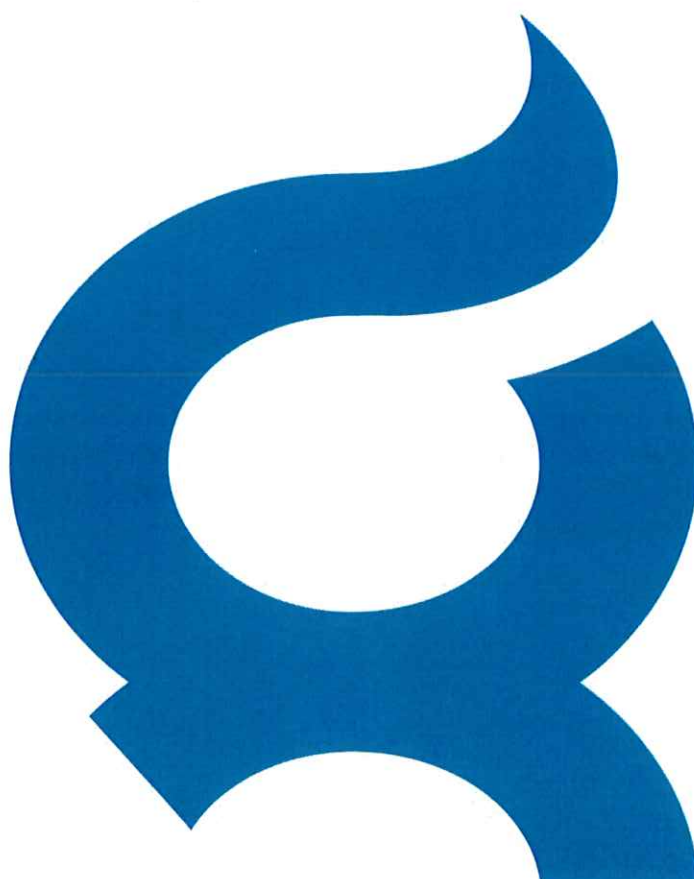




COMPLIANCE STATEMENT

**Gas transmission services:
Compliance with the wash-up amount
calculation and quality standards**

Assessment Period 1 October 2017 – 30 September 2018



Introduction

First Gas operates 2,500 km of gas transmission pipelines (including the Maui pipeline), and more than 4,600 km of gas distribution pipelines across the North Island. These gas infrastructure assets transport gas from Taranaki to major industrial gas users, electricity generators, businesses and homes, and transport around 20 percent of New Zealand's primary energy supply.

For further information on First Gas, please visit our website www.firstgas.co.nz.

Compliance Statement

This document is a Compliance Statement prepared pursuant to section 11.4 – 11.6 of the *Gas Transmission Services Default Price-Quality Path Determination 2017* (DPP Determination) issued by the Commerce Commission on 29 May 2017. This Compliance Statement covers First Gas' gas transmission business (GTB) for the year ending 30 September 2018.

The following documents are provided with this Compliance Statement:

- Calculation of the wash-up amount
- Calculations for quality standard compliance
- Director certification
- KPMG assurance report

This compliance statement was prepared on 5 December 2018.

Compliance status for year ending 30 September 2018

Compliance with the requirement to calculate the wash-up amount	Yes
Compliance with quality standard – RTE	Yes
Compliance with quality standard – Major interruptions	Yes

Further information

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Disclaimer

For presentation purposes, some numbers in the Compliance Statement have been rounded. This may cause small discrepancies or rounding inconsistencies when aggregating some of the information presented in the Compliance Statement. These discrepancies do not affect the overall compliance calculations which are based on the more detailed information.

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1. Wash-up amount compliance

First Gas is pleased to confirm that we have complied with the requirement to calculate the Wash-up Amount in clause 8.4 of the DPP Determination for the Assessment Period from 1 October 2017 to 30 September 2018. This is the first Assessment Period in this DPP period (2017 – 2022).

1.1 Determining the wash-up amount

The DPP Determination requires gas transmission businesses (GTB) to calculate the Wash-up Amount for each Assessment Period. This must be calculated in accordance with the following formula, as specified in Schedule 6 of the DPP Determination for the first Assessment Period.:

$$\text{Wash-Up Amount} = \text{Actual allowable revenue} - \text{actual revenue} - \text{revenue forgone}$$

1.2 Actual allowable revenue

Actual allowable revenue must be calculated in accordance with the formula:

$$\text{Actual allowable revenue} = \text{Actual net allowable revenue} + \text{actual pass-through costs and recoverable costs}$$

$$\begin{aligned} \text{Actual allowable revenue} &= \$121.596 \text{ million} + \$6,447 \text{ million} \\ &= \$128.043 \text{ million} \end{aligned}$$

Actual net allowable revenue

As specified in paragraph 1.1 of Schedule 6 of the DPP Determination, the actual net allowable revenue for the first Assessment Period is equal to the amount specified in Schedule 4 as the forecast net allowable revenue for the period.

Schedule 4 states that for the Assessment Period ending 30 September 2018, the forecast net allowable revenue is \$121.596 million. Accordingly, the actual net allowable revenue for the first Assessment Period is **\$121.596 million**.

Actual pass-through costs and recoverable costs

Actual pass-through and recoverable costs are those that:

- a) Were incurred in this Assessment Period (the year ended 30 September 2018); or
- b) Were unrecovered in the regulatory period ending 30 September 2017.

Any costs unrecovered in the regulatory period ending 30 September 2017 are subject to a time value of money adjustment and are multiplied by $(1 + \text{discount rate})$.

As specified in paragraph 1.3 of Schedule 6, the discount rate to be applied is 5.38%.

Table 1: Pass-through and Recoverable costs

Pass-through and Recoverable Costs	Incurred in the year ending 30 September 2018 \$000	Unrecovered in the prior regulatory period \$000	Total actual pass-through and recoverable costs \$000
Rates and levies	2,141	3,224 ¹	5,365
Balancing gas costs and revenue	(1,756)	2,126 ²	370
Mokau Compressor fuel gas costs	313	0	313
Total before the time value of money is applied	698	5,350	6,048
Time value of money adjustment	0	399	399
Total actual pass-through costs and recoverable costs	698	5,749	6,447

Calculation of actual allowable revenue

$$\begin{aligned}
 \text{Actual allowable revenue} &= \$121.596 \text{ million} + \$6.447 \text{ million} \\
 &= \$128,043 \text{ million}
 \end{aligned}$$

1.3 Actual Revenue

For the Assessment Period, GTBs must determine actual revenue as specified in the formula below:

$$\text{Actual revenue} = \text{Actual revenue from prices} + \text{other regulated income}$$

Where:

Actual revenue from prices Is the actual revenue from prices calculated as the sum of each price multiplied by each corresponding actual quantity.

Other regulated income Is income associated with the supply of gas transmission services other than through prices, investment related income, capital contributions and vested assets.

¹ Unrecovered pass-through costs included 21 months of rates and levies incurred by our Maui network and 14 months of rates incurred by our non-Maui network. In 2017 the Maui network moved from a July to June pricing year to an October to September pricing year. There were effectively two pricing assessment periods in 2017 for the Maui network. The first covered the period 1 July 2016 to 30 June 2017. Pricing for this period included all pass-through and recoverable costs incurred up to December 2015. The second pricing period covered the three months from 1 July 2017 to 30 September 2017. First Gas may only change pricing once a year under the Maui Pipeline Operating Code. As a result, only part of the balancing gas recoverable cost was included in pricing in this second pricing period. This resulted in almost two years of pass-through costs being unrecovered at 30 September 2017.

² Balancing gas fluctuates year on year. First Gas has limited control over this cost as the gas is used to balance pressure in our network and is dependent on the action of producers and consumers. This means we can see significant swings in costs from year to year.

First Gas' transmission business

The First Gas transmission business consists of two pipeline systems – the Maui transmission pipeline and the non-Maui (ex-Vector) transmission pipelines. Each system currently has its own pricing and its own access code – the Maui Pipeline Operating Code (MPOC) and the Vector Transmission Code (VTC).

To calculate the total Actual Revenue from Prices from our GTB, we have added together the Maui Actual Revenue from Prices with the non-Maui pipeline Actual Revenue from Prices.

Maui transmission pipeline

As announced to customers on 2 August 2017, the prices for the Maui pipeline for the 2017/18 pricing year³ were as follows:

Tariff	Value for 2017/18
Tariff 1 (\$ per GJ.km)	0.001578
Tariff 2 (\$ per GJ)	0.072061

The Actual Revenue from Prices for the Maui pipeline in 2017/18 was:

Tariff	Actual Quantity	Price	Total (\$million)
Tariff 1	16,571,302,281 GJ.km	\$0.001578 per GJ.km	\$26.150
Tariff 2	148,291,364 GJ	\$0.072061 per GJ	\$10.686
Cash out revenue ⁴		\$0.001578 per GJ.km	\$.003
Actual Revenue from Prices			\$36.839

Non-Maui transmission pipeline

The actual quantities and prices for the non-Maui pipelines are set out in **Appendix 2** and **Appendix 3**). The prices for the non-Maui pipeline for the 2017/18 pricing year were released on 31 August 2017.

Based on the prices and quantities outlined in **Appendices 1 to 3**, the Actual Revenue from Prices for this Assessment Period on the non-Maui pipeline was **\$91.962 million**.

³ The 2017/18 pricing year is for the period 1 October 2017 to 30 September 2018. The pricing year is the same as the Assessment Period.

⁴ Cash-out revenue is comprised of two elements: net earnings from the sale/purchase of gas and earnings from transmission revenue associated with these transactions. The transmission revenue element is not included here as it reflects a transaction between Maui and Non-Maui transmission networks managed by First Gas – hence a net zero value for First Gas Transmission. The amount represented here is the net amount earned from external parties. This is equal to the amount earned through the Maui Pipeline Operating Code (MPOC) of (\$0.096million) less the amount charged to First Gas as the operator of the Non-Maui Network under the MPOC that cannot be passed through to Vector Transmission Code customers under the VTC.

Total Actual Revenue from Prices

The total Actual Revenue from Prices is **\$128.801 million**.

Actual Revenue from Prices =	Actual Revenue from Prices (Maui) + Actual Revenue from Prices (Non-Maui)
	\$36.839 million + \$91.962 million
	\$128.801 million⁵

Other regulated income

First Gas received other regulated income of **(\$0.096) million** in the 2018 Assessment Period. Other regulated income was received from a loss on disposal of assets.

Calculation of actual allowable revenue

Actual revenue for 2018 =	\$128.801 million - \$0.096 million
=	\$128.705 million

1.4 Revenue foregone

Revenue foregone reflects a cap on the variance between actual revenue received from prices and that forecast to be received by First Gas when it set prices for the Assessment Period. If actual revenue divided by forecast revenue is more than 20%, the cap is triggered, and revenue is foregone.

For the Assessment Period, GTBs must determine revenue foregone as specified in the formula below:

$$\text{Revenue foregone} = \text{Actual net allowable revenue from prices} \times (\text{revenue reduction percentage} - 20\%)$$

Where:

<i>Actual net allowable revenue from prices</i>	Is the amount specified in Schedule 4 as the forecast net allowable revenue for the first Assessment Period
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<i>Revenue reduction percentage</i> =	$1 - (\text{actual revenue from prices} \div \text{forecast revenue from prices})$
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Calculating the revenue reduction percentage

Revenue reduction percentage	=	$1 - (\text{actual revenue from prices} \div \text{forecast revenue from prices})$
	=	$1 - (\$128.801 \text{ million} \div 126.278 \text{ million})$
	=	(2%)

⁵ Actual revenue is based on quantities relating to the 12-month 2018 pricing period only. It does not include accruals, nor does it include wash-up quantities relating to the prior regulatory control period (2013-2017).

Calculating the revenue foregone

As specified in paragraph 8 of Schedule 6, if the revenue reduction percentage is not greater than 20% then the revenue foregone is nil.

Accordingly, the revenue foregone for this Assessment Period is **nil**.

$$\begin{aligned}
 \text{Revenue foregone} &= \text{Actual net allowable revenue from prices} \times (\text{revenue reduction percentage} - 20\%^6) \\
 &= \$121.596 \text{ million} \times 0 \\
 &= \$0
 \end{aligned}$$

1.5 Compliance with the DPP Determination

Compliance with the DPP Determination requires that the GTB calculate the Wash-up Amount. The Wash-up Amount for this Assessment Period is **(\$0.662) million**.

$$\begin{aligned}
 \text{Wash-Up Amount (\$million)} &= \text{Actual allowable revenue} - \text{actual revenue} - \text{revenue forgone} \\
 &= \$128.043 - \$128.705 - \$0 \\
 &= (\$0.662) \text{ million}
 \end{aligned}$$

This amount will be passed into prices and back to consumers in the pricing year 1 October 2019 to 30 September 2020.

⁶ As specified in paragraph 8 of Schedule 6 of the DPP Determination, if the revenue reduction percentage is not greater than 20% then the revenue foregone is nil.

2. Quality standards compliance

We are pleased to confirm that First Gas has complied with the two quality standards specified in clause 9.1 of the DPP Determination in the first Assessment Period.

Compliance with the response time to emergencies standard	Yes
Compliance with major interruptions standard	Yes

2.1 Response Time to Emergencies

Clause 9 requires us to provide information on 'Response Time to Emergencies' ('RTE') relating to incidents and responses that could fall under this clause. The following quality assessment formula is used:

A GTB's RTE values for an Assessment Period must be such that the response time to any emergency must be no greater than 180 minutes.

Emergency is defined in the DPP Determination as follows:

- An incident that has occurred on or in the near vicinity of a GTB's assets on the transmission network, including leaks, unplanned disruptions of supply, third party damage, near-miss incidents, equipment failure, overpressure, or ignitions; and*
- That should be responded to immediately by the GTB based on Good Industry Practice (GIP).⁷*

Appendix 4 sets out the recorded events on the transmission pipeline from 1 October 2017 to 30 September 2018. Relevant incidents recorded during this period included one emergency:

- While completing repairs to one of the riser pipes at the Oparure Mainline Valve, a temporary sealing plug was fitted. The temporary sealing plug failed resulting in an uncontrolled gas release.
- The event was immediately reported to the First Gas control room by First Gas personnel who were on site when the event started.
- As First Gas personnel were on site when the event started the response time between notification of the event and personnel on site was **zero minutes**.

Exclusion of certain emergencies

No applications were made to the Commerce Commission to consider emergencies exceeding 180 minutes be treated as having complied with the quality standard for that emergency.

Calculation of RTE

The number of emergencies where response time exceeded 180 minutes is **nil**. Accordingly, First Gas is compliant with the RTE quality standard

⁷ GIP refers to good industry practice. First Gas adheres to the 'Guidelines for a Certificate of Fitness of High-Pressure Gas and Liquids Transmission Pipelines' issued by Worksafe New Zealand and NZ as a basis for good industry practice. When an incident occurs, the operations team immediately determine whether the incident meets the criteria for an emergency. First Gas' interpretation of emergency reflects that in the DPP. Once the operations duty manager declares an emergency the emergency response process is activated..

2.2 Major Interruptions

As specified in paragraph 9.1 of the DPP Determination, a GTB must have no major interruptions in the Assessment Period to be compliant with the quality standard.

A major interruption means any “*declaration of a Critical Contingency caused or contributed to by an incident on the transmission assets owned or controlled by the GTB, which results in curtailment directions being issued in respect of any band beyond band 1.*”

The number of major interruptions in this assessment period is **nil**. Accordingly, First Gas is compliant with the major interruption quality standard

2.3 Policies and procedures

All GTB integrity data (including RTE) is recorded and compiled by our Gas Control Team at our Gas Transmission Operations Centre at Bell Block in Taranaki. This is done following a prescriptive set of processes that have been developed to ensure accuracy and consistency of reporting. These processes are documented together in our *Gas Transmission Operating Standard – Event logging*.

An emergency event is triggered by the Gas Transmission Duty Manager declaring an Emergency. Circumstances which lead to an emergency being declared are summarised in **Appendix 5**. These are consistent with the definition of Emergency in the DPP Determination.

RTE statistics for each emergency event are entered into an information system, and the data is retained for reporting and analysis. Our Gas Control Team completes quality control and remediation work in line with the detailed procedures outline in the Operating Standard mentioned above. RTE performance is monitored by the Gas Control Team, and emergencies are reported to the First Gas Executive Team, including the time taken to respond.

Procedures in the event of a Critical Contingency event

First Gas is bound by the Gas Governance (Critical Contingency Management Regulations 2008) Regulations that are administered by the Gas Industry Company. Under the regulations, a Critical Contingency Operator (CCO) is appointed. The role of the CCO⁸ is to:

- Determine and declare the onset of a critical contingency;
- Call for load curtailment as required to balance the system;
- Monitor the supply and demand balance and adjust load curtailment as necessary; and
- Determine when it is safe to terminate a critical contingency.

While First Gas is not the CCO, we remain in direct control and management of the transmission system at all times during a critical contingency and activate processes and procedures contained in our critical contingency management plan (CCMP).

Our CCMP is available from the website of the critical contingency operator.⁹

⁸ Further information on the critical contingency operator is available from www.cco.org.nz

⁹ Refer to the *First Gas Critical Contingency Management Plan* available from <http://www.cco.org.nz/Publications/>

2.4 Compliance with quality standards

As illustrated in sections 2.1 and 2.2 of this Compliance Statement, First Gas has complied with the quality standards for the first Assessment Period.

Appendix 1: Summary of the $P_{i,2018}Q_{i,2018}$ for the 2018 Assessment period for the Non-Maui network

		$P_{i,2018}, Q_{i,2018}$
Total	\$	91,961,971

		$P_{i,2018}, Q_{i,2018}$
Transmission standard published charges between 1 October 2017 and 30 September 2018	\$	60,879,171
Transmission non-standard charges and STP charges between 1 October 2017 and 30 September 2018	\$	27,987,955
Transmission STP charges between 1 October 2017 and 30 September 2018	\$	2,222,111
Charges billed outside OATIS between 1 October 2017 and 30 September 2018	\$	872,735

Appendix 2: P_{1,2018Q₁2018} from standard prices for the 2018 Assessment Period

P_{1,2018Q₁2018}

Sum									\$	60,879,171
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Type	Contract	Unit	Receipt Point Name	Receipt Point ID	Delivery Point	Delivery Point ID	Zone	Quantity	Price	Total
Standard	TSA	GJ	Various	Various	Various	Various	N/A	39,156,181.239	0.05	\$ 1,957,809
Standard	TSA	MDQ	Huntly Offtake	OFF16601	Huntly	HTL16601	N/A	72,702.535	350	\$ 69,715
Standard	TSA	MDQ	Kapuni North Receipt	KAP09008	Eltham	ELM12301	N/A	220,653.840	80	\$ 48,362
Standard	TSA	MDQ	Kapuni North Receipt	KAP09008	Inglewood	IGW11901	N/A	49,934.567	80	\$ 10,945
Standard	TSA	MDQ	Kapuni North Receipt	KAP09008	Kaponga	KPA12401	N/A	2,609.085	80	\$ 572
Standard	TSA	MDQ	Kapuni North Receipt	KAP09008	New Plymouth	NPL12101	N/A	1,104,842.943	80	\$ 242,157
Standard	TSA	MDQ	Kapuni North Receipt	KAP09008	Stratford	STR10201	N/A	111,349.782	80	\$ 24,405
Standard	TSA	MDQ	Kapuni North Receipt	KAP09008	Waitara	WTR12001	N/A	118,061.880	80	\$ 25,877
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Ashhurst	ASH34301	N/A	13,675.885	340	\$ 12,739
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Belmont	BEL24510	N/A	2,016,467.471	420	\$ 2,320,319
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Dannevirke	DAN05001	N/A	70,014.970	350	\$ 67,138
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Felding	FLD03001	N/A	303,065.950	340	\$ 282,308
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Flockhouse	FLH21901	N/A	244.550	340	\$ 228
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Foxton	FOX22101	N/A	55,339.435	340	\$ 51,549
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Greater Waitangirua	GTW06910	N/A	491,204.630	420	\$ 565,222
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Hastings	HST05210	N/A	2,623,182.904	350	\$ 2,515,381
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Hastings (Nova)	HST05203	N/A	309,375.000	350	\$ 296,661
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Hawera	HWA20801	N/A	452,437.554	330	\$ 409,053
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Hawera (Nova)	HWA20802	N/A	121,910.000	330	\$ 110,220
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Kairanga	KRG24101	N/A	538.900	340	\$ 502
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Kaitoke	KTK23901	N/A	32,083.500	330	\$ 29,007
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Kakariki	KKI23701	N/A	109,865.000	330	\$ 99,330
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Kuku	KUK22401	N/A	1,518.400	340	\$ 1,414
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Lake Alice	LAB20201	N/A	58,734.325	330	\$ 53,102
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Levin	LVN24401	N/A	423,132.582	340	\$ 394,151
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Longburn	LNB24301	N/A	377,085.341	340	\$ 351,258
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Maniaia	MNA23402	N/A	26,690.530	330	\$ 24,131
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Mangaroa	MNG34001	N/A	32,521.500	350	\$ 31,185
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Mangatainoka	MKG05401	N/A	10,950.000	340	\$ 10,200
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Marton	MTN23801	N/A	308,472.240	330	\$ 278,893
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Matapu	MTP20601	N/A	587.650	330	\$ 531
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Okaiawa	OKW23401	N/A	596,833.280	330	\$ 539,603
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Oroua Downs	ORD24701	N/A	21,537.600	340	\$ 20,062
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Otaki	OTA22601	N/A	27,863.377	420	\$ 32,062
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Pahiatua	PHT04901	N/A	15,619.550	340	\$ 14,550
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Pahiatua DF	PHT04902	N/A	-	340	\$ -
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Palmerston North	PLN24201	N/A	1,435,073.193	340	\$ 1,336,781
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Paraparaumu	PAU20101	N/A	230,273.784	420	\$ 264,973
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Patea	PTA20901	N/A	31,444.289	330	\$ 28,429
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Pauatahanui 2	PAH23101	N/A	2,591.500	420	\$ 2,982
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Takapau	TKP05101	N/A	172,670.000	350	\$ 165,574
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Tawa A	TWA35610	N/A	3,128,600.835	420	\$ 3,600,034
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Tawa B (Nova)	TWB24810	N/A	355,758.000	420	\$ 409,365
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Te Horo	THO22701	N/A	715.035	420	\$ 823
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Waikanae 2	WAK22802	N/A	88,794.191	420	\$ 102,174
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Waitotara	WTT20301	N/A	43,936.415	330	\$ 39,723
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Wanganui	WAG21501	N/A	1,416,347.898	330	\$ 1,280,534
Standard	TSA	MDQ	Kapuni South Receipt	KAP09004	Waverley	WVY23601	N/A	1,195.740	330	\$ 1,081
Standard	TSA	MDQ	Ngaurawahia Offtake	OFF14501	Ngaurawahia	NGW14501	N/A	7,908.345	350	\$ 7,583
Standard	TSA	MDQ	Oakura Offtake	OFF16701	Oakura	OKU16701	N/A	14,114.004	80	\$ 3,093
Standard	TSA	MDQ	Okato Offtake	OFF13201	Okato	OKA13201	N/A	4,109.810	80	\$ 901
Standard	TSA	MDQ	Opunake Offtake	OFF13001	Opunake	OPK13001	N/A	12,968.705	80	\$ 2,842
Standard	TSA	MDQ	Otorohanga Offtake	OFF14101	Otorohanga	OTO14101	N/A	16,457.645	350	\$ 15,781
Standard	TSA	MDQ	Pirongia Offtake	OFF31101	Pirongia	PIR31101	N/A	3,302.885	350	\$ 3,167
Standard	TSA	MDQ	Pirongia Offtake	OFF31101	Te Awamutu DF	TAC31001	N/A	646,830.347	350	\$ 620,248
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Broadlands	BRO36301	N/A	79,710.000	450	\$ 98,273
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Edgecumbe	EGC30702	N/A	2,714.505	470	\$ 3,495
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Edgecumbe DF	EGC30701	N/A	1,569,019.906	470	\$ 2,293,149
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Gisborne	GIS07810	N/A	682,677.507	490	\$ 916,471
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Greater Mt Maunganui	GMM08001	N/A	942,964.023	430	\$ 1,110,889
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Greater Tauranga	GTT07701	N/A	474,726.815	430	\$ 559,267
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Kawerau	KAW04405	N/A	14,947.175	450	\$ 18,428
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Kawerau (ex-Caxton)	KAW04410	N/A	232,955.760	450	\$ 287,206
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Kawerau (ex-Tasman)	KAW04411	N/A	652,792.537	450	\$ 804,813
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Kihikihi (Te Awamutu)	KIH19101	N/A	123,115.495	350	\$ 118,056
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Kinleith	KIN02601	N/A	49,400.060	350	\$ 47,370
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Kinleith (CHH mill)	KIN04310	N/A	4,393,862.598	350	\$ 4,213,293
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Lichfield 2	LCF20011	N/A	-	350	\$ -
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Lichfield DF	LCF20010	N/A	581,717.933	350	\$ 557,812

Type	Contract	Unit	Receipt Point Name	Receipt Point ID	Delivery Point	Delivery Point ID	Zone	Quantity	Price	Total
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Okoroire Springs	OKS32801	N/A	1,053.630	350	\$ 1,010
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Opotiki	OPO32001	N/A	26,029.675	490	\$ 34,944
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Putaruru	PTR32601	N/A	123,224.735	350	\$ 118,161
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Rangiora	RAG33401	N/A	80,517.369	430	\$ 94,856
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Reporoa	RPR30801	N/A	550,859.929	450	\$ 679,142
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Rotorua	ROT08101	N/A	614,311.179	450	\$ 757,370
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Taupo	TAU07001	N/A	193,528.368	450	\$ 238,597
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Te Puke	TPK33301	N/A	46,103.945	430	\$ 54,314
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Te Teko	TTK30601	N/A	6,307.000	470	\$ 8,121
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Tirau	TIR33502	N/A	11,231.780	350	\$ 10,770
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Tirau DF	TIR33501	N/A	390,872.833	350	\$ 374,810
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Tokoroa	TKR19701	N/A	178,298.319	350	\$ 170,971
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Waikeria	WKE19201	N/A	42,705.000	350	\$ 40,950
Standard	TSA	MDQ	Pokuru No 1	PKU02308	Whakatane	WHK32101	N/A	94,785.983	470	\$ 122,053
Standard	TSA	MDQ	Pungarehu Offtake	OFF15901	Pungarehu No 1	PGU13101	N/A	-	80	\$ -
Standard	TSA	MDQ	Pungarehu Offtake	OFF15901	Pungarehu No 2	PGH15901	N/A	948.700	80	\$ 208
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Alfriston	ALF15501	N/A	19,608.808	340	\$ 18,266
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Dnury 1	DRU15101	N/A	291,800.028	340	\$ 271,814
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Flat Bush	FLB15601	N/A	618,265.000	340	\$ 575,918
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Glenbrook	GLB03401	N/A	2,468,400.000	340	\$ 2,299,332
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	N/A	16,318,849.880	340	\$ 15,201,120
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Hamisville 2	HAR11802	N/A	561,558.416	340	\$ 523,096
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Hunua	HUN15301	N/A	129,940.000	340	\$ 121,040
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Hunua (Nova)	HUN15302	N/A	128,480.000	340	\$ 119,680
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Hunua 3	HUN15303	N/A	73,000.000	340	\$ 68,000
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Kingsseat	KIG16801	N/A	396.025	340	\$ 369
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Marsden 2	MSD01802	N/A	20,681.248	515	\$ 29,180
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Pukekohe	PUK04201	N/A	98,588.840	340	\$ 91,834
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Ramarama	RAM15201	N/A	24,463.760	340	\$ 22,788
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Taukua 2	TUK06502	N/A	769,883.280	340	\$ 717,152
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Waitoki	WTK33901	N/A	218,100.000	340	\$ 203,162
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Warkworth	WRK18901	N/A	21,095.463	515	\$ 29,785
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Wellsford	WEL18301	N/A	1,713.310	515	\$ 2,417
Standard	TSA	MDQ	Rotowaro Receipt	RTW3203	Whangarei	WHG07501	N/A	192,528.860	515	\$ 271,650
Standard	TSA	MDQ	Rotowaro South Receipt	RTS13201	Greater Hamilton	GTH11301	N/A	2,517,601.861	150	\$ 1,034,631
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Cambridge	CAM17201	N/A	657,955.449	350	\$ 630,916
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Horotiu	HRU16101	N/A	262,955.866	350	\$ 252,149
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Kiwitahi 1 (Peroxide)	KIW34201	N/A	365,000.000	350	\$ 350,000
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Kiwitahi 2	KIW34202	N/A	24,212.000	350	\$ 23,217
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Matangi	MTG17301	N/A	1,002.310	350	\$ 961
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Morrinsville	MRV16302	N/A	78,582.065	350	\$ 75,353
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Morrinsville DF	MRV16301	N/A	220,540.296	350	\$ 211,477
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Tatunui DF	TAT16401	N/A	-	350	\$ -
Standard	TSA	MDQ	Te Kowhai Receipt	TEK28701	Waitoa	WTA16501	N/A	465,539.827	350	\$ 446,408
Standard	TSA	MDQ	Te Kuiti North Offtake	OFF17001	Te Kuiti North	TKN17001	N/A	43,546.400	350	\$ 41,757
Standard	TSA	OR	Huntly Offtake	OFF16601	Huntly	HTL16601	No Zone	1,377.614	9.5890411	\$ 13,210
Standard	TSA	OR	Kapuni North Receipt	KAP09008	Eltham	ELM12301	No Zone	1,383.923	2.19178082	\$ 3,033
Standard	TSA	OR	Kapuni North Receipt	KAP09008	Inglewood	IGW11901	No Zone	594.788	2.19178082	\$ 1,304
Standard	TSA	OR	Kapuni North Receipt	KAP09008	Kaponga	KPA12401	No Zone	21.248	2.191781	\$ 47
Standard	TSA	OR	Kapuni North Receipt	KAP09008	Stratford	STR10201	No Zone	1,769.729	2.191781	\$ 3,879
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Dannevirke	DAN05001	No Zone	1,653.570	9.589041	\$ 15,856
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Foxton	FOX22101	No Zone	1,281.694	9.315068	\$ 11,939
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Kaitake	KTK23901	No Zone	272.780	9.041096	\$ 2,466
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Kakariki	KKI23701	No Zone	206.946	9.041096	\$ 1,871
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Kuku	KUK22401	No Zone	18.718	9.315068	\$ 174
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Lake Alice	LAB20201	No Zone	728.335	9.041096	\$ 6,585
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Levin	LVN24401	No Zone	5,706.649	9.315068	\$ 53,158
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Mangaroa	MNG34001	No Zone	55.240	9.589041	\$ 530
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Mangatainoka	MGK05401	No Zone	-	9.315068	\$ -
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Marion	MTN23801	No Zone	1,332.843	9.041096	\$ 12,050
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Matapu	MTP20601	No Zone	171.283	9.041096	\$ 1,549
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Pahiatua	PHI04901	No Zone	335.493	9.315068	\$ 3,125
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Pahiatua DF	PHI04902	No Zone	-	9.315068	\$ -
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Palmerston North	PLN24201	No Zone	9,578.101	9.315068	\$ 89,221
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Patea	PTA20901	No Zone	108.254	9.041096	\$ 979
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Takapau	TKP05101	No Zone	1,428.108	9.589041	\$ 13,694
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Waitotara	WTT20301	No Zone	426.793	9.041096	\$ 3,859
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Wanganui	WAG21501	No Zone	8,887.467	9.041096	\$ 80,352
Standard	TSA	OR	Kapuni South Receipt	KAP09004	Waverley	WVY23601	No Zone	0.069	9.041096	\$ 1
Standard	TSA	OR	Ngaruawahia Offtake	OFF14501	Ngaruawahia	NGW14501	No Zone	412.106	9.589041	\$ 3,952
Standard	TSA	OR	None	None	None	None	Auckland Zone	83,975.189	9.315068	\$ 782,235
Standard	TSA	OR	None	None	None	None	Edgumbe Zone	467.668	12.876712	\$ 6,022
Standard	TSA	OR	None	None	None	None	Hastings Zone	16,451.695	9.589041	\$ 157,756
Standard	TSA	OR	None	None	None	None	Hawera Zone	8,727.153	9.041096	\$ 78,903
Standard	TSA	OR	None	None	None	None	Kawerau Zone	4,000.374	12.328767	\$ 49,320
Standard	TSA	OR	None	None	None	None	Kinleith Zone	86,317.694	9.589041	\$ 827,704
Standard	TSA	OR	None	None	None	None	Kiwitahi Zone	98.374	9.589041	\$ 943
Standard	TSA	OR	None	None	None	None	Manawatu Zone	3,726.753	9.315068	\$ 34,715
Standard	TSA	OR	None	None	None	None	Marsden	598.905	14.109589	\$ 8,450
Standard	TSA	OR	None	None	None	None	Morrinsville Zone	7,146.888	9.589041	\$ 68,532
Standard	TSA	OR	None	None	None	None	New Plymouth Zone	11,853.087	2.191781	\$ 25,979
Standard	TSA	OR	None	None	None	None	Oxalawa-Manala Zone	2,437.591	9.041096	\$ 22,038

Type	Contract	Unit	Receipt Point Name	Receipt Point ID	Delivery Point	Delivery Point ID	Zone	Quantity	Price	Total
Standard	TSA	OR	None	None	None	None	South Auckland Rural Zone	13,638.164	9.315068	\$ 127,040
Standard	TSA	OR	None	None	None	None	Tirau Zone	8,011.928	9.589041	\$ 76,827
Standard	TSA	OR	None	None	None	None	Wellington Zone	60,683.439	11.506849	\$ 698,275
Standard	TSA	OR	None	None	None	None	Western Bay of Plenty Zone	5,579.921	11.780822	\$ 65,736
Standard	TSA	OR	Oakura Offtake	OFF16701	Oakura	OKU16701	No Zone	879.064	2.191781	\$ 1,927
Standard	TSA	OR	Okato Offtake	OFF13201	Okato	OKA13201	No Zone	126.449	2.191781	\$ 277
Standard	TSA	OR	Opunake Offtake	OFF13001	Opunake	OPK13001	No Zone	109.885	2.191781	\$ 240
Standard	TSA	OR	Otorohanga Offtake	OFF14101	Otorohanga	OTO14101	No Zone	1,400.155	9.589041	\$ 13,426
Standard	TSA	OR	Pirongia Offtake	OFF31101	Pirongia	PIR31101	No Zone	109.018	9.589041	\$ 1,045
Standard	TSA	OR	Pirongia Offtake	OFF31101	Te Awamutu DF	TAC31001	No Zone	6,958.688	9.589041	\$ 66,727
Standard	TSA	OR	Pokuru No 1	PKU02308	Broadlands	BRO36301	No Zone	1,172.677	12.328767	\$ 14,458
Standard	TSA	OR	Pokuru No 1	PKU02308	Gisborne	GIS07810	No Zone	7,268.784	13.424658	\$ 97,581
Standard	TSA	OR	Pokuru No 1	PKU02308	Kihikihi (Te Awamutu)	KIH19101	No Zone	3,351.703	9.589041	\$ 32,140
Standard	TSA	OR	Pokuru No 1	PKU02308	Lichtfield DF	LCF20010	No Zone	1,956.502	9.589041	\$ 18,761
Standard	TSA	OR	Pokuru No 1	PKU02308	Okoroire Springs	OKS32801	No Zone	787.015	9.589041	\$ 7,547
Standard	TSA	OR	Pokuru No 1	PKU02308	Opoiki	OPO32001	No Zone	467.334	13.424658	\$ 6,274
Standard	TSA	OR	Pokuru No 1	PKU02308	Putaruru	PTR32601	No Zone	2,267.647	9.589041	\$ 21,745
Standard	TSA	OR	Pokuru No 1	PKU02308	Rangluru	RAG33401	No Zone	457.469	11.780822	\$ 5,389
Standard	TSA	OR	Pokuru No 1	PKU02308	Reporoa	RPR30801	No Zone	9,092.121	12.328767	\$ 112,095
Standard	TSA	OR	Pokuru No 1	PKU02308	Rotorua	ROT08101	No Zone	14,157.797	12.328767	\$ 174,548
Standard	TSA	OR	Pokuru No 1	PKU02308	Taupo	TAU07001	No Zone	2,427.408	12.328767	\$ 29,927
Standard	TSA	OR	Pokuru No 1	PKU02308	Te Teko	TTK30601	No Zone	152.990	12.876712	\$ 1,970
Standard	TSA	OR	Pokuru No 1	PKU02308	Tokoroa	TKR19701	No Zone	1,020.397	9.589041	\$ 9,785
Standard	TSA	OR	Pokuru No 1	PKU02308	Waikeria	WKE19201	No Zone	-	9.589041	\$ -
Standard	TSA	OR	Pokuru No 1	PKU02308	Whakatane	WHK32101	No Zone	882.104	12.876712	\$ 11,359
Standard	TSA	OR	Pungarehu Offtake	OFF15901	Pungarehu No 1	PGU13101	No Zone	76.171	2.191781	\$ 167
Standard	TSA	OR	Pungarehu Offtake	OFF15901	Pungarehu No 2	PGH15901	No Zone	12.552	2.191781	\$ 28
Standard	TSA	OR	Rolowaro Receipt	RTW3203	Glenbrook	GLB03401	No Zone	10,022.610	9.315068	\$ 93,361
Standard	TSA	OR	Rolowaro Receipt	RTW3203	Warkworth	WRK18901	No Zone	1,122.857	14.109589	\$ 15,843
Standard	TSA	OR	Rolowaro Receipt	RTW3203	Wellsford	WEL18301	No Zone	0.798	14.109589	\$ 11
Standard	TSA	OR	Rolowaro Receipt	RTW3203	Whangarei	WHG07501	No Zone	737.988	14.109589	\$ 10,413
Standard	TSA	OR	Rolowaro South Receipt	RTS13201	Greater Hamilton	GTH11301	No Zone	18,515.733	4.109589	\$ 76,092
Standard	TSA	OR	Te Kowhai Receipt	TEK28701	Cambridge	CAM17201	No Zone	4,794.235	9.589041	\$ 45,972
Standard	TSA	OR	Te Kowhai Receipt	TEK28701	Horotiu	HUR16101	No Zone	8,386.158	9.589041	\$ 80,415
Standard	TSA	OR	Te Kowhai Receipt	TEK28701	Matangi	MTG17301	No Zone	125.545	9.589041	\$ 1,204
Standard	TSA	OR	Te Kowhai Receipt	TEK28701	Tatuanui DF	TAT16401	No Zone	-	9.589041	\$ -
Standard	TSA	OR	Te Kowhai Receipt	TEK28701	Waioa	WTA16501	No Zone	10,434.396	9.589041	\$ 100,056
Standard	TSA	OR	Te Kuiti North Offtake	OFF17001	Te Kuiti North	TKN17001	No Zone	354.991	9.589041	\$ 3,404
Standard	TSA	OR	Te Kuiti South Offtake	OFF17401	Te Kuiti South	TKS17401	No Zone	210.136	9.589041	\$ 2,015
Standard	TSA	GJ	Frankley Road-Bi	F4000439	Kapuni (Lactose et al)	KAP12901	N/A	29,657.627	0.280000	\$ 8,304
Standard	TSA	MDQ	Frankley Road-Bi	F4000439	Kapuni (Lactose et al)	KAP12901	N/A	-	0	\$ -
Standard	TSA	OR	Frankley Road-Bi	F4000439	Kapuni (Lactose et al)	KAP12901	No Zone	-	0	\$ -
Total										\$ 60,879,171

Appendix 3: P_{1,2018}Q_{1,2018} from non-standard prices for the 2018 Assessment Period

P_{1,2018}Q_{1,2018}

Non-standard charges	\$	27,987,955
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Contract	Unit	Receipt Point Name	Receipt Point ID	Delivery Point	Delivery Point Zone	Quantity	Price	Total
FGL17001	GJ	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	N/A	237,342	0.4083 \$ 96,907
FGL17001	MDQ	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	N/A	529,615	\$ -
FGL17001	OR	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	No Zone	-	9.3150685 \$ -
FGL17001	DAY	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	N/A	365	224.164600 \$ 81,820
FGL17003	DAY	Frankley Road-Bi	F4000439	Balance 8201 Balance 9626	BAL08201 BAL09626	N/A	365	5400 \$ 1,971,000
FGL17004	GJ	Pokuru No 1	PKU02308	Te Puke	TPK33301	N/A	7,567	0.05 \$ 378
FGL17004	MDQ	Pokuru No 1	PKU02308	Te Puke	TPK33301	N/A	27,550	410 \$ 30,947
FGL17004	OR	Pokuru No 1	PKU02308	Te Puke	TPK33301	No Zone	251	11.2300 \$ 2,818
FGL17005	GJ	Te Kowhai Receipt	TEK28701	Te Rapa Cogen	TRC02003	N/A	3,981,897	0.04 \$ 159,276
FGL17005	MDQ	Te Kowhai Receipt	TEK28701	Te Rapa Cogen	TRC02003	N/A	8,468,000	\$ -
FGL17005	OR	Te Kowhai Receipt	TEK28701	Te Rapa Cogen	TRC02003	No Zone	-	1.03 \$ -
FGL17005	DAY	Te Kowhai Receipt	TEK28701	Te Rapa Cogen	TRC02003	N/A	365	2358.09 \$ 860,703
FGL17006	DAY	N/A	N/A	Te Rapa Cogen	TRC02003	N/A	365	34.24 \$ 12,498
FGL17007	YEAR	N/A	N/A	Hastings (Nova)	HST05203	N/A	1	1800 \$ 1,800
FGL17008	YEAR	N/A	N/A	Hawera (Nova)	HWA20802	N/A	1	900 \$ 900
FGL17009	YEAR	N/A	N/A	Hunua (Nova)	HUN15302	N/A	1	1215 \$ 1,215
FGL17010	GJ	Kapuni North Receipt	KAP09008	Pokuru 2 Delivery	PKD02402	N/A	2,625,784	0 \$ -
FGL17010	MDQ	Kapuni North Receipt	KAP09008	Pokuru 2 Delivery	PKD02402	N/A	2653730	0.37 \$ 981,880
FGL17010	OR	Kapuni North Receipt	KAP09008	Pokuru 2 Delivery	PKD02402	No Zone	0	0 \$ -
FGL17011	GJ	Rotowaro Receipt	RTW3203	Kauri DF Maungaturoto DF	KUR33601 MUT19001	N/A	1,049,850	0.0519 \$ 54,487
FGL17011	MDQ	Rotowaro Receipt	RTW3203	Kauri DF Maungaturoto DF	KUR33601 MUT19001	N/A	1,414,250	362.7061 \$ 1,405,362
FGL17011	OR	Rotowaro Receipt	RTW3203	Kauri DF Maungaturoto DF	KUR33601 MUT19001	No Zone	418	9.9372 \$ 4,150
FGL17012	GJ	Kupe Receipt Point	KUP37501	Frankley Road-Bi	F4000439	N/A	2,005,426	0 \$ -
FGL17012	MDQ	Kupe Receipt Point	KUP37501	Frankley Road-Bi	F4000439	N/A	2,079,866	0.28 \$ 582,362
FGL17012	OR	Kupe Receipt Point	KUP37501	Frankley Road-Bi	F4000439	No Zone	3,012	2.19 \$ 6,596
FGL17013	GJ	Pokuru No 1	PKU02308	Kihikihi (Te Awamutu)	KIH19101	N/A	7,785	0.05 \$ 389
FGL17013	MDQ	Pokuru No 1	PKU02308	Kihikihi (Te Awamutu)	KIH19101	N/A	52,050	153 \$ 21,818
FGL17013	OR	Pokuru No 1	PKU02308	Kihikihi (Te Awamutu)	KIH19101	No Zone	268	9.04000 \$ 2,423
FGL17014	GJ	Kapuni South Receipt	KAP09004	Pahiatua DF	PHT04902	N/A	706,025	0.05 \$ 35,301
FGL17014	MDQ	Kapuni South Receipt	KAP09004	Pahiatua DF	PHT04902	N/A	1,326,410	340 \$ 1,235,560
FGL17014	OR	Kapuni South Receipt	KAP09004	Pahiatua DF	PHT04902	No Zone	-	9.315068 \$ -
FGL17015	GJ	Kapuni South Receipt	KAP09004	Hastings	HST05210	N/A	154,061	0 \$ -
FGL17015	MDQ	Kapuni South Receipt	KAP09004	Hastings	HST05210	N/A	344,240	0.68 \$ 234,083
FGL17015	OR	Kapuni South Receipt	KAP09004	Hastings	HST05210	No Zone	3,514	9.04 \$ 31,765
FGL17016	GJ	Rotowaro Receipt	RTW3203	Marsden 1	MSD01801	N/A	43,758	0 \$ -
FGL17016	MDQ	Rotowaro Receipt	RTW3203	Marsden 1	MSD01801	N/A	90,547	0.96 \$ 86,925
FGL17016	OR	Rotowaro Receipt	RTW3203	Marsden 1	MSD01801	No Zone	736	14.11 \$ 10,385
FGL17017	GJ	Kapuni South Receipt	KAP09004	Mokola	MOK35801	N/A	7,449	1 \$ 7,449
FGL17017	MDQ	Kapuni South Receipt	KAP09004	Mokola	MOK35801	N/A	109,500	0 \$ -
FGL17017	OR	Kapuni South Receipt	KAP09004	Mokola	MOK35801	No Zone	1,394	8.22 \$ 11,459
FGL17018	GJ	Rotowaro Receipt	RTW3203	Warkworth	WRK18901	N/A	234,355	0.53 \$ 124,208
FGL17018	MDQ	Rotowaro Receipt	RTW3203	Warkworth	WRK18901	N/A	547,500	158.07 \$ 237,105
FGL17018	OR	Rotowaro Receipt	RTW3203	Warkworth	WRK18901	No Zone	-	14.11 \$ -
FGL17019	DAY	Stratford 3 Receipt Point	STR00513	Stratford 3 Delivery Point	STR00511	N/A	365	36.673171 \$ 13,386

Contract	Unit	Receipt Point Name	Receipt Point ID	Delivery Point	Delivery Point	Zone	Quantity	Price	Total
FGL17020	GJ	Frankley Road-Bi Stratford 3 Receipt Point	F4000439 STR00513	Stratford 3 Delivery Point Frankley Road-Bi	STR00511 F4000439	N/A	2,697,758	0	\$ -
FGL17020	MDQ	Frankley Road-Bi Stratford 3 Receipt Point	F4000439 STR00513	Stratford 3 Delivery Point Frankley Road-Bi	STR00511 F4000439	N/A	20,440,000	0	\$ -
FGL17020	OR	Frankley Road-Bi Stratford 3 Receipt Point	F4000439 STR00513	Stratford 3 Delivery Point Frankley Road-Bi	STR00511 F4000439	No Zone	-	0.313781	\$ -
FGL17020	DAY	Frankley Road-Bi Stratford 3 Receipt Point	F4000439 STR00513	Stratford 3 Delivery Point Frankley Road-Bi	STR00511 F4000439	N/A	365	5334.279341	\$ 1,947,012
FGL17021	DAY	N/A	N/A	Stratford 2	STR00501	N/A	365	36.673175	\$ 13,386
FGL17022	GJ	Frankley Road-Bi	F4000439	Stratford 2	STR00501	N/A	3,135,659	0	\$ -
FGL17022	MDQ	Frankley Road-Bi	F4000439	Stratford 2	STR00501	N/A	18,250,000	0	\$ -
FGL17022	OR	Frankley Road-Bi	F4000439	Stratford 2	STR00501	No Zone	-	0.977951	\$ -
FGL17022	DAY	Frankley Road-Bi	F4000439	Stratford 2	STR00501	N/A	365	4889.756061	\$ 1,784,761
FGL17023	GJ	Kupe Receipt Point	KUP37501	Frankley Road out to Maui	FOU00001	N/A	13,616,365	0	\$ -
FGL17023	MDQ	Kupe Receipt Point	KUP37501	Frankley Road out to Maui	FOU00001	N/A	14,235,000	0	\$ -
FGL17023	OR	Kupe Receipt Point	KUP37501	Frankley Road out to Maui	FOU00001	No Zone	13,685	0.56	\$ 7,664
FGL17023	DAY	Kupe Receipt Point	KUP37501	Frankley Road out to Maui	FOU00001	N/A	365	6461.622682	\$ 2,358,492
FGL17024	GJ	Kupe Receipt Point	KUP37501	Kapuni GTP	KAP09612	N/A	6,777,937	0	\$ -
FGL17024	MDQ	Kupe Receipt Point	KUP37501	Kapuni GTP	KAP09612	N/A	9,125,000	0	\$ -
FGL17024	OR	Kupe Receipt Point	KUP37501	Kapuni GTP	KAP09612	No Zone	-	0.56	\$ -
FGL17024	DAY	Kupe Receipt Point	KUP37501	Kapuni GTP	KAP09612	N/A	365	1	\$ 365
FGL17026	YEAR	N/A	N/A	Tawa B (Nova)	TWB24810	N/A	1	37521.1	\$ 37,521
FGL17027	DAY	N/A	N/A	TCC (Taranaki Combined Cycle)	TCC00201	N/A	365	36.673173	\$ 13,386
FGL17028	GJ	Frankley Road-Bi	F4000439	TCC (Taranaki Combined Cycle)	TCC00201	N/A	6,061,397	0	\$ -
FGL17028	MDQ	Frankley Road-Bi	F4000439	TCC (Taranaki Combined Cycle)	TCC00201	N/A	23,360,000	0	\$ -
FGL17028	OR	Frankley Road-Bi	F4000439	TCC (Taranaki Combined Cycle)	TCC00201	No Zone	-	1.007123	\$ -
FGL17028	DAY	Frankley Road-Bi	F4000439	TCC (Taranaki Combined Cycle)	TCC00201	N/A	365	6445.587539	\$ 2,352,639
FGL17029	GJ	Pokuru No 1	PKU02308	Whakatane	WHK32101	N/A	11,016	0.06	\$ 661
FGL17029	MDQ	Pokuru No 1	PKU02308	Whakatane	WHK32101	N/A	38,972	0.75	\$ 29,229
FGL17029	OR	Pokuru No 1	PKU02308	Whakatane	WHK32101	No Zone	113	12.876712	\$ 1,450
FGL17030	GJ	Pokuru No 1	PKU02308	Whakatane	WHK32101	N/A	926,475	0.06	\$ 55,588
FGL17030	MDQ	Pokuru No 1	PKU02308	Whakatane	WHK32101	N/A	1,182,596	0	\$ -
FGL17030	OR	Pokuru No 1	PKU02308	Whakatane	WHK32101	No Zone	368,338	12.876712	\$ 4,743
FGL17030	DAY	Pokuru No 1	PKU02308	Whakatane	WHK32101	N/A	365	3416.64789	\$ 1,247,076
FGL17031	GJ	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	N/A	467,951	0	\$ -
FGL17031	MDQ	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	N/A	584,000	153.04	\$ 244,864
FGL17031	OR	Rotowaro Receipt	RTW3203	Greater Auckland	GTA03610	No Zone	-	4.192877	\$ -
FGL17034	DAY	KGTP Receipt	KAP00114	KGTP Delivery	KAP00115	N/A	365	20.29	\$ 7,406
FGL17035	GJ	Te Kowhai Receipt	TEK28701	Tatunui DF	TAT16401	N/A	384,842	0.05	\$ 19,242
FGL17035	MDQ	Te Kowhai Receipt	TEK28701	Tatunui DF	TAT16401	N/A	584,000	350.000	\$ 560,000
FGL17035	OR	Te Kowhai Receipt	TEK28701	Tatunui DF	TAT16401	No Zone	-	9.589	\$ -
FGL17036	GJ	Rotowaro Receipt	RTW3203	Marsden 1	MSD01801	N/A	3,421,263	0.061	\$ 208,355
FGL17036	MDQ	Rotowaro Receipt	RTW3203	Marsden 1	MSD01801	N/A	5,285,800	511.161	\$ 7,402,450
FGL17036	OR	Rotowaro Receipt	RTW3203	Marsden 1	MSD01801	No Zone	-	14.110	\$ -
FGL17037	GJ	Pokuru No 1	PKU02308	Lichfield 2	LCF20011	N/A	372,661	0.050	\$ 18,633
FGL17037	MDQ	Pokuru No 1	PKU02308	Lichfield 2	LCF20011	N/A	1,423,500	350.000	\$ 1,365,000
FGL17037	OR	Pokuru No 1	PKU02308	Lichfield 2	LCF20011	No Zone	70	9.589	\$ 674
								Total	\$ 27,987,955

STP charges¹⁰

Pi2018, Qi2018

Sum	\$	2,222,111
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Quantity	Contract Name	Unit	Receipt Point Name	Receipt Point ID	Delivery Point	Delivery Point ID	Quantity	Price	Total
	Frankley Road to Kupe Production - STP	GJ	Frankley Road-Bi	F4000439	Kupe Delivery Point	KUP37503	2,396,743	0.28	\$ 671
	Frankley Road to Kaimiro - STP	GJ	Frankley Road-Bi	F4000439	Kaimiro Mixing Station Delivery	KAI07602	1,643,584.000	0.28	\$ 460,204
	Frankley Road to Kapuni GTP - STP	GJ	Frankley Road-Bi	F4000439	Kapuni GTP	KAP09612	5,945,134.736	0.28	\$ 1,664,638
	Kupe to Kapuni GTP - STP	GJ	Kupe Receipt Point	KUP37501	Kapuni GTP	KAP09612	20,000.000	0.28	\$ 5,600
	Kapuni to Frankley Road - STP	GJ	Kapuni GTP	KAP09612	Frankley Road-Bi	F4000439	324,993.000	0.28	\$ 90,998
								Total	\$ 2,222,111

¹⁰ Standard Through-put Charges (STP) are charges for inter-pipeline movement or any bi-directional point at which a pipeline interconnects with the Maui Pipeline.

Appendix 4: Incident data

Event date	Event time	Description	Location	Emergency (Y/N)	Consumers Interrupted	Event Cause	Response Time (HH:mm)
10/10/2017	11:00	PSV Failed and venting - Kaitoke	Kaitoke CS	NO	0	Equipment Failure	0:00
11/10/2017	13:26	Rimu Odorant check at Mokoia Tie In	Mokoia MS	NO	0	Equipment Failure	1:28
4/11/2017	8:07	Okalawa DP low temp alarm	Okalawa DP	NO	0	Equipment Failure	1:14
11/11/2017	13:23	Pokuru CS - Gas Detection Shutdown	Pokuru CS	NO	0	Equipment Failure	1:58
13/11/2017	23:02	Mahoenui CS ESD reset required	Mahoenui CS	NO	0	Equipment Failure	9:58
15/11/2017	11:21	Pokuru # 1 malfunctioned	Pokuru CS	NO	0	Equipment Failure	0:00
16/11/2017	15:54	Ashurst - reported smell of gas at 69 North Street	Ashurst DP	NO	0	Not an Event	0:51
17/11/2017	10:32	Replace broken 1/4" Tube to Hydraulic Actuator.	Rotowaro CS	NO	0	Equipment Failure	0:00
18/11/2017	4:00	Putaruru DP heater failure	Putaruru DP	NO	0	Equipment Failure	3:11
22/11/2017	20:31	Pokuru gas alarm	Pokuru CS	NO	0	Equipment Failure	1:50
8/12/2017	3:52	Mokau #1 compressor shut down	Mokau CS	NO	0	Equipment Failure	1:24
13/11/2017	17:00	Pokuru C/S - both units Malfunction	Pokuru CS	NO	0	Equipment Failure	0:53
22/12/2017	19:54	Paraparaumu - 100 Anlaby Road - Smell of gas reported	605 Loop Line	NO	0	Not an Event	1:08
26/12/2017	11:00	Pohokura PS shutdown	Tikorangl MS	NO	0	Third Party	1:00
30/12/2017	5:34	Westfield DP --- Public reported smell of gas	Westfield DP	NO	0	Not an Event	2:04
5/01/2018	10:13	Henderson CS loss of power trip	Henderson CS	NO	0	Equipment Failure	0:34
14/01/2018	2:20	Temple View DP Excessive noise	Temple View DP	NO	0	Equipment Failure	0:44
18/01/2018	10:05	PV08204 Leaking	Ammonia Urea DP	NO	0	Equipment Failure	0:35
29/01/2018	11:26	Paekakariki smell of gas reported	100 Pipeline	NO	0	Not an Event	1:04
30/01/2018	16:18	Pungarehu Smell of gas reported	Pungarehu No2 DP	NO	0	Not an Event	1:42
5/02/2018	0:33	Pokuru # 1 malfunction / Station comms failure	Pokuru CS	NO	0	Equipment Failure	1:54
19/02/2018	21:29	Mokau Compressor unit 1 trip	Mokau CS	NO	0	Equipment Failure	1:15
7/03/2018	8:00	Eltham DP Low gas temperature	Eltham DP	NO	0	Not an Event	1:55
14/03/2018	12:42	Henderson CS Tripped - requires restart	Henderson CS	NO	0	Third Party	1:57
16/03/2018	11:25	Takapau DP - Smell of Gas reported	Takapau DP	NO	0	Not an Event	1:50
20/03/2018	10:57	Inglewood DP - Noise	Inglewood DP	NO	0	System Quality	0:19
6/04/2018	7:48	Bruce McLaren DP - Smell of Gas	Bruce McLaren DP	NO	0	Not an Event	1:12
10/01/2018	9:29	Te Awamutu North Fonterra Gas Supply trip	Te Awamutu North DP	NO	1	Equipment Failure	0:47
10/04/2018	20:42	Henderson CS - Station Trip	Henderson CS	NO	1	Equipment Failure	0:18
11/04/2018	19:21	Te Awamutu Nth DP loss of supply	Te Awamutu North DP	NO	1	Equipment Failure	0:29
17/05/2018	8:08	Txcomcom Mokau Compressor / Station Unavailable	Mokau CS	NO	0	Third Party	1:20
22/05/2018	9:02	Te Rapa DP - public report of noise from site	Te Rapa DP	NO	0	Third Party	0:18
30/05/2018	12:40	Uncontrolled Gas Leak Oparure MLV	Oparure MLV	YES	0	Equipment Failure	0:00
7/06/2018	7:39	Henderson Station reported smell of gas	Henderson DP	NO	0	Not an Event	0:28
11/06/2018	11:46	Mokau Unit #1 Outage	Mokau CS	NO	0	Equipment Failure	0:14
12/06/2018	13:36	Mahoenui CS - ESD	Mahoenui CS	NO	0	Equipment Failure	0:00
21/06/2018	4:05	Pokuru - Compressors Malfunction	Pokuru CS	NO	0	Equipment Failure	1:14
23/06/2018	8:51	Waikaraka walkway reported smell of gas	430 Pipeline	NO	0	Not an Event	2:07
27/06/2018	2:46	Pyes Pa DP low temp alarm	Pyes Pa DP	NO	0	Equipment Failure	0:51
3/07/2018	7:51	Both Kaitoke Compressors failed to start	Kaitoke CS	NO	0	Equipment Failure	1:49
19/07/2018	15:31	Txcomcom Pohokura Wobbe excursion	Tikorangl MS	NO	0	Not an Event	0:00
25/07/2018	10:30	Patea DP safety relief valve lifted	Patea DP	NO	0	Equipment Failure	1:28
29/07/2018	16:59	Horoitu DP - Report of smell of gas	Horoitu DP	NO	0	Not an Event	0:46
30/07/2018	17:40	Kaipara Flats Offtake - Smell of Gas	Kaipara Flats OT	NO	0	Not an Event	1:25
24/08/2018	7:18	Smell of Gas - Papakura East Pressure Reducing Station	Papakura East PRS	NO	0	Not an Event	0:51
5/09/2018	22:45	Pohokura PS Trip	Tikorangl MS	NO	0	Not an Event	0:00
19/09/2018	7:11	Henderson - Loss of Compression	Henderson CS	NO	0	Equipment Failure	0:00
24/09/2018	9:13	Takapau area --- smell of gas reported	Takapau DP	NO	0	Not an Event	0:23

Appendix 5: Gas transmission emergency classification

Emergency incident: an incident that has a major effect on a gas pipeline asset, or its ability to supply gas, and may threaten public and/or building safety.

Transmission emergency incidents include but are not limited to:

- Potential or actual gas supply critical contingency
- Any structural damage to a transmission pipeline
- Off-specification gas, NZS 5442
- Significant chemical or odorant spill
- Serious property or asset damage or failure
- Missing persons
- Civil Defence emergency (includes natural disaster)
- Terrorism
- Incident affecting the use of airways, rail or major roadways
- Natural disaster including earthquakes, tsunami & volcanic eruption
- Forced Abandonment of the Control Room
- Uncontrolled escape of gas
- Unplanned supply interruption to multiple end users
- Under or over Odourisation, NZS 5263
- Potential or actual serious harm to personnel or public
- Major disease or pandemic
- Explosion or Fire
- Civil unrest
- Political attack
- Major storms, landslide or flood
- Major control or communications system failure
- Cyber attack

An overview of First Gas' incident and emergency response process is illustrated below and indicates when the emergency response plan under First Gas' Standard 3208293 is activated.

COMPLIANCE STATEMENT CERTIFICATE – GTB

We, Philippa Jane Dunphy and Euan Richard Krogh, being Directors of First Gas Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached Compliance Statement of First Gas Limited, and related information, prepared for the purposes of the *Gas Transmission Services Default Price-Quality Path Determination 2017* has been prepared in accordance with all the relevant requirements.



Director
Philippa Jane Dunphy

5 December 2018

Date



Director
Euan Richard Krogh

5 December 2018

Date



Independent Reasonable Assurance Report to the Directors of First Gas Limited ("the company") and to the New Zealand Commerce Commission

Conclusion

We have concluded that, in all material respects, the Compliance Statement of First Gas Limited for Gas Transmission Services Default Price-Quality Path compliance for the period commencing 1 October 2017 and ending 30 September 2018 ("the Compliance Statement") has been prepared in accordance with clause 11 of Gas Transmission Services Default Price-Quality Path Determination 2017 NZCC 14 ("the Determination").

As far as appears from examination, in all material respects, the information used in the preparation of the Compliance Statement for the year ended 30 September 2018 has been properly extracted from First Gas Limited's accounting and other records, sourced from its financial and non-financial systems.

Information subject to assurance

We have performed an engagement to provide reasonable assurance in relation to First Gas Limited's Compliance Statement for the assessment period commencing 1 October 2017 and ending 30 September 2018.

Criteria

Our engagement relates to the Compliance Statement prepared by First Gas Limited to provide reasonable assurance that the Gas Transmission Services Default Price-Quality Path is in compliance with clause 11 of the Determination during the assessment period 1 October 2017 to 30 September 2018.

Standards we followed

We conducted our reasonable assurance engagement in accordance with International Standard on Assurance Engagements (New Zealand) 3000 (Revised) *Assurance Engagements other than audits or reviews of historical financial information* and Standard on Assurance Engagements SAE 3100 *Compliance Engagements*. We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion. In accordance with those standards we have:

- used our professional judgement to assess the risk of material misstatement and plan and perform the engagement to obtain reasonable assurance that the Compliance Statement is free from material misstatement, whether due to fraud or error;
- considered relevant internal controls when designing our assurance procedures, however we do not express a conclusion on the effectiveness of these controls; and
- ensured that the engagement team possesses the appropriate knowledge, skills and professional competencies.

How to interpret reasonable assurance and material misstatement

Reasonable assurance is a high level of assurance, but is not a guarantee that it will always detect a material misstatement when it exists.

Misstatements, including omissions, within the Compliance Statement are considered material if, individually or in the aggregate, they could reasonably be expected to influence the relevant decisions of the intended users taken on the basis of the Compliance Statement.



Use of this assurance Report

Our report should not be regarded as suitable to be used or relied on by any parties other than First Gas Limited and the New Zealand Commerce Commission in relation to clause 11 of the Determination, for any purpose or in any context. Any party other than First Gas Limited or the New Zealand Commerce Commission who obtains access to our report or a copy thereof and chooses to rely on our report (or any part thereof) will do so at its own risk.

To the fullest extent permitted by law, we accept or assume no responsibility and deny any liability to any party other than First Gas Limited and the New Zealand Commerce Commission for our work, for this independent reasonable assurance report, or for the conclusions we have reached.

Our report is released to First Gas Limited and the New Zealand Commerce Commission on the basis that it shall not be copied, referred to or disclosed, in whole (save for First Gas Limited's own internal purposes) or in part, without our prior written consent.

First Gas Limited's responsibility for the Compliance Statement

First Gas Limited is responsible for the preparation and fair presentation of the Compliance Statement in accordance with clause 11 of the Determination. This responsibility includes such internal control as First Gas Limited determine is necessary to enable the preparation of the Compliance Statement that is free from material misstatement whether due to fraud or error.

Our responsibility

Our responsibility is to express a conclusion to the directors of the company and to the New Zealand Commerce Commission on the preparation and presentation of the Compliance Statement in accordance with clause 11 of the Determination.

Our independence and quality control

We have complied with the independence and other ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

The firm applies Professional and Ethical Standard 3 (Amended) and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Our firm has also provided audit and other assurance services to the company. Subject to certain restrictions, partners and employees of our firm may also deal with the company on normal terms within the ordinary course of trading activities of the business of the company. These matters have not impaired our independence as assurance providers of the company for this engagement. The firm has no other relationship with, or interest in, the company.

KPMG
Auckland

5 December 2018