



**DS5004**

**Unison Default Price-Quality Path**  
**Annual Price-Setting Compliance**  
**Statement**  
**2020-2021**

**For the assessment period ending 31 March 2021**

Pursuant to Electricity Distribution Services Default Price-Quality Path Determination 2020

Data Classification: Public

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# DS5004 Unison Default Price-Quality Path Annual Price-Setting Compliance Statement 2020-2021

## Overview

**Document status**      Draft       **In Service**       Under Review       Archived

**Document**      Regulatory disclosure demonstrating Unison's compliance with the Default Price-Quality Path in respect of price setting for the 2020-2021 assessment period.

**Intended audience**      Publicly disclosed.

**Document contributors**

<b>Contributors</b>	<b>Name and Position Title</b>	<b>Approval Date</b>
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Authoriser	Nathan Strong General Manager Business Assurance	05/03/2020
Approver	Nathan Strong General Manager Business Assurance	05/03/2020

**Disclaimer**      The information presented in this annual Price-Setting Compliance Statement has been prepared solely for the purpose of complying with the requirements of the Electricity Distribution Services Default Price-Quality Path Determination 2020. This statement has not been prepared for any other purpose. Unison Networks Limited expressly disclaims any liability to any other party who may rely on this Statement for any other purpose.

*Continued on next page*

## Overview, Continued

### Certification of Annual Compliance Statement



#### CERTIFICATION FOR ANNUAL PRICE-SETTING COMPLIANCE STATEMENT


Pursuant to Schedule 6

We, Philip Hocquard and Robert Wheater, being Directors of Unison Networks Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached annual price-setting compliance statement of Unison Networks Limited, and related information, prepared for the purposes of the Electricity Distribution Services Default Price-Quality Path Determination 2020 has been prepared in accordance with all the relevant requirements, and all forecasts used in the calculations for forecast revenue from prices and forecast allowable revenue are reasonable.



Director

Date: 19/3/20



Director

Date: 19/3/20

## Overview, Continued

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**Key dates**                      **Published Date**                      23/03/2020

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**Related references**                      **Legislation**

- Electricity Distribution Services Default Price-Quality Path Determination 2020
- Commerce Act 1986

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**Clarification**                      Clarification of any matter referred to in this document should be directed to:

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# 1. Introduction

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## 1.1 Introduction

Unison Networks Limited's (Unison) electricity distribution business is subject to the Electricity Distribution Services Default Price-Quality Path Determination 2020 (2020 DPP Determination) under the Commerce Act 1986.

Before each 12-month assessment period, Unison must demonstrate compliance with the price path specified in clause 8 of the 2020 DPP Determination.

The 2020 DPP Determination requires Unison to provide an Annual Price-Setting Compliance Statement (Statement) to the Commission. This Statement must include Unison's forecasts of:

- forecast revenue from prices, and
- forecast allowable revenue.

The Statement must also include supporting information for all components of these calculations. This information is provided as follows:

- Section 3 summarises the components of forecast allowable revenue
- Section 4 and *Appendix B* provide information about forecast revenue from prices, and
- Section 5 contains a more detailed breakdown of forecast allowable revenue.

It should be noted that the volume forecasts prepared for the purpose of setting prices were determined in January 2020 in order to meet the contractual deadline of notifying prices to retailers by 31 January, 2020. Subsequently, COVID-19 has emerged as a significant forecast risk which may cause actual volumes to diverge significantly from forecasts. Nevertheless, at the time volume forecasts were prepared, they were based on available information and trends assuming a 'business as usual' economic environment. They are considered demonstrably reasonable at the time they were prepared.

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## 2. Statement of Compliance

### 2.1 Compliance with 11.2(a)

As required by 11.2(a) of the Determination, this Statement confirms Unison's compliance with the price path in clause 8.3 in respect of the first assessment period ending 31 March 2021.

A full list of compliance requirements and references in this Statement are contained in *Appendix A*.

### 2.2 Demonstrating Compliance

The price-path compliance requirement in clause 8.3 of the 2020 DPP Determination provides that for the first assessment period:

***Forecast revenue from prices for that assessment period must not exceed the forecast allowable revenue for that assessment period.***

Unison has complied with the price path for the assessment period 1 April 2020 to 31 March 2021 (2021 Assessment Period) as demonstrated in Table 1<sup>1</sup>.

Forecast Revenue from Prices (\$)	Forecast Allowable Revenue (\$)	Compliance Test Result
134,370,705	134,400,045	Complies because forecast revenue from prices ≤ forecast allowable revenue.

**Table 1 – Demonstrating Compliance with the Price Path**

<sup>1</sup> The underlying calculations show cost in \$k terms. This may cause apparent rounding inconsistencies in this document. These inconsistencies do not affect the overall compliance calculations which are based on the more accurate figures.

### 3. Forecast Allowable Revenue

**3.1 Summary** The 2021 Assessment Period is the first annual assessment period under the 2020 DPP Determination. Unison’s ‘forecast allowable revenue’ for each annual assessment period is determined in accordance with the following formula:

$$FAR = FNAR + FPRC + OWAB + PTBA$$

Where:

- FAR* : Forecast allowable revenue
- FNAR* : Forecast net allowable revenue
- FPRC* : Forecast pass-through and recoverable costs
- OWAB* : Opening wash-up account balance
- PTBA* : Pass-through balance allowance

**3.2 Calculation** The calculation of Unison’s forecast allowable revenue for the 2021 Assessment period is provided in Table 2.

Calculation Components	Amount (\$)
<b>FNAR<sub>2021</sub></b>	100,019,000
<b>FPRC<sub>2021</sub></b>	34,141,085
<b>OWAB<sub>2021</sub></b>	0
<b>PTBA<sub>2021</sub></b>	239,960
<b>FAR<sub>2021</sub></b>	<b>134,400,045</b>

**Table 2 – Calculation of Unison’s Forecast Allowable Revenue**

**3.3 Components** The three components of forecast allowable revenue for the 2021 Assessment period are described in more detail below.

***Forecast Net Allowable Revenue - FNAR<sub>2021</sub>***

Forecast net allowable revenue for the first assessment period is the actual net allowable revenue, as specified in Schedule 1.1 of the 2020 DPP Determination. This amount is \$100,019,000.

***Forecast Pass-through and Recoverable Costs – FPRC<sub>2021</sub>***

This is Unison’s forecast of pass-through and recoverable costs for the year. These costs must be demonstrably reasonable. For the 2021 Assessment Period, the forecast amount is \$34,141,085. *Point 5.3* provides more detail about how these forecast values were determined.

*Continued on next page*

## Forecast Allowable Revenue, Continued

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### 3.3 Components

#### ***Opening Wash-up Account Balance – OWAB<sub>2021</sub>***

The 'opening wash-up account balance' for the first and second assessment periods of the 2020-25 DPP regulatory period is nil.

#### ***Pass-through Balance Allowance – PTBA<sub>2021</sub>***

The Pass-through Balance Allowance for the first assessment period is \$239,960.

For the first assessment period the allowance is calculated in accordance with the formula:

$$(-1) \times \text{demonstrably reasonable estimate amount of the pass-through balance as of March 2020} \times (1 + 67^{\text{th}} \text{ percentile of post-tax WACC})$$

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## 4. Forecast Revenue from Prices

**4.1 Summary** Unison’s forecast revenue from prices is equal to the total of each of its prices multiplied by the forecast quantities they will apply to. The 2020 DPP Determination requires that these forecasts are demonstrably reasonable.

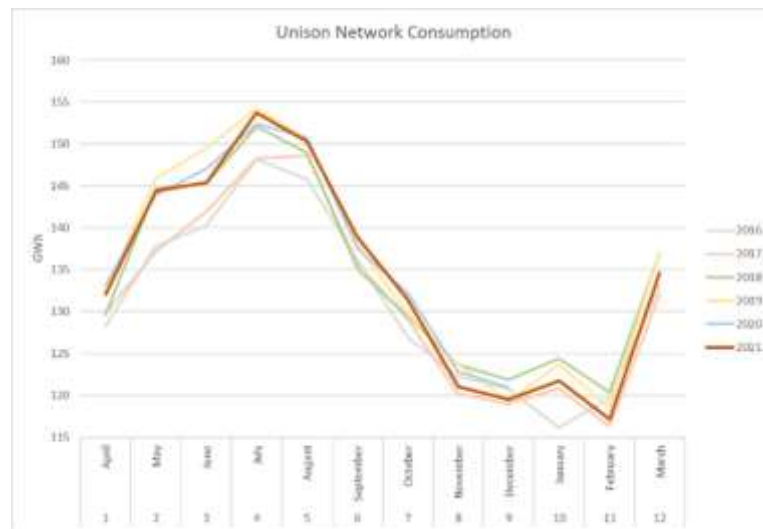
**4.2 Demonstrating compliance**

The forecasts are prepared for the next financial year using:

- information from recent billing data, and
- the number of ‘Active’ connections from the Electricity Authority’s Registry.

The forecasts are developed from the specific price options.

The forecast electricity consumption is also compared to recent retailer submissions to the wholesale electricity market. This ensures consistency with historical electricity usage.



**Graph – Forecast Consumption Compared to Recent Years**

Table 3 summarises how the forecasts align with historic data for Unison’s network areas. It indicates that the forecasts align within the expected network consumption. More detail about the methodology and the outputs is included in *Appendix B*.

GWh		Average	Forecast
		2017 - 2019	2021
Rotorua / Taupo	Commercial	267	271
	General	26	26
	Industrial	90	76
	Residential	275	283
Hawkes Bay	Commercial	353	355
	General	48	50
	Industrial	169	161
	Residential	380	390
<b>Network Total</b>		<b>1,609</b>	<b>1,612</b>

**Table 3 – Consumption Forecast Compared to 3-year Average**

*Continued on next page*

## Forecast Revenue from Prices, Continued

### 4.2 Demonstrating compliance (cont)

Unison are forecasting modest growth across Commercial, General and Residential that is above the prior three-year average. Although forecasting lower Industrial consumption, Industrials are not priced on energy consumed.

A summary of Unison's forecast revenue from prices is included in Table 4. *Appendix C* contains the full table of prices and forecast quantities for the 2021 pricing year.

Region	$\sum(P_{2021} \times Q_{\text{forecast 2021}})$
<b>Hawke's Bay</b>	77,733,073
<b>Central</b>	56,637,632
<b>Total</b>	<b>134,370,705</b>

**Table 4 – Summary of Unison's Forecast Revenue from Prices (\$)**

## 5. Analysis of the Components and Calculation of Forecast Allowable Revenue

**5.1 Summary** This section provides a breakdown of the components of forecast allowable revenue, in particular:

- forecast pass-through and recoverable costs, and
- pass-through balance allowance.

In the first assessment period 'forecast net allowable revenue' is the actual net allowable revenue, as specified in Schedule 1.1 of the 2020 DPP Determination. The amount is \$100,019,000 so no calculation is necessary for this component of forecast allowable revenue.

The 'opening wash-up account balance' for the first and second assessment periods of the 2020-25 DPP regulatory period is nil.

**5.2 Forecast pass-through and recoverable costs**

The DPP 2020 Determination requires forecasts of pass-through and recoverable costs. Tables 6 and 7 provide a breakdown of Unison's forecast pass-through and recoverable cost forecasts for the year ending 31 March 2021. The costs total \$34,141,085.

Component	Hawke's Bay (\$)	Rotorua / Taupo (\$)	Unison Network (\$)
<b>Electricity Authority Levies</b>	206,703	142,038	348,741
<b>Commerce Commission Levies</b>	156,203	114,149	270,352
<b>Utilities Disputes Levies</b>	36,444	27,800	64,244
<b>Local Authority Rates</b>	89,453	634,422	723,875
<b>Forecast Pass-through Costs</b>	<b>488,803</b>	<b>918,409</b>	<b>1,407,212</b>

**Table 6 – Forecast Pass-through Costs**

*Continued on next page*

## Analysis of the Components and Calculation of Forecast Allowable Revenue, Continued

### 5.2 Forecast pass-through and recoverable costs (cont)

Component	Hawke's Bay (\$)	Rotorua / Taupo (\$)	Unison Network (\$)
Transpower Connection Charges	2,060,051	3,095,375	5,155,426
Transpower Interconnection Charges	16,877,525	5,954,366	22,831,891
Transpower New Investment Charges	587,292	206,310	793,602
Distributed Generation Allowance	190,503	4,026,434	4,216,938
Quality Incentive Allowance	(14,665)	(10,820)	(25,485)
CAPEX Wash-up Adjustment	0	0	0
CAPEX Incentive	0	0	0
OPEX Incentive	(180,347)	(133,053)	(313,400)
Fire and Emergency NZ Levies	43,102	31,798	74,900
<b>Total Forecast Recoverable Costs</b>	<b>19,563,461</b>	<b>13,170,412</b>	<b>32,733,873</b>

Table 7 – Forecast Recoverable Costs

Component	Hawke's Bay (\$)	Rotorua/ Taupo (\$)	Unison Network (\$)
Forecast Pass-through Costs	488,803	918,409	1,407,212
Forecast Recoverable Costs	19,563,461	13,170,412	32,733,873
<b>Total Forecast Pass-through and Recoverable Costs – FPRC</b>	<b>20,052,264</b>	<b>14,088,821</b>	<b>34,141,085</b>

Table 8 – Total Forecast Pass-through and Recoverable Costs

Continued on next page

## Analysis of the Components and Calculation of Forecast Allowable Revenue, Continued

### 5.3 Demonstrating forecast pass-through and recoverable costs

Schedule 1.5 (3) of the DPP 2020 Determination requires that all forecasts of pass-through costs and recoverable costs used to calculate 'forecast allowable revenue' must be 'demonstrably reasonable'.

Tables 8 and 9 summarise the methodology Unison has applied to determine its forecasts of pass-through and recoverable costs. In Unison's opinion all of these methods deliver acceptable forecasts in the context they are used. Note, pass-through costs make up 1% of revenues, so forecast errors are likely to have immaterial impact on overall forecast accuracy.

Pass-through Cost Component		Forecasting Methodology
<b>Electricity Levies</b>	<b>Authority</b>	Quantities are forecast for the period using historical behaviour. The most recent levy rates are used as the best forecast of future levy rates.
<b>Commerce Commission Levies</b>		The most recent invoice is used as the best approximation for future levies.
<b>Utilities Disputes Levies</b>		Based on historical costs.
<b>Local Authority Rates</b>		A forecast % change is used for each Local Authority based on historical rate movements.

**Table 8 – Method of Forecasting Pass-through Costs**

*Continued on next page*

## Analysis of the Components and Calculation of Forecast Allowable Revenue, Continued

### 5.3 Demonstrating forecast pass-through and recoverable costs (cont)

Recoverable Cost Component	Forecasting Methodology
<b>Transpower Connection Charges</b>	As notified by Transpower.
<b>Transpower Interconnection Charges</b>	As notified by Transpower.
<b>Transpower New Investment Charges</b>	As notified by Transpower.
<b>Distributed Generation Allowance</b>	Based on generation during the Transmission measurement period and Transpower's interconnection charge for the pricing year.
<b>Quality Incentive Adjustment</b>	Determined for 2017/18 regulatory year (adjusted for time value of money).
<b>Capex Wash-up Adjustment</b>	N/A for first assessment period. Second assessment period adjustment will be forecast using the Input Methodologies formula.
<b>Fire and Emergency New Zealand Levies</b>	Forecast is based on historical costs.

**Table 9 – Method of Forecasting Recoverable Costs**

*Continued on next page*

## Analysis of the Components and Calculation of Forecast Allowable Revenue, Continued

### 5.4 Pass-through balance allowance

For the first assessment period the pass-through balance allowance (PTBA) is calculated in accordance with the formula:

$$(-1) \times \text{demonstrably reasonable estimate amount of the pass-through balance as of March 2020} \times (1 + 67^{\text{th}} \text{ percentile of post-tax WACC})$$

Component	Unison Network (\$)
Forecast Recoverable Revenue 2020	37,570,000
Forecast Recoverable Costs 2020	40,073,408
Recoverable Revenue less Costs 2020	(2,503,408)
Pass-through Balance 2019	2,273,186
Pass-through Balance 2020	(230,222)
WACC	4.23%
Pass-through Balance Allowance (PTBA)	239,960

## Appendix A – Compliance References

The following tables describe the Determination requirements and the section of this Statement that addresses them.

**Table A.1: Price Path Summary**

Determination Clause	Requirement	Section of this Document
8.3	The forecast revenue from prices for the first assessment period must not exceed the forecast allowable revenue for that assessment period.	2.2

**Table A.2: Annual Price-Setting Compliance Statement**

Determination Clause	Requirement	Section of this Document
An annual price-setting compliance statement must be provided to the Commission consisting of:		
11.2(a)	A statement indicating whether or not Unison has complied with the price path in clause 8 for the assessment period.	2.1
11.2(b)	The date on which the statement was prepared.	Cover
11.2(c)	A certificate in the form set out in Schedule 6, signed by at least one Director of Unison.	Overview
11.3(a)	Unison's calculation of its forecast revenue from prices together with supporting information for all components of the calculation.	4
11.3(b)	Unison's calculation of its forecast allowable revenue together with supporting information for all components of the calculation.	3
11.3(c)	Any reasons for non-compliance.	N/A
11.3(d)	Actions taken to mitigate any non-compliance and to prevent similar non-compliance in future assessment periods.	N/A



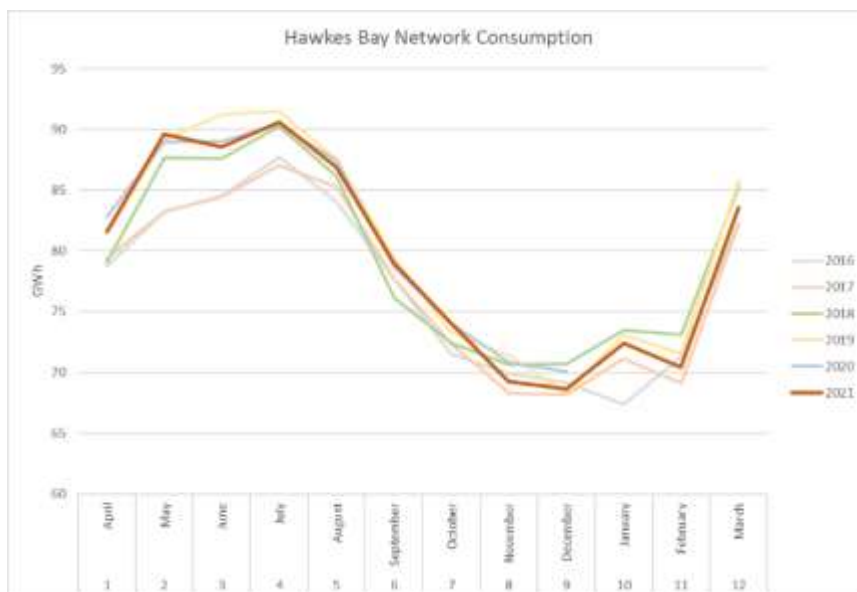
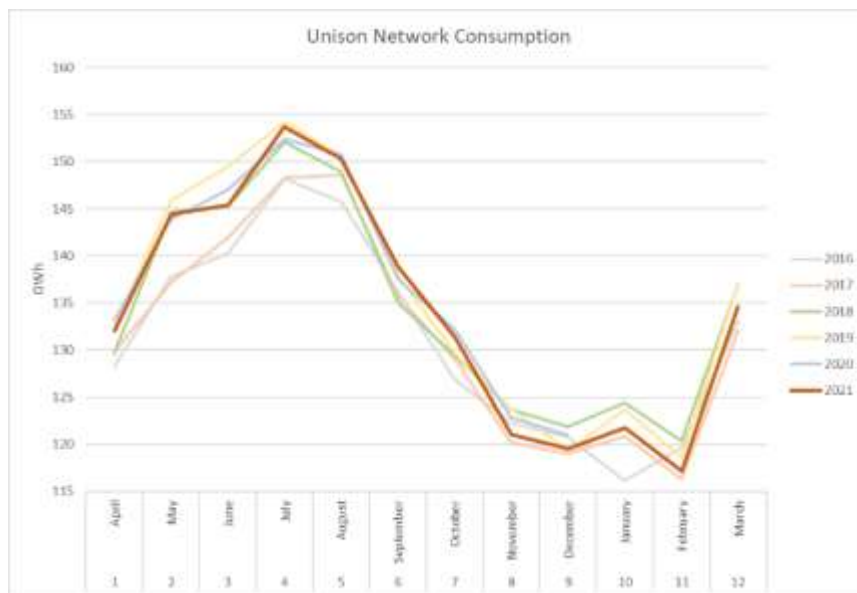
## Appendix B – Revenue Forecasting

Unison’s prices contain fixed daily charges and volume charges. The forecasts are developed from the specific price options for each price category.

The forecasts are prepared for the next financial year using a range of available information.

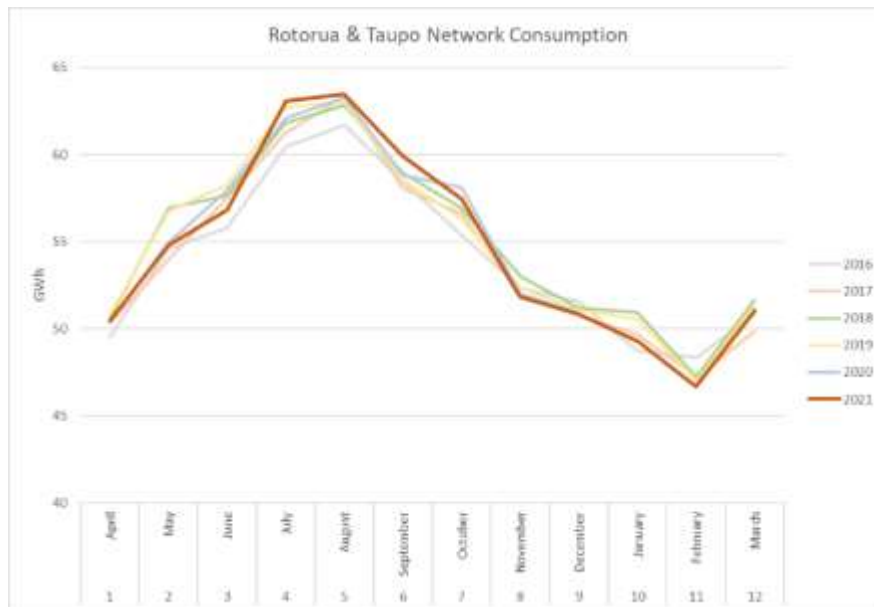
1. Recent billing data submitted by retailers – this includes volume data across the various price options.

The forecast electricity consumption is also compared to recent retailer submissions to the wholesale electricity market. This ensures consistency with historical electricity usage across both network regions. Both regions have a consistent electricity consumption trend and pattern over the last five financial years. The three graphs below demonstrate the consistency.



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## Appendix B – Revenue Forecasting, Continued



- The number of 'Active' connections from the Electricity Authority's Registry.

This process assists in capturing changes that occur as a result of new connections, upgrades, downgrades and price category changes. Daily charges are only applicable to connections that are 'Active' in Unison's network.

'Active' Connections		Financial Year				
Region	Customer Type	2017	2018	2019	2020*	2021
Rotorua Taupo	Commercial	4,330	4,339	4,331	4,325	4,345
	General	2,800	2,797	2,809	2,843	2,843
	Industrial	23	43	43	43	43
	Residential	40,449	40,801	41,082	41,284	41,399
Hawkes Bay	Commercial	3,510	3,587	3,634	3,680	3,721
	General	5,909	5,898	5,911	5,894	5,895
	Industrial	39	42	43	44	46
	Residential	53,068	53,458	53,821	54,024	54,149
<b>Grand Total</b>		<b>110,128</b>	<b>110,965</b>	<b>111,674</b>	<b>112,137</b>	<b>112,441</b>

\* 2020 Financial Year – 'Active' connections as at 30 October 2019

*Continued on next page*

## Appendix B – Revenue Forecasting, Continued

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Unison's customer capital expenditure programme in 2020/21 is heavily influenced by:

- asset relocations
- industrial customer reconfiguration/upgrades, and
- four embedded retirement villages.

Given this information Unison expects a lower number of new residential connections in the financial year 2020/21.

Forecast adjustments are applied for:

- changes in the number of days (e.g. leap years)
  - weather/volume normalisation
  - observable trends (if applicable), and
  - growth in the number of 'Active' connections and associated volumes.
-

## Appendix C – Prices and Forecast Quantities for Pricing Year 2021

### Hawke's Bay

Price Code	Rate 2020-21	Forecast Quantity	Forecast Revenue
F-H-M11	0.1500	10,236,205.00	1,535,430.75
E-H-M11-24UC	0.1165	67,935,784.10	7,914,518.85
E-H-M11-AICO	0.0975	50,536,284.49	4,927,287.74
E-H-M11-CTRL	0.0695	22,055,654.62	1,532,868.00
E-H-M11-NITE	0.0380	255,557.44	9,711.18
E-H-M11-CTUD	0.1500	23,773.51	3,566.03
E-H-M11-PROJ	0.1165	308,480.37	35,937.96
E-H-M11-DGEN	0.0000	509,333.71	0.00
F-H-M12	1.1500	8,475,300.00	9,746,595.00
E-H-M12-24UC	0.0710	113,861,586.68	8,084,172.65
E-H-M12-AICO	0.0520	86,318,159.92	4,488,544.32
E-H-M12-CTRL	0.0240	30,422,705.41	730,144.93
E-H-M12-NITE	0.0230	505,459.94	11,625.58
E-H-M12-CTUD	0.0920	111,874.41	10,292.45
E-H-M12-PROJ	0.0710	733,622.83	52,087.22
E-H-M12-DGEN	0.0000	487,235.86	0.00
F-H-DNR	1.5000	232,140.00	348,210.00
E-H-DNR-24UC	0.0710	1,245,972.80	88,464.07
E-H-DNR-AICO	0.0520	705,404.60	36,681.04
E-H-DNR-CTRL	0.0240	178,492.52	4,283.82
E-H-DNR-NITE	0.0230	1,954.36	44.95
E-H-DNR-CTUD	0.0920	195.48	17.98
E-H-DNR-PROJ	0.0710	60.43	4.29
E-H-DNR-DGEN	0.0000	0.00	0.00
F-H-G11	0.1500	76,285.00	11,442.75
E-H-G11-24UC	0.1410	946,229.18	133,418.31
E-H-G11-AICO	0.1220	114,450.33	13,962.94
E-H-G11-CTRL	0.0940	25,418.58	2,389.35
E-H-G11-NITE	0.0470	954.00	44.84
E-H-G11-CTUD	0.1810	1,651.00	298.83
E-H-G11-DGEN	0.0000	153,222.86	0.00
E-H-G11-PROJ	0.1410	772.00	108.85
F-H-G12	1.6980	73,730.00	125,193.54
E-H-G12-24UC	0.0710	1,498,168.03	106,369.93

Price Code	Rate 2020-21	Forecast Quantity	Forecast Revenue
E-H-G12-AICO	0.0520	268,596.56	13,967.02
E-H-G12-CTRL	0.0240	8,585.26	206.05
E-H-G12-NITE	0.0230	4,690.09	107.87
E-H-G12-CTUD	0.0920	3,340.53	307.33
E-H-G12-DGEN	0.0000	290,395.04	0.00
E-H-G12-PROJ	0.0710	6,282.04	446.02
F-H-TLU	0.1500	473,040.00	70,956.00
E-H-TLU-ONPK	0.1855	2,136,899.41	396,394.84
E-H-TLU-OFPK	0.0795	3,626,175.46	288,280.95
E-H-TLU-CTRL	0.0695	980,985.73	68,178.51
E-H-TLU-NITE	0.0380	0.00	0.00
E-H-TLU-KVAR	7.5500	0.00	0.00
E-H-TLU-PROJ	0.1855	36,083.98	6,693.58
E-H-TLU-DGEN	0.0000	48,633.66	0.00
F-H-THU	1.1500	183,960.00	211,554.00
E-H-THU-ONPK	0.1400	1,686,893.93	236,165.15
E-H-THU-OFPK	0.0340	2,901,357.08	98,646.14
E-H-THU-CTRL	0.0240	375,506.95	9,012.17
E-H-THU-NITE	0.0230	0.00	0.00
E-H-THU-KVAR	7.5500	0.00	0.00
E-H-THU-DGEN	0.0000	16,590.70	0.00
E-H-THU-PROJ	0.1400	30,000.26	4,200.04
F-H-NDL	1.5500	1,186,250.00	1,838,687.50
E-H-NDL-24UC	0.0660	7,320,953.87	483,182.96
E-H-NDL-CTRL	0.0400	179,203.17	7,168.13
E-H-NDL-NITE	0.0220	49,030.63	1,078.67
E-H-NDL-CTUD	0.0900	103,131.00	9,281.79
E-H-NDL-PROJ	0.0660	394,602.34	26,043.75
E-H-NDL-DGEN	0.0000	3,812.45	0.00
F-H-NDH	1.1500	801,175.00	921,351.25
E-H-NDH-24UC	0.0900	30,336,038.57	2,730,243.47
E-H-NDH-CTRL	0.0540	766,188.22	41,374.16
E-H-NDH-NITE	0.0300	215,573.83	6,467.21
E-H-NDH-CTUD	0.1220	369,544.45	45,084.42
E-H-NDH-PROJ	0.0900	1,868,683.34	168,181.50
E-H-NDH-DGEN	0.0000	31,843.00	0.00
F-H-TCU	1.1500	0.00	0.00
E-H-TCU-ONPK	0.1400	0.00	0.00

Price Code	Rate 2020-21	Forecast Quantity	Forecast Revenue
E-H-TCU-OFPK	0.0340	0.00	0.00
E-H-TCU-CTRL	0.0540	0.00	0.00
E-H-TCU-KVAR	7.5500	0.00	0.00
E-H-TCU-DGEN	0.0000	0.00	0.00
E-H-TCU-PROJ	0.1400	0.00	0.00
F-H-T1P	1.2650	69,350.00	87,727.75
E-H-T1P-24UC	0.0780	161,936.00	12,631.01
E-H-T1P-PROJ	0.0780	35.00	2.73
F-H-T3P	5.8300	4,015.00	23,407.45
E-H-T3P-24UC	0.0530	76,586.28	4,059.07
E-H-T3P-PROJ	0.0530	0.00	0.00
E-H-U01-1	0.1850	613.13	113.43
E-H-U01-12	0.1850	1,540.97	285.08
E-H-U01-UNMT	0.1850	497,003.97	91,945.73
E-H-U02-10	0.1850	3,359.92	621.59
E-H-U02-11	0.1850	2,986.60	552.52
E-H-U02-12	0.1850	3,785.29	700.28
E-H-U02-13	0.1850	864.61	159.95
E-H-U02-UNMT	0.1850	554,752.22	102,629.16
F-H-U03	0.1550	6,070,110.00	940,867.05
E-H-U03-UNMT	0.0150	6,848,527.00	102,727.91
E-H-U03-TAIC	0.0150	0.00	0.00
F-H-MC1	5.3000	1,105,760.00	5,860,528.00
F-H-MC2	10.5000	116,068.00	1,218,714.00
F-H-MC3	20.5000	82,854.00	1,698,507.00
F-H-MC5	28.0000	18,797.00	526,316.00
F-H-MC6	33.0000	10,950.00	361,350.00
F-H-MC7	38.0000	9,125.00	346,750.00
F-H-MC8	43.0000	4,745.00	204,035.00
F-H-MC9	50.0000	5,840.00	292,000.00
E-H-MC-24UC	0.0480	113,266,152.56	5,436,775.32
E-H-MC-24UCHH	0.0480	156,120.00	7,493.76
E-H-MC-CTRL	0.0290	711,640.26	20,637.57
E-H-MC-NITE	0.0160	2,084,895.55	33,358.33
E-H-MC-CTUD	0.0620	4,368,113.41	270,823.03
E-H-MC-PROJ	0.0480	1,025,330.69	49,215.87
E-H-MC-DEFT	0.0580	4,488,978.25	260,360.74
E-H-MC-SOPD	3.5000	387,859.50	1,357,508.25

Price Code	Rate 2020-21	Forecast Quantity	Forecast Revenue
E-H-MC-WOPD	7.0000	292,823.14	2,049,761.98
E-H-MC-DMND	2.5500	716,103.68	1,826,064.38
E-H-MC-KVAR	7.5500	63,736.54	481,210.91
E-H-MC-RKVAR	-7.5500	0.00	0.00
E-H-MC-TAIC	0.0000	229,199,291.00	0.00
F-H-MC-T020	5.0000	21,535.00	107,675.00
F-H-MC-T030	6.6000	16,790.00	110,814.00
F-H-MC-T050	8.6500	15,695.00	135,761.75
F-H-MC-T075	10.7500	10,585.00	113,788.75
F-H-MC-T100	12.7500	6,570.00	83,767.50
F-H-MC-T150	14.0000	1,095.00	15,330.00
F-H-MC-COAD	-1.9000	599.00	-1,138.10
E-H-MC-DGEN	0.0000	89,441.86	0.00
E-H-I60-DMND	0.0000	390,271.74	0.00
E-H-I60-KVAR	7.5500	21,510.69	162,405.68
E-H-I60-RKVAR	-7.5500	-3,822.07	28,856.60
E-H-I60-PROJ	0.0000	0.00	0.00
E-H-I60-TAIC	0.0000	160,782,017.00	0.00
F-H-I60-007	433.7600	365.00	158,322.40
F-H-I60-008	467.1300	365.00	170,502.45
F-H-I60-009	532.3300	365.00	194,300.45
F-H-I60-010	501.5100	365.00	183,051.15
F-H-I60-011	434.0100	365.00	158,413.65
F-H-I60-012	621.3000	365.00	226,774.50
F-H-I60-013	1553.6500	365.00	567,082.25
F-H-I60-014	1196.9000	365.00	436,868.50
F-H-I60-015	520.4900	365.00	189,978.85
F-H-I60-016	573.3700	365.00	209,280.05
F-H-I60-017	1386.7300	365.00	506,156.45
F-H-I60-021	386.3700	365.00	141,025.05
F-H-I60-022	397.9000	365.00	145,233.50
F-H-I60-023	363.6400	365.00	132,728.60
F-H-I60-024	326.6300	365.00	119,219.95
F-H-I60-025	81.9300	365.00	29,904.45
F-H-I60-026	181.8100	365.00	66,360.65
F-H-I60-028	684.4200	0.00	0.00
F-H-I60-031	6.2900	0.00	0.00
F-H-I60-032	0.0000	0.00	0.00

Price Code	Rate 2020-21	Forecast Quantity	Forecast Revenue
F-H-I60-033	282.6900	365.00	103,181.85
F-H-I60-034	119.2500	365.00	43,526.25
F-H-I60-035	148.1100	365.00	54,060.15
F-H-I60-036	140.3700	355.00	49,831.35
F-H-I60-037	54.7900	365.00	19,998.35
F-H-I60-038	158.4200	365.00	57,823.30
F-H-I60-039	159.6600	365.00	58,275.90
F-H-I60-040	139.0500	365.00	50,753.25
F-H-I60-041	36.8400	365.00	13,446.60
F-H-I60-042	228.4600	365.00	83,387.90
F-H-I60-043	162.4200	365.00	59,283.30
F-H-I60-044	83.7900	365.00	30,583.35
F-H-I60-045	76.2600	365.00	27,834.90
F-H-I60-047	93.5300	365.00	34,138.45
F-H-I60-048	118.8100	365.00	43,365.65
F-H-I60-049	159.6000	365.00	58,254.00
F-H-I60-050	495.4200	365.00	180,828.30
F-H-I60-051	495.4200	365.00	180,828.30
F-H-I60-052	32.6600	365.00	11,920.90
F-H-I60-053	22.1300	365.00	8,077.45
F-H-I60-054	228.2200	365.00	83,300.30
F-H-I60-055	146.1000	0.00	0.00
F-H-I60-056	25.1400	365.00	9,176.10
F-H-I60-057	24.0500	365.00	8,778.25
F-H-I60-058	27.8500	365.00	10,165.25
F-H-I60-059	83.9600	365.00	30,645.40
F-H-I60-060	24.0500	365.00	8,778.25
F-H-I60-061	86.4900	365.00	31,568.85
F-H-I60-062	95.2200	365.00	34,755.30
F-H-I60-063	49.4900	365.00	18,063.85
F-H-I60-064	364.2300	365.00	132,943.95
F-H-I60-065	216.5900	365.00	79,055.35
F-H-I60-066	318.8900	365.00	116,394.85
F-H-I60-067	68.3600	365.00	24,951.40
F-H-I60-068	46.3400	365.00	16,914.10
F-H-I60-069	34.3700	365.00	12,545.05
F-H-I60-070	87.4000	365.00	31,901.00
F-H-I60-071	174.8400	365.00	63,816.60



Price Code	Rate 2020-21	Forecast Quantity	Forecast Revenue
F-H-I60-072	40.4900	365.00	14,778.85
F-H-I60-073	192.9300	365.00	70,419.45
F-H-I60-074	65.1200	365.00	23,768.80
F-H-I60-099	0.0000	365.00	0.00
F-H-I60-075	14.0000	365.00	5,110.00
F-H-I60-079	33.0000	365.00	12,045.00
F-H-I60-078	45.9600	90.00	4,136.40
F-H-I60-077	153.4200	90.00	13,807.80
F-H-I60-076	18.0000	365.00	6,570.00
<b>Hawke's Bay Forecast Revenue from Prices</b>			<b>77,733,073.23</b>

## Rotorua/Taupo

Price Code	Rate 2020-21	Forecast Quant	Forecast Revenue
F-R-M11	0.1500	7,205,975.00	1,080,896.25
E-R-M11-24UC	0.1095	40,621,825.29	4,448,089.87
E-R-M11-AICO	0.0925	50,579,711.10	4,678,623.28
E-R-M11-CTRL	0.0675	6,707,459.28	452,753.50
E-R-M11-NITE	0.0360	1,390,884.98	50,071.86
E-R-M11-CTUD	0.1410	1,442,574.97	203,403.07
E-R-M11-PROJ	0.1095	196,128.93	21,476.12
E-R-M11-DGEN	0.0000	199,497.08	0.00
F-R-M12	1.1500	6,038,925.00	6,944,763.75
E-R-M12-24UC	0.0640	63,795,884.29	4,082,936.59
E-R-M12-AICO	0.0470	73,441,130.96	3,451,733.16
E-R-M12-CTRL	0.0220	13,733,581.83	302,138.80
E-R-M12-NITE	0.0200	2,781,394.97	55,627.90
E-R-M12-CTUD	0.0830	3,385,850.97	281,025.63
E-R-M12-PROJ	0.0640	278,430.05	17,819.52
E-R-M12-DGEN	0.0000	154,481.21	0.00
F-R-DNR	1.5000	1,157,050.00	1,735,575.00
E-R-DNR-24UC	0.0640	5,053,612.13	323,431.18
E-R-DNR-AICO	0.0470	4,308,987.64	202,522.42
E-R-DNR-CTRL	0.0220	958,850.78	21,094.72
E-R-DNR-NITE	0.0200	229,165.57	4,583.31

Price Code	Rate 2020-21	Forecast Quant	Forecast Revenue
E-R-DNR-CTUD	0.0830	347,692.84	28,858.51
E-R-DNR-PROJ	0.0640	7,625.28	488.02
E-R-DNR-DGEN	0.0000	10,467.76	0.00
F-R-G11	0.1500	47,450.00	7,117.50
E-R-G11-24UC	0.1340	528,875.29	70,869.29
E-R-G11-AICO	0.1170	197,486.49	23,105.92
E-R-G11-CTRL	0.0920	1,597.60	146.98
E-R-G11-NITE	0.0440	-460.39	-20.26
E-R-G11-CTUD	0.1530	178.85	27.36
E-R-G11-DGEN	0.0000	78,272.60	0.00
E-R-G11-PROJ	0.1340	2,107.41	282.39
F-R-G12	1.7000	38,690.00	65,773.00
E-R-G12-24UC	0.0640	743,838.34	47,605.65
E-R-G12-AICO	0.0470	207,581.24	9,756.32
E-R-G12-CTRL	0.0220	5,394.17	118.67
E-R-G12-NITE	0.0200	2,052.71	41.05
E-R-G12-CTUD	0.0830	0.00	0.00
E-R-G12-DGEN	0.0000	82,131.00	0.00
E-R-G12-PROJ	0.0640	9,985.29	639.06
F-R-TLU	0.1500	437,270.00	65,590.50
E-R-TLU-ONPK	0.1855	2,259,723.34	419,178.68
E-R-TLU-OFPK	0.0685	4,020,121.98	275,378.36
E-R-TLU-CTRL	0.0675	686,317.29	46,326.42
E-R-TLU-NITE	0.0360	2,192.32	78.92
E-R-TLU-KVAR	7.5500	0.00	0.00
E-R-TLU-PROJ	0.1855	0.00	0.00
E-R-TLU-DGEN	0.0000	29,996.40	0.00
F-R-THU	1.1500	171,550.00	197,282.50
E-R-THU-ONPK	0.1400	1,797,972.20	251,716.11
E-R-THU-OFPK	0.0230	2,800,655.18	64,415.07
E-R-THU-CTRL	0.0220	289,370.62	6,366.15
E-R-THU-NITE	0.0200	1,259.86	25.20
E-R-THU-KVAR	7.5500	0.00	0.00

Price Code	Rate 2020-21	Forecast Quant	Forecast Revenue
E-R-THU-DGEN	0.0000	10,735.83	0.00
E-R-THU-PROJ	0.1400	77,405.36	10,836.75
E-R-RPL	0.0000	0.00	0.00
F-R-NDL	1.5500	558,815.00	866,163.25
E-R-NDL-24UC	0.0570	3,524,347.04	200,887.78
E-R-NDL-CTRL	0.0340	61,166.98	2,079.68
E-R-NDL-NITE	0.0200	27,757.16	555.14
E-R-NDL-CTUD	0.0770	21,552.10	1,659.51
E-R-NDL-PROJ	0.0570	27,192.76	1,549.99
E-R-NDL-DGEN	0.0000	0.00	0.00
F-R-NDH	1.1500	376,680.00	433,182.00
E-R-NDH-24UC	0.0810	15,397,120.06	1,247,166.72
E-R-NDH-CTRL	0.0490	394,446.55	19,327.88
E-R-NDH-NITE	0.0270	394,935.43	10,663.26
E-R-NDH-CTUD	0.1100	525,018.31	57,752.01
E-R-NDH-PROJ	0.0810	168,427.83	13,642.65
E-R-NDH-DGEN	0.0000	6,249.24	0.00
F-R-TCU	1.1500	365.00	419.75
E-R-TCU-ONPK	0.1400	71.51	10.01
E-R-TCU-OFPK	0.0230	109.77	2.52
E-R-TCU-CTRL	0.0220	0.00	0.00
E-R-TCU-KVAR	7.5500	0.00	0.00
E-R-TCU-DGEN	0.0000	0.00	0.00
E-R-TCU-PROJ	0.1400	0.00	0.00
F-R-T1P	1.3000	45,625.00	59,312.50
E-R-T1P-24UC	0.0700	216,843.64	15,179.05
E-R-T1P-PROJ	0.0700	1,426.51	99.86
F-R-T3P	5.1700	1,825.00	9,435.25
E-R-T3P-24UC	0.0500	154,979.86	7,748.99
E-R-T3P-PROJ	0.0500	0.00	0.00
E-R-U01-12	0.1850	11,983.68	2,216.98
E-R-U01-13	0.1850	7,989.12	1,477.99
E-R-U01-15	0.1850	5,647.10	1,044.71

Price Code	Rate 2020-21	Forecast Quant	Forecast Revenue
E-R-U01-17	0.1850	1,997.28	369.50
E-R-U01-24	0.1850	36,340.01	6,722.90
E-R-U01-UNMT	0.1850	214,038.10	39,597.05
E-R-U02-19	0.1850	449.12	83.09
E-R-U02-25	0.1850	817.68	151.27
E-R-U02-UNMT	0.1850	114,110.87	21,110.51
E-R-U03-28	0.0150	13,346.54	200.20
F-R-U03	0.1550	3,765,436.00	583,642.58
E-R-U03-UNMT	0.0150	4,702,278.00	70,534.17
E-R-U03-TAIC	0.0150	0.00	0.00
E-R-UNISON	0.0000	152,477.00	0.00
F-R-MC1	4.7000	1,398,860.00	6,574,642.00
F-R-MC2	10.5000	104,572.00	1,098,006.00
F-R-MC3	20.0000	44,712.00	894,240.00
F-R-MC5	27.0000	22,082.00	596,214.00
F-R-MC6	33.0000	5,840.00	192,720.00
F-R-MC7	40.0000	1,460.00	58,400.00
F-R-MC8	46.0000	3,650.00	167,900.00
F-R-MC9	52.0000	1,825.00	94,900.00
E-R-MC-24UC	0.0450	115,291,601.21	5,188,122.05
E-R-MC-24UCHH	0.0450	106,980.00	4,814.10
E-R-MC-CTRL	0.0270	2,141,671.94	57,825.14
E-R-MC-NITE	0.0150	7,652,761.07	114,791.42
E-R-MC-CTUD	0.0580	14,548,755.30	843,827.81
E-R-MC-PROJ	0.0450	89,284.00	4,017.78
E-R-MC-DEFT	0.0540	6,619,592.74	357,458.01
E-R-MC-SOPD	3.5000	205,039.46	717,638.11
E-R-MC-WOPD	7.0000	149,298.34	1,045,088.38
E-R-MC-DMND	2.5500	370,860.88	945,695.24
E-R-MC-KVAR	7.5500	31,169.80	235,331.99
E-R-MC-RKVAR	-7.5500	-0.12	0.91
E-R-MC-TAIC	0.0000	68,349,453.00	0.00
F-R-MC-T020	5.0000	9,855.00	49,275.00

Price Code	Rate 2020-21	Forecast Quant	Forecast Revenue
F-R-MC-T030	6.6000	11,315.00	74,679.00
F-R-MC-T050	8.6500	18,615.00	161,019.75
F-R-MC-T075	10.7500	5,475.00	58,856.25
F-R-MC-T100	12.7500	1,460.00	18,615.00
F-R-MC-T150	14.0000	365.00	5,110.00
F-R-MC-COAD	-1.9000	365.00	-693.50
E-R-MC-DGEN	0.0000	42,528.66	0.00
E-R-I60-DMND	0.0000	215,524.40	0.00
E-R-I60-KVAR	7.5500	19,267.91	145,472.69
E-R-I60-RKVAR	-7.5500	8,935.36	-67,461.97
E-R-I60-PROJ	0.0000	0.00	0.00
E-R-I60-TAIC	0.0000	76,424,604.00	0.00
F-R-I60-001	914.8300	365.00	333,912.95
F-R-I60-002	1131.7700	365.00	413,096.05
F-R-I60-003	773.1300	365.00	282,192.45
F-R-I60-004	0.0000	0.00	0.00
F-R-I60-005	42.7900	0.00	0.00
F-R-I60-006	102.2600	365.00	37,324.90
F-R-I60-007	58.2500	365.00	21,261.25
F-R-I60-008	154.8600	365.00	56,523.90
F-R-I60-009	271.6100	365.00	99,137.65
F-R-I60-010	0.0000	0.00	0.00
F-R-I60-011	260.2600	365.00	94,994.90
F-R-I60-012	356.2800	365.00	130,042.20
F-R-I60-013	376.4300	365.00	137,396.95
F-R-I60-014	1.0000	365.00	365.00
F-R-I60-015	225.0800	365.00	82,154.20
F-R-I60-016	225.1300	0.00	0.00
F-R-I60-017	167.0600	365.00	60,976.90
F-R-I60-018	55.2100	365.00	20,151.65
F-R-I60-019	21.8300	365.00	7,967.95
F-R-I60-020	7.9000	365.00	2,883.50
F-R-I60-021	6.1900	365.00	2,259.35

Price Code	Rate 2020-21	Forecast Quant	Forecast Revenue
F-R-I60-022	0.0000	0.00	0.00
F-R-I60-023	0.0000	0.00	0.00
F-R-I60-024	0.0000	0.00	0.00
F-R-I60-025	0.0000	0.00	0.00
F-R-I60-026	1499.3400	365.00	547,259.10
F-R-I60-027	131.4700	365.00	47,986.55
F-R-I60-028	85.0300	365.00	31,035.95
F-R-I60-031	0.0000	365.00	0.00
F-R-I60-034	0.0000	365.00	0.00
F-R-I60-041	118.0800	365.00	43,099.20
F-R-I60-042	134.9200	365.00	49,245.80
F-R-I60-043	132.3000	365.00	48,289.50
F-R-I60-044	115.2900	365.00	42,080.85
F-R-I60-045	130.7700	365.00	47,731.05
F-R-I60-046	112.1800	365.00	40,945.70
F-R-I60-047	117.8000	365.00	42,997.00
F-R-I60-048	131.6300	365.00	48,044.95
F-R-I60-049	129.7400	365.00	47,355.10
F-R-I60-050	112.7300	365.00	41,146.45
F-R-I60-051	132.1100	365.00	48,220.15
F-R-I60-052	115.6200	365.00	42,201.30
F-R-I60-053	128.7600	365.00	46,997.40
F-R-I60-054	130.8700	365.00	47,767.55
F-R-I60-055	114.2200	365.00	41,690.30
F-R-I60-056	113.7500	365.00	41,518.75
F-R-I60-057	112.6000	365.00	41,099.00
F-R-I60-058	129.4000	365.00	47,231.00
F-R-I60-059	156.9300	365.00	57,279.45
F-R-I60-060	248.9900	365.00	90,881.35
F-R-I60-061	32.3900	365.00	11,822.35
F-R-I60-098	0.0000	730.00	0.00
F-R-I60-099	0.0000	1,095.00	0.00
<b>Rotorua/Taupo Forecast Revenue from Prices</b>			<b>56,637,631.52</b>

## Appendix C – Prices and Forecast Quantities for Pricing Year 2021, Continued

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Unison Forecast Revenue from Prices	
Region	Revenue
Hawke's Bay	77,733,073.23
Rotorua Taupo	56,637,631.52
<b>Unison</b>	<b>134,370,704.75</b>

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