4	45,668.84	60.12	2 - Clean	Yes				0	0	0	No action Needed	-40.8556395583235,175.062627280294;11.832542979l376;6.26161098480225;4
K12	27/11/2025	Wayne Elley	60.8	1194.0	14.4	45,722.06	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556252671786,175.062151272013;3.53553390593274;12.1592550277713
K12	04/12/2025	Phillip MacDonald	60.8	1194.0	14.4	45,722.06	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556179749229,175.062092179596;3.60101734138415;10.0827779769897;3
K12	11/12/2025	Tama Te-Whata	60.7	1195.0	14.4	45,791.00	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556880057239,175.062074242323;4.35626266803222;9.395583152771;3
K12	18/12/2025	Phillip MacDonald	60.7	1195.0	14.4	45,791.01	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556572857142,175.062168455006;3.53553384314933;10.6435079574585;3
K12	24/12/2025	Simon Fraser	60.8	1195.0	14.4	45,791.00	60.00	2 - Clean	Yes				0	0	0	No action Needed	-40.855671283789,175.062178177759;2.5;17;
K12	31/12/2025	Wayne Elley	60.8	1195.0	14.4	45,791.01	60.13	0	Yes				0	0	0	No action Needed	-40.8556815502728,175.062110955781;3.89294615404521;11.445143699646;4
K12	08/01/2026	Simon Fraser	25.0	1196.0	36.9	45,815.00	60.00	3 - No Action	Yes				OK	Motor temperature is normally 14 degrees going back over history. Today	0	No action Needed	-40.8556534388l5,175.062128314612;3.52938610823049;8.7665548324585;3
K12	15/01/2026	Phillip MacDonald	60.6	1198.0	14.4	45,866.53	60.13	2 - Clean	Yes				Ok	No power on HMI	0	No action Needed	-40.8557590239297,175.063067727801;14.5879260402891;9.82337856292725;4.000066269411 88
K12	22/01/2026	Wayne Elley	60.7	1198.0	14.4	45,866.53	60.13	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8556651564215,175.062139676038;3.87185650684861;6.878798484802254
K12	29/01/2026	Tama Te-Whata	60.7	1198.0	14.4	45,866.53	60.13	2 - Clean	Yes				OK	0	0	No action Needed	-40.8556336667155,175.062162019652;2.64531838039394;12.2514351410791;3
K12	05/02/2026	Tama Te-Whata	60.6	1198.0	14.4	45,866.53	60.13	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8556413998501,175.062147665588;3.53141276388008;11.2902975082397;3
K12	12/02/2026	Simon Fraser	59.0	1199.0	14.5	45,922.00	60.00	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8556291647636,175.062114475458;3.53553390593274;12.8596334457397;3
K12	26/02/2026	Simon Fraser	60.6	1199.0	14.4	45,922.00	60.00	2 - Clean	Yes				Ok	0	0	No action Needed	-40.855619387149,175.062184926758;3.53196003371377;9.53871059417725;3
K12	05/03/2026	Tama Te-Whata	60.6	1199.0	14.4	45,922.24	60.13	3 - No Action	Yes				Ok	0	0	No action Needed	-40.8556404384234,175.062177675008;3.53553390593274;13.2384786605835;3
K12	12/03/2026	Phillip MacDonald	59.5	1199.0	14.5	45,985.98	60.13	2 - Clean	Yes				OK	0	0	No action Needed	-40.855624669352,175.062160387973;3.56586220712734;9.82936000823975;4
K12	19/03/2026	Tama Te-Whata	60.5	1202.0	14.3	45,985.98	60.13	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8556372165215,175.062145830991;4.05566717696133;11.4480123519897;4
K12	26/03/2026	Simon Fraser	60.5	1203.0	14.3	45,985.00	60.00	2 - Clean	Yes				OK	0	0	No action Needed	-40.8556437911846,175.062120678066;14;10.0871725082397;3
K12	02/04/2026	Tama Te-Whata	60.5	1203.0	14.4	45,988.67	60.13	3 - No Action	Yes				OK	0	0	No action Needed	-40.8556103054816,175.062128892331;4.74865153019176;10.1651754714549;4.029364438188 56
K12	16/04/2026	Wayne Elley	60.5	1202.1	14.4	46,066.27	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556279785915,175.062080699787;4.1660743308723;14.4520406723022;4
K12	23/04/2026	Wayne Elley	60.6	1204.0	14.3	46,066.27	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556713333333,175.062118916667;5;3;9.5
K12	30/04/2026	Tama Te-Whata	60.7	1204.0	14.3	46,066.27	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.85566445,175.062116233333;5;4;9.5
K12	14/05/2026	Wayne Elley	22.9	1204.7	37.5	46,147.00	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556744098261,175.062209316122;6.727316783586 54;8.72560024261475;4
K12	21/05/2026	Wayne Elley	60.7	1207.0	14.4	46,149.12	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556174953872,175.062121866667;3.53552907851874;11.2882833480835;3
K12	28/05/2026	Tama Te-Whata	60.6	1207.0	14.4	46,165.84	60.13	3 - No Action	Yes				0	0	0	No action Needed	-40.8556769333333,175.062121183333;5;3;9.5
K12	04/06/2026	Phillip MacDonald	60.7	1207.9	14.4	46,165.84	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556535992196,175.062122855127;6.84755610233166;11.730055809021;4
K12	11/06/2026	Wayne Elley	60.8	1207.0	14.4	46,165.00	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556368318856,175.062149329438;3.52966482918329;11.6923360824585;3
K12	18/06/2026	Phillip MacDonald	60.8	1207.0	14.4	46,222.00	60.13	2 - Clean	Yes				0	0	0	No action Needed	-40.8556484863997,175.062131415017;3.5270220126912;12.059157371521;3
K12	25/06/2026	Simon Fraser	60.0	1209.0	14.4	46,222.00	60.00	2 - Clean	Yes				0	0	0	No action Needed	-40.8556837424872,175.062107657885;3.26683939378631;14.0011739730835;3

Kāpiti Coast DISTRICT COUNCIL
Me Huri Whakamuri, Ka Titiro Whakamua

N2	03/07/2025	Phillip MacDonald	42.1	814.0	13.1	80,554.19	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449948991206,175.072659820821;13.8126525224952;13.9582662582397;3
N2	10/07/2025	Simon Fraser	37.1	815.0	26.1	80,609.00	10.85	3 - No Action	Yes				0	0	0	No action Needed	-40.8450026717417,175.07263795489;3.53553390593274;10.8886861801147;3
N2	17/07/2025	Mitchell Sarney	42.2	818.0	13.1	80,927.00	10.85	3 - No Action	Yes				0	0	0	No action Needed	-40.8450047672175,175.072690593242;3.53553390593274;14.430006980896;3
N2	24/07/2025	Tama Te-Whata	42.2	818.0	13.1	80,947.18	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449404361107,175.072648935183;3.909080470874 44;11.2992086410522;3
N2	31/07/2025	Phillip MacDonald	42.2	818.0	13.1	80,970.38	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449495816489,175.072747077261;4.982777585720 41;9.431715965271;3
N2	07/08/2025	Wayne Elley	42.1	818.0	13.1	80,988.56	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450478257524,175.072623586703;3.66306486916382;7.04127407073975;3
N2	14/08/2025	Wayne Elley	42.1	820.0	13.2	81,211.98	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450238894268,175.072634512814;3.52911150288655;10.6750020980835;3
N2	21/08/2025	Tama Te-Whata	42.1	820.8	13.1	81,233.86	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450091927405,175.072638428617;4.59225688321417;12.7933492660522;4
N2	29/08/2025	Tama Te-Whata	42.2	820.8	13.1	81,259.75	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449738270667,175.072770118875;10.6210922450792;9.83103279769421;6.68447683097917
N2	04/09/2025	Wayne Elley	42.1	820.0	13.1	81,282.37	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450530353612,175.072692921663;3.1883384745733;10.3595113754272;3
N2	11/09/2025	Phillip MacDonald	37.2	821.2	26.4	81,342.60	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8451788142026,175.072520439803;13.3833129422309;11.7428731918335;4
N2	18/09/2025	Tama Te-Whata	42.2	822.9	13.1	81,517.78	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450033074269,175.072642239873;3.44236702999286;10.0678853988647;3
N2	25/09/2025	Phillip MacDonald	42.2	822.0	13.1	81,546.71	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449681918899,175.072601056431;4.68191688555105;9.4464864730835;3
N2	02/10/2025	Wayne Elley	42.1	822.0	13.1	81,577.23	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449955092282,175.072670197327;3.53454004995269;9.7626485824585;3
N2	09/10/2025	Wayne Elley	37.3	823.0	25.4	81,633.81	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450563825419,175.072670545637;3.5293911059575;14.1436910629272;3
N2	16/10/2025	Tama Te-Whata	42.2	824.7	13.1	81,799.69	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450055586612,175.072540107717;3.6881373542616 9;9.86988735198975;3
N2	23/10/2025	Tama Te-Whata	42.2	827.7	13.1	81,836.24	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450067369648,175.072556147515;3.53553390593274;12.8108053207397;3
N2	30/10/2025	Wayne Elley	42.1	824.0	13.1	81,871.47	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449952510067,175.072660667129;3.50553671720079;11.7829732894897;3
N2	06/11/2025	Mitchell Sarney	42.1	824.0	13.1	81,913.00	10.85	3 - No Action	Yes				0	0	0	No action Needed	-40.8450199803718,175.072614653199;3.53553390593274;9.74818325042725;3
N2	13/11/2025	Simon Fraser	37.1	825.0	25.3	81,988.00	10.85	3 - No Action	Yes				0	0	0	No action Needed	-40.8450658293441,175.07268698886;3.5;13;
N2	20/11/2025	Mitchell Sarney	42.0	826.0	13.1	82,192.00	10.85	3 - No Action	Yes				0	0	0	No action Needed	-40.8450264344372,175.072616581037;3.53553390593274;17.016127586364 7;3
N2	27/11/2025	Wayne Elley	42.0	828.0	13.1	82,394.18	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450061221434,175.072653609568;3.7114477416434;8.5619649887085;3
N2	04/12/2025	Phillip MacDonald	42.2	828.0	13.1	82,437.65	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.845009631758,175.072610394429;3.52938627606296;11.8761739730835;3
N2	11/12/2025	Tama Te-Whata	42.0	831.0	13.1	82,686.56	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449745673433,175.072610388363;3.96769040734701;11.5373678207397;4
N2	18/12/2025	Wayne Elley	41.9	831.0	13.0	82,729.86	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8449761011111,175.072636446146;3.53553387351491;12.2724752426147;3
N2	24/12/2025	Simon Fraser	42.0	831.0	13.1	82,767.00	10.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8450119756162,175.072665950283;2;20;
N2	30/12/2025	Wayne Elley	41.9	831.0	13.0	82,813.40	10.85	2 - Clean	Yes				0	0	0	No action Needed	-40.8450278861212,175.072657057477;3.5293852465312 6;12.3899068832397;4
N2	08/01/2026	Simon Fraser	37.1	831.0	23.8	82,856.00	10.00	3 - No Action	Yes				OK	Weeds need attention	0	No action Needed	-40.8450131360055,175.072648701022;3.52938610619491;10.654616355896;3
N2	15/01/2026	Phillip MacDonald	41.9	833.0	13.1	83,113.35	10.90	2 - Clean	Yes				Ok	Overgrown with weeds	0	No action Needed	-40.8449712554882,175.072664085529;13.9221131634355;8.907362937927 25;4
N2	22/01/2026	Wayne Elley	41.9	833.0	13.1	83,159.47	10.90	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8450273983563,175.07269159907;4.74865153019176;9.344008479267 36;4.02936443818856
N2	29/01/2026	Tama Te-Whata	41.9	833.9	13.0	83,213.20	10.90	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8450020173301,175.072655528774;2.72417675321977;5.58851528167725;3
N2	05/02/2026	Tama Te-Whata	41.8	833.9	13.0	83,277.29	10.90	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8450073130812,175.072654805063;13.9990153499816;19.7866964340218;8
N2	12/02/2026	Tama Te-Whata	37.0	834.0	25.9	83,368.97	10.90	2 - Clean	Yes				OK	0	0	No action Needed	-40.8450076003614,175.072592190897;3.48839630034249;9.97779750823975;3
N2	19/02/2026	Tama Te-Whata	41.9	835.8	13.1	83,540.86	10.90	2 - Clean	Yes				Ok	0	0	No action Needed	-40.8449998591787,175.072607388082;4.72995825711772;9.6337423324585;3
N2	26/02/2026	Simon Fraser	41.8	835.0	13.0	83,596.00	10.00	3 - No Action	Yes				OK	0	0	No action Needed	-40.8449877845356,175.072689682925;3.44072024458238;18.0848531723022;3
N2	05/03/2026	Tama Te-Whata	41.8	835.0	13.0	83,649.42	10.90	2 - Clean	Yes				OK	0	0	No action Needed	-40.8450358986195,175.072656942706;3.50488211952584;7.0580587387085;3
N2	12/03/2026	Tama Te-Whata	36.8	836.3	26.8	83,747.84	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.8450101203884,175.072500779264;12.2162725295314;17.5896139144897;8
N2	19/03/2026	Tama Te-Whata	41.8	838.0	13.0	83,961.00	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.8450532796564,175.072645253285;13.5506443620024;12.428297996521;16
N2	26/03/2026	Simon Fraser	41.7	838.0	13.8	84,005.00	10.90	3 - No Action	Yes				0	0	0	No action Needed	-40.8450180944438,175.072659999295;4.74865153019176;12.1337423641235;4.029364438188 56
N2	02/04/2026	Tama Te-Whata	41.8	838.0	13.0	84,047.55	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.845021950119,175.072669554665;4.90367658973994;21.4264669418335;6
N2	09/04/2026	Tama Te-Whata	36.7	839.1	27.0	84,138.63	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.8449763945062,175.072672152946;3.53554523498658;12.380202293396;3
N2	16/04/2026	Wayne Elley	41.8	841.0	13.1	84,333.30	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.844993476167,175.072676296992;3.52937975986773;13.8283224105835;3
N2	23/04/2026	Wayne Elley	41.9	841.0	13.1	84,345.87	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.845035464442,175.072647226315;3.68434561214434;12.477065086364 7;4
N2	30/04/2026	Tama Te-Whata	42.7	841.1	13.1	84,359.60	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.8449800383289,175.072635360708;3.61049743532643;7.35877895355225;3
N2	07/05/2026	Simon Fraser	42.0	841.0	13.0	84,374.00	10.98	3 - No Action	Yes				0	0	0	No action Needed	-40.8449684630909,175.072625675 09;2.5036942599329;10.546462059021;3
N2	14/05/2026	Simon Fraser	36.8	841.0	26.8	84,449.00	10.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8450561035672,175.072669549271;3.20514315047481;11.2169332504272;3
N2	21/05/2026	Wayne Elley	41.9	843.0	13.1	84,653.71	10.90	3 - No Action	Yes				0	0	0	No action Needed	-40.845033190013,175.07267861511;4.74265385797984;11.1568138645962;4.02936443818852
N2	28/05/2026	Tama Te-Whata	42.0	843.9	13.0	84,671.74	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.8448700893796,175.072751575415;13.7757797341142;10.682936668396;8
N2	04/06/2026	Phillip MacDonald	42.0	843.0	13.1	84,693.84	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.844977176083,175.072648867962;3.73219996808645;10.6774435043335;4
N2	11/06/2026	Wayne Elley	42.0	843.0	13.1	84,711.00	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.8450502704828,175.072659091754;3.5264252462572;13.168776512146;3
N2	18/06/2026	Phillip MacDonald	42.1	845.0	13.1	84,893.54	10.90	2 - Clean	Yes				0	0	0	No action Needed	-40.8450767613633,175.072668777709;3.86997099320746;8.83473110198975;3

N2	25/06/2026	Simon Fraser	42.0	845.0	13.1	84,913.00	10.00	3 - No Action	Yes				0	0	0	No action Needed	-40.8449844298894,175.072634431865;3.52938610980124;15.5528707504272;3

Appendix D

Bore Water Quality Sampling Results

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-25-NW-106978-01** REPORT DATE **15/12/2025**

Attention Kapiti Coast District Council
Kim Mazur
175 Rimu Road
5032 Paraparaumu
NEW ZEALAND
Phone +64275554729
Email Kim.Mazur@kapiticoast.govt.nz
Copy to: Coley (Marcus.Coley@kapiticoast.govt.nz)

Contact for your orders: Binu Chaudhary **Order code:** EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples **Purchase Order Number:** 402397

SAMPLE CODE **812-2025-00202066**

Sample Name NW0002254016:Bore K4
Sampling Point code: NW0002254016 **Sampling Point name:** Bore K4
Reception Date & Time: 08/12/2025 12:35
Analysis Started on: 09/12/2025 **Analysis Ending Date:** 15/12/2025
Sampling date 08/12/2025 **Product Type** Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	103	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	103	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.21	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	78.0	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.28	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	14.0	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	48.2	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	6	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	26	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.4	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.122	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	3.97	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0008	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	<0.005	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	3.89	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.140	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	1.81	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	82.3	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.004	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.046	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.103	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.6		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	265	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	0.8	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	4.55	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	4.15	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	4.66	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	236	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	<0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.081	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.02	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

Marylou Cabral Laboratory Manager
Eurofins ELS Limited

Divina Cunanan Lagazon Laboratory Supervisor
Eurofins ELS Limited

Gordon McArthur Senior Laboratory Analyst
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EXPLANATORY NOTE

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②Test is subcontracted within Eurofins group and is accredited
③Test is subcontracted within Eurofins group and is not accredited
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⑤Test is subcontracted outside Eurofins group and is not accredited
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⑩Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓(Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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END OF REPORT

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-25-NW-107553-01	REPORT DATE	17/12/2025

Attention Kapiti Coast District Council
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Contact for your orders: Binu Chaudhary
Order code: EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples
Purchase Order Number: 402397

SAMPLE CODE	812-2025-00202067

Sample Name NW0002254017:Bore K5
Sampling Point code: NW0002254017
Sampling Point name: Bore K5
Reception Date & Time: 08/12/2025 12:35
Analysis Started on: 09/12/2025
Analysis Ending Date: 17/12/2025
Sampling date 08/12/2025
Product Type Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	231	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	233	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.05	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	213	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.78	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	0.44	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	110	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	4	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	146	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.2	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.682	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	35.7	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0009	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	<0.005	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	13.9	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0735	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	8.72	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	162	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.002	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.341	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.104	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	8.1		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	604	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	0.3	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	10.7	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	10.2	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	2.28	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	539	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	<0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.091	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.36	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

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Gordon McArthur Senior Laboratory Analyst, Eurofins ELS Limited





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EXPLANATORY NOTE

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⑥Test result is provided by the customer and is not accredited
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⑧Tested at the sampling point by Eurofins and is accredited
⑨Test is RLP accredited
⑩Test is subcontracted within Eurofins group and is RLP accredited

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LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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END OF REPORT

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-25-NW-107554-01	REPORT DATE	17/12/2025

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Contact for your orders: Binu Chaudhary
Order code: EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples
Purchase Order Number: 402397

SAMPLE CODE	812-2025-00202068

Sample Name NW0002254018:Bore K6
Sampling Point code: NW0002254018
Sampling Point name: Bore K6
Reception Date & Time: 08/12/2025 12:35
Analysis Started on: 09/12/2025
Analysis Ending Date: 17/12/2025
Sampling date 08/12/2025
Product Type Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	275	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	276	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.03	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	193	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.76	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	0.29	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	112	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	10	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	149	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.3	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.929	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	35.0	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	<0.0005	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	<0.005	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	14.9	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0839	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	11.1	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	166	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.003	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.503	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.070	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.7		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	617	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	0.1	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	11.0	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	10.5	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	2.44	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	550	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	<0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.054	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.52	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

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EXPLANATORY NOTE

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⑨Test is RLP accredited
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N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-25-NW-107552-01	REPORT DATE	17/12/2025

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Contact for your orders: Binu Chaudhary
Order code: EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples
Purchase Order Number: 402397

SAMPLE CODE	812-2025-00202065

Sample Name NW0002254014:Bore K10
Sampling Point code: NW0002254014
Sampling Point name: Bore K10
Reception Date & Time: 08/12/2025 12:35
Analysis Started on: 09/12/2025
Analysis Ending Date: 17/12/2025
Sampling date 08/12/2025
Product Type Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	210	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	211	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.03	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	129	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.55	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	<0.02	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	80.7	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	10	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	187	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.6	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.209	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	53.7	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0008	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	<0.005	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	12.7	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.169	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	8.66	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	87.2	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.004	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.233	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.061	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.6		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	444	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	0.2	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	7.87	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	7.76	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	0.68	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	396	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.039	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.24	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

Marylou Cabral Laboratory Manager, Eurofins ELS Limited

Divina Cunanan Lagazon Laboratory Supervisor, Eurofins ELS Limited

Gordon McArthur Senior Laboratory Analyst, Eurofins ELS Limited

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-25-NW-106977-01	REPORT DATE	15/12/2025

Attention Kapiti Coast District Council
Kim Mazur
175 Rimu Road
5032 Paraparaumu
NEW ZEALAND
Phone +64275554729
Email Kim.Mazur@kapiticoast.govt.nz
Copy to: Coley (Marcus.Coley@kapiticoast.govt.nz)

Contact for your orders: Binu Chaudhary **Order code:** EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples **Purchase Order Number:** 402397

SAMPLE CODE	812-2025-00202064		
Sample Name	NW0002254020:Bore K12		
Sampling Point code:	NW0002254020	**Sampling Point name:**	Bore K12
Reception Date & Time:	08/12/2025 12:35		
Analysis Started on:	09/12/2025	**Analysis Ending Date:**	15/12/2025
Sampling date	08/12/2025	**Product Type**	Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	90	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	90	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.08	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	96.8	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.33	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	16.3	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	52.2	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	3	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	85	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.4	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.575	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	19.3	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0008	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	0.008	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	9.00	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0127	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	2.05	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	65.2	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.003	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.003	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.039	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.8		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	287	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	<0.1	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	4.91	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	4.59	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	3.37	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	256	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	<0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.036	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	<0.01	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

Marylou Cabral Laboratory Manager
Eurofins ELS Limited

Divina Cunanan Lagazon Laboratory Supervisor
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Gordon McArthur Senior Laboratory Analyst
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Gabriela Carvalhaes Business Unit Manager Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited

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②Test is subcontracted within Eurofins group and is accredited
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LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
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MAV means Maximum Allowable Value

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END OF REPORT





Gabriela Carvalhaes Business Unit Manager Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited

EXPLANATORY NOTE

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⑧Tested at the sampling point by Eurofins and is accredited
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⑩Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-25-NW-107555-01	REPORT DATE	17/12/2025

Attention Kapiti Coast District Council
Kim Mazur
175 Rimu Road
5032 Paraparaumu
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Phone +64275554729
Email Kim.Mazur@kapiticoast.govt.nz
Copy to: Coley (Marcus.Coley@kapiticoast.govt.nz)

Contact for your orders: Binu Chaudhary **Order code:** EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples **Purchase Order Number:** 402397

SAMPLE CODE	812-2025-00202069		
Sample Name	NW0002254015:Bore KB4		
Sampling Point code:	NW0002254015	**Sampling Point name:**	Bore KB4
Reception Date & Time:	08/12/2025 12:35		
Analysis Started on:	09/12/2025	**Analysis Ending Date:**	17/12/2025
Sampling date	08/12/2025	**Product Type**	Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	191	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	192	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.03	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	274	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.98	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	2.04	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	120	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	6	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	159	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.4	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.361	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	43.1	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0007	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	<0.005	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	12.5	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0297	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	7.70	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	173	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.003	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.079	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.027	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.8		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	662	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	<0.1	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	11.6	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	10.9	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	3.11	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	590	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	<0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.025	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.08	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

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LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-25-NW-107556-01** REPORT DATE **17/12/2025**

Attention Kapiti Coast District Council
Kim Mazur
175 Rimu Road
5032 Paraparaumu
NEW ZEALAND
Phone +64275554729
Email Kim.Mazur@kapiticoast.govt.nz
Copy to: Coley (Marcus.Coley@kapiticoast.govt.nz)

Contact for your orders: Binu Chaudhary **Order code:** EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples **Purchase Order Number:** 402397

SAMPLE CODE **812-2025-00202070**

Sample Name NW0002254019:Bore KB7
Sampling Point code: NW0002254019 **Sampling Point name:** Bore KB7
Reception Date & Time: 08/12/2025 12:35
Analysis Started on: 09/12/2025 **Analysis Ending Date:** 17/12/2025
Sampling date 08/12/2025 **Product Type** Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	101	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	102	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.05	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	202	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.64	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	14.1	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	85.2	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	3	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	103	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.4	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.734	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	22.0	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0008	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	0.009	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	11.8	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0105	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	3.52	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	119	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.003	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.004	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.029	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.8		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	468	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	<0.1	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	8.09	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	7.33	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	4.93	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	417	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	<0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.015	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	<0.01	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

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N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-25-NW-106979-01	REPORT DATE	15/12/2025

Attention Kapiti Coast District Council
Kim Mazur
175 Rimu Road
5032 Paraparaumu
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Phone +64275554729
Email Kim.Mazur@kapiticoast.govt.nz
Copy to: Coley (Marcus.Coley@kapiticoast.govt.nz)

Contact for your orders: Binu Chaudhary **Order code:** EUNZWE-00293821
Contract: Kapiti DC Waste Water Treatement Plant
Submission Reference: Annual Recharge Bore Samples **Purchase Order Number:** 402397

SAMPLE CODE	812-2025-00202071		
Sample Name	NW0002254013:Bore N2		
Sampling Point code:	NW0002254013	**Sampling Point name:**	Bore N2
Reception Date & Time:	08/12/2025 12:35		
Analysis Started on:	09/12/2025	**Analysis Ending Date:**	15/12/2025
Sampling date	08/12/2025	**Product Type**	Source Bore Water

		RESULTS		LOQ
NW002	**Bicarbonate Alkalinity**			
	Bicarbonate alkalinity	80	mg CaCO3/l	1
NW003	**Total Alkalinity**			
	Alkalinity total	80	mg CaCO3/l	1
NW006	**Fluoride**			
	Fluoride	0.18	mg/l	0.02
NW007	**Chloride**			
	Chloride (Cl)	65.0	mg/l	0.02
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW009	**Bromide**			
	Bromide	0.23	mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	20.7	mg/l	0.02
NW023	**Conductivity**			
	Conductivity	40.2	mS/m	0.1
①NW028	**Free Carbon Dioxide**			
	Carbon dioxide	4	mg CO2/l	1
NW030	**Total Hardness**			
	Hardness	97	mg CaCO3/l	1
NW084	**Mercury - Acid Soluble**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW08B	**Temperature**			
	Temperature	20.5	°C	0.1
NW103	**Dissolved Boron**			
	Boron (B)	0.058	mg/l	0.005

		RESULTS		LOQ
NW104	**Dissolved Cadmium**			
	Cadmium (Cd)	<0.0002	mg/l	0.0002
NW105	**Dissolved Calcium**			
	Calcium (Ca)	28.3	mg/l	0.05
NW106	**Dissolved Chromium**			
	Chromium (Cr)	<0.001	mg/l	0.001
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0009	mg/l	0.0005
NW109	**Dissolved Iron**			
	Iron (Fe)	<0.005	mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	mg/l	0.0005
NW112	**Dissolved Magnesium**			
	Magnesium (Mg)	6.38	mg/l	0.01
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0696	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	mg/l	0.0005
NW117	**Dissolved Potassium**			
	Potassium (K)	3.32	mg/l	0.01
NW119	**Dissolved Silver**			
	Silver (Ag)	<0.0005	mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	37.6	mg/l	0.01
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.002	mg/l	0.002
NW189	**Total Nitrogen**			
	Total Nitrogen (N)	0.050	mg/l	0.002
NW194	**Total Phosphorus**			
	Total phosphorus	0.139	mg/l	0.005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.6		0.1
NW199	**Sulphide**			
	Sulphide	<0.2	mg/l	0.2
①NW207	**Total Dissolved Solids**			
	Total dissolved Solids	221	mg/l	1
NW210	**Total Non-Purgeable Organic Carbon**			
	Total Organic Carbon	<0.1	mg/l	0.1
NW303	**Anion Sum**			
	Anions, sum	3.86	meq/l	0.01
NW304	**Cation Sum**			
	Cations, sum	3.66	meq/l	0.01
NW305	**Ion Balance**			
	Ion balance	2.65	%	0.01
①NW339	**Total Dissolved Solids**			
	Total dissolved Solids	197	mg/l	1
NW352	**Hydrogen Sulphide**			
	Sulphide	<0.05	mg/l	0.05

		RESULTS		LOQ
NW583	**Dissolved Arsenic**			
	Arsenic (As)	<0.001	mg/l	0.001
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.104	mg/l	0.002
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.06	mg/l	0.01
NW679	**Cyanide**			
	Cyanide	<0.02	mg/l	0.02

LIST OF METHODS

NW002 **Bicarbonate Alkalinity:** APHA 24th Edition 4500-CO2 D

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW006 **Fluoride:** APHA 24th Edition 4110 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW008 **Nitrite-N:** APHA 24th Edition 4110 B

NW009 **Bromide:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW028 **Free Carbon Dioxide:** APHA 24th Edition 4500-CO2 B

NW030 **Total Hardness:** APHA 24th Edition 2340 B

NW084 **Mercury - Acid Soluble:** APHA 24th Edition 3125 B mod.

NW08B **Temperature:** APHA 24th Edition 2550 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW104 **Dissolved Cadmium:** APHA 24th Edition 3125 B mod.

NW105 **Dissolved Calcium:** APHA 24th Edition 3125 B mod.

NW106 **Dissolved Chromium:** APHA 24th Edition 3125 B mod.

NW108 **Dissolved Copper:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW112 **Dissolved Magnesium:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW117 **Dissolved Potassium:** APHA 24th Edition 3125 B mod.

NW119 **Dissolved Silver:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW125 **Dissolved Zinc:** APHA 24th Edition 3125 B mod.

NW189 **Total Nitrogen:** APHA 24th Edition 4500-NO3- I

NW194 **Total Phosphorus:** APHA 24th Edition 4500-P G / 4500-P B

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW199 **Sulphide:** APHA 24th Edition 4500-S²- B, C, F

NW207 **Total Dissolved Solids:** Internal Method, Calculation

NW210 **Total Non-Purgeable Organic Carbon:** APHA 24th Edition 5310 B

NW303 **Anion Sum:** APHA 24th Edition 1030 E

NW304 **Cation Sum:** APHA 24th Edition 1030 E

NW305 **Ion Balance:** APHA 24th Edition 1030 E

NW339 **Total Dissolved Solids:** Internal Method, Gravimetry

NW352 **Hydrogen Sulphide:** APHA 24th Edition 4500-S2- H

NW583 **Dissolved Arsenic:** APHA 24th Edition 3125 B mod.

NW673 **Dissolved Reactive Phosphorus:** Internal Method based on APHA 4500-P F, Spectrophotometry (DA)

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW679 **Cyanide:** APHA 24th Edition 4500-CN C & E

Signature

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EXPLANATORY NOTE

①Test is not accredited
②Test is subcontracted within Eurofins group and is accredited
③Test is subcontracted within Eurofins group and is not accredited
④Test is subcontracted outside Eurofins group and is accredited
⑤Test is subcontracted outside Eurofins group and is not accredited
⑥Test result is provided by the customer and is not accredited
⑦Tested at the sampling point by Eurofins and is not accredited
⑧Tested at the sampling point by Eurofins and is accredited
⑨Test is RLP accredited
⑩Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

The Customer acknowledges and accepts that: (a) where Eurofins is not responsible for sampling, the test result(s) in this report apply only to the sample as received. Customer is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the product.
The tests are identified by a five-digit code, their description is available on request.
Accreditation does not apply to comments or graphical representations.
Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at 85 Port Road, Seaview, Lower Hutt, Wellington, NEW ZEALAND.
The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.
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All samples become the property of Eurofins to the extent necessary for the performance of the Services.
Eurofins will not be required to store samples and may destroy or otherwise dispose of the samples or return the samples to the Customer (at the Customer's cost in all respects) immediately following analysis of the samples.
If the Customer pays for storage of the samples Eurofins will take commercially reasonable steps to store the samples for the agreed period in terms of industry practice.
The Eurofins water sampling service follows methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.
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END OF REPORT

Appendix E

Complaints Record