PIPELINE CAPACITY DISCLOSURE

Relating to
Gas (Information Disclosure) Regulations 1997

Year Ending 30 June 2009

August 2009

1. INTRODUCTION

This document comprises the Pipeline Capacity Disclosure of Vector Gas Limited ("Vector") [formerly NGC New Zealand Limited] pursuant to the Gas (Information Disclosure) Regulations 1997 (the "Regulations"), Schedule 1, PART 5, for the year ending 30 June 2008.

As far as practicable main section headings mirror those of Schedule 1, PART 5 of the Regulations. For additional clarity the relevant clause number of Schedule 1 PART 5 is given alongside each main section heading, and some sub-section headings.

Inquiries in relation to this disclosure in particular and system capacity generally, should be directed to:

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Vector Gas Limited
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Newmarket
Auckland 1023

Ph. 09 978 7672
Email steve.mutton@vector.co.nz

Terminology

In this report terminology generally matches that in the Regulations. Some terms differ from those currently used in Vector's Transmission System Information Memorandum and transmission services agreements. For example:

Term in this Report:	Equivalent Vector Term:
Intake Point	Receipt Point
Offtake Point	Delivery Point
transmission system	pipeline (ie *part of* the "Transmission System")

Exclusions

This report covers the transmission pipeline systems specified in the Regulations. Some parts of Vector's Transmission System, specifically minor laterals off the Maui pipeline, are not covered. These include the Te Awamutu North lateral, the Te Kuiti South and the Te Kuiti North laterals.

Disclaimer

Except in the case of a pipeline with a single Intake Point supplying a single Offtake Point it is difficult to describe a pipeline's capacity in simple terms. Vector's pipelines serve multiple Offtake Points most of which are entirely independent of each other notwithstanding that they may supply similar loads, for example dairy factories, or be subject to similar influences, such as the weather.

In addition, since gas is a compressible fluid the quantity of energy stored within a pipeline ("line pack") may change significantly over time as pressures within the pipeline change. As a consequence the flow at a pipeline's Intake Point need not necessarily equate to the sum of the offtakes at any given time. This has a significant bearing on a pipeline's ability to supply the various Offtake Points.

It is the interaction of all the time-varying offtakes along its length that determines a pipeline's capacity to transport gas from the Intake Point to a given Offtake Point. Therefore capacity must generally be defined as the ability to transport gas from the Intake Point to a given Offtake Point *subject to* what is happening at other Offtake Points at the same time. Where there are multiple large Offtake Points a significant change at any one of them may materially affect the capacity available to the others.

Information contained in this report is presented in good faith in order to comply with the Regulations and to give an overview of the capacity of Vector's transmission systems.

However, shippers or potential shippers should not base their business decisions on the information contained in this report without consulting Vector.

Vector will accept no responsibility for the consequences of any misunderstanding, misinterpretation or misuse of information contained in this report.

While reasonable care has been taken in the preparation of this report, Vector takes no responsibility for the consequences of any errors that may be contained herein.

TABLE OF CONTENTS

2. TRANSMISSION SYSTEMS

(Ref. Schedule 1 Part 5, Clause 1)

The attached map and pipeline schematics (sheets 01 to 06) depict Vector's high-pressure gas transmission pipelines dealt with in this disclosure. They show all Intake and Offtake Points, other pipeline stations including compressor stations, pressure reductions stations and main line (ie line-break isolation) valves, pipe sizes and other information.

Distances between any two stations on the same pipeline can be calculated from the respective station numbers shown on the schematics, as follows:

> The last 4 digits of each station number give the distance in km (ie wxy.z km) of that station from the origin of the particular pipeline or lateral on which it is located.
>
> *Example 1:* Gisborne Sales Gate has the station number 5052013. This means that this station is on the 505 lateral, which starts at the Gisborne Offtake Station near Kawerau, and is 201.3 km downstream of that point.
>
> *Example 2:* The distance between the Southdown and Henderson Delivery Points (on the North System) is found by subtracting the upstream station number from the downstream, ie:
>
> | | | |
> |---|---|---|
> | Henderson station number | = | 4300355 |
> | Southdown station number | = | 4300015 |
> | | | |
> | Distance between these points | = | 34.0 km |

Tables 2.7.1, 2.7.2 and 2.7.3 show the station number, location and map grid reference of each Intake and Offtake Point.

Clause 23 (4) of the Regulations requires Vector to treat the following four transmission pipelines as separate transmission systems:

- North (ie north of Rotowaro)
- Central (ie Kapuni to Rotowaro including the Morrinsville sub-system)
- Bay of Plenty (ie east of Pokuru)
- South (ie south of Kapuni)

The Central System is currently divided into two sections, the Central (North) and Central (South). There is an interconnection between the Central (South) System and the Bay of Plenty System at Pokuru (No.2).

This report also includes the Frankley Rd to Kapuni transmission pipeline.

Therefore the transmission pipelines presented in this disclosure are:

- **North:** extending from the end of the Maui pipeline at Rotowaro (near Huntly) to Auckland, then through to Kauri north of Whangarei;

- **Central (North):** extending from Rotowaro to Hamilton (Temple View) and including the Morrinsville sub-system;

- **Central (South):** extending from the Kapuni Gas Treatment Plant to the interconnection to the Bay of Plenty System at Pokuru ("Pokuru No.2 Offtake");

- **Bay of Plenty:** extending east from Pokuru (near Te Awamutu) on the Maui line to Tauranga, Taupo and Gisborne, etc;

- **South:** extending south from the Kapuni Gas Treatment Plant to Wellington and Hastings;

- **Frankley Rd to Kapuni:** extending from the Frankley Rd Offtake Station on the Maui pipeline near New Plymouth to the Kapuni Gas Treatment Plant, including laterals to the TCC Power Station and the Ammonia-Urea Plant.

For convenience a certain amount of information has been extracted from the attached schematics and presented in the following tables. Note that "MAOP" means the maximum allowable operating pressure of the pipeline.

Table 2.1 North System

The pipeline consists of the following main sections (ie excluding minor laterals):

Pipeline Segment	Nominal Bore (mm)	Length (km)	MAOP (bar g)
Rotowaro - Papakura East Pressure Reducing Station	350	60.8	86
Papakura East Pressure Reducing Station - Westfield	350	26.7	66
Rotowaro - Papakura West	200	60.8	86
Ingram Rd - Glenbrook	150	23.0	86
Westfield - Henderson	200	35.5	66
Henderson - Whangarei Offtake	150	145.4	86
Whangarei - Kauri	100	21.5	86

Table 2.2 Central (North) System

This pipeline consists of the following main sections

Pipeline Segment	Nominal Bore (mm)	Length (km)	MAOP (bar g)
Rotowaro - Te Kowhai	200	25.8	86
Te Kowhai - Te Rapa Offtake	150	6.3	86
Te Rapa lateral	200	1.3	86
Te Rapa Offtake - Horotiu East	150	1.0	86
Horotiu East - Kuranui Rd	100	24.8	86
Kuranui Rd - Cambridge	80	22.7	86
Kuranui Rd - Morrinsville	150	8.5	86
Morrinsville - Waitoa	100	9.4	86
Te Kowhai – Temple View	200	9.7	86

Table 2.3 Central (South) System

This pipeline consists of the following main sections

Pipeline Segment	Nominal Bore (mm)	Length (km)	MAOP (bar g)
Kapuni - New Plymouth Offtake	200	52.9	86
New Plymouth lateral	100	10.5	86
New Plymouth - Mahoenui Compressor.	200	81.7	86
Mahoenui Compressor. – Pokuru No.2 Offtake	200	84.0	86
Pokuru No.2 Offtake – Temple View	200	24.5	86

Table 2.4 Bay of Plenty System

This pipeline consists of the following main sections.

Pipeline Segment *	Nominal Bore (mm)	Length (km)	MAOP (bar g)
Pokuru - Kinleith	300	78.8	86
Kinleith - Kawerau	200	103.1	86
Kawerau - Whakatane	100	13.7	86
Kawerau - Gisborne	100/200	184/17.3	86
Lichfield - Mt Maunganui Offtake	150/100	34.3/43.7	86
Taupo lateral	100/150	18.2/20.7	86
Rotorua lateral	80	18	86

* Two offtake points were added to the system, Broadlands and Pyes Pa

Table 2.5 South System

This pipeline consists of the following main sections. This system is extensively looped. Loops are tabulated separately.

Pipeline Segment	Nominal Bore (mm)	Length (km)	MAOP (bar g)
Kapuni GTP – Hawera	200	17.8	86
Hawera – Wanganui	200	79.9	86
Wanganui – Himatangi	200	51.4	86
Himatangi - Palmerston North O/T	150/80	23.8/23.8	86
Palmerston North – Hastings	150/200	5.8/123.5	86
Himatangi – Wellington	200	104.1	86

The looped sections of the system are:

Pipeline Segment	Nominal Bore (mm)	Length (km)	MAOP (bar g)
Hawera – Kaitoke Compressor	300	87.3	86
Otaki Tie-In – Belmont	300	55.7	86

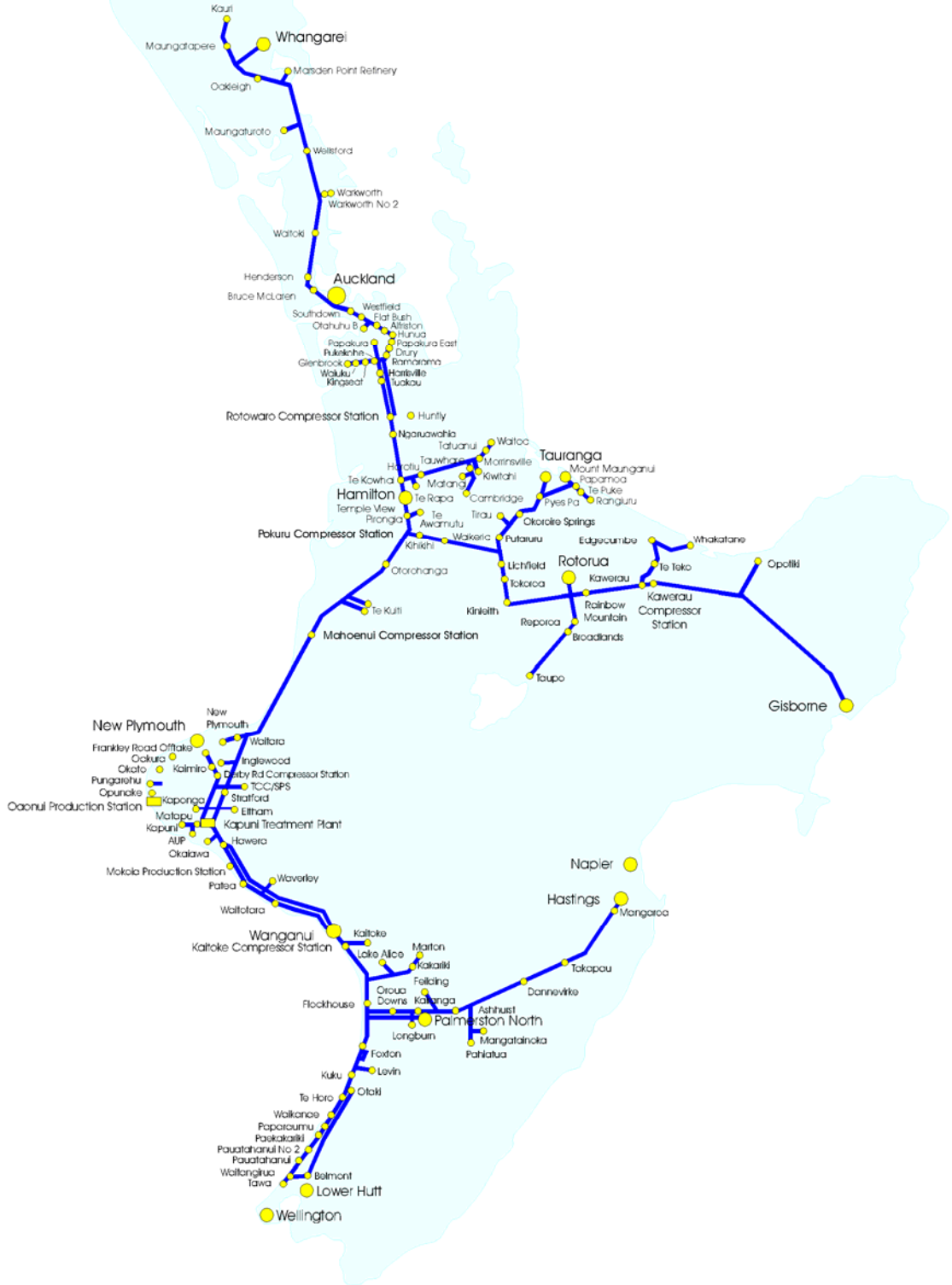
Table 2.6 Frankley Rd to Kapuni System

This pipeline consists of the following main sections.

Pipeline Segment	Nominal Bore (mm)	Length (km)	MAOP (bar g)
Frankley Rd - Derby Rd Compressor	500	22.3	66
Derby Rd – Pembroke Rd	500	5.5	66
Pembroke Rd – TCC Power Station	500	8.6	66
Pembroke Rd – Kapuni GTP	500	18.8	66
Kapuni – Ammonia Urea Offtake	100	0.4	86
Ammonia Urea Offtake - Lactose	100/200	1.8/1.3	86

Vector

Transmission Pipelines



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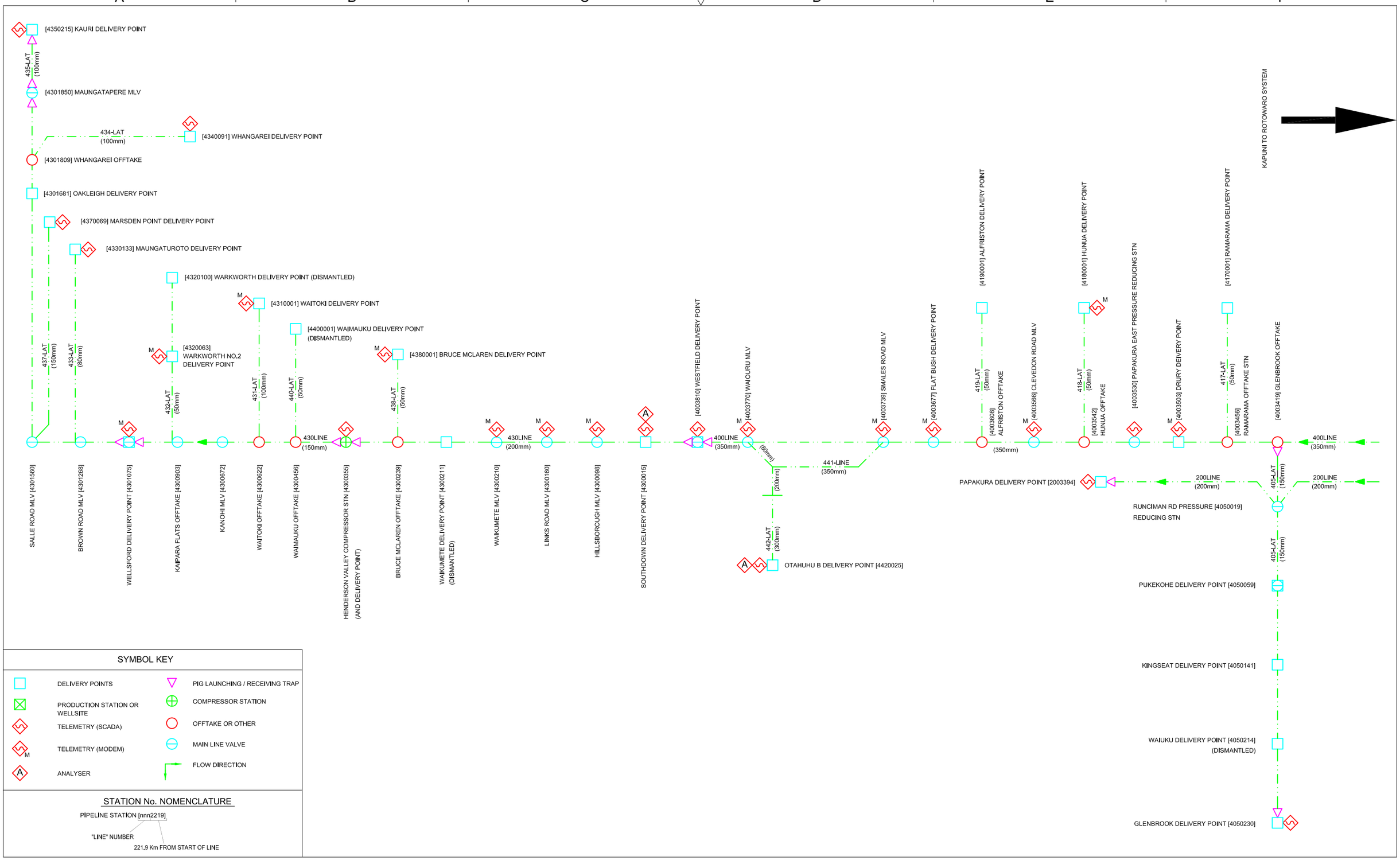
August 2008



SYMBOL KEY

- DELIVERY POINTS
- PRODUCTION STATION OR WELLSITE
- TELEMETRY (SCADA)
- TELEMETRY (MODEM)
- ANALYSER
- PIG LAUNCHING / RECEIVING TRAP
- COMPRESSOR STATION
- OFFTAKE OR OTHER
- MAIN LINE VALVE
- FLOW DIRECTION

STATION No. NOMENCLATURE

PIPELINE STATION [nnn2219]

"LINE" NUMBER

221.9 Km FROM START OF LINE

REV	AMENDMENT	DRAWN	CHKD	ENG	APPR	DATE
13	GENERAL REVISION	SKM	AJW	*	DI	08/2009
12	GENERAL REVISION	SKM	AJW	HD	DI	12/2007
11	WARKWORTH NO.2 DP ADDED	SKM	AJW	DT	DI	10/2007
10	MAUNGATAPERE DELIVERY POINT RENAMED	RH	SKM		PJR	10/2006
9	REVISED FOR VECTOR RE-BRANDING	SKM	AJW		SFI	08/2006
8	430 LINE SIZE CORRECTED	AJW	SKM	RD'A	SFI	02/2004
7	OTAHUHU A DELIVERY POINT REMOVED	SKH				09/2000
6	WAITOKI LATERAL ADDED	SKH				09/99
5	MURPHY'S RD RENAMED TO FLAT BUSH	SKH				09/99
4	STATION NAMES & NUMBERS CHANGED	SKH				02/99
3	OTARA LATERAL ADDED	SKH				09/98

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ACTUAL DRAWING SIZE : A1 FRAME A1-ENGFR

REFERENCE DRAWINGS

	BY	DATE
DRAWN	KCT	
CHECKED		
ENGINEER		
APPROVED		

DISCLOSURE REGULATIONS

GENERAL

PIPELINE SCHEMATIC - NORTH SYSTEM 200, 400, 430 LINES

SCALES:	JOB NO.	SERIES	DRG NO.	SHT	REV
NTS DO NOT SCALE OFF DRG	DIS-REG	0000	001	01 OF 06 SHTS	13

SYMBOL KEY

- DELIVERY POINTS
- PRODUCTION STATION OR WELLSITE
- TELEMETRY (SCADA)
- TELEMETRY (MODEM) (M)
- ANALYSER (A)
- PIG LAUNCHING / RECEIVING TRAP
- COMPRESSOR STATION
- OFFTAKE OR OTHER
- MAIN LINE VALVE
- FLOW DIRECTION

STATION No. NOMENCLATURE

PIPELINE STATION [nnn2219]
- "LINE" NUMBER
- 221.9 Km FROM START OF LINE

NOTES:-

1. 423-LAT IS A NETWORKS PIPELINE

REV	AMENDMENT	DRAWN	CHKD	ENG	APPR	DATE
10	GENERAL REVISION	SKM	AJW	*	DI	08/2009
9	GENERAL REVISION	SKM	AJW	HD	DI	12/2007
8	MODEM ADDED TO WAITARA DP	SKM	AJW	DT	DI	10/2007
7	REVISED FOR VECTOR RE-BRANDING	SKM	AJW	·	SFI	08/2006
6	FLOW DIRECTIONS CORRECTED	AJW	SKM	·	·	08/2005
5	STATION NAMES CORRECTED	AJW	SKM	RD'A	SFI	02/2004
4	TE RAPA SCADA REFERENCE ADDED	SKM	AJW	JKG	OFM	11/2003
3	POKURU No. 2 OFFTAKE ADDED	SKH				09/2000
2	STATION NAMES & NUMBERS CHANGED	SKH				02/99
1	TELEMETRY MODEM SITES INDICATED	SKH				09/98
A	ISSUED FOR APPROVAL	KCT	*	*	*	07/06/96

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ENGINEER		
APPROVED		

DISCLOSURE REGULATIONS

GENERAL

PIPELINE SCHEMATIC - KAPUNI TO ROTOWARO/MORRINSVILLE SYSTEM

SCALES:	JOB NO.	SERIES	DRG NO.	SHT	REV
NTS DO NOT SCALE OFF DRG	DIS-REG	0000	001	02 OF 06 SHTS	10

SYMBOL KEY

- DELIVERY POINTS
- PRODUCTION STATION OR WELLSITE
- TELEMETRY (SCADA)
- TELEMETRY (MODEM)
- ANALYSER
- PIG LAUNCHING / RECEIVING TRAP
- COMPRESSOR STATION
- OFFTAKE OR OTHER
- MAIN LINE VALVE
- FLOW DIRECTION

STATION No. NOMENCLATURE

PIPELINE STATION [nnn2219]

"LINE" NUMBER

221.9 Km FROM START OF LINE

SOUTH SYSTEM (SHEET 2)

NORTH SYSTEM (SHEET 2)

200LINE (200mm)

[2000390] KAIMATA TIE-IN STATION

TARIKI No.1 MLV [2000304]

204-LAT (100mm) ABANDONED N2 FILLED @ 1.3 BAR

MIDHIRST OFFTAKE [2000228]

STRATFORD DELIVERY POINT [2000192]

206-LAT (80mm)

[2060076] ELTHAM DELIVERY POINT

300LINE FROM FRANKLEY RD OFFTAKE (500mm)

ELTHAM-KAPONGA No.1 OFFTAKE [2000072]

KAPUNI COMPRESSOR STATION [1000000]

KAPUNI GTP OUTLET METER STATION [1000001]

100LINE (200mm)

OKAIAWA OFFTAKE [1000062]

MATAPU DELIVERY POINT [1000013]

MOKOIA MIXING STATION [6060088]

MOKOIA MIXING STATION [1000266]

606LINE (300mm)

603LINE (300mm)

102-LAT (50mm) ABANDONED

[1030058] WAVERLEY DELIVERY POINT

103-LAT (50mm)

604LINE (300mm)

602LINE (300mm)

602LINE (300mm)

MARTON DELIVERY POINT [1040212]

KAKARIKI DELIVERY POINT [1150001]

115-LAT (50mm)

KAKARIKI OFFTAKE [1040199]

LAKE ALICE DELIVERY POINT [1060013]

106-LAT (50mm)

LAKE ALICE OFFTAKE [1040131]

KAITOKE NO.2 DELIVERY POINT [1050039]

105-LAT (50mm)

104-LAT (100mm)

100LINE (200mm)

100LINE (200mm)

100LINE (200mm)

201-LAT (80mm)

[2010041] INGLEWOOD DELIVERY POINT

207-LAT (60mm)

300LINE (500mm)

REF.DRG. DIS-REG-0000-001-05

ELTHAM RD-KAPONGA No.2 OFFTAKE [3000062]

[2070053] KAPONGA DELIVERY POINT

101-LAT (50mm)

[1010016] OKAIAWA DELIVERY POINT

HAWERA DELIVERY POINT [1000178] (HAWERA MLV) 6060000

MOKOIA MIXING STATION [1000266]

PATEA DELIVERY POINT [1000422]

PATEA MLV [1000442] 6060263

PATEA OFFTAKE [1000453]

PATEA MLV SOUTH [1000455]

WAVERLEY OFFTAKE [1000619]

6030251 WAITOTARA DELIVERY POINT [1000692]

MOSSTON ROAD MLV [1000954] 6040269

WANGANUI DELIVERY POINT [1000977]

KAITOKE OFFTAKE [1001050]

6020099 KAITOKE COMPRESSOR STATION [1001051]

TURAKINA MLV [1001159]

RAUMAI ROAD SCRAPER STATION [1001315]

FLOCKHOUSE DELIVERY POINT [1001420]

REV	AMENDMENT	DRAWN	CHKD	ENG	APPR	DATE
9	GENERAL REVISION	SKM	AJW	*	DI	08/2009
8	GENERAL REVISION	SKM	AJW	HD	DI	12/2007
7	MODEMS ADDED	SKM	AJW	DT	DI	10/2007
6	REVISED FOR VECTOR RE-BRANDING	SKM	AJW	·	SFI	08/2006
5	INGLEWOOD O/T CHANGED TO KAIMATA T/I	AJW	SKM	·	·	08/2005
4	MOKOIA MIXING STATION ADDED	AJW	SKM	RD'A	SFI	02/2004
3	NOTES ADDED	SKH				09/2000
2	STATION NAMES UPDATED	SKH				02/99
1	TELEMETRY MODEM SITES INDICATED	SKH				09/98
A	ISSUED FOR APPROVAL	KCT	·		·	07/06/96

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REFERENCE DRAWINGS

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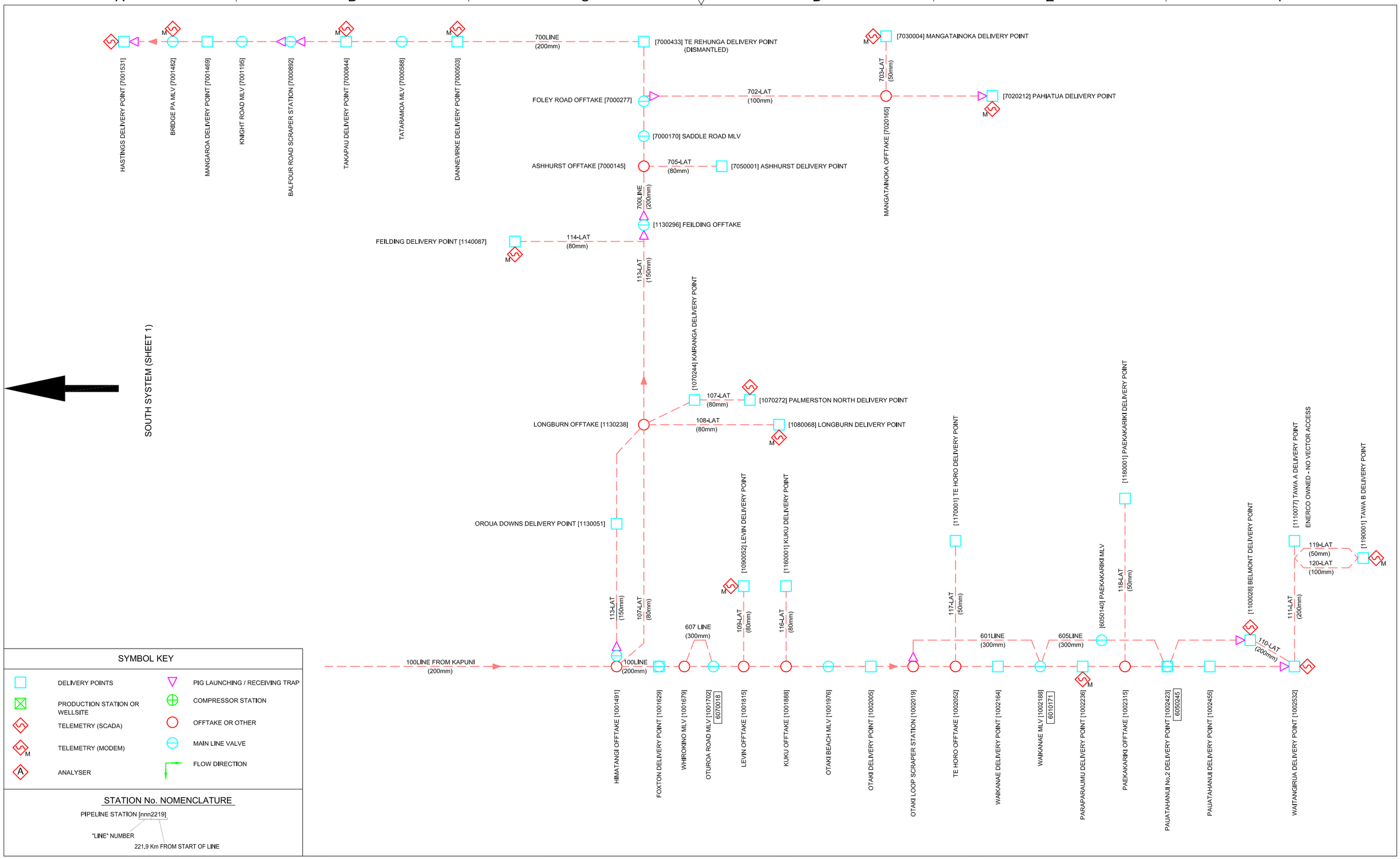
DRAWN	KCT	
CHECKED		
ENGINEER		
APPROVED		

DISCLOSURE REGULATIONS

GENERAL

PIPELINE SCHEMATIC - SOUTH SYSTEM (SHEET 1)

SCALES:	JOB NO.	SERIES	DRG NO.	SHT	REV
NTS DO NOT SCALE OFF DRG	DIS-REG	0000	001	03 OF 06 SHTS	9



SYMBOL KEY

- DELIVERY POINTS
- PRODUCTION STATION OR WELLSITE
- TELEMETRY (SCADA)
- TELEMETRY (MODEM)
- ANALYSER
- PIG LAUNCHING / RECEIVING TRAP
- COMPRESSOR STATION
- OFFTAKE OR OTHER
- MAIN LINE VALVE
- FLOW DIRECTION

STATION No. NOMENCLATURE

PIPELINE STATION [nnn2219]

"LINE" NUMBER

221,9 Km FROM START OF LINE

REV	AMENDMENT	DRAWN	CHKD	ENG	APPR	DATE
8	GENERAL REVISION	SKM	AJW	*	DI	08/2009
7	GENERAL REVISION	SKM	AJW	HD	DI	12/2007
6	REVISED FOR VECTOR RE-BRANGING	SKM	AJW		SFI	08/2006
5	120 LATERAL ADDED TO TAWA B	SKM	AW		BS	01/2003
4	STATION NAMES UPDATED	SKH				09/2000
3	STATION NAMES UPDATED	SKH				02/99
2	TELEMETRY MODEM SITES INDICATED	SKH				09/98
1	WHITBY BLIND TAP REMOVED, TAWA B SALES	SKH	·		·	01/98
	GATE ADDED					
A	ISSUED FOR APPROVAL	KCT	·		·	07/06/96

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DISCLOSURE REGULATIONS

GENERAL

PIPELINE SCHEMATIC - SOUTH SYSTEM (SHEET 2)

SCALES:	JOB NO.	SERIES	DRG NO.	SHT 04 OF 06 SHTS	REV
NTS DO NOT SCALE OFF DRG	DIS-REG	0000	001		8

SYMBOL KEY

- DELIVERY POINTS
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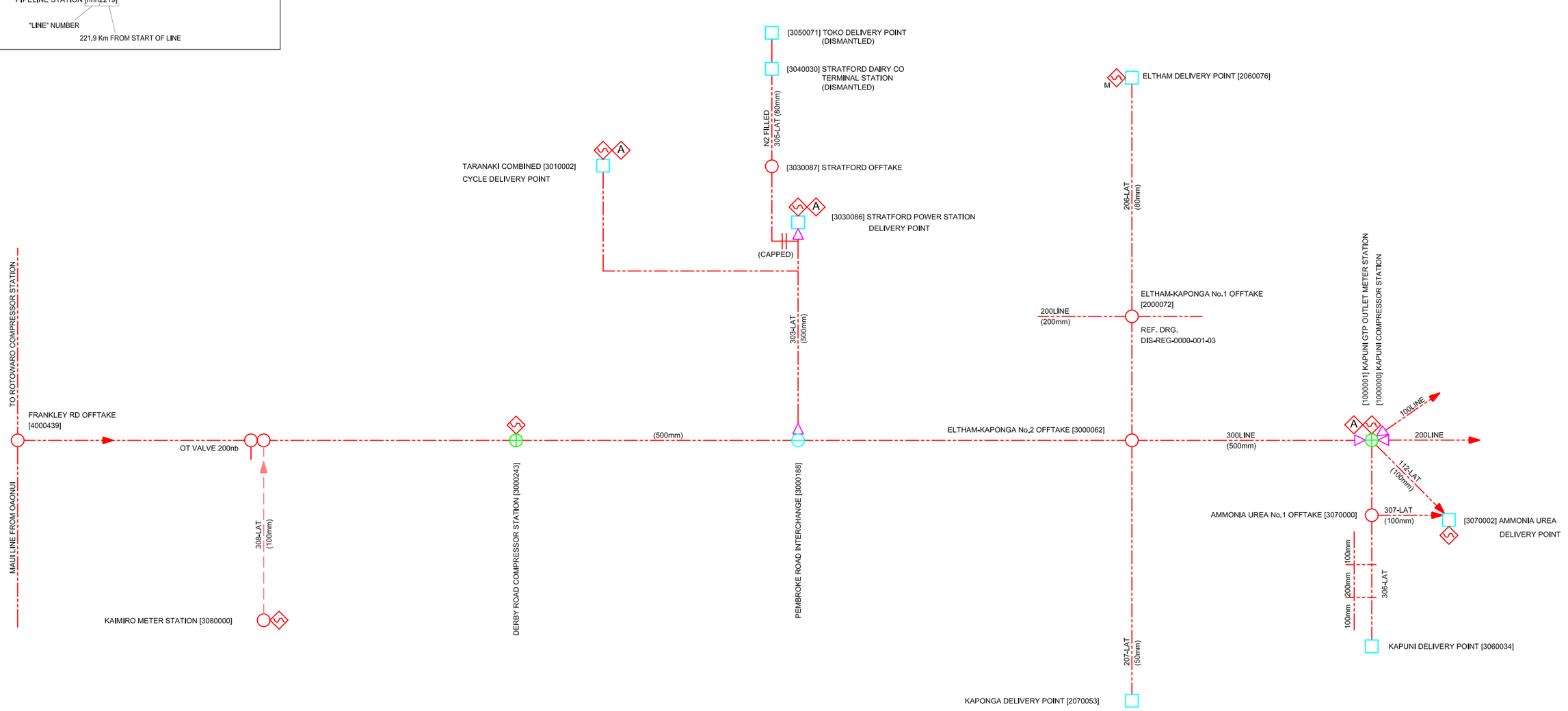
- FLOW DIRECTION

STATION No. NOMENCLATURE

PIPELINE STATION [nnn2219]

"LINE" NUMBER

221.9 Km FROM START OF LINE



REV	AMENDMENT	DRAWN	CHKD	ENG	APPR	DATE
7	GENERAL REVISION	SKM	AJW	*	DI	08/2009
6	GENERAL REVISION	SKM	AJW	HD	DI	12/2007
5	REVISED FOR VECTOR RE-BRANDING	SKM	AJW	*	SFI	08/2006
4	KAPUNI COMPRESSOR STATION ADDED	AJW	SKM	RD'A	SFI	02/2004
3	FRANKLEY RD OFFTAKE ADDED	SKH				09/2000
2	STATION NAMES & NUMBERS CHANGED	SKH				02/99
1	TCC ADDED	SKH				09/98
A	ISSUED FOR APPROVAL	KCT	·		·	07/06/95

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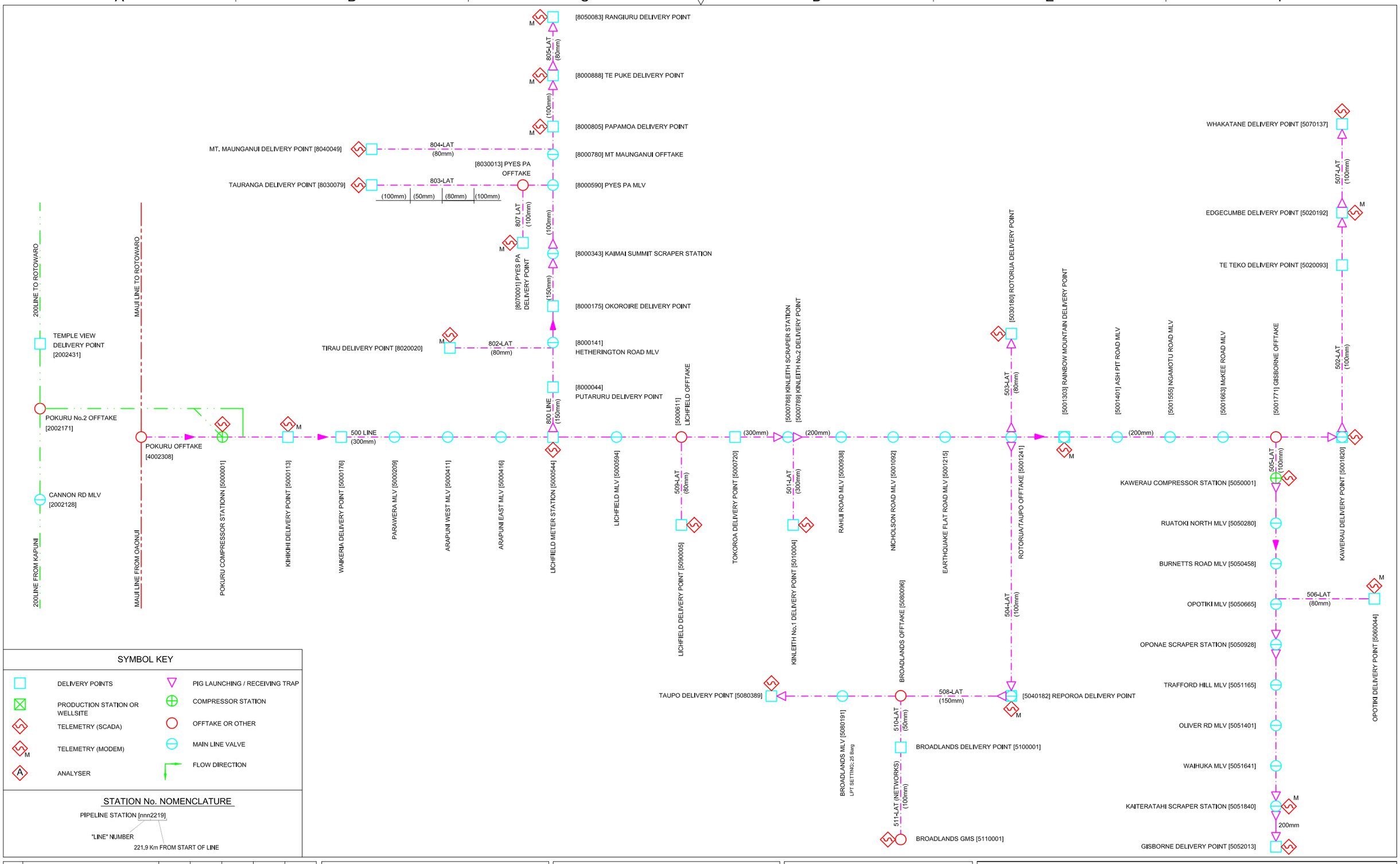
DISCLOSURE REGULATIONS

GENERAL

PIPELINE SCHEMATIC - FRANKLEY ROAD TO KAPUNI

SCALES:	JOB NO.	SERIES	DRG NO.	SHT	REV
NTS DO NOT SCALE OFF DRG	DIS-REG	0000	001	05 OF 06 SHTS	7



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- ANALYSER
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- COMPRESSOR STATION
- OFFTAKE OR OTHER
- MAIN LINE VALVE
- FLOW DIRECTION

STATION No. NOMENCLATURE

PIPELINE STATION [nnn2219]

"LINE" NUMBER

221.9 Km FROM START OF LINE

REV	AMENDMENT	DRAWN	CHKD	ENG	APPR	DATE
8	GENERAL REVISION	SKM	AJW	*	DI	08/2009
7	GENERAL REVISION	SKM	AJW	HD	DI	12/2007
6	REVISED FROM SITE MARK-UP W/O 990204	SKM	AJW	DT	PJR	05/2007
5	REVISED FOR VECTOR RE-BRANDING	SKM	AJW		SFI	08/2006
4	BROADLANDS OFFTAKE, DP & GMS ADDED	AJW	SKM		-	08/2005
3	200 LINE TIE-IN ADDED	SKH				09/2000
2	STATION NAMES CHANGED	SKH				02/99
1	TELEMETRY MODEM SITES INDICATED	SKH				09/98
A	ISSUED FOR APPROVAL	KCT	*	*	*	/ /

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PRIVATE BAG 2020
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REFERENCE DRAWINGS

	BY	DATE
DRAWN	KCT	
CHECKED		
ENGINEER		
APPROVED		

DISCLOSURE REGULATIONS

GENERAL
PIPELINE SCHEMATIC - BAY OF PLENTY SYSTEM

SCALES:	JOB NO.	SERIES	DRG NO.	SHT	REV
NTS DO NOT SCALE OFF DRG	DIS-REG	0000	001	06 OF 06 SHTS	8

3. INTAKE POINTS (Ref. Schedule 1 Part 5, Clause3)

In the year ending 30 June 2009 the Intake Points for Vector's transmission pipelines were as follows:

North System

There was only a single Intake Point, at Rotowaro. All gas entering the North System there was received from the Maui Pipeline.

South System

There were two major Intake Points for the South System, namely the Kapuni Gas Treatment Plant and the Mokoia Mixing Station, south of Hawera.

Central System

Rotowaro was the sole Intake Point for the Central (North) System.

The sole Intake Point for the Central (South) System was at the Kapuni Gas Treatment Plant.

Bay of Plenty System

Gas entered the Bay of Plenty System either through the Pokuru No.1 Intake Point (from the Maui pipeline) or the Pokuru No.2 Intake Point (from the Central (South) System).

The Pokuru No.1 and Pokuru No.2 Intake Points are located within a hundred metres or so of each other, adjacent to the Pokuru compressor station.

Frankley Rd System

Frankley Rd is both an Intake Point and an Offtake Point as Frankley Rd has “bi-directional” two-way flow metering.

In practise however, the great bulk of the gas which entered the Frankley Rd System did so via the Intake Point from the Maui pipeline at Frankley Rd.

The TAW Intake Point did not flow gas this year.

Therefore the Frankley Rd Intake Point was treated as the sole Intake Point for the Frankley Rd System.

4. OFFTAKE POINTS (Ref. Schedule 1 Part 5, Clause 4)

Tables 4.1 to 4.6, respectively, give the following information for each pipeline:

- Date of the system peak week
- The throughput of each Offtake Point in the system peak week
- For each Offtake Point with a throughput in the system peak week greater than 2,000 GJ, the dates of the Offtake Point's peak week
- For each Offtake Point with a throughput in the system peak week greater than 2,000 GJ, the Offtake Point's peak week throughput
- The average throughput in the system peak week of all Offtake Points with a throughput in the system peak week less than 2,000 GJ
- Total system throughput in the system peak week
- The theoretical numerical factor (ie multiplier) by which the throughput of each Offtake Point with a throughput in the system peak week greater than 2,000 GJ could have been increased, assuming:
    - the same load profile at each Offtake Point; and
    - no capital expenditure (ie no system expansion); and
    - no change in throughput at other Offtake Points
- The *increase* in weekly throughput after applying the above factor. (NB: If the factor is "x" the *increase* is (x-1) × weekly throughput.)

TABLE 2.7.1 LOCATION OF INTAKE AND OFFTAKE POINTS

Ref. Schedule 1 Part 5, Clause 1 (1)

SYSTEM	INTAKE POINT	OFFTAKE POINT	STATION NUMBER	LOCATION		NZMS 260 GRID REFERENCE
North	Rotowaro		4002907	Waikokowai Rd	Huntly	S13 928027
		Alfriston	4190001	Phillip Rd	Manukau City	R11 842626
		Bruce McLaren	4300239	Bruce McLaren Rd	Glen Eden	R11 548763
		Drury 1 & 2	4003496	Waihoehoe Rd	Drury	R12 848533
		Flat Bush	4003677	171 Murphy's Rd	Flat Bush	R11 815670
		Glenbrook	4050230	Mission Bush Rd	Glenbrook	R12 642422
		Harrisville	2003197	Harrisville Rd	Harrisville	R12 838385
		Henderson	4300356	110 Amriens Rd	Taupaki	Q11 487837
		Hunua	4180001	Parker St	Papakura	R12 848570
		Kauri	4350215	SH 1 (near Vinegar Hill Rd)	Kauri	Q06 283174
		Kingseat	4050141	Kingseat Rd	Patumahoe	R12 717453
		Marsden 1	4370069	Mair Rd	Marsden Point	Q07 459943
		Marsden 2	4370069	Mair Rd	Marsden Point	Q07 459943
		Maungaturoto DF	4330133	SH 12	Maungaturoto	Q08 343654
		Oakleigh	4301681	Whittle Rd	Oakleigh	Q07 316927
		Otahuhu B	4420025	Hellabys Rd	Otara	R11 762708
		Papakura	2003394	Hingaia Rd	Papakura	R12 817570
		Pukekohe	4050059	Butcher Rd	Pukekohe	R12 790452
		Ramarama	4170001	Ararimu Rd	Ramarama	R12 850489
		Southdown	4300015	Hugo Johnston Drive	Penrose	R11 731732
		Tuakau	2003168	Bollard Rd	Tuakau	R12 839356
		Waitoki	4310001	Kaihikatea Flat Rd	Rodney	Q10 468064
		Waiuku	4050214	Glenbrook Rd	Glenbrook	R12 658422
		Warkworth	4320100	Woodcocks Rd	Warkworth	R09 585313
		Wellsford	4301075	Farmers Lime Rd	Wellsford	Q09 495466
		Westfield	4003781	Mt Wellington Highway	Westfield	R11 744738
		Whangarei	4340091	Dyer St	Whangarei	Q07 294040
Central (North)	Rotowaro		4002907	Waikokowai Rd	Huntly	S13 928027
		Cambridge	4070227	Bruntwood Rd	Cambridge	S15 269689
		Hamilton (Te Kowhai)	2080001	Limmer Rd	Hamilton	S14 008817
		Hamilton (Temple View)	2002431	Foster Rd	Temple View	S14 049733
		Horotiu	4020071	Horotiu Bridge Rd	Te Rapa	S14 048869
		Kiwitahi	4090014	Morrinsville - Walton Rd	Morrinsville	T14 348887
		Matangi	4080039	Tauwhare Rd	Matangi	S14 213747
		Morrinsville	4020406	Railway Yards	Morrinsville	T14 340907
		Morrinsville DF	4020406	Railway Yards	Morrinsville	T14 340907
		Tatuanui	4020470	SH 26	Tatuanui	T14 391942
		Tauwhare	4070131	Tauwhare Rd	Tauwhare	S14 237773
		Te Rapa	4100022	SH 1	Te Rapa	S14 054852
		Te Rapa Cogeneration	4100022	SH 1	Te Rapa	S14 054852
		Waitoa	4020500	Wood Rd	Waitoa	T14 422943
Central (South)	Kapuni		1000001	Palmer Rd	Kapuni	Q20 110918
		Eltham	2060076	North St	Eltham	Q20 213964
		Kaponga	2070059	Manaia Rd	Kaponga	P20 089976
		Inglewood	2010041	Tarata Rd	Inglewood	Q19 153267
		New Plymouth	2030105	195a Connett Rd	New Plymouth	Q19 111409
		Stratford	2000192	Pembroke Rd	Stratford	Q20 157083
		Waitara	2030046	Waitara Rd	Waitara	Q19 168402

TABLE 2.7.2 LOCATION OF INTAKE AND OFFTAKE POINTS

Ref. Schedule 1 Part 5, Clause 1 (1)

SYSTEM	INTAKE POINT	OFFTAKE POINT	STATION NUMBER	LOCATION		NZMS 260 GRID REFERENCE
Bay of Plenty	Pokuru		4002308	Candy Rd	Te Awamutu	S15 040487
		Broadlands	5100001	Broadlands Rd	Reparoa	U17 003944
		Edgecumbe	5020192	Awakeri Rd	Edgecumbe	V15 470509
		Edgecumbe DF	5020192	Awakeri Rd	Edgecumbe	V15 470509
		Gisborne	5052013	Back Ormond Rd	Gisborne	Y18 442740
		Kawerau	5001820	East Bank Rd	Kawerau	V15 361407
		Kawerau (Caxton mill)	5001820	East Bank Rd	Kawerau	V15 361407
		Kawerau (Tasman mill)	5001820	East Bank Rd	Kawerau	V15 361407
		Kihikihi (Te Awamutu)	5000113	Brill Rd, Kihikihi	Te Awamutu	S15 148481
		Kinleith	5010004	Off Old Taupo Rd	Kinleith	T16 617218
		Kinleith (mill)	5000789	Off Old Taupo Rd	Kinleith	T16 617218
		Lichfield DF	5090005	SH 1	Lichfield	T16 572370
		Mt Maunganui	8040049	Truman Rd	Mt Maunganui	U14 951854
		Okoroire Springs	8000175	Somerville Rd	Okoroire	T15 568568
		Opotiki	5060044	Factory Rd	Opotiki	W15 848440
		Papamoa	8000805	SH 2	Te Puke	U14 997818
		Pyes Pa	8070001	Lakes boulevard	Pyes Pa, Tauranga	U14 842 802
		Putaruru	8000044	SH 1	Putaruru	T15 549458
		Rainbow Mountain	5001303	Okaro Rd	Rotomahana	U16 068167
		Rangiuru	8050083	SH 2	Te Puke	U14 083734
		Reporoa	5040182	SH 5	Parekarangi	U17 995034
		Rotorua	5030180	SH 5	Rotorua	U16 948308
		Taupo	5080389	269 Rakaunui Rd	Taupo	U18 812776
		Tauranga	8030079	Birch Av	Tauranga	U14 872843
		Te Puke	8000888	Washer Rd	Te Puke	U14 023571
		Te Teko	5020093	Matahina Rd	Te Teko	V15 432442
		Tirau	8020020	Okoroire Rd	Tirau	T15 529549
		Tirau DF	8020020	Okoroire Rd	Tirau	T15 529549
		Tokoroa	5000720	Baird Rd	Tokoroa	T16 583270
		Waikeria	5000176	Higham Rd	Kihikihi	S15 205474
		Whakatane	5070137	Mill Rd	Whakatane	W15 580533
Frankley Rd to Kapuni	Frankley Rd		4000439	Frankley Rd	New Plymouth	P19 012304
		Ammonia-Urea Plant	3070000	Palmer Rd	Kapuni	Q20 107915
		Kapuni (Lactose plant)	3060034	Manaia Rd	Kapuni	P20 079915
		Kapuni Gas Treatment Plant	1000001	Palmer Rd	Kapuni	Q20 110918
		TCC Power Station	3010002	189 East Rd	Stratford	Q20 237074

TABLE 2.7.3 LOCATION OF INTAKE AND OFFTAKE POINTS

Ref. Schedule 1 Part 5, Clause 1 (1)

SYSTEM	INTAKE POINT	OFFTAKE POINT	STATION NUMBER	LOCATION		NZMS 260 GRID REFERENCE
South	Kapuni		1000001	Palmer Rd	Kapuni	Q20 110918
		Ashhurst	7050001	Saddle Rd	Ashhurst	T24 448993
		Belmont	1100028	Belmont Rd	Lower Hutt	R27 698033
		Dannevirke	7000503	Rule Rd	Dannevirke	U23 721077
		Feilding	1140087	Campbell Rd	Feilding	S23 044295
		Flockhouse	1001420	Parewanui Rd	Bulls	S23 018001
		Foxton	1001629	Foxton Beach Rd	Foxton	S24 021799
		Hastings	7001531	Karamu Rd South	Hastings	V21 394660
		Hawera	1000178	Fairfield Rd	Hawera	Q21 193769
		Kairanga	1070244	Gillespies Line	Palmerston North	S24 278939
		Kaitoke	1050041	Pauri Rd	Kaitoke	R22 055344
		Kakariki	1150001	Cnr Makirikiri Rd & Goldings Line	Marton	S23 137200
		Kuku	1160001	Ohau West Rd	Kuku	S25 934579
		Lake Alice	1060013	Lake Alice Rd	Lake Alice	S23 093170
		Levin	1090052	Hokio Beach Rd	Levin	S25 009621
		Longburn	1080068	Reserve Rd	Longburn	S24 262889
		Manaia	1010016	Kohiti Rd	Okaiawa	Q21 122857
		Mangaroa	7001469	Bridge Pa Rd	Mangaroa	V21 339463
		Mangatainoka	7030004	Kohinui Rd	Mangatainoka	T24 531832
		Marton	1040212	Wings Line	Marton	S23 144208
		Matapu	1000013	Skeet Rd	Kapuni	Q20 119907
	Mokoia Mixing Station	Mokoia	1000266	Mokoia Rd	Mokoia	Q21 258715
		Okaiawa	1010016	Kohiti Rd	Okaiawa	Q21 122857
		Oroua Downs	1130051	SH 1 near Omanuka Rd	Oroua Downs	S24 087939
		Otaki	1002005	off SH 1 next to Otaki River	Otaki	R25 892475
		Paekakariki	1180001	SH 1	Paekakariki	R26 755231
		Pahiatua	7020212	Mangahao Rd	Pahiatua	T24 491806
		Palmerston North	1070272	Rangitikei Line	Palmerston North	T24 304934
		Paraparaumu	1002236	Valley Rd	Paraparaumu	R26 793289
		Patea	1000422	Victoria Rd	Patea	Q22 368589
		Pauatahanui 1	1002455	Paekakariki Hill Rd	Paekakariki	R26 707117
		Pauatahanui 2	1002428	Paekakariki Hill Rd	Pauatahanui	R26 739140
		Takapau	7000844	SH 2 (Nancy St)	Takapau	U23 958266
		Tawa A	1110077	Takapu Rd	Tawa	R27 635007
		Tawa B	1190001	SH1	Tawa	R27 636008
		Te Horo	1170001	Te Horo Beach Rd	Te Horo	R25 866438
		Waikanae	1002164	Kauri Rd	Waikanae	R26 807347
		Waitangirua	1002532	Track off Waihora Crescent	Porirua East	R27 684057
		Waitotara	1000692	Waiinu Beach Rd	Waitotara	R22 586492
		Wanganui	1000977	Karoro Rd	Wanganui	R22 824377
		Waverley	1030058	Lower Otouku Rd	Waverley	R22 536577

TABLE 4.1 NORTH TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 4 (4) (a) (b) and (c)

INTAKE POINT	OFFTAKE POINTS	SYSTEM PEAK WEEK		INCREASE WITH NO CAPEX [1]		OFFTAKE PEAK WEEK	
		Week Ending	Throughput			Week Ending	Throughput
			(GJ)	(Factor)	(GJ)		(GJ)
Rotowaro		07-Jul-08	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Otahuhu B power station	07-Jul-08	394,188	1.12	47,303	27-Jul-08	420,563
	Southdown power station	07-Jul-08	247,903	1.20	49,581	07-Jul-08	247,903
	Westfield	07-Jul-08	123,467	1.25	30,867	07-Jun-09	133,805
	Glenbrook	07-Jul-08	48,659	2.60	77,854	07-Jul-08	48,659
	Papakura	07-Jul-08	132,036	1.95	125,434	07-Jul-08	132,018
	Henderson	07-Jul-08	34,018	1.90	30,616	21-Jun-09	37,068
	Flat Bush	07-Jul-08	9,733	5.00	38,932	17-Aug-08	10,221
	Harrisville	07-Jul-08	12,127	12.00	133,397	21-Jun-09	12,155
	Bruce McLaren	07-Jul-08	7,205	5.80	34,584	21-Jun-09	7,244
	Drury	07-Jul-08	5,752	12.50	66,148	25-May-09	7,376
	Tuakau	07-Jul-08	2,762	48.50	131,195	24-May-09	4,877
	Warkworth	07-Jul-08	5,157	2.00	5,157	21-Jun-09	7,373
	Marsden (note 2)	07-Jul-08	37,068	0.00	0	01-Mar-09	67,148
	Hunua	07-Jul-08	2,520	18.50	44,100	21-Jun-09	3,724
	Kauri DF	07-Jul-08	7,935	3.10	16,664	19-Oct-08	17,065
	Waitoki	07-Jul-08	2,785	15.50	40,383	14-Sep-08	3,258
	Whangarei	07-Jul-08	3,625	8.00	25,375	21-Jun-09	3,681
			1,076,940				
	offtakes < 2,000 per week						
	Pukekohe	07-Jul-08	1,011				
	Ramarama	07-Jul-08	749				
	Maungaturoto DF	07-Jul-08	0				
	Alfriston	07-Jul-08	510				
	Wellsford	07-Jul-08	86				
	Oakleigh	07-Jul-08	0				
	Kingseat	07-Jul-08	55				
			2,411	ie Average per Offtake<2,000 GJ = 344			
	TOTAL THROUGHPUT		1,079,351				

Notes:

1. Theoretical capacity assuming all other offtake points remain unchanged with no provision for operational 'headroom'.
Factors do not take account of potential coincident peak flows from dominant generation load namely Otahuhu B & Southdown.

2. This load was not included in the modelling to determine the factors for other Offtake Points.

TABLE 4.2 CENTRAL (NORTH) TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 4 (4) (a) (b) and (c)

INTAKE POINT	OFFTAKE POINTS	SYSTEM PEAK WEEK		INCREASE WITH NO CAPEX [1]		OFFTAKE PEAK WEEK	
		Week Ending	Throughput (GJ)	(Factor)	(GJ)	Week Ending	Throughput (GJ)
Rotowaro		17-Aug-08	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Te Rapa Cogeneration	17-Aug-08	98,739	2.40	138,235	13-Jul-08	105,441
	Hamilton Temple View	17-Aug-08	21,085	8.50	158,140	21-Jun-09	30,799
	Hamilton Te Kowhai	17-Aug-08	25,197	9.70	219,213	17-Aug-08	25,197
	Kiwitahi 1	17-Aug-08	6,555	7.30	41,298	24-Aug-08	6,867
	Waitoa	17-Aug-08	7,861	5.30	33,803	24-May-09	8,918
	Cambridge	17-Aug-08	12,125	2.35	16,368	05-Oct-08	14,495
	Horotiu	17-Aug-08	2,130	34.00	70,292	09-Nov-08	3,994
	Tatuanui DF	17-Aug-08	6,027	7.70	40,378	02-Nov-08	7,763
			179,719				
	offtakes < 2,000 per week						
	Morrinsville DF	17-Aug-08	1,388				
	Morrinsville	17-Aug-08	1,227				
	Kiwitahi 2	17-Aug-08	134				
	Matangi	17-Aug-08	15				
	Te Rapa	-	0				
	Tauwhare	-	0				
			2,764	ie Average per Offtake<2,000 GJ = 461			
	TOTAL THROUGHPUT		182,483				

Note:

1. Theoretical capacity assuming all other offtake points remain unchanged with no provision for operational 'headroom'.
2. Actual Te Rapa Cogeneration load has dominant impact on available capacity

TABLE 4.3 CENTRAL (SOUTH) TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 4 (4) (a) (b) and (c)

INTAKE POINT	OFFTAKE POINTS	SYSTEM PEAK WEEK		INCREASE WITH NO CAPEX [2]		OFFTAKE PEAK WEEK	
		Week Ending	Throughput (GJ)	(Factor)	(GJ)	Week Ending	Throughput (GJ)
Kapuni		21-Jun-09	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Pokuru 2	*n/a*	*147,114*	*n/a*	*n/a*	*n/a*	*n/a*
	New Plymouth	21-Jun-09	22,380	1.62	13,876	21-Jun-09	22,380
	Stratford	21-Jun-09	2,171	29.50	61,874	17-Aug-08	2,211
	Waitara	21-Jun-09	2,279	12.00	25,069	24-May-09	2,615
	Eltham	21-Jun-09	4,028	11.50	42,294	24-May-09	4,400
			177,972				
	offtakes < 2,000 per week						
	Inglewood	15-Jun-09	841				
	Kaponga	15-Jun-09	57				
			898	ie Average per Offtake<2,000 GJ = 449			
	TOTAL THROUGHPUT		178,870				

Notes:

1. Theoretical capacity assuming all other offtake points remain unchanged with no provision for operational 'headroom'.
2. The throughput for Pokuru 2 represents a flat profile of 3.9 scm/s.

TABLE 4.4 BAY OF PLENTY TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 4 (4) (a) (b) and (c)

INTAKE POINT	OFFTAKE POINTS	SYSTEM PEAK WEEK		INCREASE WITH NO CAPEX [1]		OFFTAKE PEAK WEEK	
		Week Ending	Throughput			Week Ending	Throughput
			(GJ)	(Factor)	(GJ)		(GJ)
Pokuru		14-Sep-08	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Kinleith (mill)	14-Sep-08	73,761	1.47	34,841	27-Jul-08	95,608
	Edgecumbe DF	14-Sep-08	24,563	2.42	34,841	19-Oct-08	32,157
	Taupo	14-Sep-08	2,960	12.77	34,841	21-Jun-09	4,268
	Mt Maunganui	14-Sep-08	13,892	2.75	24,311	03-Aug-08	15,310
	Whakatane mill	14-Sep-08	8,021	3.80	22,459	21-Sep-08	8,044
	Whakatane	14-Sep-08	9,040	3.46	22,193	08-Sep-08	9,040
	Reporoa	14-Sep-08	13,991	3.49	34,841	21-Sep-08	16,153
	Rotorua	14-Sep-08	8,986	2.75	15,726	12-Jul-08	12,209
	Kawerau (Tasman mill)	14-Sep-08	12,424	3.80	34,841	31-May-09	12,617
	Kawerau (Caxton mill)	14-Sep-08	11,438	4.05	34,841	31-Aug-08	13,628
	Gisborne	14-Sep-08	5,508	4.20	17,626	15-May-09	15,060
	Tauranga	14-Sep-08	5,094	3.73	13,881	28-Jun-09	7,630
	Tirau DF	14-Sep-08	9,065	4.84	34,841	21-Sep-08	10,056
	Lichfield DF	14-Sep-08	12,181	3.86	34,841	19-Oct-08	13,056
	Putaruru	14-Sep-08	2,092	17.65	34,841	06-Jul-08	3,018
	Papamoa	14-Sep-08	2,490	10.00	22,410	28-Jun-09	3,206
			215,506				
	offtakes < 2,000 per week						
	Kihikihi (Te Awamutu)	14-Sep-08	1,210				
	Rainbow Mountain	14-Sep-08	0				
	Rangiuru	14-Sep-08	1,512				
	Te Puke	14-Sep-08	534				
	Tokoroa	14-Sep-08	1,981				
	Waikeria	14-Sep-08	728				
	Kinleith	14-Sep-08	592				
	Kawerau	14-Sep-08	228				
	Edgecumbe	14-Sep-08	2				
	Opotiki	14-Sep-08	155				
	Tirau	14-Sep-08	80				
	Te Teko	14-Sep-08	81				
	Broadlands	14-Sep-08	1,896				
	Okoroire Springs	14-Sep-08	15				
	Pyes Pa	14-Sep-08	639				
			9,653	ie Average per Offtake<2,000 GJ =		644	
	TOTAL THROUGHPUT		225,159				

Notes:

1. Theoretical capacity assuming all other offtake points remain unchanged with no provision for operational 'headroom'.

TABLE 4.5 FRANKLEY RD TO KAPUNI TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 4 (4) (a) (b) and (c)

INTAKE POINT	OFFTAKE POINTS	SYSTEM PEAK WEEK		INCREASE WITH NO CAPEX [1]		OFFTAKE PEAK WEEK	
		Week Ending	Throughput (GJ)	(Factor)	(GJ)	Week Ending	Throughput (GJ)
Frankley Rd		07-Jul-08		n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Kapuni GTP	07-Jul-08	245,675	1.25	61,419	17-May-09	355,199
	Ammonia-Urea Plant	07-Jul-08	63,740	1.86	54,816	21-Jun-09	69,051
	TCC power station	07-Jul-08	376,389	1.28	105,389	05-Apr-09	439,728
			685,804				
	offtakes < 2,000 per week						
	Lactose	07-Jul-08	281				
			281	ie Average per Offtake<2,000 GJ = 281			
	TOTAL THROUGHPUT		686,085				

Notes:

1. Theoretical capacity assuming all other offtake points remain unchanged with no provision for operational 'headroom'.

TABLE 4.6.1 SOUTH TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 3 and Clause 4 (4) (a) (b) and (c)

INTAKE POINT	OFFTAKE POINTS	SYSTEM PEAK WEEK		INCREASE WITH NO CAPEX [1]		OFFTAKE PEAK WEEK	
		Week Ending	Throughput (GJ)	(Factor)	(GJ)	Week Ending	Throughput (GJ)
Kapuni		15-Jun-09		n/a	n/a		
	offtakes > 2,000 GJ per week						
	Tawa A+B	15-Jun-09	81,955	1.72	59,008	15-Jun-09	81,955
	Belmont	15-Jun-09	47,661	2.20	57,194	15-Jun-09	47,661
	Hastings	15-Jun-09	42,597	2.00	42,597	05-Apr-09	44,088
	Palmerston North	15-Jun-09	33,419	1.45	15,039	15-Jun-09	33,419
	Wanganui	15-Jun-09	18,010	4.50	63,036	27-Jul-08	20,254
	Hawera	15-Jun-09	6,676	11.00	66,756	26-Oct-08	24,996
	Levin	15-Jun-09	8,301	3.95	24,488	15-Jun-09	8,301
	Waitangirua	15-Jun-09	9,332	7.35	59,255	15-Jun-09	9,332
	Feilding	15-Jun-09	5,601	3.50	14,003	28-Jun-09	5,669
	Longburn	15-Jun-09	5,778	7.15	35,536	05-Oct-08	9,064
	Okaiawa	15-Jun-09	6,606	6.22	34,482	17-May-09	8,651
	Pahiatua	15-Jun-09	2,481	8.50	18,608	26-Oct-08	10,762
	Pauatahanui 1	15-Jun-09	2,269	27.50	60,123	15-Jun-09	2,269
	Marton	15-Jun-09	4,132	10.00	37,186	15-Mar-09	5,332
	Paraparaumu	15-Jun-09	4,662	12.95	55,717	28-Jun-09	4,732
			279,480				
	offtakes < 2,000 per week						
	Waikanae	15-Jun-09	1,921				
	Dannevirke	15-Jun-09	1,512				
	Takapau	15-Jun-09	1,555				
	Kakariki	15-Jun-09	296				
	Foxton	15-Jun-09	1,456				
	Mangaroa	15-Jun-09	625				
	Patea	15-Jun-09	641				
	Otaki	15-Jun-09	741				
	Manaia	15-Jun-09	757				
	Mangatainoka	15-Jun-09	330				
	Waitotara	15-Jun-09	442				
	Lake Alice	15-Jun-09	589				
	Kaitoke	15-Jun-09	630				
	Ashhurst	15-Jun-09	245				
	Waverley	15-Jun-09	720				
	Paekakariki	15-Jun-09	29				
	Kuku	15-Jun-09	25				
	Te Horo	15-Jun-09	22				
	Matapu	15-Jun-09	8				
	Pauatahanui 2	15-Jun-09	4				
	Oroua Downs	15-Jun-09	922				
	Flockhouse	15-Jun-09	1				
	Kairanga	15-Jun-09	209				
			13,680				
	TOTAL THROUGHPUT		293,160				

ie Average per Offtake<2,000 GJ = 595

Notes:

1. Theoretical capacity assuming all other offtake points remain unchanged with no provision for operational 'headroom'.
2. Kapuni intake maximum assumed at 560 000 GJ/week.

TABLE 4.6.2 SOUTH TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 3 and Clause 4 (4) (a) (b) and (c)

INTAKE POINT	OFFTAKE POINTS	SYSTEM PEAK WEEK		INCREASE WITH NO CAPEX [1]		OFFTAKE PEAK WEEK	
		Week Ending	Throughput (GJ)	(Factor)	(GJ)	Week Ending	Throughput (GJ)
Mokoia		15-Jun-09		n/a	n/a		
	offtakes > 2,000 GJ per week						
	Tawa A+B	15-Jun-09	81,955	1.55	45,075	15-Jun-09	81,955
	Belmont	15-Jun-09	47,661	1.96	45,755	15-Jun-09	47,661
	Hastings	15-Jun-09	42,597	1.82	34,929	05-Apr-09	44,088
	Palmerston North	15-Jun-09	33,419	1.30	10,026	15-Jun-09	33,419
	Wanganui	15-Jun-09	18,010	4.50	63,036	27-Jul-08	20,254
	Hawera	15-Jun-09	6,676	11.00	66,756	26-Oct-08	24,996
	Levin	15-Jun-09	8,301	3.55	21,168	15-Jun-09	8,301
	Waitangirua	15-Jun-09	9,332	6.30	49,457	15-Jun-09	9,332
	Feilding	15-Jun-09	5,601	3.50	14,003	28-Jun-09	5,669
	Longburn	15-Jun-09	5,778	6.25	30,336	05-Oct-08	9,064
	Okaiawa	15-Jun-09	6,606	6.52	36,464	17-May-09	8,651
	Pahiatua	15-Jun-09	2,481	7.25	15,507	26-Oct-08	10,762
	Pauatahanui 1	15-Jun-09	2,269	24.45	53,204	15-Jun-09	2,269
	Marton	15-Jun-09	4,132	9.25	34,087	15-Mar-09	5,332
	Paraparaumu	15-Jun-09	4,662	10.45	44,060	28-Jun-09	4,732
			279,480				
	offtakes < 2,000 per week						
	Waikanae	15-Jun-09	1,921				
	Dannevirke	15-Jun-09	1,512				
	Takapau	15-Jun-09	1,555				
	Kakariki	15-Jun-09	296				
	Foxton	15-Jun-09	1,456				
	Mangaroa	15-Jun-09	625				
	Patea	15-Jun-09	641				
	Otaki	15-Jun-09	741				
	Manaia	15-Jun-09	757				
	Mangatainoka	15-Jun-09	330				
	Waitotara	15-Jun-09	442				
	Lake Alice	15-Jun-09	589				
	Kaitoke	15-Jun-09	630				
	Ashhurst	15-Jun-09	245				
	Waverley	15-Jun-09	720				
	Paekakariki	15-Jun-09	29				
	Kuku	15-Jun-09	25				
	Te Horo	15-Jun-09	22				
	Matapu	15-Jun-09	8				
	Pauatahanui 2	15-Jun-09	4				
	Oroua Downs	15-Jun-09	922				
	Flockhouse	15-Jun-09	1				
	Kairanga	15-Jun-09	209				
			13,680				
	TOTAL THROUGHPUT		293,160				

ie Average per Offtake<2,000 GJ = 595

Notes:

1. Theoretical capacity assuming all other offtake points remain unchanged with no provision for operational 'headroom'.
2. Mokai intake maximum assumed at 86330 GJ/week

5. FURTHER DISCLOSURE: OFFTAKE POINTS WITH THROUGHPUT LESS THAN 2,000 GJ/WEEK

(Ref. Schedule 1 Part 5, Clause 5)

Tables 4.1 to 4.6, respectively, also show for each pipeline the following information in respect of each Offtake Point with a throughput in the system peak week less than 2,000 GJ:

- Throughput of each such Offtake Point in the system peak week
- Total throughput of all such Offtake Points in the system peak week
- Average throughput of all such Offtake Points in the system peak week

6. CRITICAL POINTS OF TRANSMISSION SYSTEMS

(Ref. Schedule 1 Part 5, Clause 6)

Tables 6.1 to 6.6, respectively, show for each pipeline the following information in relation to each Offtake Point with a throughput in the system peak week greater than 2,000 GJ:

- The factor by which the throughput of the Offtake Point could have been increased in the system peak week assuming no capital expenditure on the Offtake Point for the increased throughput.
- The critical point or section of pipeline providing the first or principal constraint on increased throughput at the Offtake Point in the system peak week
- A brief statement of *a* possible means to remove the constraint
- An estimate of the increase in throughput at the Offtake Point given the removal of the constraint
- An estimate of the capital cost to remove the system constraint on the estimated increased throughput excluding upgrade of the intake or offtake points.

TABLE 6.1 NORTH TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 6 (2) (a) (b) and (c)

SYSTEM PEAK WEEK: Week Ending 7 July 2008

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST [1]	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Otahuhu B power station	1.12	34,584	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	1.85	335,060
Southdown power station	1.20	66,148	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	2.25	309,879
Westfield	1.25	38,932	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	3.25	277,801
Glenbrook	2.60	77,854	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	11,100	2.65	80,287
Papakura	1.95	133,397	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	11,100	2.00	132,036
Henderson	1.90	30,616	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	5.65	158,184
Flat Bush	5.00	44,100	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	30.00	282,257
Harrisville	12.00	16,664	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	11,100	10.20	111,568
Bruce McLaren	5.80	47,303	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	31.50	219,753
Drury	12.50	125,434	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	11,100	40.00	224,328
Tuakau	48.50	49,581	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	11,100	50.00	135,338
Warkworth	2.00	131,195	Warkworth lateral pipeline	Loop Warkworth Lateral	5,300	4.25	16,760
Hunua	18.50	40,383	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	11,100	50.00	123,480
Kauri DF	3.10	5,157	Kauri delivery point	Loop Kauri DP	7,000	5.50	35,708
Waitoki	15.50	30,867	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	32.00	86,335
Whangarei	8.00	25,375	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	27,500	10.7	34,981

Note:

Capital Cost estimates exclude the cost of upgrading the Intake or Offtake Points (if required) for the increased throughput.

TABLE 6.2 CENTRAL (NORTH) TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 6 (2) (a) (b) and (c)

SYSTEM PEAK WEEK: Week Ending 17 August 2008

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST [1]	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Te Rapa Cogeneration	2.40	138,235	Te Kowhai to Te Rapa pipeline	Loop Te Kowhai to Te Rapa pipeline	3,400	2.95	192,541
Hamilton Temple View	8.50	158,140	Cambridge lateral pipeline	Loop Cambridge lateral	11,600	9.00	168,683
Hamilton Te Kowhai	9.70	219,213	Cambridge lateral pipeline	Loop Cambridge lateral	11,600	10.00	226,772
Kiwitahi 1	7.30	41,298	Horotiu to Kuranui Rd pipeline	Install compression downstream of Horotiu	12,200	9.15	53,425
Waitoa	5.30	33,803	Horotiu to Kuranui Rd pipeline	Install compression downstream of Horotiu	12,200	6.45	42,844
Cambridge	2.35	16,368	Cambridge lateral pipeline	Loop Cambridge lateral	11,600	2.85	22,431
Horotiu	34.00	70,292	Cambridge lateral pipeline	Loop Cambridge lateral	11,600	36.00	74,552
Tatuanui DF	7.70	40,378	Horotiu to Kuranui Rd pipeline	Install compression downstream of Horotiu	12,200	9.55	51,527

Note:

Capital Cost estimates exclude the cost of upgrading the Intake or Offtake Points (if required) for the increased throughput.

TABLE 6.3 CENTRAL (SOUTH) TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 6 (2) (a) (b) and (c)

SYSTEM PEAK WEEK: Week Ending 21 June 2009

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST [1]	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Pokuru 2	*n/a*	*147,114*	*Kapuni - Mahoenui - Pokuru pipeline*				
New Plymouth	1.62	13,876	New Plymouth lateral	Loop New Plymouth lateral	3,400	2.10	24,618
Stratford	29.50	61,874	Kapuni compressor	Upgrade Kapuni compressor	8,400	220.00	475,449
Waitara	12.00	25,069	New Plymouth lateral	Loop New Plymouth lateral	5,500	39.00	86,602
Eltham	11.50	42,294	Eltham lateral	Loop Eltham lateral	5,600	22.00	84,588

Note:

Capital Cost estimates exclude the cost of upgrading the Intake or Offtake Points (if required) for the increased throughput.

TABLE 6.4 BAY OF PLENTY TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 6 (2) (a) (b) and (c)

SYSTEM PEAK WEEK: Week Ending 14 September 2008

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST [1]	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Kinleith (mill)	1.47	34,841	Pokuru compression	Upgrade Pokuru	16,500	4.50	258,164
Edgecumbe DF	2.42	34,841	Pokuru compression	Upgrade Pokuru	16,500	2.55	38,073
Taupo	12.77	34,841	Pokuru compression	Upgrade Pokuru	16,500	17.15	47,804
Mt Maunganui	2.75	24,311	Pokuru compression	Upgrade Pokuru	16,500	2.75	24,311
Whakatane mill	3.80	22,459	Pokuru compression	Upgrade Pokuru	16,500	3.80	22,459
Whakatane	3.46	22,193	Pokuru compression	Upgrade Pokuru	16,500	3.46	22,193
Reporoa	3.49	34,841	Pokuru compression	Upgrade Pokuru	16,500	5.35	60,861
Rotorua	2.75	15,726	Rotorua lateral	Loop Rotorua lateral *and* upgrade Pokuru	25,400	7.85	61,554
Kawerau (Tasman mill)	3.80	34,841	Pokuru compression	Upgrade Pokuru	16,500	10.80	121,755
Kawerau (Caxton mill)	4.05	34,841	Pokuru compression	Upgrade Pokuru	16,500	10.80	112,092
Gisborne	4.20	17,626	Kawerau to Kiteratatahi pipeline + Pokuru compression	Loop Gisborne *and* Upgrade Pokuru	16,500	4.80	20,930
Tauranga	3.73	13,881	Tauranga lateral + Pokuru compression	Loop Tauranga lateral *and* upgrade Pokuru	21,700	6.73	29,163
Tirau DF	4.84	34,841	Pokuru compression	Upgrade Pokuru	16,500	9.40	76,146
Lichfield DF	3.86	34,841	Pokuru compression	Upgrade Pokuru	16,500	15.22	173,214
Putaruru	17.65	34,841	Pokuru compression	Upgrade Pokuru	16,500	120.00	248,948
Papamoa	10.00	22,410	Papamoa pipeline	Loop Papamoa - Te puke	4,300	10.25	23,033

Notes:

1. Capital Cost estimates exclude the cost of upgrading the Intake or Offtake Points (if required) for the increased throughput.
2. The increased flow through some laterals would approach the limit of acceptable velocity. If the laterals were to be looped even larger increases would be possible, provided also that Pokuru compression was upgraded accordingly.

TABLE 6.5 FRANKLEY RD TO KAPUNI TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 6 (2) (a) (b) and (c)

SYSTEM PEAK WEEK: Week Ending 7 July 2008

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST [1]	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Kapuni GTP	1.25	61,419	Pressure at Kapuni	Build new compressor station at Frankley Rd	35,000	7.50	1,596,888
Ammonia-Urea Plant	1.86	54,816	Pressure at Kapuni	Build new compressor station at Frankley Rd	35,000	3.55	162,536
TCC power station	1.28	105,389	Pressure at Kapuni	Build new compressor station at Frankley Rd	35,000	5.30	1,618,473

Notes:

1. Capital Cost estimates exclude the cost of upgrading the Intake or Offtake Points (if required) for the increased throughput.
2. Additional throughput would be obtainable with larger compressors at Frankley Rd, ie the pipeline would not be the constraint with the increased throughput.

TABLE 6.6 SOUTH TRANSMISSION SYSTEM

Ref. Schedule 1 Part 5, Clause 6 (2) (a) (b) and (c)

SYSTEM PEAK WEEK: Week Ending 15 June 2009

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST [1]	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Tawa A+B	1.55	45,075	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	40,900	2.45	118,835
Belmont	1.96	45,755	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	40,900	3.55	121,536
Hastings	1.82	34,929	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	40,900	2.58	67,303
Palmerston North	1.30	10,026	Palmerston North lateral	Upgrade Kaitoke cpr, link Palmerston Nth DP to 113 line	9,600	2.67	55,810
Wanganui	4.50	63,036	Kapuni to Hawera (unlooped) pipeline	Loop Kapuni to Hawera and upgrade Kapuni compressor	21,400	16.00	270,156
Hawera	11.00	66,756	Kapuni to Hawera (unlooped) pipeline	Loop Kapuni to Hawera and upgrade Kapuni compressor	21,400	43.00	280,374
Levin	3.55	21,168	Levin lateral	Upgrade Kaitoke cpr, loop Levin lateral	11,100	6.55	46,071
Waitangirua	6.30	49,457	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	41,000	12.25	104,980
Feilding	3.50	14,003	Feilding lateral	Upgrade Kaitoke cpr, loop Feilding lateral	12,900	7.85	38,367
Longburn	6.25	30,336	Longburn lateral	Upgrade Kaitoke cpr, loop Longburn lateral	11,900	7.85	39,581
Okaiawa	6.22	34,482	Okaiawa Lateral	Upgrade Kaitoke cpr, loop Okaiawa lateral	11,900	38.45	247,387
Pahiatua	7.25	15,507	Pahiatua lateral	Upgrade Kaitoke cpr, loop Pahiatua lateral	41,000	11.85	26,920
Pauatahanui 1	24.45	53,204	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	41,000	60.00	133,860
Marton	9.25	34,087	Marton lateral	Upgrade Kaitoke cpr, loop Marton lateral	19,200	17.15	66,728
Paraparaumu	10.45	44,060	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	19,200	28.25	127,053

Notes:

1. Capital Cost estimates exclude the cost of upgrading the Intake or Offtake Points (if required) for the increased throughput.
2. Gas injected from Mokoia was fixed in indentifying critical points of South system. The increased supply was assumed to be sourced from Kapuni. It would be necessay to reinforce the Frankley Rd System in some cases should the additional throughput be sourced from the Maui pipeline.
3. Mokoia intake maximum assumed at 86330 GJ/week

7. METHODOLOGIES (Ref. Schedule 1 Part 5, Clause 7)

Intake Points (Ref. Clause 3)

South System

The actual flow rates in the system peak week for Kapuni and Mokoia were not used in the modelling, instead a fixed pressures and flows replaced the load profiles of both. When determining the numerical factors for possible throughput increases with Kapuni as the Intake Point, the Kapuni supply pressure was fixed at 84barg, and the Mokoia flow intake was set at the maximum compressor capacity to maximise the throughput increase factor.

When determining the numerical factors for possible throughput increases with Mokoia as the Intake Point, Mokoia supply pressure was fixed at 77barg, and the Kapuni flow rate was set at the maximum available compressor capacity. Available compressor capacity is the maximum compression capability less the gas load delivered to Central South at South system peak week. 77barg was the maximum possible pressure at Mokoia that would allow the flow from Kapuni while preventing the Kapuni supply pressure from exceeding 84barg.

Offtake Points (Ref. Clause 4)

Information disclosed as required by Clause 4 (4) of the Regulations was determined as set out below.

Peak Week Dates (Ref. Clause 4 (4) (a))

For Systems

For all Offtake Points with metering incorporating electronic data storage capability (the vast majority) reports are available showing the daily throughput at each Offtake Point.

For each transmission system a spreadsheet was compiled showing the daily throughput of all Offtake Points for the whole year. Aggregate daily and weekly throughputs were then calculated.

In all cases, the system peak week was taken to be the week, ie 00:00 hours on Monday to 24:00 hours on Sunday, in which the aggregate offtake was greatest.

For Individual Offtake Points

The date of each Offtake Point's *individual* peak week was obtained from the spreadsheets of daily throughput for each system referred to above.

Peak Week Throughput (Ref. Clause 4 (4) (b))

For the System

In all cases, system peak week throughputs were obtained from the spreadsheets of daily throughput for each system referred to above.

For the Offtake Points

Individual Offtake Point peak throughputs were obtained from the spreadsheets of daily throughputs for each system referred to above.

Throughput Increase in System Peak Week

(Ref. Clause 4 (4) (c))

General Considerations

The numerical factor (theoretical multiplier) by which the throughput of each Offtake Point could have been increased in the system peak week was determined using Vector's transient flow model (the "Model", as defined below). In accordance with the requirements of the Regulations this was done (i) assuming no capital investment to increase existing system capacity and (ii) no change in throughput at other Offtake Points on the system (iii) in addition there is no provision for operational headroom necessary to ensure reliability of supply.

- Using data from SCADA/OATIS or metering as applicable, flow rates (in standard m^3/s) were calculated for each hour of the system peak week for each Offtake Point. The data was assembled into "flow profiles" of the form required by the Model, then loaded into the model. (A hard copy of each flow profile is included in Appendix 1.)

- For the few Offtake Points for which hourly data was not available (those having metering without electronic data storage capability, ie generally sites with very small throughput) an average flow rate was calculated from meter readings and entered into the Model.

- Each of the defined transmission systems was modelled separately. The Model was first run with actual loads in the system peak week to generate appropriate starting conditions for subsequent simulations.

- An Offtake Point was then selected and a multiplier applied to its flow profile. This factor affected only the hourly flow rates for the chosen Offtake Point.

- Each simulation was continued until it became evident either that the increased load was unsustainable or conversely a larger factor could be applied. A new factor was selected and the simulation repeated. This process was continued until the maximum factor consistent with the

relevant limiting criterion (see below) was identified.

- The above process was applied in turn to each Offtake Points on the system with a throughput greater than 2,000 GJ in the system peak week.

- The limiting criterion applied to determine whether the increased throughput would have been achievable or not was whether the pipeline pressure at the most critical point of the system remained above the minimum acceptable value. For the Northland section of the North System, this was taken as 20 bar g; for other systems, 30 bar g. A lower pressure criterion would have resulted in only an insignificant increase in throughput. No account was taken of the rate of pressure decay to the minimum acceptable value or the "volatility" of the pressure at the critical point resulting from the increased throughput or other provision for operational headroom necessary to ensure reliability of supply.

- Where the pressure drop in a lateral or section of pipeline was observed to be exceptionally high given the increased throughput the maximum velocity of gas in the pipeline was checked. In some cases this constituted the limit on increased throughput.

- Where compression at the Intake Point was not modelled (see below) the maximum flow rate through the Intake Point during each simulation was noted. This was later checked against the known capacity of the existing compression to verify the adequacy of such compression.

- The Model is set up to model only high pressure pipelines. Offtake Points are not modelled. Attempting to simulate flow through the heater, regulators or control valves, piping and meter of each Offtake Point on the system would result in an unwarranted increase in complexity and simulation running time. As a consequence no account was taken of the ability of an existing Offtake Point to handle increased throughput. It was assumed that an Offtake Point could be upgraded if required. *(This is a significant assumption in view of the possibility of additional land being required and/or more stringent operating restrictions being imposed by statutory authorities as a condition of any significant upgrade being permitted. Readers of this report should take note.)*

- Modelling was undertaken without regard to shippers' current capacity reservations or the probability of the increased capacity ever being required at any particular Offtake Point.

<u>System Specific Considerations</u>

North System

- Capacity of the Rotowaro compressor station, Intake Point for the North System, is directly proportional to the pressure available from the Maui pipeline. The Rotowaro compressor station comprises two gas turbine-driven centrifugal units plus two gas engine-driven 4-cylinder reciprocating units. These units are able to run with a suction pressure corresponding to the minimum contractual Maui delivery pressure, ie 30 bar g, and still achieve a discharge pressure equal to the maximum

working pressure of the downstream pipelines (86 bar g).

- For the sake of simplicity compression at Rotowaro was not modelled. Instead a fixed pressure of 84 bar g was assumed in all simulations. The peak throughput of the Rotowaro Intake Point was noted in each simulation. This was added to the peak throughput of the Central (North) System for which Rotowaro is also the Intake Point. The total peak Rotowaro throughput was compared to the capacity of the compression installed there to check that the latter would have been sufficient.

- Additional criteria applied in the case of the North System were that pipeline pressures at the Otahuhu B and Southdown Offtake Points be not less than 35 and 49 bar g, respectively, in order that contractual delivery pressure obligations could be met.

- During the year, the Westfield offtake point discharge pressure is adjusted . This resulted in redistribution of flow offtake amongst Westfield, Papakura, and Henderson offtake points. The availability of capacity at each offtake point in the North system was impacted in consequence.

- In the system peak week, NZ Refinery Company was using gas. However, because the supply to NZRC is interruptible, the refinery's load was removed from the system while modelling other offtake points.

Central (North) System

- Rotowaro is the Intake Point for the Central (North) System. As noted above, compression at Rotowaro was not modelled. A fixed pressure of 84 bar g at the Intake Point was assumed in all simulations.

Central (South) System

- Installed compression at the Kapuni Gas Treatment Plant, Intake Point for the Central (South) System, is adequate to meet current requirements but could limit pipeline capacity at flows above 560,000GJ/week. Therefore for simplicity compression at Kapuni was not modelled. A fixed pressure of 84 bar g at the Intake Point was assumed in all simulations albeit that available suction pressure may constrain the compressor discharge pressure/capacity.

- The only existing "Offtake Point" north of New Plymouth is the interconnection to the Bay of Plenty System, ie Pokuru. For simplicity compression at Mahoenui was not modelled. Instead a fixed pressure of 84 bar g was assumed and a flat load profile was assumed for the interconnection to BOP. The BOP flat load was calculated from the average value of Pokuru #2 flow load at the time of Central South system peak week.

- The Pokuru Offtake incorporates piping connections to both the suction side and the discharge side of the Pokuru compressors. Simulations to determine the maximum throughput were based on a suction-side connection. The principal criterion was then to deliver the throughput at sufficient pressure, ie 50 bar g, for a one of two Pokuru unit to be able to compress it into the BOP System.

Bay of Plenty System

- For simplicity compression at Pokuru was not modelled but could limit pipeline capacity at flows above 260,000GJ/week. A fixed pressure of 84 bar g at the system Intake Point was assumed in all simulations.

South System

- As noted in Central South above, installed compression capacity at the Kapuni Gas Treatment Plant is adequate for current requirements but could limit pipeline capacity at flows above 560,000GJ/week. Therefore for simplicity compression at Kapuni was not modelled. A fixed pressure of 84 bar g at the Intake Point was assumed in all simulations albeit that available suction pressure may constrain compressor discharge pressure/capacity.

- Mokoia's maximum capacity was assumed at 86330GJ/week; therefore some theoretical numerical factors have been reduced to prevent exceeding the compressors capacity.

- In simulations of the existing system requiring compression at Kaitoke the smaller (No.1) unit was modelled.

- The discharge pressure set point at Kaitoke was 84 bar g. The No.1 unit was able to maintain this pressure during most simulations.

- The Offtake Points that supply Wellington city are Tawa A (for Powerco's distribution network) and Tawa B (for Nova's distribution network). However many years ago the South transmission system was reconfigured to end at Waitangirua, some 7.7 km north of Tawa. Since then the section of the original (200 mm) transmission pipeline from Waitangirua to Tawa has operated at a nominal pressure of 19bar. Factors for Tawa A and B, respectively, therefore technically apply at Waitangirua.

Frankley Rd to Kapuni System

- A fixed pressure of 44 bar g was assumed to be available from the Maui pipeline at the Frankley Rd Intake Point. This pressure is typical of pressure available from the Maui line however, the Maui pipeline owner may not be obliged to deliver gas from the Maui pipeline at more than 30 bar g. Compression at Derby Rd was not required at any time during the year. Currently Derby Rd compressor station is not operational and will require significant work to enable it to be brought back to service.

- An addition criterion in all simulations was to maintain a minimum delivery pressure of 41 bar g to the Kapuni Gas Treatment Plant.

Further Disclosure Relating to Transmission Systems

(Ref. Clause 5)

Throughputs for Offtake Points with a throughput less than 2,000 GJ in the system peak week were determined in the same way as those for Offtake Points with throughputs greater than 2,000 GJ. (See above.)

Critical Points of Transmission Systems

(Ref. Clause 6 (2))

- During modelling pursuant to Clause 4 (4) (c) of the Regulations the critical point or section of each system constraining further increases in throughput at each Offtake Point was noted.

- For each Offtake Point in turn system a reinforcement option was selected capable of removing the constraint. The appropriate Model files were then amended accordingly.

- For each Offtake Point in turn further simulations were carried out to determine the increased throughput deliverable from the reinforced system. Essentially the same methodology as described earlier (see "Throughput Increase in System Peak Week (Ref. Clause 4 (4) (c))" above) was followed.

- In all simulations a fixed pressure was modelled at the Rotowaro, Pokuru, and Kapuni Intake Points, respectively. The throughput displayed by the Model for each of these Intake Points was noted. In the case of Rotowaro the *existing* flow into the Central (North) System was added to the *increased* flow into the North System. In the case of Kapuni the *existing* flow into the Central (South) System was added to the *increased* flow into the South System. Additional compression requirements (if any) were then calculated from the flow, suction and discharge pressure.

- Where additional compression along the pipeline was considered to be a suitable means of removing a constraint, for example as at Henderson and Horotiu, a compressor "module" available within the Model was used in simulations. The compressor throughput, suction and discharge conditions were noted and used to select and cost suitable compression later on.

- Estimates of the cost to remove the constraint affecting each Offtake Point contained in Tables 6.1 to 6.6 were developed using historic average construction rates for pipelines and other facilities. Please note: on no account does Vector wish to imply that the means of increasing system capacity identified in these tables would necessarily be the optimum, taking into account the requirements of the system as a whole, or that Vector would necessarily employ such means. The costs are "order of magnitude" only; Vector does not warrant their accuracy.

- No account was taken of RMA-related issues in identifying means to remove constraints on the transmission system. Vector does not have any special rights of access to private land for the purposes of constructing new pipelines and related facilities.

- Values for the numerical factor by which the throughput of each Offtake Point could have been increased are set out in Tables 6.1 to 6.6 respectively, were in all cases determined through further modelling.

Transient Flow (Capacity Simulation) Model

(Ref. Clause 7 (2))

Modelling of pipeline systems undertaken pursuant to this disclosure was carried out using Stoner Pipeline Simulator (SPS) software, version 9.30 and 9.5, written by Stoner Associates of the USA. The SPS was installed on a PC. Vector has only a single user licence.

A hard copy of the input data (a flow profile for each Offtake Point) is provided in Appendix 1 of this disclosure. This data will be provided on request in Microsoft Excel spreadsheet format.

8. GAS (CAPACITY) RESERVED IN TRANSMISSION SYSTEMS (Ref. Schedule 1 Part 5, Clause 8)

Tables 8.1 to 8.6, respectively, show the following information in relation to Intake and Offtake Points on each pipeline for the first, third and fifth financial years after the financial year to which this report refers. The data has been extracted from OATIS and relevant contracts.

- *Aggregate* capacity reserved (GJ of MDQ) at each Offtake Point by Vector-owned, and non-Vector companies, respectively.
- The allowable *aggregate* MHQ at each Offtake Point for both Vector-owned and non-Vector companies. (*NB: In most cases MHQ = MDQ ÷ 16, in accordance with the 'Vector Transmission Code'.*)
- Delivery pressures, where non-standard.

Vector's financial year ends on 30th June annually. Vector's contract year (for transmission services) however ends on 30th September annually.

The tables include shippers' capacity reserved under Vector's transmission services agreements and Supplementary Agreements *plus* transmission capacity made available to shippers under non-VTC contracts.

Shippers reserve capacity under transmission services agreements annually prior to the start of the contract year. Thereafter they may transfer capacity between Offtake Points, and/or trade capacity with other shippers for periods as short as one day, subject to certain conditions set out in the 'Vector Transmission Code'.

Shippers may also purchase additional capacity from Vector (or other shippers) during a contract year also subject to the provisions of the 'Vector Transmission Code'.

Shippers are under no obligation to reserve the same level of capacity in subsequent years.

As at the date of this report shippers have not confirmed their capacity requirements for the 2009-2010 contract year. Shippers' capacity reservations for the financial year to 30 June 2010 have therefore been taken as their actual reserved capacity as at the end of June 2009.

As it is not known what capacity shippers will reserve in future, these same reservations have been assumed for the years ending 30 June 2012 and 2014, respectively.

The transmission capacity available under Supplementary Agreements and non-VTC contracts has been assumed to continue.

TABLE 8.1 NORTH TRANSMISSION SYSTEM CAPACITY RESERVATIONS

Ref. Schedule 1 Part 5, Clause 8 (2)

INTAKE POINT	OFFTAKE POINTS		y/e 30 June 2010		y/e 30 June 2012		y/e 30 June 2014		NON-STD DELIVERY PRESSURE
			CAPACITY RESERVED For:						
			Vector	Others	Vector	Others	Vector	Others	
Rotowaro	**Over 2,000 GJ per week**		- all numbers are GJ -						**bar g**
	Drury 1	MDQ	200	57	200	57	200	57	
		MHQ	13	4	13	4	13	4	
	Drury 2	MDQ	500	105	500	105	500	105	
		MHQ	31	7	31	7	31	7	
	Flat Bush	MDQ	0	1,774	0	1,774	0	1,774	
		MHQ	0	111	0	111	0	111	
	Glenbrook	MDQ	6,439	0	6,439	0	6,439	0	
		MHQ	322	0	322	0	322	0	
	Harrisville	MDQ	1,927	0	1,927	0	1,927	0	
		MHQ	120	0	120	0	120	0	
	Hunua	MDQ	150	476	150	476	150	476	
		MHQ	9	30	9	30	9	30	
	Otahuhu B power station	MDQ	0	66,000	0	66,000	0	66,000	31-36
		MHQ	0	3,300	0	3,300	0	3,300	
	Southdown power station	MDQ	0	39,240	0	39,240	0	39,240	49
		MHQ	0	1,784	0	1,784	0	1,784	
	Tuakau	MDQ	200	618	200	618	200	618	
		MHQ	13	39	13	39	13	39	
	Warkworth	MDQ	1,568	81	1,568	81	1,568	81	
		MHQ	98	5	98	5	98	5	
	Greater Auckland	MDQ	15,668	33,303	15,668	33,303	15,668	33,303	
		MHQ	979	2,081	979	2,081	979	2,081	
	Waitoki	MDQ	0	342	0	342	0	342	
		MHQ	0	21	0	21	0	21	
	Whangarei	MDQ	199	720	199	720	199	720	
		MHQ	12	45	12	45	12	45	
	Kauri DF & Maungaturoto DF	MDQ	2,500	0	2,500	0	2,500	0	
		MHQ	125	0	125	0	125	0	
	TOTAL	MDQ	29,350	142,716	29,350	142,716	29,350	142,716	
		MHQ	1,723	7,426	1,723	7,426	1,723	7,426	
3	**Under 2,000 GJ per week**	MDQ	400	444	400	444	400	444	
		MHQ	25	28	25	28	25	28	

Notes:

1 Firm transmission capacity only: interruptible capacity excluded

2 Hunua includes Hunua (Nova)

3 Includes Alfriston, Kingseat, Marsden 2, Oakleigh, Papakura 3, Pukekohe, Ramarama & Wellsford

TABLE 8.2 CENTRAL (NORTH) TRANSMISSION SYSTEM CAPACITY RESERVATIONS

Ref. Schedule 1 Part 5, Clause 8 (2)

INTAKE POINT	OFFTAKE POINTS		y/e 30 June 2010		y/e 30 June 2012		y/e 30 June 2014		NON-STD DELIVERY PRESSURE
			CAPACITY RESERVED For:						
			Vector	Others	Vector	Others	Vector	Others	
Rotowaro	**Over 2,000 GJ per week**		- all numbers are GJ -						**bar g**
	Cambridge	MDQ	97	757	97	757	97	757	
		MHQ	6	47	6	47	6	47	
	Greater Hamilton	MDQ	1,850	6,221	1,850	6,221	1,850	6,221	
		MHQ	116	389	116	389	116	389	
	Kiwitahi 1	MDQ	0	629	0	629	0	629	
		MHQ	0	31	0	31	0	31	
	Tatuanui DF	MDQ	0	789	0	789	0	789	
		MHQ	0	39	0	39	0	39	
	Te Rapa Cogeneration	MDQ	0	25,500	0	25,500	0	25,500	23
		MHQ	0	1,200	0	1,200	0	1,200	
	Waitoa	MDQ	307	1,320	307	1,320	307	1,320	
		MHQ	19	94	19	94	19	94	
	TOTAL	MDQ	2,254	35,215	2,254	35,215	2,254	35,215	
		MHQ	141	1,801	141	1,801	141	1,801	
2	**Under 2,000 GJ per week**	MDQ	915	299	915	299	915	299	
		MHQ	57	19	57	19	57	19	

Notes:
1 Firm transmission capacity only: interruptible capacity excluded
2 Includes Horotiu, Kiwitahi 2, Matangi, Morrinsville & Te Rapa

TABLE 8.3 CENTRAL (SOUTH) TRANSMISSION SYSTEM CAPACITY RESERVATIONS

Ref. Schedule 1 Part 5, Clause 8 (2)

INTAKE POINT	OFFTAKE POINTS		y/e 30 June 2010		y/e 30 June 2012		y/e 30 June 2014		NON-STD DELIVERY PRESSURE
			CAPACITY RESERVED For:						
			Vector	Others	Vector	Others	Vector	Others	
Kapuni	**Over 2,000 GJ per week**		- all numbers are in GJ -						**bar g**
	Eltham	MDQ	255	452	255	452	255	452	
		MHQ	16	28	16	28	16	28	
	New Plymouth	MDQ	955	2,353	955	2,353	955	2,353	
		MHQ	60	147	60	147	60	147	
2	Stratford	MDQ	0	348	0	348	0	348	
		MHQ	0	22	0	22	0	22	
	Waitara	MDQ	95	320	95	320	95	320	
		MHQ	6	20	6	20	6	20	
	Pokuru 2	MDQ	12,000	0	12,000	0	12,000	0	
		MHQ	500	0	500	0	500	0	
	TOTAL	MDQ	13,305	3,473	13,305	3,473	13,305	3,473	
		MHQ	582	217	582	217	582	217	
3	**Under 2,000 GJ per week**	MDQ	5	172	5	172	5	172	
		MHQ	0	11	0	11	0	11	

Notes:
1 Firm transmission capacity only: interruptible capacity excluded
2 Stratford refers to the town / distribution network
3 Includes Inglewood & Kaponga

TABLE 8.4 BAY of PLENTY TRANSMISSION SYSTEM CAPACITY RESERVATIONS

Ref. Schedule 1 Part 5, Clause 8 (2)

INTAKE POINT	OFFTAKE POINTS		y/e 30 June 2010		y/e 30 June 2012		y/e 30 June 2014		NON-STD DELIVERY PRESSURE
			CAPACITY RESERVED For:						
			Vector	Others	Vector	Others	Vector	Others	
Pokuru	**Over 2,000 GJ per week**		- all numbers are in GJ -						**bar g**
	Edgecumbe DF	MDQ	0	4,725	0	4,725	0	4,725	
		MHQ	0	236	0	236	0	236	
	Gisborne	MDQ	2,358	1,034	2,358	1,034	2,358	1,034	
		MHQ	134	65	134	65	134	65	
	Kawerau (Caxton mill)	MDQ	1,880	0	1,880	0	1,880	0	
		MHQ	94	0	94	0	94	0	
	Kawerau (Tasman mill)	MDQ	1,740	0	1,740	0	1,740	0	
		MHQ	87	0	87	0	87	0	
	Kinleith (mill)	MDQ	12,360	0	12,360	0	12,360	0	
		MHQ	773	0	773	0	773	0	
	Lichfield DF	MDQ	0	33	0	33	0	33	
		MHQ	0	2	0	2	0	2	
2	Greater Mt Maunganui	MDQ	1,216	2,778	1,216	2,778	1,216	2,778	
		MHQ	76	178	76	178	76	178	
	Reporoa	MDQ	0	680	0	680	0	680	
		MHQ	0	34	0	34	0	34	
	Rotorua	MDQ	366	1,552	366	1,552	366	1,552	
		MHQ	23	97	23	97	23	97	
3	Greater Tauranga	MDQ	227	951	227	951	227	951	
		MHQ	14	59	14	59	14	59	
	Tirau DF	MDQ	0	90	0	90	0	90	
		MHQ	0	6	0	6	0	6	
	Whakatane	MDQ	2,388	131	2,388	131	2,388	131	
		MHQ	149	8	149	8	149	8	
	TOTAL	MDQ	22,535	11,974	22,535	11,974	22,535	11,974	
		MHQ	1,349	685	1,349	685	1,349	685	
4	**Under 2,000 GJ per week**	MDQ	3,028	1,715	3,028	1,715	3,028	1,715	
		MHQ	170	107	170	107	170	107	

Notes:

1 Firm transmission capacity only: interruptible capacity excluded

2 Includes Mt Maunganui & Papamoa

3 Includes Pyes Pa & Tauranga

4 Includes Broadlands, Edgecumbe, Kawerau, Kihikihi, Kinleith, Okoroire Springs, Opotiki, Putaruru, Rangiuru, Taupo, Te Puke, Te Toko, Tirau, Tokoroa & Waikeria

TABLE 8.5 FRANKLEY RD TRANSMISSION SYSTEM CAPACITY RESERVATIONS

Ref. Schedule 1 Part 5, Clause 8 (2)

INTAKE POINT	OFFTAKE POINTS		y/e 30 June 2010		y/e 30 June 2012		y/e 30 June 2014		NON-STD DELIVERY PRESSURE
			CAPACITY RESERVED For:						
			Vector	Others	Vector	Others	Vector	Others	
Frankley Rd & Kupe	**Over 2,000 GJ per week**		- all numbers are in GJ -						**bar g**
	TCC power station	MDQ	0	64,000	0	64,000	0	64,000	31
		MHQ	0	2,827	0	2,827	0	2,827	
	Kapuni GTP	MDQ	0	26,713	0	26,713	0	26,713	42
		MHQ	0	1,336	0	1,336	0	1,336	
2	Ammonia-Urea Plant	MDQ	0	22,500	0	22,500	0	22,500	
		MHQ	0	1,010	0	1,010	0	1,010	
	TOTAL	MDQ	0	113,213	0	113,213	0	113,213	
		MHQ	0	5,173	0	5,173	0	5,173	
3	**Under 2,000 GJ per week**	MDQ	0	208	0	208	0	208	
		MHQ	0	13	0	13	0	13	

Notes:

1 Firm transmission capacity only: interruptible capacity excluded

2 Includes Ballance 8201 & Ballance 9626

3 Includes Kapuni (Lactose et al)

TABLE 8.6 SOUTH TRANSMISSION SYSTEM CAPACITY RESERVATIONS

Ref. Schedule 1 Part 5, Clause 8 (2)

INTAKE POINT	OFFTAKE POINTS		y/e 30 June 2010		y/e 30 June 2012		y/e 30 June 2014		NON-STD DELIVERY PRESSURE
			CAPACITY RESERVED For:						
			Vector	Others	Vector	Others	Vector	Others	
Kapuni & Mokoia	**Over 2,000 GJ per week**		- all numbers are in GJ -						**bar g**
	Belmont	MDQ	580	8,044	580	8,044	580	8,044	
		MHQ	36	503	36	503	36	503	
	Feilding	MDQ	840	1,076	840	1,076	840	1,076	
		MHQ	53	67	53	67	53	67	
2	Hastings	MDQ	4,520	5,318	4,520	5,318	4,520	5,318	
		MHQ	283	332	283	332	283	332	
3	Hawera	MDQ	0	1,666	0	1,666	0	1,666	
		MHQ	0	104	0	104	0	104	
	Levin	MDQ	438	1,288	438	1,288	438	1,288	
		MHQ	27	80	27	80	27	80	
	Longburn	MDQ	50	865	50	865	50	865	
		MHQ	3	43	3	43	3	43	
	Marton	MDQ	720	310	720	310	720	310	
		MHQ	45	19	45	19	45	19	
	Okaiawa	MDQ	0	1,680	0	1,680	0	1,680	
		MHQ	0	70	0	70	0	70	
	Palmerston North	MDQ	810	4,953	810	4,953	810	4,953	
		MHQ	51	310	51	310	51	310	
	Paraparaumu	MDQ	35	593	35	593	35	593	
		MHQ	2	37	2	37	2	37	
	Tawa A+B	MDQ	795	13,047	795	13,047	795	13,047	
		MHQ	50	815	50	815	50	815	
	Waikanae	MDQ	0	206	0	206	0	206	
		MHQ	0	13	0	13	0	13	
4	Greater Waitangirua	MDQ	170	1,179	170	1,179	170	1,179	
		MHQ	11	74	11	74	11	74	
	Wanganui	MDQ	690	2,794	690	2,794	690	2,794	
		MHQ	43	175	43	175	43	175	
	TOTAL	MDQ	9,649	43,019	9,649	43,019	9,649	43,019	
		MHQ	602	2,643	602	2,643	602	2,643	
5	**Under 2,000 GJ per week**	MDQ	539	2,779	539	2,779	539	2,779	
		MHQ	34	167	34	167	34	167	

Notes:

1 Firm transmission capacity only: interruptible capacity excluded

2 Hastings includes Hastings (Nova)

3 Hawera includes Hawera (Nova)

4 Includes Waitangirua & Pauatahanui 1

5 Includes Ashhurst, Dannevirke, Flockhouse, Foxton, Kairanga, Kaitoke, Kakariki, Kuku, Lake Alice, Manaia, Managaroa, Mangatainoka, Matapu, Oroua Downs, Otaki, Paekakariki, Pahiatua, Patea, Pauatahanui 2, Takapau, Te Horo, Waitotara, Waverley

APPENDIX 1

FLOW PROFILES

Note: Associated with the flow profile for each Offtake Point is the weekly load in TJ. These weekly loads are for checking purposes only and are not used in the Model. They were calculated by multiplying the hourly flow rates by a typical average CV.
The resulting values may therefore differ somewhat from those shown in Tables 4.1 – 4.6, which were determined using daily average CV's.
Rounding of flow rates to two decimal places may also have contributed slight differences.

```
X DELIVERY POINT     ALFRISTON
X CODE
RAMP       ALFEXT.V1          =      0.0375
+              0.03      0.04      0.04      0.04      0.03      0.04      0.03      0.04      0.03      0.01      0.00      0.00
+              0.00      0.00      0.00      0.00      0.01      0.02      0.03      0.03      0.03      0.05      0.04      0.04
+              0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.02      0.00      0.00
+              0.01      0.00      0.01      0.00      0.01      0.03      0.04      0.04      0.04      0.04      0.04      0.04
+              0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.01      0.00      0.00
+              0.00      0.00      0.00      0.00      0.01      0.02      0.04      0.04      0.04      0.04      0.04      0.04
+              0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.01      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.02      0.02      0.02      0.02      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.03      0.02      0.02      0.01      0.01      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01
+              0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.02      0.02      0.03
+              0.02      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.01      0.02      0.03      0.03      0.03      0.03      0.00
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.51
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          7 JULY 2008 - 13 JULY 2008
X ======================================================
X DELIVERY POINT     BRUCE MCLAREN
X CODE
RAMP       BMCEXT.V1 =          0.1925
+              0.17      0.16      0.18      0.20      0.22      0.25      0.36      0.43      0.45      0.45      0.43      0.41
+              0.38      0.36      0.34      0.34      0.36      0.35      0.34      0.32      0.32      0.30      0.28      0.27
+              0.24      0.23      0.24      0.25      0.24      0.30      0.37      0.44      0.50      0.46      0.41      0.40
+              0.37      0.38      0.37      0.34      0.39      0.49      0.37      0.35      0.34      0.32      0.30      0.27
+              0.25      0.24      0.25      0.26      0.28      0.33      0.44      0.50      0.54      0.50      0.44      0.45
+              0.40      0.41      0.38      0.34      0.29      0.31      0.36      0.35      0.34      0.34      0.30      0.28
+              0.26      0.26      0.25      0.28      0.28      0.34      0.43      0.50      0.54      0.52      0.45      0.44
+              0.42      0.38      0.34      0.31      0.29      0.29      0.30      0.29      0.27      0.24      0.22      0.19
+              0.17      0.16      0.15      0.18      0.18      0.22      0.32      0.36      0.40      0.39      0.39      0.40
+              0.39      0.34      0.32      0.32      0.31      0.30      0.29      0.25      0.24      0.22      0.20      0.16
+              0.15      0.14      0.12      0.12      0.12      0.15      0.17      0.20      0.23      0.23      0.25      0.25
+              0.25      0.23      0.23      0.23      0.23      0.24      0.24      0.21      0.20      0.19      0.17      0.15
+              0.14      0.15      0.15      0.13      0.15      0.16      0.18      0.21      0.25      0.22      0.22      0.23
+              0.20      0.18      0.18      0.19      0.19      0.21      0.24      0.22      0.22      0.21      0.21      0.13
+ TIME=     WEEK
+ MULT=          1
+ ADD =          0
X Weekly Load TJ =      7.226982
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          7 JULY 2008 - 13 JULY 2008
X ======================================================
X DELIVERY POINT     DRURY
X CODE
RAMP       DRUEXT.V1 =          0.416944
+              0.41      0.43      0.46      0.45      0.45      0.44      0.42      0.40      0.34      0.17      0.13      0.14
+              0.15      0.15      0.15      0.17      0.19      0.12      0.13      0.13      0.25      0.34      0.34      0.35
+              0.37      0.38      0.41      0.41      0.42      0.42      0.43      0.43      0.33      0.17      0.15      0.14
+              0.14      0.14      0.15      0.14      0.19      0.24      0.19      0.20      0.22      0.34      0.37      0.38
+              0.38      0.39      0.42      0.43      0.45      0.44      0.45      0.42      0.29      0.11      0.13      0.14
+              0.14      0.14      0.16      0.12      0.11      0.21      0.22      0.21      0.37      0.38      0.37      0.42
+              0.43      0.45      0.46      0.49      0.46      0.46      0.43      0.45      0.33      0.16      0.13      0.13
+              0.16      0.16      0.17      0.20      0.17      0.15      0.12      0.08      0.10      0.11      0.15      0.26
+              0.27      0.23      0.26      0.24      0.23      0.23      0.18      0.21      0.22      0.15      0.16      0.15
+              0.16      0.15      0.19      0.21      0.21      0.09      0.07      0.06      0.08      0.08      0.15      0.19
+              0.19      0.15      0.17      0.19      0.17      0.16      0.18      0.16      0.17      0.14      0.14      0.17
+              0.15      0.13      0.10      0.15      0.13      0.06      0.07      0.05      0.09      0.07      0.17      0.22
+              0.17      0.25      0.28      0.28      0.27      0.27      0.34      0.29      0.20      0.12      0.11      0.11
+              0.11      0.11      0.11      0.11      0.11      0.11      0.16      0.17      0.16      0.23      0.32      0.00
+ TIME=     WEEK
+ MULT=          1
+ ADD =          0
X Weekly Load TJ =      5.769193
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          7 JULY 2008 - 13 JULY 2008
X ======================================================
```

X DELIVERY POINT FLAT BUSH
X CODE
RAMP FBUEXT.V1 = 0.198889
+ 0.20 0.25 0.23 0.23 0.23 0.34 0.40 0.41 0.46 0.50 0.55 0.52
+ 0.52 0.51 0.55 0.57 0.52 0.51 0.47 0.47 0.47 0.45 0.46 0.41
+ 0.36 0.38 0.38 0.38 0.36 0.38 0.49 0.58 0.62 0.62 0.58 0.59
+ 0.58 0.59 0.55 0.55 0.49 0.46 0.46 0.46 0.44 0.47 0.44 0.43
+ 0.40 0.39 0.39 0.42 0.38 0.42 0.50 0.59 0.66 0.61 0.59 0.58
+ 0.57 0.63 0.59 0.61 0.54 0.53 0.47 0.49 0.49 0.46 0.48 0.43
+ 0.39 0.41 0.39 0.41 0.36 0.43 0.41 0.55 0.65 0.62 0.62 0.60
+ 0.59 0.60 0.61 0.57 0.52 0.48 0.46 0.43 0.40 0.43 0.42 0.38
+ 0.40 0.37 0.36 0.40 0.35 0.40 0.50 0.54 0.57 0.57 0.58 0.54
+ 0.59 0.59 0.54 0.53 0.50 0.46 0.45 0.47 0.43 0.35 0.33 0.34
+ 0.34 0.33 0.30 0.22 0.24 0.24 0.28 0.28 0.31 0.32 0.29 0.30
+ 0.29 0.21 0.19 0.16 0.16 0.14 0.15 0.14 0.12 0.14 0.12 0.14
+ 0.11 0.13 0.13 0.11 0.14 0.12 0.13 0.14 0.14 0.14 0.12 0.15
+ 0.13 0.13 0.15 0.15 0.15 0.14 0.13 0.17 0.14 0.16 0.16 0.08
+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 9.745927
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========
X DELIVERY POINT GLEN BROOK
X CODE
RAMP GLNEXT.V1 = 1.791944
+ 1.86 2.00 1.98 2.00 2.02 2.05 2.17 2.00 2.01 1.97 1.85 1.82
+ 1.91 1.88 2.07 2.08 2.10 2.17 2.13 1.95 1.77 1.74 1.75 1.93
+ 1.77 1.91 2.07 2.25 2.11 2.05 2.05 2.02 2.16 2.18 2.20 1.98
+ 1.96 1.89 2.00 1.97 1.84 1.91 2.17 2.16 2.07 2.02 2.34 2.53
+ 2.44 2.18 2.12 2.14 2.02 2.00 1.77 1.63 1.75 1.83 1.76 1.86
+ 2.41 2.71 2.64 2.11 2.37 2.35 2.26 2.68 2.65 2.79 2.21 2.66
+ 3.21 2.59 3.16 2.60 2.14 2.00 2.07 2.21 2.67 3.28 2.51 2.23
+ 2.63 2.65 2.99 2.29 2.00 1.91 2.00 1.86 1.75 1.75 1.82 1.86
+ 1.98 2.55 2.37 2.10 2.21 2.28 2.49 2.46 2.58 2.69 2.77 2.65
+ 2.42 2.35 2.07 2.14 2.44 2.40 2.55 2.70 2.35 2.56 2.72 2.48
+ 2.14 2.00 2.16 2.23 1.72 1.70 2.09 1.88 2.00 1.93 1.30 1.29
+ 1.51 1.91 1.89 1.70 1.79 1.32 0.67 0.58 0.60 0.62 0.76 0.67
+ 0.60 0.59 0.60 0.76 0.81 0.74 0.65 0.76 0.95 1.02 0.88 0.74
+ 0.76 0.88 0.86 1.00 1.23 1.93 2.07 2.02 1.86 1.77 1.88 2.97
+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 49.0795
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========
X DELIVERY POINT HARRISVILLE
X CODE
RAMP HAREXT.V1 = 0.705278
+ 0.69 0.78 0.77 0.70 0.68 0.62 0.65 0.80 0.72 0.64 0.70 0.68
+ 0.58 0.59 0.58 0.54 0.35 0.11 0.10 0.10 0.13 0.34 0.45 0.71
+ 0.68 0.70 0.78 0.82 0.84 0.83 0.83 0.83 0.77 0.67 0.67 0.67
+ 0.62 0.59 0.56 0.50 0.28 0.12 0.11 0.12 0.26 0.38 0.61 0.69
+ 0.68 0.76 0.79 0.73 0.85 0.86 0.84 0.83 0.71 0.63 0.61 0.59
+ 0.49 0.55 0.56 0.50 0.28 0.29 0.34 0.20 0.38 0.28 0.41 0.55
+ 0.64 0.66 0.76 0.79 0.84 0.82 0.84 0.85 0.68 0.65 0.69 0.65
+ 0.59 0.54 0.54 0.48 0.29 0.26 0.18 0.15 0.19 0.28 0.35 0.37
+ 0.36 0.32 0.22 0.21 0.21 0.35 0.31 0.49 0.71 0.60 0.71 0.66
+ 0.60 0.57 0.54 0.46 0.33 0.16 0.16 0.15 0.20 0.28 0.32 0.31
+ 0.30 0.29 0.23 0.22 0.26 0.29 0.32 0.38 0.68 0.68 0.65 0.60
+ 0.61 0.60 0.56 0.46 0.29 0.15 0.16 0.17 0.19 0.20 0.32 0.33
+ 0.35 0.53 0.45 0.32 0.37 0.40 0.48 0.57 0.54 0.62 0.66 0.60
+ 0.57 0.47 0.46 0.41 0.21 0.17 0.18 0.21 0.27 0.33 0.41 0.20
+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 12.213
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========

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X DELIVERY POINT     HENDERSON
X CODE
RAMP       HSNEXT.V1 =          0.987778
+              0.80       0.84       0.86       0.79       0.89       1.10       1.73       2.34       2.73       2.48       2.19       2.03
+              1.96       1.83       1.61       1.52       1.67       2.10       2.42       2.55       2.51       2.37       2.01       1.48
+              1.09       0.98       0.96       0.97       1.07       1.30       1.81       2.53       2.87       2.69       2.36       2.12
+              1.89       1.74       1.62       1.51       1.49       1.95       2.36       2.59       2.64       2.53       2.22       1.66
+              1.23       1.00       0.92       0.90       1.09       1.34       1.90       2.56       2.89       2.70       2.37       2.12
+              1.89       1.79       1.56       1.32       1.31       1.78       2.31       2.61       2.64       2.51       2.14       1.54
+              1.04       0.88       0.84       0.83       1.00       1.28       1.82       2.50       2.92       2.71       2.28       1.99
+              1.82       1.67       1.53       1.32       1.35       1.70       2.07       2.09       2.03       1.83       1.23       0.71
+              0.31       0.16       0.06       0.05       0.06       0.24       0.99       1.74       2.05       1.77       1.61       1.50
+              1.46       1.42       1.25       1.15       1.27       1.55       1.69       1.64       1.45       1.21       0.75       0.33
+              0.08       0.01       0.00       0.00       0.00       0.00       0.00       0.33       0.83       1.06       1.12       1.01
+              0.93       0.84       0.78       0.85       0.97       1.27       1.39       1.30       1.11       0.94       0.69       0.29
+              0.18       0.16       0.10       0.08       0.10       0.11       0.32       0.65       0.97       1.03       1.02       0.90
+              0.73       0.59       0.45       0.34       0.35       0.85       1.32       1.50       1.49       1.38       1.14       0.01
+ TIME=    WEEK
+ MULT=          1
+ ADD =          0
X Weekly Load TJ =     34.07629
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         7 JULY 2008 - 13 JULY 2008
X ============================================================
X DELIVERY POINT     HUNUA
X CODE
RAMP       HUNEXT.V1 =          0.030833
+              0.04       0.04       0.03       0.05       0.08       0.10       0.11       0.17       0.16       0.15       0.14       0.14
+              0.21       0.16       0.16       0.16       0.14       0.11       0.12       0.10       0.10       0.10       0.10       0.09
+              0.07       0.09       0.11       0.14       0.13       0.12       0.19       0.15       0.14       0.17       0.17       0.17
+              0.17       0.22       0.17       0.16       0.20       0.20       0.15       0.13       0.16       0.16       0.14       0.12
+              0.15       0.13       0.11       0.12       0.17       0.17       0.19       0.20       0.21       0.16       0.17       0.17
+              0.17       0.17       0.18       0.16       0.18       0.14       0.14       0.16       0.14       0.15       0.13       0.12
+              0.11       0.11       0.12       0.12       0.12       0.16       0.18       0.17       0.17       0.17       0.17       0.18
+              0.18       0.20       0.16       0.15       0.17       0.14       0.13       0.13       0.13       0.13       0.14       0.12
+              0.11       0.08       0.09       0.09       0.10       0.11       0.12       0.11       0.10       0.10       0.09       0.10
+              0.10       0.10       0.08       0.06       0.05       0.06       0.05       0.06       0.07       0.06       0.07       0.04
+              0.04       0.03       0.02       0.03       0.02       0.05       0.07       0.06       0.05       0.04       0.04       0.03
+              0.03       0.04       0.03       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02
+              0.02       0.02       0.02       0.02       0.02       0.03       0.01       0.02       0.02       0.02       0.02       0.01
+              0.02       0.01       0.02       0.02       0.02       0.02       0.01       0.02       0.02       0.02       0.03       0.00
+ TIME=    WEEK
+ MULT=          1
+ ADD =          0
X Weekly Load TJ =     2.520469
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         7 JULY 2008 - 13 JULY 2008
X ============================================================
X DELIVERY POINT     KAURI
X CODE
RAMP       KRIEXT.V1 =          0.384722
+              0.36       0.15       0.12       0.09       0.06       0.10       0.09       0.14       0.11       0.12       0.31       0.22
+              0.28       0.34       0.33       0.33       0.37       0.34       0.40       0.39       0.39       0.40       0.38       0.37
+              0.38       0.17       0.09       0.17       0.35       0.38       0.43       0.46       0.39       0.39       0.41       0.42
+              0.42       0.42       0.42       0.42       0.41       0.38       0.39       0.14       0.08       0.15       0.33       0.34
+              0.35       0.34       0.35       0.35       0.37       0.38       0.37       0.38       0.36       0.40       0.34       0.33
+              0.13       0.25       0.44       0.18       0.10       0.17       0.09       0.11       0.11       0.16       0.11       0.27
+              0.39       0.40       0.39       0.36       0.36       0.35       0.38       0.25       0.13       0.16       0.24       0.43
+              0.68       0.55       0.53       0.45       0.43       0.39       0.37       0.38       0.39       0.39       0.39       0.40
+              0.24       0.10       0.14       0.23       0.37       0.34       0.34       0.38       0.37       0.37       0.40       0.41
+              0.40       0.39       0.43       0.42       0.43       0.19       0.07       0.09       0.11       0.23       0.38       0.38
+              0.36       0.37       0.39       0.38       0.43       0.41       0.37       0.40       0.53       0.67       0.71       0.54
+              0.42       0.37       0.19       0.36       0.39       0.42       0.35       0.34       0.35       0.40       0.43       0.38
+              0.40       0.37       0.37       0.37       0.40       0.26       0.11       0.20       0.11       0.07       0.15       0.08
+              0.11       0.13       0.35       0.38       0.37       0.39       0.35       0.33       0.34       0.35       0.35       0.00
+ TIME=    WEEK
+ MULT=          1
+ ADD =          0
X Weekly Load TJ =     7.942681
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         7 JULY 2008 - 13 JULY 2008
X ============================================================
```

X DELIVERY POINT KINGSEAT
X CODE
RAMP KSTEXT.V1 = 0.003056

+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 0.055127
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==
X DELIVERY POINT MARSDEN POINT (CH LVL)
X CODE
RAMP MDNEXT.V1 = 0

+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 0.013298
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==
X DELIVERY POINT MARSDEN POINT (REFINERY)
X CODE
RAMP NZDEXT.V1 = 1.980556

+	1.98	1.98	1.98	1.99	1.99	2.00	2.00	1.99	2.00	1.92	1.95	1.95
+	2.02	1.98	2.16	2.14	2.05	1.98	1.98	1.97	1.94	1.96	1.97	1.98
+	1.97	1.98	1.99	1.99	1.99	1.99	2.00	2.00	1.88	1.83	1.54	1.51
+	1.51	1.51	1.51	1.51	1.52	1.53	1.53	1.53	1.53	1.53	1.54	1.54
+	1.54	1.54	1.54	1.54	1.54	1.54	1.55	1.55	1.55	1.53	1.52	1.46
+	1.53	1.53	1.54	1.54	1.54	1.55	1.56	1.56	1.56	1.56	1.56	1.57
+	1.56	1.57	1.57	1.57	1.58	1.58	1.58	1.57	1.56	1.55	1.54	1.53
+	1.52	1.52	1.53	1.53	1.54	1.54	1.54	1.54	1.54	1.56	1.65	1.65
+	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.54	1.60	1.60
+	1.40	1.01	1.01	1.61	1.62	1.36	1.15	1.12	1.54	1.63	1.63	1.63
+	1.63	1.63	1.51	1.45	1.33	1.13	0.99	0.83	0.79	0.76	0.71	0.69
+	0.70	0.75	1.16	1.60	1.50	1.46	1.27	1.20	1.13	1.01	0.91	0.84
+	0.42	0.39	0.86	1.14	1.19	1.20	1.27	1.22	0.78	0.41	0.28	0.14
+	0.68	0.62	1.10	1.24	1.23	1.16	1.17	1.22	1.24	1.47	1.61	2.14

+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 37.46095
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==

X DELIVERY POINT MAUNGATOROTO
X CODE
RAMP MTOEXT.V1 = 0

+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37

+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 0.055127
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==
X DELIVERY POINT OTAHUHU B POWER STATION
X CODE
RAMP OTAEXT.V1 = 14.41556

+	12.34	10.60	10.49	10.53	10.58	11.38	16.11	18.90	18.95	18.70	18.35	18.44
+	18.28	18.31	18.18	18.23	18.41	18.43	18.57	18.56	18.62	18.78	17.84	15.49
+	12.35	11.52	10.66	10.64	10.63	11.40	15.29	18.86	18.97	18.94	18.96	18.89
+	18.77	18.67	18.65	18.67	18.74	18.81	18.90	18.99	19.04	19.04	17.37	14.42
+	12.41	12.34	12.36	12.37	12.36	13.77	17.12	19.11	19.07	18.70	18.46	18.71
+	18.58	18.62	18.55	18.55	18.59	18.59	18.60	18.60	18.59	18.59	16.98	14.47
+	11.27	10.74	10.84	10.92	10.92	10.92	11.74	17.44	18.57	18.51	18.54	16.64
+	16.50	16.52	16.52	16.51	17.45	17.95	18.58	18.59	18.60	18.61	17.19	14.44
+	12.52	12.33	12.34	12.33	12.33	13.61	15.74	18.23	18.60	18.59	18.54	18.52
+	18.50	18.48	18.39	18.34	18.33	18.30	18.31	18.28	18.28	18.28	16.94	14.34
+	12.41	11.40	10.18	10.19	10.18	13.33	14.04	14.69	17.96	18.15	18.09	18.04
+	18.05	18.11	18.13	18.12	18.18	18.25	18.35	18.33	16.61	16.50	15.61	14.35
+	12.43	11.45	10.32	10.34	10.34	10.34	10.35	10.35	13.06	15.63	15.65	15.62
+	15.22	13.71	10.72	10.58	11.30	16.69	18.58	18.66	16.67	14.52	13.48	0.00

+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 394.9807
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==
X DELIVERY POINT PAPAKURA
X CODE
RAMP PPKEXT.V1 = 5.738889

+	5.81	5.88	5.88	5.94	5.94	6.05	6.21	6.43	6.41	5.62	5.34	5.32
+	5.03	5.09	4.92	5.26	5.59	5.80	5.93	5.94	6.02	6.17	6.13	5.96
+	5.91	5.86	5.86	5.87	6.00	6.20	6.50	6.80	6.66	5.96	5.82	5.47
+	4.86	4.67	4.74	5.01	5.54	6.02	6.30	6.44	6.45	6.52	6.41	6.24
+	6.05	6.00	5.87	6.00	6.06	6.25	6.73	7.03	6.82	6.01	5.74	5.34
+	4.73	4.46	4.42	4.63	5.22	5.82	6.23	6.37	6.45	6.52	6.40	6.10
+	5.93	5.87	5.87	6.00	6.06	6.31	6.61	6.90	6.75	5.87	5.48	4.88
+	4.35	4.21	4.35	4.62	5.02	5.54	5.68	5.67	5.48	5.35	5.05	4.86
+	4.67	4.68	4.61	4.68	4.74	4.74	5.04	5.41	5.40	5.20	5.06	4.93
+	4.93	4.80	4.60	4.87	4.95	5.01	5.01	4.95	4.83	4.58	4.33	4.27
+	4.15	4.09	4.15	4.15	4.03	4.09	4.09	4.21	4.39	4.38	4.25	4.25
+	4.38	4.26	4.26	4.46	4.47	4.72	4.66	4.54	4.62	4.57	4.70	4.65
+	4.73	4.74	4.81	4.88	4.88	5.07	5.06	5.19	5.23	4.54	4.40	4.07
+	3.86	3.60	3.62	4.01	4.22	4.82	5.22	5.29	5.24	5.32	5.20	3.43

+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 132.3049
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==

X DELIVERY POINT PUKEKOHE
X CODE
RAMP PUKEXT.V1 = 0.028889
+ 0.02 0.03 0.03 0.02 0.02 0.04 0.07 0.08 0.08 0.08 0.06 0.06
+ 0.06 0.07 0.07 0.06 0.05 0.04 0.05 0.04 0.04 0.04 0.05 0.04
+ 0.03 0.03 0.02 0.03 0.04 0.04 0.07 0.09 0.09 0.08 0.08 0.07
+ 0.07 0.07 0.06 0.04 0.04 0.05 0.05 0.04 0.04 0.04 0.05 0.03
+ 0.03 0.02 0.02 0.02 0.02 0.04 0.07 0.08 0.10 0.09 0.08 0.07
+ 0.06 0.07 0.06 0.05 0.04 0.04 0.05 0.04 0.04 0.04 0.05 0.04
+ 0.02 0.02 0.03 0.03 0.03 0.03 0.07 0.08 0.09 0.07 0.06 0.06
+ 0.06 0.05 0.05 0.05 0.04 0.04 0.05 0.05 0.05 0.04 0.04 0.03
+ 0.02 0.01 0.02 0.02 0.02 0.02 0.05 0.07 0.07 0.07 0.07 0.08
+ 0.06 0.06 0.06 0.05 0.05 0.04 0.04 0.04 0.03 0.04 0.03 0.02
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.04 0.03 0.02 0.03
+ 0.03 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.02 0.03 0.03 0.03 0.03 0.03 0.02 0.02
+ 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.03 0.03
+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 1.015252
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========
X DELIVERY POINT RAMARAMA
X CODE
RAMP RAMEXT.V1 = 0.067222
+ 0.07 0.07 0.06 0.07 0.06 0.05 0.05 0.06 0.05 0.02 0.01 0.00
+ 0.00 0.00 0.00 0.01 0.02 0.04 0.03 0.04 0.06 0.05 0.05 0.07
+ 0.07 0.07 0.07 0.06 0.07 0.06 0.06 0.06 0.04 0.01 0.00 0.01
+ 0.00 0.00 0.00 0.01 0.02 0.04 0.04 0.05 0.04 0.05 0.05 0.05
+ 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.04 0.04 0.02 0.01 0.00
+ 0.00 0.01 0.00 0.01 0.02 0.05 0.06 0.07 0.04 0.06 0.07 0.07
+ 0.06 0.05 0.07 0.07 0.06 0.06 0.06 0.06 0.04 0.02 0.00 0.00
+ 0.00 0.00 0.00 0.01 0.01 0.03 0.03 0.02 0.04 0.03 0.02 0.03
+ 0.03 0.02 0.03 0.02 0.04 0.03 0.03 0.04 0.03 0.02 0.01 0.01
+ 0.01 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.02 0.01 0.02
+ 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.03 0.02 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.03 0.03 0.03
+ 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.05 0.03 0.00 0.00 0.00
+ 0.01 0.01 0.00 0.01 0.02 0.02 0.04 0.05 0.03 0.04 0.05 0.04
+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 0.758763
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========
X DELIVERY POINT SOUTHDOWN
X CODE
RAMP SDNEXT.V1 = 10.19111
+ 10.18 10.24 10.21 10.23 10.28 10.25 10.25 10.25 10.69 10.52 10.51 10.54
+ 10.49 10.54 10.52 10.50 10.47 10.47 10.42 10.48 10.52 10.54 10.55 10.52
+ 10.55 10.57 10.56 10.57 10.58 10.57 10.55 10.61 10.60 10.58 10.46 10.36
+ 10.48 10.45 10.47 10.48 10.45 10.47 10.54 10.60 10.60 10.61 10.61 10.60
+ 10.62 10.63 10.65 10.67 10.59 10.65 10.66 10.66 10.65 10.64 10.65 10.67
+ 10.68 10.68 10.66 10.66 10.64 10.67 10.68 10.67 10.67 10.65 10.67 10.64
+ 10.65 10.64 10.63 10.65 10.64 10.63 10.61 10.63 10.62 10.59 10.61 10.63
+ 10.62 10.61 10.36 10.61 10.62 10.63 10.64 10.64 10.64 10.65 10.63 10.64
+ 10.63 10.64 10.57 10.61 10.63 10.66 10.66 10.66 10.66 10.65 10.65 10.64
+ 10.64 10.63 10.62 10.60 10.59 10.56 10.90 10.54 10.54 10.55 10.55 10.55
+ 10.55 10.54 10.54 9.01 6.87 6.09 6.09 6.11 6.89 10.47 10.54 10.53
+ 10.54 10.52 10.53 10.51 10.52 10.53 10.52 7.30 7.17 7.16 7.16 7.15
+ 6.42 6.10 6.11 4.77 3.10 3.09 3.09 4.08 6.72 9.96 10.31 10.61
+ 10.61 10.56 10.60 7.65 7.17 7.29 10.25 10.57 10.56 10.53 10.59 0.00
+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 248.0058
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========

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X DELIVERY POINT     TUAKAU
X CODE
RAMP       TUAEXT.V1 =                0
+              0.00       0.00       0.00       0.00       0.00       0.00       0.05       0.10       0.10       0.11       0.12       0.12
+              0.12       0.15       0.13       0.10       0.09       0.14       0.11       0.08       0.07       0.08       0.11       0.11
+              0.11       0.11       0.14       0.16       0.18       0.14       0.17       0.19       0.15       0.14       0.12       0.13
+              0.10       0.11       0.13       0.10       0.13       0.15       0.14       0.17       0.19       0.18       0.15       0.13
+              0.08       0.08       0.10       0.11       0.10       0.09       0.14       0.19       0.21       0.21       0.22       0.26
+              0.21       0.20       0.19       0.20       0.15       0.20       0.20       0.21       0.20       0.13       0.10       0.10
+              0.10       0.11       0.10       0.13       0.15       0.14       0.22       0.26       0.23       0.17       0.15       0.15
+              0.14       0.15       0.14       0.16       0.15       0.17       0.19       0.20       0.20       0.15       0.10       0.10
+              0.10       0.09       0.06       0.13       0.16       0.18       0.23       0.25       0.21       0.17       0.11       0.09
+              0.09       0.08       0.11       0.18       0.14       0.09       0.10       0.09       0.07       0.10       0.13       0.17
+              0.19       0.20       0.20       0.20       0.19       0.19       0.20       0.21       0.19       0.19       0.16       0.11
+              0.09       0.08       0.09       0.07       0.05       0.01       0.00       0.00       0.00       0.00       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+ TIME=    WEEK
+ MULT=           1
+ ADD =           0
X Weekly Load TJ =     2.764442
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         7 JULY 2008 - 13 JULY 2008
X ============================================================
X DELIVERY POINT     WAITOKI
X CODE
RAMP       WAIEXT.V1 =          0.069167
+              0.05       0.04       0.04       0.05       0.05       0.07       0.14       0.22       0.20       0.17       0.14       0.10
+              0.11       0.10       0.10       0.09       0.12       0.18       0.23       0.22       0.19       0.15       0.10       0.06
+              0.04       0.03       0.03       0.03       0.04       0.06       0.13       0.18       0.20       0.30       0.20       0.12
+              0.11       0.12       0.09       0.09       0.10       0.17       0.24       0.24       0.21       0.17       0.12       0.06
+              0.04       0.04       0.03       0.03       0.04       0.05       0.12       0.23       0.21       0.16       0.12       0.21
+              0.11       0.08       0.08       0.07       0.09       0.16       0.23       0.23       0.21       0.17       0.12       0.06
+              0.04       0.03       0.02       0.02       0.03       0.05       0.11       0.24       0.34       0.31       0.17       0.10
+              0.21       0.22       0.18       0.08       0.15       0.22       0.20       0.19       0.17       0.14       0.09       0.05
+              0.03       0.02       0.02       0.02       0.02       0.04       0.11       0.17       0.19       0.15       0.14       0.14
+              0.11       0.11       0.10       0.10       0.12       0.17       0.19       0.19       0.15       0.13       0.10       0.07
+              0.04       0.03       0.03       0.03       0.03       0.04       0.05       0.07       0.11       0.13       0.13       0.11
+              0.10       0.08       0.08       0.09       0.11       0.14       0.16       0.14       0.11       0.10       0.08       0.05
+              0.03       0.02       0.02       0.02       0.01       0.02       0.03       0.06       0.10       0.12       0.12       0.10
+              0.09       0.08       0.06       0.06       0.07       0.12       0.16       0.16       0.15       0.18       0.12       0.04
+ TIME=    WEEK
+ MULT=           1
+ ADD =           0
X Weekly Load TJ =     2.795278
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         7 JULY 2008 - 13 JULY 2008
X ============================================================
X DELIVERY POINT     WARKWORTH
X CODE
RAMP       WKWEXT.v =          0.328889
+              0.34       0.35       0.33       0.33       0.33       0.38       0.37       0.39       0.25       0.14       0.21       0.21
+              0.23       0.27       0.20       0.16       0.15       0.32       0.08       0.06       0.09       0.12       0.16       0.24
+              0.36       0.35       0.35       0.35       0.37       0.38       0.39       0.40       0.34       0.15       0.23       0.23
+              0.25       0.26       0.25       0.16       0.06       0.35       0.11       0.08       0.22       0.21       0.23       0.36
+              0.37       0.37       0.37       0.36       0.39       0.39       0.39       0.42       0.33       0.18       0.22       0.25
+              0.27       0.28       0.23       0.15       0.05       0.33       0.08       0.04       0.09       0.18       0.26       0.36
+              0.36       0.36       0.34       0.37       0.40       0.39       0.39       0.40       0.34       0.23       0.13       0.19
+              0.21       0.22       0.23       0.16       0.04       0.04       0.06       0.05       0.05       0.06       0.06       0.05
+              0.06       0.09       0.12       0.10       0.13       0.31       0.33       0.15       0.20       0.13       0.19       0.16
+              0.22       0.24       0.24       0.15       0.07       0.11       0.07       0.06       0.07       0.05       0.04       0.06
+              0.05       0.11       0.11       0.10       0.13       0.22       0.27       0.19       0.12       0.20       0.22       0.16
+              0.16       0.16       0.17       0.06       0.05       0.11       0.07       0.05       0.05       0.12       0.12       0.07
+              0.18       0.28       0.28       0.24       0.27       0.33       0.33       0.33       0.17       0.14       0.21       0.24
+              0.26       0.25       0.24       0.14       0.03       0.10       0.08       0.06       0.06       0.09       0.18       0.18
+ TIME=    WEEK
+ MULT=           1
+ ADD =           0
X Weekly Load TJ =     5.190672
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         7 JULY 2008 - 13 JULY 2008
X ============================================================
```

X DELIVERY POINT WESTFIELD
X CODE
RAMP WFDEXT.V1 = 2.2605556
+ 2.03 1.98 1.87 1.70 1.84 2.53 4.71 7.53 8.77 8.37 8.04 7.79
+ 7.62 7.11 6.47 6.32 6.35 7.36 8.12 7.68 6.87 5.80 5.04 3.44
+ 2.82 2.59 2.64 2.38 2.50 3.35 5.06 7.80 9.40 8.55 7.77 7.47
+ 7.00 6.74 6.78 6.15 5.87 6.83 7.59 7.71 7.12 5.72 5.08 3.51
+ 2.88 2.56 2.09 1.99 2.37 2.83 5.08 8.38 9.38 9.40 8.39 7.81
+ 8.05 7.97 7.37 6.69 6.01 6.63 7.72 7.57 7.08 6.19 5.10 3.49
+ 2.69 2.35 2.38 2.31 2.70 3.17 4.95 7.74 9.39 9.03 8.21 7.72
+ 7.69 7.76 7.30 6.48 5.91 6.70 7.56 7.81 7.10 5.73 4.67 3.82
+ 3.25 2.84 2.29 2.24 2.52 3.14 4.66 6.30 7.26 6.91 6.67 6.23
+ 5.90 5.99 5.98 5.70 5.80 6.04 6.51 5.99 5.50 5.18 4.19 3.32
+ 2.73 2.40 2.10 2.16 1.94 1.91 2.17 3.46 4.62 4.75 4.83 4.78
+ 4.74 4.59 4.37 4.33 4.55 4.93 4.86 4.36 3.63 3.13 2.56 1.90
+ 1.32 1.02 0.82 0.78 0.79 0.99 1.64 2.14 3.35 4.55 4.49 4.47
+ 4.28 4.14 3.93 3.47 3.41 3.70 4.26 4.17 3.82 3.20 2.65 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 123.58
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========
X DELIVERY POINT WHANGAREI
X CODE
RAMP WHGEXT.V = 0.077222
+ 0.07 0.07 0.06 0.06 0.07 0.08 0.20 0.21 0.22 0.20 0.19 0.18
+ 0.19 0.19 0.16 0.16 0.18 0.19 0.19 0.18 0.16 0.13 0.11 0.08
+ 0.07 0.07 0.07 0.08 0.09 0.11 0.20 0.22 0.24 0.21 0.20 0.20
+ 0.18 0.19 0.18 0.16 0.18 0.21 0.23 0.22 0.21 0.18 0.14 0.11
+ 0.10 0.10 0.10 0.11 0.11 0.13 0.22 0.24 0.26 0.24 0.22 0.20
+ 0.20 0.19 0.17 0.18 0.17 0.21 0.23 0.22 0.21 0.18 0.14 0.12
+ 0.11 0.11 0.11 0.10 0.10 0.12 0.22 0.26 0.29 0.28 0.25 0.23
+ 0.21 0.20 0.18 0.18 0.18 0.21 0.22 0.21 0.19 0.16 0.12 0.10
+ 0.08 0.08 0.07 0.08 0.07 0.09 0.18 0.19 0.21 0.19 0.18 0.18
+ 0.17 0.17 0.16 0.15 0.15 0.17 0.18 0.17 0.15 0.13 0.11 0.09
+ 0.07 0.07 0.07 0.06 0.07 0.07 0.08 0.10 0.12 0.13 0.13 0.13
+ 0.12 0.11 0.11 0.12 0.13 0.15 0.15 0.14 0.13 0.11 0.09 0.07
+ 0.07 0.06 0.06 0.06 0.07 0.07 0.09 0.11 0.13 0.14 0.12 0.11
+ 0.11 0.10 0.09 0.09 0.10 0.13 0.16 0.16 0.14 0.13 0.10 0.12
+ TIME= WEEK
+ MULT= 1
+ ADD = 0
X Weekly Load TJ = 3.642104
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 JULY 2008 - 13 JULY 2008
X ==========

X DELIVERY POINT AMMONIA UREA PLANT
X CODE
RAMP AUPEXT.V1 = 2.6886111
+ 2.70 2.69 2.67 2.66 2.65 2.65 2.64 2.65 2.66 2.68 2.70 2.68
+ 2.68 2.69 2.69 2.70 2.70 2.70 2.71 2.71 2.69 2.70 2.70 2.70
+ 2.70 2.70 2.69 2.69 2.69 2.69 2.69 2.70 2.66 2.67 2.66 2.66
+ 2.67 2.67 2.67 2.67 2.68 2.68 2.69 2.70 2.70 2.71 2.71 2.72
+ 2.73 2.75 2.74 2.72 2.70 2.68 2.69 2.68 2.68 2.68 2.67 2.67
+ 2.67 2.66 2.66 2.66 2.67 2.67 2.68 2.71 2.70 2.69 2.71 2.70
+ 2.70 2.69 2.70 2.71 2.69 2.70 2.70 2.68 2.49 2.17 2.18 2.17
+ 2.56 2.61 2.62 2.65 2.66 2.68 2.68 2.68 2.67 2.67 2.68 2.68
+ 2.68 2.67 2.67 2.66 2.68 2.68 2.68 2.70 2.79 2.77 2.78 2.78
+ 2.75 2.68 2.66 2.66 2.66 2.67 2.67 2.67 2.65 2.68 2.69 2.69
+ 2.68 2.68 2.67 2.67 2.69 2.68 2.67 2.65 2.63 2.64 2.67 2.65
+ 2.65 2.66 2.67 2.68 2.66 2.66 2.67 2.67 2.66 2.65 2.66 2.65
+ 2.64 2.64 2.65 2.64 2.64 2.64 2.64 2.64 2.65 2.64 2.63 2.64
+ 2.65 2.66 2.64 2.66 2.68 2.70 2.70 2.70 2.70 2.72 2.72 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 63.72
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 July 2008 - 13 July 2008
X ==========
X DELIVERY POINT KAPUNI LACTOSE
X CODE
RAMP LACEXT.V1 = 0.02
+ 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 0.28
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 July 2008 - 13 July 2008
X ==========

X DELIVERY POINT KAPUNI GAS TREATMENT PLANT (BAPASS)
X CODE
RAMP KAMEXT.V1 = 11.53
+ 11.55 11.54 11.53 11.52 11.53 11.52 11.52 11.52 11.52 11.52 11.52 11.51
+ 11.52 11.51 11.51 11.51 11.51 11.51 11.51 11.67 12.43 12.45 12.52 12.52
+ 12.55 12.53 12.53 12.53 12.53 12.52 12.52 12.52 12.52 12.52 12.52 12.52
+ 12.52 12.52 12.52 12.52 12.52 12.52 12.52 12.52 12.52 12.52 12.53 12.52
+ 12.52 12.52 12.52 12.52 12.53 12.52 12.52 12.52 12.52 12.51 12.52 12.51
+ 12.52 12.51 12.52 12.53 12.52 12.52 12.52 12.52 12.53 12.53 12.53 12.53
+ 12.54 12.53 12.53 12.53 12.53 12.26 10.53 10.53 10.54 10.53 10.53 10.52
+ 10.52 10.52 10.52 10.52 10.51 10.50 10.50 10.52 10.53 10.52 10.52 10.53
+ 10.51 10.54 10.53 10.53 10.53 10.53 10.53 10.53 10.52 10.52 9.96 9.52
+ 9.51 9.52 9.52 9.52 9.51 9.51 9.53 9.53 9.53 9.52 9.53 9.53
+ 9.53 9.53 9.52 9.53 9.53 9.53 9.52 9.52 9.52 9.52 9.52 9.52
+ 9.52 9.52 8.74 8.53 8.53 8.39 7.73 7.53 7.53 7.53 7.53 7.53
+ 7.53 7.53 7.53 7.53 7.53 6.57 5.26 5.04 5.04 5.04 5.04 5.04
+ 5.04 5.04 4.95 4.53 4.54 4.53 4.54 4.54 4.54 4.54 4.54 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 246.68
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 July 2008 - 13 July 2008
X ==========
X DELIVERY POINT TARANIKI COMBINED CYCLE POWER STATION
X CODE
RAMP TCCEXT.V1 = 15.14
+ 10.00 9.87 9.92 9.91 9.90 12.48 17.60 19.07 19.02 18.99 19.04 19.04
+ 19.06 19.08 19.07 19.12 19.21 19.24 19.26 19.30 19.40 19.42 16.64 16.52
+ 13.13 11.56 11.34 11.35 11.36 11.44 14.53 19.46 19.45 19.40 19.40 19.50
+ 19.45 18.79 20.09 18.82 19.48 19.54 19.61 19.58 19.59 19.59 16.91 16.71
+ 15.44 14.02 14.02 14.02 14.02 14.10 15.70 19.18 19.58 19.53 19.52 19.54
+ 19.47 19.47 19.47 19.48 19.54 19.59 19.57 19.61 19.60 19.63 18.42 16.73
+ 11.49 10.04 10.08 10.07 10.08 10.09 11.34 14.55 14.16 10.35 10.02 7.84
+ 10.48 12.67 13.37 11.36 15.58 19.29 19.48 19.53 19.45 19.44 17.83 13.88
+ 16.08 13.94 13.78 13.79 13.80 13.80 13.80 13.77 18.40 19.12 19.14 19.00
+ 18.97 19.01 19.00 18.98 18.93 18.90 18.88 18.87 18.85 18.87 16.40 11.35
+ 11.58 10.15 10.61 10.69 9.89 9.90 10.02 10.23 13.73 18.87 18.86 18.85
+ 18.82 18.77 16.18 18.29 18.54 18.89 18.50 15.92 15.21 14.02 14.48 13.16
+ 9.95 9.90 9.89 9.90 9.89 11.41 11.25 12.06 13.84 15.37 13.94 13.90
+ 12.76 11.55 12.66 12.18 13.46 17.86 18.20 17.38 17.20 16.70 14.79 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 375.71
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 7 July 2008 - 13 July 2008
X ==========

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X DELIVERY POINT      CAMBRIDGE
X CODE
RAMP       CAMEXT.V1          =  0.3905556
+              0.39      0.43      0.47      0.40      0.35      0.40      0.47      0.59      0.61      0.59      0.55      0.55
+              0.48      0.41      0.41      0.37      0.29      0.32      0.36      0.40      0.38      0.38      0.33      0.29
+              0.27      0.37      0.39      0.37      0.35      0.42      0.46      0.59      0.58      0.56      0.59      0.59
+              0.48      0.49      0.47      0.54      0.55      0.58      0.64      0.59      0.57      0.55      0.48      0.48
+              0.47      0.42      0.43      0.36      0.27      0.33      0.40      0.55      0.52      0.56      0.56      0.52
+              0.54      0.48      0.48      0.51      0.54      0.61      0.55      0.52      0.49      0.52      0.53      0.47
+              0.52      0.50      0.49      0.49      0.53      0.53      0.50      0.49      0.44      0.41      0.35      0.48
+              0.50      0.44      0.42      0.43      0.34      0.35      0.40      0.48      0.51      0.38      0.48      0.45
+              0.49      0.50      0.53      0.48      0.47      0.51      0.56      0.57      0.54      0.57      0.56      0.54
+              0.57      0.61      0.61      0.60      0.63      0.64      0.62      0.60      0.59      0.56      0.53      0.51
+              0.53      0.53      0.42      0.40      0.25      0.26      0.36      0.37      0.49      0.53      0.53      0.57
+              0.48      0.55      0.48      0.46      0.49      0.59      0.66      0.64      0.59      0.59      0.55      0.54
+              0.49      0.49      0.46      0.53      0.52      0.50      0.48      0.53      0.54      0.51      0.52      0.50
+              0.48      0.42      0.53      0.56      0.51      0.53      0.53      0.51      0.46      0.47      0.39      0.00
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          12.12
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          11 August 2008 - 17 August 2008
X ======================================================
X DELIVERY POINT      HOROTIU
X CODE
RAMP       HTEEXT.V1 =           0.00
+              0.00      0.00      0.05      0.06      0.13      0.12      0.14      0.14      0.17      0.13      0.17      0.27
+              0.21      0.19      0.20      0.13      0.10      0.02      0.04      0.02      0.01      0.01      0.00      0.00
+              0.00      0.00      0.00      0.01      0.12      0.16      0.17      0.15      0.20      0.28      0.26      0.30
+              0.06      0.30      0.26      0.26      0.14      0.02      0.02      0.03      0.03      0.02      0.01      0.00
+              0.00      0.00      0.00      0.02      0.12      0.16      0.21      0.18      0.20      0.28      0.25      0.25
+              0.27      0.26      0.28      0.10      0.10      0.02      0.01      0.03      0.02      0.01      0.00      0.00
+              0.00      0.00      0.00      0.01      0.12      0.16      0.17      0.14      0.26      0.28      0.21      0.26
+              0.27      0.26      0.24      0.19      0.14      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.01      0.11      0.15      0.17      0.16      0.18      0.20      0.27      0.32
+              0.30      0.24      0.24      0.23      0.21      0.13      0.13      0.13      0.05      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.05      0.15      0.15      0.11      0.07      0.05      0.01      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          2.13
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          11 August 2008 - 17 August 2008
X ======================================================
X DELIVERY POINT      KIWITAHI (KIWI FERTILISER)
X CODE
RAMP       KIWEXT.V1 =           0.00
+              0.00      0.00      0.00      0.00      0.00      0.01      0.02      0.01      0.01      0.01      0.02      0.00
+              0.01      0.02      0.00      0.00      0.02      0.01      0.01      0.00      0.01      0.01      0.00      0.01
+              0.00      0.00      0.00      0.00      0.01      0.00      0.00      0.00      0.00      0.00      0.01      0.00
+              0.00      0.00      0.00      0.02      0.01      0.00      0.02      0.01      0.01      0.02      0.01      0.01
+              0.02      0.01      0.00      0.00      0.00      0.00      0.01      0.00      0.00      0.01      0.02      0.00
+              0.02      0.01      0.00      0.02      0.01      0.01      0.02      0.00      0.01      0.01      0.00      0.02
+              0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.02      0.00      0.01      0.02
+              0.00      0.01      0.01      0.00      0.01      0.00      0.01      0.01      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.02      0.00      0.01      0.02
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.13
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          11 August 2008 - 17 August 2008
X ======================================================
```

```
X DELIVERY POINT     KIWITAHI (PEROXIDE)
X CODE
RAMP       DUPEXT.V1 =              0.28
+                0.28       0.27       0.28       0.28       0.28       0.27       0.27       0.26       0.27       0.27       0.27       0.27
+                0.27       0.26       0.27       0.26       0.27       0.27       0.29       0.29       0.29       0.28       0.29       0.28
+                0.28       0.28       0.28       0.27       0.28       0.28       0.27       0.28       0.27       0.26       0.27       0.27
+                0.26       0.27       0.27       0.29       0.28       0.28       0.29       0.28       0.28       0.27       0.27       0.27
+                0.27       0.28       0.28       0.28       0.27       0.27       0.27       0.27       0.26       0.27       0.26       0.27
+                0.28       0.29       0.29       0.28       0.29       0.28       0.28       0.27       0.28       0.28       0.27       0.28
+                0.27       0.28       0.28       0.27       0.26       0.27       0.27       0.27       0.27       0.26       0.27       0.27
+                0.27       0.27       0.27       0.27       0.29       0.29       0.29       0.28       0.28       0.28       0.28       0.27
+                0.28       0.28       0.28       0.27       0.28       0.27       0.27       0.27       0.27       0.27       0.11       0.03
+                0.09       0.15       0.19       0.21       0.25       0.26       0.26       0.26       0.26       0.26       0.26       0.25
+                0.25       0.25       0.25       0.25       0.25       0.26       0.25       0.24       0.25       0.24       0.25       0.25
+                0.26       0.25       0.25       0.24       0.25       0.25       0.25       0.24       0.25       0.25       0.25       0.24
+                0.25       0.25       0.24       0.25       0.24       0.25       0.24       0.25       0.25       0.26       0.26       0.26
+                0.26       0.27       0.27       0.27       0.28       0.28       0.29       0.28       0.28       0.28       0.28       0.27
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          6.59
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          11 August 2008 - 17 August 2008
X ========================================================
X DELIVERY POINT     MORRINSVILLE
X CODE
RAMP       MDIEXT.V1 =              0.03
+                0.03       0.03       0.03       0.03       0.03       0.04       0.09       0.10       0.09       0.06       0.04       0.03
+                0.04       0.06       0.06       0.06       0.06       0.10       0.13       0.11       0.09       0.08       0.05       0.04
+                0.04       0.03       0.03       0.03       0.03       0.03       0.08       0.08       0.07       0.05       0.05       0.05
+                0.05       0.05       0.04       0.04       0.05       0.07       0.10       0.08       0.07       0.05       0.04       0.03
+                0.03       0.03       0.02       0.02       0.02       0.02       0.07       0.08       0.07       0.04       0.04       0.04
+                0.04       0.03       0.05       0.05       0.06       0.08       0.11       0.09       0.07       0.06       0.04       0.03
+                0.02       0.02       0.01       0.02       0.02       0.05       0.09       0.10       0.08       0.05       0.03       0.03
+                0.03       0.03       0.03       0.04       0.04       0.07       0.11       0.08       0.07       0.06       0.04       0.03
+                0.03       0.03       0.03       0.03       0.03       0.03       0.07       0.08       0.07       0.05       0.04       0.04
+                0.05       0.06       0.04       0.04       0.06       0.08       0.10       0.07       0.07       0.05       0.04       0.03
+                0.01       0.01       0.01       0.01       0.01       0.02       0.02       0.04       0.06       0.06       0.05       0.04
+                0.04       0.05       0.05       0.06       0.06       0.07       0.07       0.07       0.06       0.05       0.04       0.03
+                0.03       0.02       0.02       0.02       0.02       0.02       0.03       0.04       0.05       0.07       0.07       0.07
+                0.07       0.06       0.05       0.05       0.06       0.07       0.07       0.07       0.06       0.05       0.04       0.01
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          1.23
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          11 August 2008 - 17 August 2008
X ========================================================
X DELIVERY POINT     MORRINSVILLE DAIRY FACTORY
X CODE
RAMP       MDFEXT.V1 =              0.04
+                0.03       0.02       0.03       0.02       0.02       0.03       0.07       0.06       0.06       0.05       0.05       0.07
+                0.06       0.06       0.07       0.07       0.09       0.06       0.00       0.00       0.00       0.00       0.00       0.00
+                0.00       0.00       0.00       0.07       0.05       0.03       0.03       0.03       0.05       0.06       0.08       0.07
+                0.07       0.12       0.09       0.08       0.07       0.02       0.00       0.00       0.00       0.00       0.00       0.01
+                0.00       0.00       0.00       0.04       0.03       0.06       0.05       0.03       0.03       0.04       0.07       0.07
+                0.06       0.03       0.07       0.09       0.03       0.07       0.05       0.03       0.03       0.03       0.02       0.00
+                0.00       0.00       0.01       0.03       0.03       0.03       0.03       0.03       0.02       0.10       0.12       0.18
+                0.23       0.30       0.24       0.23       0.24       0.11       0.09       0.09       0.09       0.08       0.09       0.06
+                0.02       0.03       0.03       0.02       0.03       0.03       0.02       0.03       0.03       0.04       0.07       0.03
+                0.11       0.13       0.19       0.22       0.22       0.23       0.23       0.23       0.06       0.02       0.03       0.03
+                0.03       0.03       0.03       0.03       0.02       0.03       0.03       0.03       0.04       0.10       0.04       0.05
+                0.06       0.10       0.08       0.02       0.05       0.03       0.03       0.03       0.03       0.03       0.05       0.04
+                0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.06       0.05       0.07       0.06
+                0.11       0.10       0.09       0.09       0.04       0.03       0.02       0.02       0.03       0.03       0.02       0.56
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          1.47
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          11 August 2008 - 17 August 2008
X ========================================================
```

X DELIVERY POINT TATUANUI
X CODE
RAMP TATEXT.V1 = 0.25
+ 0.22 0.22 0.24 0.22 0.22 0.21 0.21 0.20 0.23 0.21 0.14 0.10
+ 0.12 0.13 0.14 0.13 0.21 0.23 0.24 0.25 0.23 0.22 0.22 0.21
+ 0.21 0.21 0.20 0.19 0.23 0.19 0.16 0.11 0.14 0.17 0.23 0.23
+ 0.29 0.29 0.27 0.25 0.25 0.25 0.24 0.22 0.23 0.26 0.24 0.21
+ 0.19 0.22 0.22 0.22 0.25 0.24 0.22 0.22 0.21 0.21 0.14 0.16
+ 0.15 0.15 0.24 0.21 0.21 0.21 0.21 0.20 0.22 0.21 0.22 0.22
+ 0.22 0.24 0.23 0.21 0.25 0.25 0.21 0.21 0.21 0.24 0.29 0.31
+ 0.22 0.19 0.15 0.12 0.13 0.11 0.09 0.10 0.10 0.11 0.11 0.10
+ 0.10 0.11 0.09 0.10 0.10 0.13 0.11 0.11 0.14 0.27 0.29 0.31
+ 0.24 0.30 0.27 0.25 0.24 0.25 0.24 0.23 0.23 0.24 0.24 0.25
+ 0.22 0.22 0.24 0.25 0.25 0.24 0.18 0.16 0.16 0.19 0.25 0.27
+ 0.23 0.21 0.26 0.23 0.24 0.23 0.23 0.28 0.27 0.26 0.27 0.27
+ 0.27 0.27 0.22 0.20 0.23 0.24 0.25 0.24 0.19 0.18 0.16 0.21
+ 0.25 0.23 0.26 0.23 0.20 0.22 0.22 0.22 0.21 0.21 0.22 0.25
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 5.25
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 11 August 2008 - 17 August 2008
X ==========
X DELIVERY POINT HAMILTON TE KOWHAI
X CODE
RAMP TKWEXT.V1 = 0.8113889
+ 0.77 0.76 0.74 0.74 0.78 0.86 1.19 1.73 1.54 1.24 1.06 0.97
+ 0.94 0.94 0.90 0.88 0.88 1.09 1.39 1.35 1.30 1.13 0.92 0.82
+ 0.77 0.73 0.71 0.69 0.70 0.69 0.92 1.31 1.16 1.02 0.97 0.93
+ 0.84 0.78 0.82 0.86 0.94 1.17 1.40 1.37 1.26 1.15 0.92 0.80
+ 0.76 0.75 0.73 0.71 0.73 0.77 1.07 1.53 1.35 1.14 1.00 0.99
+ 0.98 0.98 1.00 0.96 0.98 1.28 1.51 1.48 1.40 1.25 1.03 0.89
+ 0.84 0.82 0.80 0.77 0.78 0.81 1.12 1.51 1.34 1.18 1.10 1.00
+ 0.99 0.96 0.93 0.97 0.97 1.11 1.39 1.42 1.34 1.23 1.07 0.95
+ 0.93 0.89 0.88 0.89 0.90 0.87 1.08 1.42 1.27 1.17 1.10 1.10
+ 1.05 1.02 0.97 0.98 1.11 1.28 1.38 1.36 1.27 1.18 1.06 0.96
+ 0.95 0.88 0.81 0.79 0.73 0.77 0.78 0.92 1.05 1.03 1.00 0.95
+ 0.89 0.88 0.87 0.87 0.86 0.99 1.18 1.19 1.11 1.05 0.98 0.87
+ 0.84 0.80 0.78 0.77 0.74 0.74 0.79 0.81 0.94 1.05 1.03 1.00
+ 0.96 0.94 0.96 0.97 1.01 1.24 1.30 1.28 1.20 1.06 0.89 0.55
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 25.27
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 11 August 2008 - 17 August 2008
X ==========
X DELIVERY POINT TE RAPA COGEN
X CODE
RAMP TRCEXT.V1 = 3.60
+ 3.68 3.64 3.54 3.57 3.54 3.68 4.43 5.69 5.59 5.55 5.58 5.41
+ 4.94 4.87 5.46 6.19 5.57 3.80 3.93 3.87 3.81 3.81 3.80 3.80
+ 3.83 3.90 3.86 3.98 3.91 3.85 3.84 3.79 3.97 3.82 3.92 3.75
+ 3.69 3.67 3.67 3.72 3.73 3.82 4.03 4.01 3.91 3.79 3.77 3.79
+ 3.77 3.78 3.79 3.79 3.82 3.84 3.76 3.82 3.78 3.74 3.73 3.74
+ 3.17 2.68 5.25 5.61 6.43 4.00 3.77 3.74 3.77 3.87 4.00 3.92
+ 3.90 3.93 4.08 4.05 4.02 4.15 4.00 3.99 4.05 4.00 3.97 3.96
+ 3.95 3.85 3.81 3.84 3.82 3.82 3.84 3.76 3.81 3.93 3.79 3.90
+ 3.88 3.97 3.90 3.89 3.89 3.91 3.88 3.90 3.84 3.72 3.77 3.75
+ 3.71 3.69 3.69 3.74 3.70 3.71 3.72 3.76 3.74 3.70 3.71 3.75
+ 3.78 4.05 4.10 4.10 4.04 4.00 3.93 3.93 3.91 3.75 3.72 3.66
+ 3.66 3.68 3.68 3.73 3.70 3.73 3.76 3.78 3.77 3.86 3.94 3.91
+ 4.03 4.10 4.08 4.01 3.98 3.99 3.90 3.83 3.83 3.90 3.95 3.81
+ 3.94 4.05 3.93 3.91 3.88 3.80 3.79 3.78 3.80 3.79 3.78 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 98.77
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 11 August 2008 - 17 August 2008
X ==========

X DELIVERY POINT HAMILTON TEMPLE VIEW
X CODE
RAMP HAMEXT.V: = 0.48
+ 0.31 0.24 0.23 0.27 0.37 0.55 1.25 2.08 1.85 1.50 1.19 0.92
+ 0.81 0.70 0.62 0.63 0.78 1.27 1.77 1.72 1.59 1.30 0.76 0.32
+ 0.15 0.14 0.10 0.07 0.13 0.38 1.04 1.61 1.40 1.23 1.11 1.09
+ 0.83 0.68 0.68 0.84 0.97 1.34 1.65 1.63 1.47 1.25 0.85 0.44
+ 0.27 0.23 0.25 0.24 0.26 0.44 1.13 1.78 1.52 1.19 0.94 0.86
+ 0.96 0.84 1.00 0.90 0.98 1.45 1.80 1.75 1.58 1.36 0.89 0.40
+ 0.23 0.16 0.15 0.11 0.16 0.43 1.09 1.74 1.51 1.27 1.03 0.80
+ 0.84 0.65 0.56 0.62 0.75 1.16 1.59 1.66 1.52 1.28 0.78 0.33
+ 0.12 0.08 0.08 0.00 0.02 0.29 0.99 1.61 1.40 1.10 0.94 0.89
+ 0.87 0.67 0.52 0.53 1.01 1.37 1.55 1.45 1.28 1.02 0.62 0.24
+ 0.03 0.00 0.00 0.00 0.00 0.05 0.43 0.87 1.07 1.02 0.79 0.58
+ 0.41 0.43 0.46 0.64 0.71 1.09 1.39 1.40 1.25 1.11 0.80 0.47
+ 0.23 0.13 0.10 0.01 0.01 0.10 0.31 0.68 1.05 1.28 1.23 1.18
+ 1.11 1.11 1.20 1.24 1.31 1.57 1.67 1.63 1.48 1.18 0.73 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 21.08
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 11 August 2008 - 17 August 2008
X ==========
X DELIVERY POINT WAITOA
X CODE
RAMP WTAEXT.V: = 0.31
+ 0.32 0.32 0.31 0.31 0.28 0.29 0.31 0.34 0.32 0.32 0.33 0.28
+ 0.25 0.27 0.29 0.30 0.32 0.36 0.37 0.38 0.38 0.39 0.38 0.35
+ 0.38 0.39 0.37 0.39 0.35 0.34 0.33 0.37 0.36 0.35 0.33 0.28
+ 0.31 0.29 0.30 0.31 0.34 0.35 0.35 0.36 0.33 0.36 0.37 0.37
+ 0.41 0.42 0.39 0.37 0.33 0.37 0.38 0.36 0.34 0.31 0.26 0.25
+ 0.26 0.26 0.26 0.28 0.32 0.34 0.36 0.36 0.36 0.39 0.41 0.41
+ 0.42 0.41 0.40 0.38 0.35 0.37 0.36 0.39 0.38 0.35 0.30 0.27
+ 0.28 0.27 0.32 0.32 0.33 0.33 0.33 0.33 0.34 0.37 0.38 0.36
+ 0.39 0.40 0.39 0.41 0.38 0.36 0.32 0.35 0.35 0.30 0.30 0.33
+ 0.32 0.29 0.31 0.32 0.36 0.36 0.38 0.38 0.37 0.40 0.39 0.37
+ 0.40 0.40 0.39 0.38 0.35 0.31 0.26 0.25 0.27 0.26 0.25 0.26
+ 0.26 0.23 0.22 0.21 0.20 0.22 0.28 0.29 0.29 0.24 0.22 0.22
+ 0.20 0.20 0.20 0.22 0.22 0.23 0.21 0.20 0.21 0.19 0.21 0.22
+ 0.21 0.18 0.13 0.29 0.19 0.22 0.25 0.23 0.24 0.23 0.23 0.04
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 7.87
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 11 August 2008 - 17 August 2008
X ==========

```
X DELIVERY POINT      ELTHAM
X CODE
RAMP      ELTEXT.V1          =  0.0941667
+              0.09      0.10      0.10      0.10      0.12      0.17      0.20      0.22      0.21      0.20      0.20      0.20
+              0.19      0.19      0.18      0.18      0.19      0.20      0.18      0.17      0.12      0.12      0.13      0.11
+              0.10      0.10      0.10      0.09      0.13      0.16      0.19      0.22      0.20      0.24      0.25      0.22
+              0.20      0.21      0.20      0.18      0.19      0.22      0.20      0.20      0.15      0.13      0.12      0.11
+              0.10      0.11      0.11      0.11      0.12      0.18      0.20      0.24      0.23      0.25      0.23      0.23
+              0.20      0.24      0.21      0.19      0.19      0.21      0.22      0.20      0.12      0.13      0.11      0.10
+              0.11      0.11      0.12      0.11      0.13      0.19      0.22      0.24      0.24      0.27      0.23      0.23
+              0.23      0.22      0.20      0.19      0.19      0.20      0.21      0.21      0.13      0.12      0.11      0.11
+              0.11      0.09      0.09      0.10      0.12      0.21      0.24      0.26      0.25      0.26      0.22      0.22
+              0.21      0.23      0.22      0.19      0.21      0.21      0.20      0.18      0.12      0.11      0.11      0.10
+              0.10      0.09      0.09      0.09      0.11      0.19      0.20      0.21      0.21      0.22      0.20      0.18
+              0.20      0.19      0.18      0.17      0.19      0.19      0.19      0.18      0.13      0.11      0.10      0.09
+              0.08      0.09      0.09      0.09      0.11      0.15      0.18      0.20      0.19      0.22      0.22      0.20
+              0.20      0.19      0.17      0.17      0.14      0.16      0.15      0.12      0.08      0.07      0.06      0.07
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          4.04
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 June 2009 - 21 June 2009
X ======================================================
X DELIVERY POINT      INGLEWOOD
X CODE
RAMP      INGEXT.V1 =           0.01
+              0.00      0.00      0.00      0.00      0.00      0.02      0.04      0.07      0.06      0.06      0.04      0.04
+              0.03      0.02      0.01      0.01      0.02      0.05      0.05      0.05      0.05      0.04      0.02      0.01
+              0.01      0.00      0.01      0.00      0.00      0.03      0.05      0.07      0.07      0.06      0.05      0.05
+              0.04      0.04      0.04      0.03      0.04      0.06      0.07      0.07      0.05      0.04      0.03      0.01
+              0.01      0.01      0.01      0.01      0.01      0.02      0.05      0.09      0.09      0.08      0.06      0.05
+              0.03      0.02      0.02      0.02      0.04      0.06      0.07      0.07      0.06      0.05      0.03      0.02
+              0.01      0.01      0.01      0.01      0.01      0.03      0.06      0.09      0.09      0.08      0.05      0.06
+              0.04      0.03      0.02      0.02      0.04      0.06      0.07      0.06      0.06      0.05      0.03      0.02
+              0.01      0.01      0.01      0.01      0.01      0.03      0.05      0.09      0.09      0.08      0.06      0.05
+              0.04      0.04      0.02      0.02      0.04      0.06      0.06      0.06      0.05      0.04      0.03      0.01
+              0.01      0.01      0.01      0.01      0.01      0.01      0.02      0.05      0.06      0.05      0.03      0.03
+              0.03      0.02      0.02      0.03      0.04      0.06      0.06      0.05      0.05      0.04      0.03      0.02
+              0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.02      0.04      0.04      0.03      0.02
+              0.02      0.02      0.01      0.02      0.04      0.05      0.06      0.06      0.05      0.04      0.02      0.01
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.84
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 June 2009 - 21 June 2009
X ======================================================
X DELIVERY POINT      NEW PLYMOUTH
X CODE
RAMP      NPGEXT.V1 =           0.54
+              0.48      0.36      0.37      0.39      0.38      0.46      0.73      1.18      1.24      1.06      0.87      0.79
+              0.76      0.78      0.79      0.80      0.98      1.20      1.39      1.33      1.22      1.07      0.83      0.61
+              0.51      0.48      0.44      0.48      0.45      0.52      0.84      1.33      1.34      1.17      1.01      0.92
+              0.88      0.88      0.79      0.83      0.99      1.29      1.62      1.66      1.54      1.36      1.01      0.73
+              0.64      0.58      0.55      0.57      0.61      0.68      0.97      1.57      1.76      1.53      1.28      1.10
+              0.99      0.90      0.80      0.84      1.00      1.33      1.63      1.66      1.58      1.40      1.09      0.78
+              0.68      0.62      0.58      0.60      0.61      0.67      0.97      1.57      1.78      1.50      1.23      1.05
+              0.90      0.85      0.77      0.83      1.00      1.31      1.59      1.61      1.52      1.37      1.05      0.80
+              0.68      0.63      0.61      0.62      0.62      0.69      1.01      1.54      1.80      1.51      1.19      0.97
+              0.82      0.81      0.82      0.81      0.90      1.19      1.37      1.33      1.26      1.14      0.91      0.70
+              0.52      0.49      0.41      0.43      0.41      0.46      0.53      0.77      1.06      1.08      0.88      0.75
+              0.64      0.58      0.57      0.59      0.77      1.17      1.35      1.24      1.13      1.03      0.86      0.64
+              0.52      0.45      0.41      0.41      0.39      0.42      0.50      0.74      1.03      1.18      1.00      0.84
+              0.70      0.61      0.59      0.61      0.80      1.18      1.44      1.42      1.26      1.08      0.83      0.56
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =         22.47
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 June 2009 - 21 June 2009
X ======================================================
```

```
X DELIVERY POINT     STRATFORD
X CODE
RAMP       SFDEXT.V1 =              0.03
+                0.03       0.03       0.02       0.02       0.03       0.05       0.10       0.16       0.15       0.12       0.10       0.10
+                0.09       0.11       0.08       0.09       0.09       0.14       0.13       0.12       0.11       0.10       0.07       0.05
+                0.06       0.08       0.05       0.03       0.04       0.07       0.10       0.13       0.14       0.14       0.11       0.10
+                0.10       0.12       0.10       0.10       0.11       0.15       0.14       0.13       0.14       0.11       0.08       0.05
+                0.08       0.07       0.04       0.04       0.05       0.08       0.13       0.17       0.17       0.15       0.13       0.10
+                0.08       0.10       0.09       0.09       0.10       0.13       0.16       0.15       0.12       0.09       0.06       0.04
+                0.04       0.06       0.05       0.04       0.05       0.07       0.12       0.16       0.17       0.15       0.13       0.11
+                0.09       0.09       0.09       0.10       0.11       0.13       0.13       0.14       0.14       0.12       0.08       0.07
+                0.07       0.06       0.06       0.06       0.05       0.08       0.12       0.17       0.18       0.15       0.12       0.10
+                0.11       0.09       0.08       0.08       0.09       0.10       0.11       0.11       0.10       0.08       0.06       0.05
+                0.04       0.04       0.03       0.03       0.04       0.04       0.05       0.08       0.11       0.11       0.10       0.09
+                0.08       0.08       0.09       0.09       0.10       0.12       0.12       0.12       0.11       0.09       0.07       0.05
+                0.04       0.04       0.04       0.04       0.04       0.04       0.05       0.07       0.10       0.10       0.08       0.07
+                0.06       0.06       0.06       0.06       0.10       0.11       0.14       0.11       0.10       0.08       0.06       0.04
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          2.18
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 June 2009 - 21 June 2009
X ============================================================
X DELIVERY POINT     WAITARA
X CODE
RAMP       WIGEXT.V1 =              0.04
+                0.03       0.03       0.04       0.05       0.04       0.05       0.07       0.09       0.09       0.11       0.08       0.08
+                0.07       0.07       0.07       0.07       0.10       0.13       0.14       0.12       0.11       0.09       0.06       0.04
+                0.04       0.04       0.03       0.05       0.04       0.05       0.07       0.10       0.10       0.10       0.08       0.08
+                0.07       0.07       0.07       0.09       0.11       0.15       0.16       0.14       0.14       0.12       0.09       0.07
+                0.06       0.06       0.05       0.07       0.07       0.07       0.10       0.14       0.16       0.15       0.11       0.09
+                0.08       0.07       0.07       0.08       0.11       0.14       0.17       0.17       0.14       0.12       0.11       0.07
+                0.06       0.06       0.06       0.07       0.07       0.08       0.11       0.14       0.15       0.12       0.10       0.09
+                0.08       0.07       0.07       0.09       0.12       0.15       0.17       0.16       0.16       0.14       0.12       0.09
+                0.07       0.07       0.07       0.08       0.08       0.09       0.12       0.15       0.17       0.15       0.10       0.10
+                0.08       0.08       0.08       0.10       0.13       0.16       0.16       0.15       0.15       0.13       0.11       0.09
+                0.07       0.07       0.07       0.06       0.07       0.07       0.09       0.10       0.12       0.11       0.10       0.08
+                0.08       0.07       0.07       0.07       0.10       0.13       0.14       0.13       0.12       0.11       0.10       0.08
+                0.07       0.06       0.06       0.06       0.06       0.06       0.08       0.09       0.11       0.11       0.09       0.08
+                0.07       0.06       0.06       0.07       0.10       0.14       0.15       0.14       0.12       0.10       0.08       0.07
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          2.29
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 June 2009 - 21 June 2009
X ============================================================
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X DELIVERY POINT BROADLANDS
X CODE
RAMP BRDEXT.V1 = 0.01

+	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.07	0.08	0.08	0.08	0.09
+	0.08	0.07	0.08	0.14	0.16	0.12	0.07	0.07	0.07	0.07	0.07	0.07
+	0.07	0.07	0.07	0.07	0.04	0.03	0.02	0.04	0.07	0.08	0.08	0.07
+	0.07	0.07	0.07	0.11	0.07	0.10	0.07	0.07	0.07	0.07	0.07	0.07
+	0.09	0.12	0.14	0.17	0.17	0.14	0.12	0.07	0.07	0.09	0.10	0.11
+	0.11	0.09	0.07	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07
+	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08
+	0.08	0.08	0.08	0.10	0.12	0.09	0.07	0.07	0.07	0.07	0.08	0.07
+	0.11	0.08	0.13	0.08	0.07	0.09	0.07	0.07	0.07	0.08	0.10	0.10
+	0.08	0.11	0.09	0.08	0.11	0.08	0.07	0.07	0.07	0.07	0.07	0.07
+	0.07	0.06	0.08	0.07	0.07	0.07	0.06	0.03	0.06	0.08	0.07	0.09
+	0.09	0.11	0.08	0.09	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07
+	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.03	0.08	0.08	0.10	0.11
+	0.11	0.11	0.10	0.08	0.07	0.07	0.07	0.01	0.02	0.05	0.05	0.00

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 1.88
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==
X DELIVERY POINT Edgecume DF
X CODE
RAMP EDFEXT.V1 = 0.90

+	0.83	0.81	0.87	0.93	0.94	0.99	0.97	0.94	0.90	0.89	0.84	0.74
+	0.69	0.64	0.73	0.86	0.91	0.91	0.89	0.92	0.96	1.05	1.04	1.17
+	1.07	1.09	1.04	1.06	1.11	1.10	1.14	1.11	1.06	1.06	1.04	1.03
+	1.07	1.11	1.10	1.11	1.12	1.15	1.10	1.06	1.02	1.06	1.10	1.12
+	1.10	1.06	1.09	1.07	1.06	1.14	1.16	1.06	1.01	1.00	1.00	0.98
+	0.92	0.96	0.98	1.02	1.03	1.14	1.14	1.02	0.99	0.98	1.06	1.02
+	1.01	1.04	0.99	1.03	1.02	0.92	0.85	0.75	0.71	0.69	0.73	0.75
+	0.79	0.81	0.78	0.84	0.86	0.92	0.97	1.07	1.03	1.07	1.02	1.01
+	1.03	1.04	1.02	0.96	0.94	0.89	0.98	1.03	1.04	1.05	1.09	1.05
+	1.06	1.05	1.03	1.04	0.92	1.02	1.07	1.08	1.09	1.07	1.07	1.10
+	1.08	1.07	1.11	1.08	1.03	1.05	1.07	1.08	1.05	1.05	0.98	0.85
+	0.96	1.05	0.98	1.07	1.11	1.11	1.07	1.08	1.11	1.11	1.11	1.11
+	1.12	1.10	1.08	1.03	1.06	1.05	1.06	1.11	1.06	0.98	1.01	1.01
+	0.94	0.93	0.90	0.92	0.91	0.95	0.93	0.90	0.94	0.93	0.97	0.00

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 24.54
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==
X DELIVERY POINT Edgecume
X CODE
RAMP EDGEXT.V1 = 0.00

+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 0.00
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==

```
X DELIVERY POINT     Gisborne
X CODE
RAMP       GSBEXT.V1 =              0.22
+                0.17       0.16       0.16       0.18       0.17       0.19       0.30       0.46       0.44       0.36       0.33       0.34
+                0.29       0.30       0.29       0.28       0.26       0.33       0.50       0.40       0.36       0.31       0.26       0.24
+                0.24       0.22       0.23       0.23       0.19       0.12       0.23       0.37       0.36       0.30       0.25       0.22
+                0.22       0.27       0.22       0.21       0.19       0.22       0.34       0.32       0.27       0.27       0.25       0.25
+                0.21       0.21       0.23       0.26       0.24       0.25       0.34       0.45       0.41       0.37       0.33       0.26
+                0.22       0.25       0.27       0.22       0.20       0.24       0.30       0.30       0.26       0.21       0.16       0.13
+                0.13       0.09       0.09       0.11       0.14       0.13       0.23       0.39       0.45       0.36       0.27       0.20
+                0.21       0.19       0.21       0.21       0.22       0.25       0.28       0.26       0.22       0.20       0.17       0.21
+                0.21       0.21       0.24       0.23       0.23       0.25       0.39       0.49       0.42       0.36       0.24       0.22
+                0.19       0.19       0.18       0.26       0.17       0.19       0.23       0.23       0.21       0.18       0.16       0.13
+                0.11       0.10       0.11       0.09       0.10       0.13       0.16       0.20       0.23       0.19       0.16       0.15
+                0.17       0.14       0.13       0.13       0.16       0.19       0.22       0.19       0.18       0.18       0.14       0.13
+                0.12       0.09       0.08       0.10       0.10       0.10       0.14       0.19       0.21       0.20       0.17       0.17
+                0.16       0.13       0.13       0.12       0.15       0.19       0.22       0.22       0.19       0.15       0.15       0.23
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          5.56
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     KAWERAU
X CODE
RAMP       KAWEXT.V. =              0.01
+                0.00       0.00       0.00       0.01       0.00       0.01       0.02       0.02       0.02       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.02       0.02       0.02       0.01       0.01       0.01       0.01       0.01
+                0.00       0.00       0.00       0.00       0.00       0.01       0.02       0.02       0.02       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.00       0.01       0.01       0.00       0.01       0.03       0.03       0.02       0.02       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.02       0.01       0.01       0.01       0.01       0.01
+                0.00       0.00       0.01       0.00       0.00       0.01       0.02       0.02       0.02       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.02       0.01       0.01       0.01       0.01       0.01
+                0.00       0.01       0.00       0.01       0.00       0.01       0.03       0.03       0.02       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.00       0.00       0.01       0.00       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.00       0.00       0.00       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.00       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.23
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     KAWERAU CAXTON
X CODE
RAMP       CXTEXT.V1 =              0.48
+                0.48       0.48       0.48       0.49       0.48       0.48       0.49       0.49       0.49       0.49       0.49       0.49
+                0.49       0.49       0.49       0.47       0.49       0.49       0.49       0.49       0.49       0.48       0.42       0.33
+                0.33       0.32       0.33       0.30       0.32       0.32       0.31       0.31       0.23       0.23       0.22       0.21
+                0.31       0.32       0.33       0.31       0.34       0.36       0.36       0.35       0.35       0.37       0.40       0.42
+                0.48       0.55       0.54       0.54       0.55       0.55       0.55       0.54       0.53       0.53       0.53       0.52
+                0.52       0.52       0.52       0.53       0.54       0.53       0.54       0.53       0.53       0.54       0.54       0.54
+                0.54       0.54       0.53       0.52       0.54       0.51       0.53       0.53       0.46       0.37       0.37       0.28
+                0.34       0.38       0.46       0.53       0.51       0.52       0.50       0.37       0.33       0.31       0.31       0.36
+                0.36       0.38       0.39       0.45       0.39       0.54       0.54       0.55       0.55       0.55       0.54       0.53
+                0.53       0.53       0.53       0.53       0.53       0.52       0.52       0.53       0.51       0.51       0.53       0.47
+                0.38       0.52       0.53       0.53       0.52       0.54       0.53       0.53       0.54       0.53       0.52       0.52
+                0.53       0.53       0.53       0.52       0.53       0.53       0.53       0.53       0.52       0.54       0.54       0.54
+                0.53       0.54       0.53       0.53       0.53       0.43       0.45       0.35       0.35       0.35       0.35       0.35
+                0.36       0.46       0.53       0.52       0.51       0.51       0.50       0.51       0.51       0.51       0.52       0.62
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =         11.53
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =         08 September 2008 - 14 September 2008
X ========================================================
```

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X DELIVERY POINT     KAWERAU TASMAN
X CODE
RAMP       TPPEXT.V1 =              0.58
+               0.53       0.52       0.52       0.53       0.53       0.53       0.53       0.52       0.52       0.53       0.53       0.53
+               0.53       0.55       0.55       0.55       0.49       0.52       0.52       0.52       0.52       0.52       0.51       0.51
+               0.52       0.52       0.52       0.51       0.51       0.51       0.51       0.51       0.51       0.51       0.51       0.51
+               0.51       0.51       0.51       0.51       0.51       0.51       0.51       0.51       0.51       0.51       0.51       0.51
+               0.51       0.51       0.51       0.51       0.51       0.49       0.51       0.52       0.51       0.51       0.52       0.40
+               0.50       0.50       0.51       0.44       0.53       0.52       0.52       0.52       0.52       0.51       0.51       0.51
+               0.51       0.51       0.51       0.51       0.51       0.52       0.52       0.52       0.52       0.52       0.50       0.51
+               0.50       0.50       0.50       0.50       0.49       0.49       0.49       0.50       0.50       0.49       0.50       0.47
+               0.50       0.50       0.49       0.49       0.50       0.49       0.50       0.50       0.50       0.49       0.49       0.49
+               0.49       0.49       0.50       0.51       0.51       0.52       0.52       0.52       0.52       0.53       0.50       0.49
+               0.49       0.49       0.48       0.48       0.49       0.49       0.49       0.48       0.48       0.48       0.48       0.48
+               0.49       0.49       0.50       0.50       0.50       0.50       0.51       0.51       0.50       0.50       0.50       0.50
+               0.50       0.50       0.50       0.50       0.50       0.51       0.50       0.50       0.50       0.49       0.49       0.49
+               0.49       0.50       0.50       0.50       0.50       0.50       0.51       0.51       0.51       0.51       0.51       0.52
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          12.51
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ============================================================
X DELIVERY POINT     KIHIKIHI (TE AWAMUTU SOUTH)
X CODE
RAMP       TASEXT.V1 =              0.02
+               0.01       0.01       0.01       0.01       0.02       0.03       0.08       0.12       0.10       0.08       0.07       0.06
+               0.06       0.06       0.06       0.07       0.06       0.09       0.11       0.09       0.08       0.06       0.03       0.02
+               0.01       0.01       0.01       0.01       0.02       0.04       0.08       0.10       0.08       0.06       0.04       0.03
+               0.03       0.03       0.03       0.03       0.03       0.04       0.07       0.07       0.06       0.06       0.04       0.02
+               0.01       0.01       0.01       0.01       0.02       0.03       0.09       0.12       0.08       0.05       0.04       0.03
+               0.04       0.03       0.04       0.03       0.05       0.08       0.11       0.10       0.09       0.07       0.04       0.02
+               0.02       0.02       0.01       0.01       0.02       0.03       0.08       0.11       0.10       0.08       0.07       0.05
+               0.04       0.05       0.05       0.06       0.07       0.09       0.12       0.11       0.10       0.08       0.04       0.02
+               0.01       0.02       0.02       0.02       0.03       0.05       0.09       0.11       0.09       0.06       0.06       0.05
+               0.04       0.04       0.03       0.03       0.03       0.05       0.07       0.08       0.07       0.06       0.04       0.02
+               0.02       0.01       0.02       0.02       0.02       0.03       0.05       0.07       0.07       0.05       0.05       0.03
+               0.03       0.03       0.03       0.04       0.05       0.07       0.10       0.09       0.08       0.07       0.05       0.04
+               0.02       0.02       0.02       0.02       0.02       0.03       0.04       0.06       0.07       0.06       0.04       0.04
+               0.03       0.02       0.02       0.02       0.02       0.05       0.09       0.09       0.08       0.06       0.04       0.02
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          1.21
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ============================================================
X DELIVERY POINT     KINLEITH DISTRIBUTION
X CODE
RAMP       KIDEXT.V1 =              0.01
+               0.01       0.01       0.01       0.01       0.01       0.05       0.03       0.02       0.02       0.01       0.02       0.01
+               0.03       0.03       0.02       0.02       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+               0.00       0.00       0.00       0.01       0.01       0.04       0.03       0.02       0.02       0.02       0.02       0.03
+               0.03       0.01       0.01       0.00       0.01       0.02       0.02       0.02       0.01       0.02       0.02       0.01
+               0.02       0.02       0.01       0.04       0.04       0.03       0.04       0.02       0.03       0.04       0.03       0.04
+               0.06       0.06       0.04       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03
+               0.03       0.03       0.03       0.06       0.06       0.05       0.05       0.04       0.04       0.04       0.05       0.07
+               0.04       0.05       0.04       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03
+               0.03       0.03       0.02       0.05       0.04       0.05       0.03       0.04       0.03       0.04       0.04       0.04
+               0.06       0.04       0.01       0.01       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02
+               0.02       0.02       0.02       0.06       0.05       0.04       0.03       0.03       0.02       0.02       0.02       0.02
+               0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02
+               0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.02
+               0.02       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.59
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ============================================================
```

```
X DELIVERY POINT     KINLEITH MILL
X CODE
RAMP       KINEXT.V1 =              2.08
+                2.19       2.49       2.31       2.23       2.73       2.23       2.69       2.77       2.53       2.42       2.35       2.38
+                2.57       2.50       2.24       2.28       3.19       2.99       2.45       2.38       2.39       2.38       2.45       2.30
+                2.18       2.14       2.03       1.95       1.99       1.99       2.15       2.18       1.99       1.84       2.23       1.96
+                2.11       2.29       2.52       2.33       2.68       2.60       2.22       2.64       2.80       2.57       2.76       2.49
+                2.37       2.33       2.52       2.33       2.49       2.60       2.45       2.45       2.41       2.14       2.64       2.44
+                2.68       3.05       2.81       2.38       2.57       2.49       2.53       2.80       2.73       2.69       2.62       2.69
+                2.62       2.47       2.55       2.69       2.78       2.70       2.81       2.93       2.70       2.95       2.96       2.50
+                2.35       2.57       2.19       2.45       2.69       2.58       2.42       2.38       2.64       2.41       2.61       2.61
+                2.43       2.54       2.46       2.57       2.57       2.15       2.47       2.38       2.46       2.87       3.79       5.86
+                6.27       5.81       2.39       2.56       2.22       1.84       2.22       2.57       2.41       2.30       2.60       2.38
+                2.53       2.53       2.42       2.26       2.41       1.95       1.76       1.65       2.52       2.89       3.98       3.90
+                4.10       4.07       4.13       4.12       4.94       4.46       4.80       2.43       2.19       2.37       2.98       3.87
+                3.68       4.03       4.53       4.92       4.70       5.39       6.49       6.57       4.82       5.61       6.19       6.07
+                6.10       5.90       6.28       6.56       6.51       5.41       5.20       4.67       3.08       2.57       2.49       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          73.55
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     LICHFIELD
X CODE
RAMP       LDFEXT.V1 =              0.36
+                0.38       0.43       0.42       0.46       0.42       0.45       0.47       0.50       0.45       0.38       0.45       0.37
+                0.37       0.34       0.35       0.39       0.41       0.45       0.40       0.42       0.53       0.55       0.53       0.51
+                0.50       0.49       0.49       0.51       0.49       0.44       0.44       0.54       0.52       0.35       0.39       0.32
+                0.29       0.40       0.35       0.41       0.45       0.55       0.57       0.55       0.57       0.49       0.46       0.59
+                0.61       0.53       0.54       0.49       0.48       0.49       0.50       0.51       0.57       0.62       0.56       0.54
+                0.56       0.56       0.53       0.56       0.62       0.59       0.50       0.46       0.41       0.43       0.49       0.41
+                0.49       0.48       0.47       0.45       0.42       0.36       0.46       0.54       0.55       0.52       0.56       0.51
+                0.49       0.50       0.50       0.52       0.54       0.55       0.55       0.58       0.63       0.60       0.56       0.50
+                0.50       0.50       0.51       0.50       0.53       0.52       0.52       0.56       0.58       0.58       0.54       0.61
+                0.59       0.57       0.47       0.46       0.45       0.51       0.52       0.54       0.48       0.41       0.46       0.46
+                0.49       0.50       0.50       0.52       0.54       0.51       0.47       0.53       0.58       0.55       0.58       0.62
+                0.62       0.57       0.51       0.45       0.55       0.54       0.56       0.58       0.57       0.51       0.48       0.51
+                0.50       0.60       0.57       0.61       0.56       0.61       0.54       0.49       0.51       0.51       0.56       0.52
+                0.47       0.48       0.39       0.40       0.42       0.47       0.44       0.43       0.37       0.41       0.42       0.54
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          12.25
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     MT MANGANUI
X CODE
RAMP       MMGEXT.V =               0.52
+                0.48       0.49       0.57       0.62       0.64       0.62       0.63       0.70       0.77       0.71       0.62       0.64
+                0.72       0.60       0.62       0.63       0.60       0.61       0.65       0.64       0.59       0.45       0.42       0.43
+                0.43       0.42       0.46       0.60       0.66       0.64       0.64       0.72       0.74       0.79       0.78       0.72
+                0.64       0.63       0.74       0.74       0.67       0.68       0.63       0.63       0.61       0.58       0.55       0.59
+                0.58       0.60       0.60       0.65       0.61       0.63       0.66       0.74       0.68       0.60       0.59       0.60
+                0.65       0.67       0.65       0.66       0.61       0.62       0.63       0.56       0.53       0.50       0.50       0.54
+                0.60       0.64       0.64       0.67       0.62       0.62       0.63       0.75       0.68       0.72       0.71       0.70
+                0.72       0.79       0.72       0.66       0.62       0.62       0.68       0.67       0.62       0.55       0.54       0.54
+                0.63       0.61       0.65       0.65       0.72       0.67       0.71       0.77       0.74       0.64       0.64       0.72
+                0.71       0.58       0.64       0.55       0.48       0.50       0.52       0.49       0.47       0.46       0.44       0.35
+                0.28       0.36       0.37       0.39       0.41       0.42       0.40       0.45       0.45       0.42       0.42       0.44
+                0.48       0.46       0.44       0.42       0.45       0.47       0.35       0.35       0.35       0.34       0.31       0.30
+                0.29       0.28       0.32       0.32       0.31       0.33       0.47       0.43       0.51       0.50       0.49       0.48
+                0.50       0.50       0.49       0.44       0.45       0.44       0.47       0.57       0.50       0.48       0.44       0.48
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          13.88
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
```

```
X DELIVERY POINT     OPOTIKI
X CODE
RAMP       OPKEXT.V1 =              0.01
+              0.02       0.01       0.00       0.00       0.00       0.01       0.01       0.03       0.02       0.01       0.00       0.00
+              0.00       0.00       0.00       0.01       0.00       0.00       0.00       0.01       0.00       0.00       0.00       0.01
+              0.00       0.01       0.02       0.01       0.02       0.02       0.04       0.04       0.03       0.01       0.01       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.00       0.00       0.00       0.00       0.02
+              0.03       0.01       0.01       0.01       0.02       0.03       0.04       0.03       0.01       0.01       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.01       0.00       0.00       0.00       0.00       0.00       0.03
+              0.01       0.00       0.01       0.00       0.01       0.01       0.01       0.01       0.01       0.02       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.01       0.00       0.00       0.01       0.00       0.00       0.00
+              0.00       0.02       0.01       0.02       0.03       0.03       0.02       0.02       0.01       0.01       0.01       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.00       0.00       0.01       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.00       0.00       0.00       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.03       0.02       0.00       0.00       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.15
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     PAPAMOA
X CODE
RAMP       PAPEXT.V1 =              0.05
+              0.05       0.04       0.05       0.06       0.05       0.08       0.13       0.17       0.15       0.13       0.14       0.13
+              0.13       0.13       0.14       0.14       0.16       0.18       0.19       0.18       0.16       0.12       0.08       0.06
+              0.05       0.06       0.05       0.06       0.07       0.08       0.13       0.16       0.14       0.13       0.11       0.10
+              0.10       0.08       0.08       0.09       0.10       0.13       0.15       0.14       0.12       0.11       0.09       0.07
+              0.06       0.06       0.06       0.07       0.07       0.09       0.14       0.18       0.16       0.13       0.10       0.10
+              0.09       0.09       0.09       0.10       0.11       0.14       0.17       0.16       0.15       0.11       0.09       0.07
+              0.06       0.06       0.06       0.07       0.06       0.07       0.12       0.16       0.13       0.11       0.09       0.09
+              0.10       0.09       0.09       0.09       0.10       0.13       0.17       0.17       0.15       0.12       0.09       0.05
+              0.05       0.05       0.05       0.05       0.06       0.08       0.13       0.17       0.15       0.11       0.10       0.10
+              0.10       0.08       0.10       0.09       0.09       0.11       0.14       0.14       0.13       0.11       0.08       0.05
+              0.04       0.04       0.04       0.05       0.05       0.06       0.09       0.13       0.14       0.13       0.11       0.10
+              0.10       0.08       0.08       0.08       0.09       0.13       0.15       0.14       0.14       0.12       0.10       0.08
+              0.06       0.05       0.04       0.05       0.05       0.06       0.08       0.11       0.14       0.14       0.11       0.10
+              0.09       0.09       0.07       0.08       0.08       0.11       0.13       0.14       0.13       0.10       0.08       0.06
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          2.50
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     PUTARURU
X CODE
RAMP       PUTEXT.V1 =              0.09
+              0.06       0.08       0.07       0.07       0.08       0.08       0.07       0.07       0.07       0.06       0.05       0.06
+              0.06       0.07       0.08       0.09       0.09       0.09       0.10       0.09       0.09       0.08       0.07       0.07
+              0.07       0.07       0.06       0.06       0.07       0.07       0.07       0.07       0.09       0.10       0.10       0.09
+              0.08       0.09       0.09       0.09       0.10       0.10       0.10       0.09       0.09       0.08       0.08       0.07
+              0.07       0.07       0.07       0.05       0.05       0.06       0.12       0.13       0.12       0.09       0.11       0.10
+              0.10       0.11       0.11       0.12       0.12       0.13       0.11       0.12       0.12       0.11       0.09       0.10
+              0.09       0.10       0.11       0.10       0.10       0.10       0.11       0.10       0.10       0.09       0.10       0.09
+              0.09       0.09       0.09       0.09       0.08       0.09       0.09       0.09       0.08       0.07       0.06       0.08
+              0.07       0.06       0.06       0.06       0.06       0.10       0.09       0.10       0.11       0.10       0.09       0.06
+              0.07       0.06       0.06       0.06       0.06       0.06       0.07       0.10       0.11       0.11       0.09       0.08
+              0.11       0.11       0.11       0.11       0.09       0.09       0.10       0.12       0.13       0.12       0.11       0.11
+              0.12       0.12       0.11       0.11       0.12       0.11       0.12       0.11       0.11       0.10       0.09       0.09
+              0.09       0.09       0.09       0.09       0.09       0.09       0.08       0.07       0.07       0.05       0.05       0.04
+              0.03       0.05       0.04       0.05       0.07       0.04       0.06       0.07       0.06       0.05       0.05       0.11
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          2.11
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
```

X DELIVERY POINT RAINBOW MOUNTAIN
X CODE
RAMP RBMEXT.V1 = 0.00

+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 0.02
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==
X DELIVERY POINT RANGIURU
X CODE
RAMP RGUEXT.V1 = 0.00

+	0.00	0.00	0.00	0.01	0.02	0.06	0.08	0.10	0.15	0.14	0.15	0.15
+	0.15	0.15	0.15	0.17	0.15	0.14	0.13	0.10	0.07	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.03	0.11	0.15	0.13	0.13	0.13	0.13	0.12
+	0.12	0.13	0.12	0.12	0.10	0.10	0.06	0.08	0.08	0.09	0.08	0.05
+	0.00	0.00	0.00	0.00	0.04	0.11	0.15	0.13	0.13	0.13	0.12	0.13
+	0.12	0.12	0.12	0.12	0.12	0.10	0.10	0.09	0.09	0.09	0.07	0.00
+	0.00	0.00	0.00	0.00	0.03	0.10	0.11	0.13	0.13	0.16	0.14	0.12
+	0.12	0.12	0.12	0.12	0.11	0.10	0.10	0.09	0.08	0.09	0.08	0.03
+	0.00	0.00	0.00	0.00	0.02	0.06	0.12	0.14	0.12	0.15	0.13	0.12
+	0.13	0.14	0.13	0.13	0.12	0.10	0.10	0.09	0.09	0.09	0.09	0.01
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 1.51
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==
X DELIVERY POINT REPOROA
X CODE
RAMP RPREXT.V1 = 0.50

+	0.51	0.50	0.50	0.53	0.53	0.53	0.52	0.49	0.49	0.50	0.51	0.50
+	0.51	0.43	0.28	0.28	0.31	0.30	0.29	0.35	0.48	0.47	0.41	0.43
+	0.50	0.50	0.50	0.53	0.53	0.54	0.55	0.55	0.55	0.55	0.56	0.55
+	0.55	0.40	0.34	0.36	0.43	0.53	0.54	0.54	0.56	0.60	0.59	0.61
+	0.61	0.62	0.62	0.62	0.64	0.52	0.22	0.41	0.42	0.51	0.59	0.60
+	0.59	0.62	0.63	0.62	0.59	0.60	0.62	0.61	0.58	0.58	0.60	0.63
+	0.63	0.64	0.64	0.60	0.64	0.63	0.66	0.59	0.58	0.56	0.60	0.64
+	0.65	0.66	0.68	0.65	0.59	0.60	0.60	0.64	0.64	0.69	0.68	0.72
+	0.70	0.69	0.68	0.70	0.69	0.68	0.62	0.57	0.43	0.22	0.16	0.19
+	0.28	0.39	0.43	0.43	0.44	0.65	0.66	0.68	0.68	0.69	0.69	0.69
+	0.69	0.72	0.68	0.67	0.67	0.67	0.67	0.67	0.60	0.59	0.59	0.61
+	0.62	0.63	0.65	0.67	0.63	0.42	0.41	0.40	0.57	0.63	0.65	0.68
+	0.67	0.69	0.67	0.69	0.68	0.68	0.69	0.67	0.67	0.69	0.67	0.65
+	0.65	0.64	0.63	0.64	0.68	0.68	0.64	0.62	0.61	0.68	0.67	0.58

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 14.05
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==

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X DELIVERY POINT     ROTORUA
X CODE
RAMP       ROTEXT.V1 =              0.25
+              0.21       0.20       0.20       0.21       0.22       0.27       0.49       0.67       0.60       0.51       0.51       0.50
+              0.50       0.48       0.45       0.49       0.52       0.56       0.58       0.51       0.43       0.36       0.27       0.21
+              0.21       0.20       0.19       0.20       0.21       0.26       0.48       0.63       0.53       0.47       0.47       0.45
+              0.42       0.41       0.33       0.34       0.34       0.36       0.44       0.42       0.38       0.34       0.26       0.19
+              0.17       0.16       0.18       0.18       0.22       0.27       0.51       0.72       0.60       0.49       0.42       0.39
+              0.41       0.42       0.44       0.38       0.40       0.47       0.57       0.55       0.52       0.43       0.31       0.23
+              0.22       0.21       0.20       0.22       0.22       0.27       0.52       0.68       0.60       0.52       0.50       0.48
+              0.46       0.47       0.40       0.40       0.45       0.51       0.57       0.53       0.48       0.40       0.29       0.24
+              0.22       0.20       0.22       0.22       0.22       0.29       0.56       0.71       0.57       0.47       0.44       0.39
+              0.37       0.35       0.34       0.29       0.36       0.39       0.45       0.46       0.44       0.39       0.31       0.24
+              0.20       0.18       0.18       0.18       0.19       0.21       0.29       0.41       0.41       0.36       0.32       0.32
+              0.31       0.28       0.26       0.24       0.27       0.37       0.44       0.46       0.45       0.40       0.33       0.28
+              0.25       0.22       0.21       0.22       0.22       0.25       0.36       0.46       0.46       0.43       0.38       0.34
+              0.32       0.29       0.27       0.24       0.25       0.31       0.40       0.40       0.39       0.32       0.25       0.24
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          9.03
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     TAUPO
X CODE
RAMP       TAPEXT.V1 =              0.05
+              0.04       0.04       0.04       0.04       0.05       0.09       0.15       0.21       0.20       0.19       0.17       0.15
+              0.15       0.13       0.13       0.14       0.21       0.21       0.22       0.20       0.17       0.12       0.07       0.04
+              0.03       0.03       0.03       0.03       0.04       0.06       0.12       0.17       0.16       0.15       0.13       0.15
+              0.14       0.11       0.10       0.09       0.11       0.12       0.17       0.17       0.16       0.13       0.09       0.05
+              0.04       0.05       0.05       0.05       0.06       0.09       0.16       0.22       0.22       0.17       0.15       0.13
+              0.12       0.12       0.14       0.14       0.16       0.17       0.23       0.22       0.21       0.16       0.10       0.07
+              0.05       0.05       0.05       0.04       0.05       0.07       0.13       0.21       0.21       0.19       0.16       0.16
+              0.15       0.12       0.10       0.10       0.13       0.16       0.22       0.22       0.20       0.16       0.10       0.06
+              0.05       0.04       0.04       0.05       0.05       0.08       0.14       0.22       0.19       0.16       0.14       0.13
+              0.12       0.11       0.10       0.10       0.12       0.15       0.19       0.21       0.20       0.17       0.12       0.08
+              0.06       0.05       0.05       0.05       0.05       0.06       0.11       0.17       0.20       0.16       0.13       0.12
+              0.10       0.11       0.09       0.10       0.11       0.15       0.20       0.20       0.19       0.17       0.12       0.10
+              0.07       0.05       0.05       0.05       0.06       0.06       0.10       0.16       0.17       0.16       0.13       0.11
+              0.09       0.09       0.07       0.07       0.08       0.11       0.15       0.17       0.16       0.12       0.09       0.06
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          2.97
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     TAURANGA
X CODE
RAMP       TRGEXT.V1 =              0.10
+              0.09       0.08       0.08       0.10       0.10       0.13       0.26       0.43       0.41       0.35       0.33       0.33
+              0.33       0.32       0.31       0.32       0.34       0.37       0.39       0.36       0.30       0.23       0.15       0.11
+              0.09       0.08       0.08       0.08       0.10       0.17       0.25       0.40       0.37       0.31       0.27       0.25
+              0.28       0.22       0.22       0.21       0.19       0.22       0.29       0.27       0.23       0.20       0.16       0.12
+              0.10       0.10       0.10       0.10       0.12       0.19       0.30       0.44       0.39       0.30       0.28       0.25
+              0.25       0.27       0.24       0.19       0.19       0.24       0.30       0.29       0.27       0.22       0.15       0.11
+              0.10       0.08       0.08       0.08       0.10       0.14       0.28       0.42       0.36       0.30       0.27       0.28
+              0.25       0.26       0.23       0.20       0.20       0.24       0.32       0.32       0.29       0.24       0.17       0.11
+              0.10       0.09       0.09       0.09       0.09       0.15       0.26       0.40       0.35       0.28       0.26       0.26
+              0.23       0.23       0.20       0.18       0.17       0.20       0.26       0.27       0.25       0.22       0.16       0.11
+              0.10       0.09       0.08       0.08       0.08       0.09       0.14       0.21       0.25       0.24       0.21       0.19
+              0.18       0.17       0.15       0.14       0.16       0.21       0.27       0.27       0.26       0.23       0.19       0.16
+              0.12       0.10       0.09       0.09       0.09       0.10       0.14       0.20       0.23       0.24       0.21       0.19
+              0.18       0.15       0.15       0.12       0.14       0.18       0.23       0.24       0.22       0.18       0.13       0.18
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          5.12
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
```

X DELIVERY POINT TE PUKE
X CODE
RAMP TPKEXT.V1 = 0.01

+	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.04	0.04	0.03	0.05
+	0.04	0.04	0.03	0.04	0.04	0.04	0.05	0.04	0.03	0.02	0.01	0.01
+	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.04	0.03	0.03	0.03
+	0.02	0.02	0.02	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.01
+	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.03
+	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.04	0.04	0.03	0.01	0.01
+	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.03	0.03	0.02	0.03
+	0.03	0.03	0.02	0.02	0.03	0.03	0.05	0.05	0.04	0.03	0.02	0.01
+	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.04	0.03	0.03	0.02
+	0.02	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.01	0.01
+	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.02
+	0.02	0.02	0.01	0.01	0.02	0.02	0.03	0.04	0.03	0.03	0.02	0.01
+	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.02
+	0.02	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.01

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 0.54
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==
X DELIVERY POINT TE TEKO
X CODE
RAMP TTKEXT.V1 = 0.00

+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 0.08
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==
X DELIVERY POINT TIRAU DAIRY FACTORY
X CODE
RAMP TDFEXT.V1 = 0.17

+	0.16	0.17	0.18	0.17	0.20	0.20	0.26	0.52	0.52	0.52	0.51	0.51
+	0.36	0.39	0.36	0.37	0.38	0.35	0.32	0.27	0.21	0.16	0.15	0.17
+	0.18	0.16	0.14	0.06	0.17	0.19	0.24	0.45	0.52	0.49	0.49	0.52
+	0.50	0.49	0.50	0.49	0.43	0.41	0.41	0.40	0.43	0.39	0.34	0.31
+	0.26	0.26	0.13	0.24	0.22	0.19	0.27	0.36	0.54	0.56	0.52	0.54
+	0.55	0.54	0.59	0.58	0.58	0.54	0.48	0.43	0.24	0.19	0.22	0.22
+	0.22	0.20	0.19	0.18	0.18	0.19	0.22	0.45	0.53	0.54	0.51	0.50
+	0.55	0.53	0.49	0.53	0.47	0.45	0.46	0.42	0.42	0.38	0.33	0.26
+	0.23	0.18	0.18	0.16	0.17	0.18	0.25	0.42	0.53	0.50	0.52	0.50
+	0.49	0.49	0.52	0.39	0.51	0.47	0.38	0.32	0.27	0.23	0.24	0.24
+	0.24	0.23	0.21	0.22	0.21	0.23	0.30	0.47	0.57	0.56	0.59	0.64
+	0.61	0.60	0.46	0.48	0.51	0.50	0.48	0.44	0.45	0.39	0.26	0.29
+	0.24	0.20	0.16	0.16	0.17	0.20	0.29	0.53	0.53	0.49	0.50	0.49
+	0.48	0.50	0.52	0.49	0.45	0.44	0.43	0.42	0.39	0.39	0.34	0.52

+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 9.13
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 08 September 2008 - 14 September 2008
X ==

```
X DELIVERY POINT     TIRAU DISTRIBUTION
X CODE
RAMP       TIREXT.V1          =       0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01      0.01
+              0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.01      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.01
+              0.00      0.00      0.01      0.01      0.00      0.01      0.01      0.01      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.00      0.01
+              0.01      0.00      0.00      0.01      0.01      0.00      0.01      0.00      0.01      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.01      0.01
+              0.01      0.00      0.01      0.00      0.01      0.00      0.01      0.00      0.00      0.00      0.00      0.00
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.08
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ======================================================
X DELIVERY POINT     TOKOROA
X CODE
RAMP       TOKEXT.V1 =            0.03
+              0.02      0.02      0.02      0.02      0.02      0.07      0.14      0.16      0.13      0.10      0.13      0.12
+              0.12      0.12      0.11      0.12      0.12      0.12      0.13      0.12      0.11      0.09      0.07      0.07
+              0.06      0.02      0.01      0.01      0.02      0.07      0.13      0.15      0.13      0.12      0.11      0.10
+              0.11      0.10      0.09      0.08      0.09      0.10      0.11      0.11      0.11      0.10      0.08      0.07
+              0.06      0.02      0.02      0.02      0.02      0.08      0.14      0.17      0.15      0.13      0.11      0.10
+              0.11      0.12      0.12      0.11      0.09      0.14      0.15      0.14      0.13      0.10      0.10      0.07
+              0.07      0.03      0.02      0.02      0.03      0.08      0.15      0.18      0.16      0.14      0.13      0.13
+              0.13      0.12      0.12      0.12      0.13      0.13      0.14      0.15      0.13      0.11      0.08      0.07
+              0.07      0.02      0.02      0.02      0.02      0.04      0.10      0.13      0.11      0.13      0.13      0.12
+              0.10      0.09      0.09      0.09      0.09      0.10      0.13      0.13      0.12      0.10      0.05      0.03
+              0.03      0.02      0.02      0.02      0.02      0.07      0.09      0.10      0.12      0.11      0.08      0.05
+              0.04      0.04      0.03      0.03      0.04      0.05      0.07      0.07      0.07      0.06      0.05      0.05
+              0.03      0.03      0.02      0.02      0.03      0.03      0.04      0.05      0.06      0.06      0.05      0.03
+              0.03      0.02      0.02      0.03      0.02      0.04      0.06      0.07      0.07      0.06      0.04      0.03
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          1.99
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ======================================================
X DELIVERY POINT     WAIKERIA
X CODE
RAMP       WRAEXT.V. =            0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.04      0.04      0.04      0.04      0.04
+              0.04      0.04      0.04      0.04      0.04      0.03      0.03      0.03      0.02      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.04      0.04      0.04      0.04
+              0.04      0.04      0.03      0.04      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.04      0.04      0.04      0.04
+              0.04      0.04      0.04      0.04      0.04      0.03      0.03      0.03      0.03      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.04      0.04      0.04      0.04      0.04
+              0.04      0.04      0.04      0.04      0.04      0.03      0.03      0.03      0.02      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.04      0.04      0.04      0.04      0.04
+              0.04      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.03      0.04      0.04      0.04      0.04
+              0.04      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.03
+              0.02      0.03      0.02      0.02      0.02      0.02      0.03      0.03      0.03      0.03      0.03      0.03
+              0.04      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.03      0.03      0.02      0.03
+ TIME=     WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.73
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ======================================================
```

```
X DELIVERY POINT     WHAKATANE
X CODE
RAMP       WHKEXT.V =              0.34
+                0.32       0.33       0.33       0.32       0.34       0.33       0.37       0.38       0.41       0.41       0.48       0.54
+                0.37       0.37       0.37       0.38       0.46       0.37       0.36       0.36       0.37       0.33       0.33       0.31
+                0.32       0.33       0.34       0.34       0.36       0.34       0.38       0.42       0.41       0.40       0.22       0.34
+                0.36       0.38       0.31       0.29       0.35       0.28       0.19       0.26       0.25       0.37       0.35       0.17
+                0.21       0.30       0.31       0.32       0.38       0.30       0.31       0.45       0.40       0.41       0.45       0.42
+                0.42       0.42       0.39       0.42       0.39       0.35       0.36       0.36       0.35       0.40       0.33       0.32
+                0.32       0.34       0.28       0.34       0.38       0.31       0.32       0.41       0.48       0.52       0.42       0.32
+                0.32       0.37       0.39       0.46       0.42       0.29       0.45       0.45       0.38       0.39       0.43       0.38
+                0.33       0.42       0.40       0.40       0.48       0.36       0.43       0.48       0.49       0.49       0.51       0.55
+                0.52       0.52       0.38       0.50       0.54       0.38       0.50       0.43       0.45       0.51       0.46       0.38
+                0.37       0.47       0.49       0.44       0.50       0.47       0.50       0.56       0.53       0.49       0.46       0.41
+                0.43       0.48       0.50       0.50       0.49       0.42       0.37       0.40       0.44       0.40       0.26       0.28
+                0.26       0.13       0.04       0.04       0.04       0.04       0.04       0.09       0.18       0.19       0.21       0.29
+                0.27       0.34       0.34       0.36       0.36       0.35       0.36       0.36       0.37       0.40       0.37       0.10
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          9.06
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     WHAKATANE (BOARD MILLS CHH )
X CODE
RAMP       CHHEXT.V1 =             0.32
+                0.30       0.31       0.32       0.31       0.31       0.28       0.30       0.30       0.33       0.32       0.40       0.44
+                0.29       0.29       0.29       0.31       0.39       0.32       0.32       0.32       0.34       0.31       0.31       0.29
+                0.30       0.31       0.32       0.33       0.35       0.33       0.33       0.35       0.34       0.33       0.15       0.27
+                0.30       0.32       0.26       0.24       0.30       0.26       0.15       0.23       0.22       0.35       0.33       0.15
+                0.18       0.29       0.29       0.30       0.36       0.27       0.25       0.37       0.31       0.34       0.39       0.34
+                0.35       0.34       0.33       0.37       0.35       0.31       0.32       0.33       0.32       0.37       0.31       0.31
+                0.31       0.33       0.26       0.33       0.36       0.29       0.25       0.33       0.40       0.43       0.34       0.24
+                0.23       0.29       0.32       0.39       0.36       0.26       0.41       0.41       0.35       0.37       0.41       0.36
+                0.32       0.39       0.39       0.39       0.47       0.34       0.37       0.40       0.41       0.41       0.44       0.48
+                0.44       0.45       0.33       0.45       0.49       0.36       0.47       0.40       0.41       0.49       0.44       0.36
+                0.35       0.45       0.46       0.42       0.47       0.45       0.46       0.52       0.47       0.44       0.40       0.35
+                0.39       0.45       0.47       0.48       0.46       0.39       0.35       0.37       0.41       0.37       0.23       0.25
+                0.25       0.11       0.00       0.00       0.00       0.00       0.00       0.04       0.12       0.13       0.16       0.24
+                0.23       0.30       0.31       0.33       0.34       0.32       0.34       0.33       0.35       0.38       0.36       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          8.03
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
X DELIVERY POINT     PYES PA
X CODE
RAMP       PYPEXT.V1 =             0.01
+                0.01       0.01       0.01       0.01       0.02       0.02       0.04       0.06       0.06       0.05       0.04       0.04
+                0.05       0.04       0.04       0.05       0.05       0.05       0.05       0.05       0.04       0.03       0.02       0.01
+                0.01       0.01       0.01       0.01       0.02       0.02       0.04       0.06       0.05       0.04       0.04       0.05
+                0.04       0.03       0.03       0.03       0.03       0.03       0.04       0.03       0.03       0.02       0.02       0.02
+                0.02       0.02       0.02       0.02       0.02       0.03       0.04       0.06       0.05       0.04       0.03       0.03
+                0.03       0.04       0.03       0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.02       0.02
+                0.02       0.02       0.02       0.02       0.02       0.02       0.04       0.06       0.04       0.03       0.03       0.03
+                0.03       0.03       0.03       0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.02       0.02
+                0.02       0.02       0.02       0.02       0.02       0.02       0.03       0.05       0.03       0.03       0.03       0.03
+                0.02       0.03       0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.02       0.02       0.02
+                0.01       0.01       0.01       0.02       0.02       0.02       0.02       0.03       0.03       0.02       0.02       0.02
+                0.02       0.01       0.01       0.01       0.02       0.02       0.03       0.03       0.03       0.02       0.02       0.02
+                0.02       0.01       0.02       0.02       0.02       0.02       0.02       0.03       0.03       0.02       0.02       0.01
+                0.01       0.01       0.01       0.01       0.02       0.02       0.03       0.02       0.02       0.02       0.02       0.11
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.66
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          08 September 2008 - 14 September 2008
X ========================================================
```

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X DELIVERY POINT     KAPUNI SUPPLY
X CODE
RAMP       KAPEXT.V1 =              6.47
+              6.97       7.20       7.34       7.27       7.09       6.93       6.78       6.85       7.47       8.14       8.98       9.43
+             10.02      10.31      10.55      10.65      10.72      10.76      10.73      10.90      11.16      11.42      11.72      11.87
+             11.97      12.00      11.77      11.47      11.21      11.01      10.71       8.27       8.27       4.15       5.63       8.59
+              8.64       8.85       8.85       6.45       5.57       6.41       4.49       6.33       8.80      10.56      11.34      11.74
+             12.88      12.36      12.67      12.64      12.41      12.60      12.35      12.72      12.61      13.15      13.17      13.09
+             12.80      13.30      13.42      13.25      13.22      13.03      12.67      12.98      13.23      13.28      13.35      13.49
+             13.53      13.58      13.87      13.73      13.48      13.18      12.98      12.84      12.22      10.78       9.82      11.88
+             12.80      12.90      12.99      12.38      10.99      11.55      11.71      11.80      12.08      12.21      12.48      12.78
+             12.96      13.17      13.53      13.79      14.00      13.91      14.10      14.13      14.17      14.20      14.25      13.22
+             13.20      14.03      14.52      14.52      14.15      14.22      13.33      12.35      12.21      12.18      12.38      12.56
+             12.56      12.65      12.61      12.56      12.47      12.33      12.22      12.09      11.99      11.88      11.89      11.94
+             11.94      11.97      12.02      11.95      12.00      11.81      11.15      10.87      10.95      11.01      11.16      11.05
+             10.94      11.17      11.09      10.94      10.88      10.72      10.58      10.38       9.83      10.02       9.38       9.42
+              9.53       9.53       9.78       9.48       9.27       9.17       9.00       8.87       8.87       8.96       8.80       0.00
+ TIME=    WEEK
+ MULT=         1.00
+ ADD =         0.00
X Weekly Load TJ =        272.45
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
X DELIVERY POINT     RIMU INJECTION
X CODE
RAMP       RIMEXT.V1 =              1.19
+              1.17       1.12       1.17       1.09       1.17       1.10       1.19       1.10       1.18       1.07       1.13       1.10
+              1.02       1.01       0.97       0.96       0.96       1.04       1.04       1.02       1.03       1.01       1.00       1.01
+              1.01       1.02       1.00       1.00       1.00       1.00       1.01       1.04       1.08       1.06       1.05       1.03
+              1.02       1.02       1.01       1.01       1.00       1.01       1.03       1.02       1.03       1.03       1.03       1.04
+              1.03       1.03       1.01       1.04       1.02       1.03       1.02       1.03       1.02       1.03       1.03       1.22
+              1.13       1.07       1.11       1.08       1.07       1.06       1.05       1.05       1.04       1.04       1.05       1.05
+              1.06       1.06       1.04       1.02       1.05       1.02       1.03       1.02       1.01       1.01       1.00       1.07
+              1.19       1.16       1.01       1.08       1.39       1.36       1.25       1.18       1.13       1.09       1.12       1.16
+              1.08       1.08       1.05       1.03       1.02       1.03       1.02       1.01       1.03       1.04       1.04       1.07
+              1.02       1.00       1.02       1.02       1.01       1.01       1.01       1.00       1.01       1.01       1.01       1.01
+              1.02       1.01       1.02       1.00       1.01       1.02       1.01       1.00       1.01       1.01       1.01       1.09
+              1.08       1.02       1.12       1.26       1.21       1.20       1.24       1.25       1.28       1.29       1.31       1.32
+              1.33       1.33       1.34       1.34       1.33       1.35       1.35       1.36       1.35       1.36       1.35       1.37
+              1.35       1.36       1.36       1.38       1.34       1.35       1.35       1.33       1.33       1.37       1.36       0.00
+ TIME=    WEEK
+ MULT=         1.00
+ ADD =         0.00
X Weekly Load TJ =         27.69
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
X DELIVERY POINT     ASHURST
X CODE
RAMP       ASHEXT.V1          =     0.00222
+              0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.02       0.01       0.01       0.01       0.01
+              0.01       0.01       0.01       0.01       0.01       0.02       0.02       0.01       0.01       0.01       0.01       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.01       0.02       0.01       0.01       0.01
+              0.01       0.02       0.01       0.02       0.02       0.02       0.02       0.02       0.02       0.01       0.01       0.01
+              0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.02       0.03       0.02       0.02       0.02
+              0.01       0.02       0.01       0.01       0.01       0.02       0.02       0.02       0.02       0.01       0.01       0.00
+              0.00       0.00       0.00       0.00       0.00       0.01       0.01       0.02       0.02       0.02       0.01       0.02
+              0.01       0.01       0.01       0.01       0.01       0.01       0.02       0.02       0.01       0.01       0.01       0.01
+              0.00       0.00       0.00       0.01       0.00       0.00       0.01       0.02       0.03       0.02       0.01       0.01
+              0.01       0.01       0.01       0.01       0.01       0.01       0.02       0.01       0.02       0.01       0.01       0.00
+              0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.01       0.01       0.01       0.01
+              0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+              0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.01       0.01       0.01
+              0.01       0.01       0.01       0.01       0.01       0.01       0.02       0.01       0.01       0.01       0.01       0.00
+ TIME=    WEEK
+ MULT=         1.00
+ ADD =         0.00
X Weekly Load TJ =          0.24
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
```

```
X DELIVERY POINT     BELMONT
X CODE
RAMP       BMTEXT.V1 =              0.71
+                0.71       0.71       0.66       0.60       0.77       1.09       2.24       3.05       2.89       2.29       1.86       1.59
+                1.48       1.37       1.15       1.15       1.58       2.18       2.51       2.45       2.24       1.86       1.37       0.93
+                0.66       0.66       0.55       0.66       0.71       1.15       2.30       3.00       3.00       2.40       2.35       2.35
+                2.51       2.73       2.73       2.79       3.11       3.39       3.49       3.39       3.06       2.68       1.81       1.15
+                0.93       0.82       0.82       0.88       0.99       1.37       2.57       3.54       3.38       2.78       2.62       2.57
+                2.51       2.35       1.86       1.91       2.24       2.89       3.22       3.16       2.95       2.51       1.75       1.15
+                0.88       0.77       0.77       0.77       0.93       1.31       2.56       3.54       3.32       2.84       2.62       2.51
+                2.13       2.02       1.80       1.86       2.18       2.94       3.32       3.21       3.05       2.62       1.86       1.26
+                0.93       0.88       0.88       0.93       1.04       1.53       2.78       3.98       3.92       3.32       2.95       2.40
+                2.08       1.75       1.64       1.59       2.08       2.73       3.00       2.78       2.57       2.18       1.64       1.15
+                0.82       0.71       0.71       0.77       0.71       0.88       1.20       1.80       2.40       2.73       2.78       2.62
+                2.35       2.35       2.19       2.24       2.40       2.67       2.62       2.46       2.19       1.97       1.65       1.26
+                0.88       0.77       0.66       0.71       0.66       0.71       0.99       1.48       2.03       2.41       2.46       2.24
+                2.13       2.02       1.97       2.02       2.30       2.62       2.68       2.51       2.24       1.91       1.48       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          47.65
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     DANNEVIRKE
X CODE
RAMP       DANEXT.V1 =              0.01
+                0.01       0.02       0.03       0.01       0.01       0.02       0.05       0.10       0.07       0.09       0.07       0.09
+                0.08       0.07       0.09       0.09       0.06       0.08       0.06       0.08       0.09       0.07       0.07       0.06
+                0.07       0.06       0.07       0.08       0.04       0.07       0.07       0.07       0.07       0.07       0.07       0.06
+                0.07       0.06       0.07       0.07       0.06       0.05       0.06       0.06       0.06       0.06       0.07       0.08
+                0.08       0.06       0.07       0.06       0.04       0.07       0.08       0.07       0.09       0.10       0.09       0.10
+                0.08       0.09       0.11       0.10       0.07       0.09       0.08       0.08       0.09       0.09       0.07       0.09
+                0.09       0.07       0.08       0.07       0.06       0.08       0.11       0.09       0.11       0.11       0.10       0.12
+                0.09       0.09       0.10       0.09       0.08       0.09       0.08       0.08       0.09       0.09       0.07       0.09
+                0.09       0.07       0.09       0.07       0.04       0.08       0.08       0.09       0.10       0.11       0.09       0.09
+                0.10       0.08       0.10       0.09       0.08       0.08       0.05       0.05       0.05       0.05       0.05       0.05
+                0.04       0.04       0.04       0.04       0.03       0.02       0.04       0.05       0.06       0.06       0.04       0.06
+                0.05       0.03       0.05       0.05       0.04       0.04       0.02       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.02       0.05       0.05       0.06       0.04       0.05
+                0.05       0.04       0.06       0.05       0.04       0.05       0.04       0.02       0.01       0.01       0.01       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          1.51
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     FEILDING
X CODE
RAMP       ELSEXT.V1 =              0.10
+                0.10       0.09       0.08       0.09       0.11       0.13       0.19       0.28       0.26       0.26       0.27       0.24
+                0.25       0.21       0.21       0.22       0.24       0.29       0.28       0.28       0.25       0.21       0.17       0.14
+                0.12       0.12       0.09       0.09       0.12       0.13       0.23       0.30       0.33       0.33       0.31       0.31
+                0.29       0.27       0.29       0.29       0.33       0.35       0.35       0.30       0.30       0.26       0.19       0.15
+                0.16       0.15       0.12       0.13       0.14       0.17       0.25       0.37       0.36       0.34       0.34       0.31
+                0.30       0.31       0.29       0.27       0.31       0.36       0.34       0.35       0.34       0.30       0.23       0.18
+                0.18       0.16       0.15       0.15       0.14       0.17       0.26       0.39       0.44       0.41       0.36       0.31
+                0.29       0.29       0.29       0.29       0.33       0.37       0.38       0.35       0.33       0.30       0.23       0.19
+                0.17       0.17       0.16       0.15       0.15       0.18       0.27       0.39       0.41       0.38       0.35       0.31
+                0.28       0.27       0.24       0.24       0.29       0.35       0.32       0.31       0.29       0.26       0.19       0.15
+                0.13       0.12       0.12       0.12       0.12       0.14       0.14       0.20       0.26       0.27       0.25       0.22
+                0.20       0.19       0.19       0.20       0.21       0.25       0.24       0.24       0.21       0.20       0.16       0.13
+                0.10       0.10       0.10       0.11       0.10       0.12       0.13       0.17       0.21       0.24       0.26       0.21
+                0.18       0.16       0.16       0.18       0.21       0.28       0.25       0.24       0.21       0.19       0.14       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          5.61
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
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X DELIVERY POINT     FOXTON
X CODE
RAMP       FXNEXT.V1 =              0.02
+              0.02       0.03       0.02       0.03       0.03       0.04       0.04       0.05       0.05       0.04       0.04       0.03
+              0.05       0.07       0.07       0.08       0.07       0.06       0.06       0.06       0.06       0.06       0.05       0.04
+              0.05       0.04       0.04       0.04       0.05       0.07       0.07       0.08       0.10       0.10       0.09       0.06
+              0.04       0.05       0.06       0.06       0.05       0.04       0.06       0.08       0.08       0.07       0.06       0.05
+              0.05       0.05       0.05       0.05       0.06       0.08       0.09       0.10       0.11       0.10       0.09       0.05
+              0.05       0.05       0.04       0.04       0.06       0.08       0.08       0.08       0.08       0.06       0.06       0.06
+              0.06       0.06       0.06       0.07       0.08       0.09       0.09       0.11       0.13       0.11       0.11       0.10
+              0.09       0.09       0.09       0.09       0.09       0.09       0.09       0.08       0.07       0.05       0.03       0.02
+              0.04       0.06       0.06       0.07       0.07       0.08       0.10       0.11       0.12       0.11       0.10       0.10
+              0.08       0.07       0.08       0.08       0.08       0.05       0.07       0.07       0.07       0.06       0.06       0.05
+              0.05       0.05       0.05       0.05       0.05       0.05       0.06       0.08       0.09       0.08       0.08       0.07
+              0.07       0.06       0.06       0.06       0.07       0.05       0.05       0.06       0.06       0.06       0.06       0.05
+              0.05       0.04       0.01       0.02       0.02       0.01       0.02       0.03       0.03       0.03       0.02       0.02
+              0.02       0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.02       0.02       0.02
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =            1.46
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
X DELIVERY POINT     HASTINGS
X CODE
RAMP       HSTEXT.V1 =              1.09
+              1.00       0.86       0.91       1.13       1.42       1.47       1.83       2.11       2.29       2.15       2.05       1.93
+              1.93       2.02       1.95       1.86       1.87       1.77       1.87       1.85       1.74       1.71       1.70       1.61
+              1.78       1.65       1.72       1.56       1.75       1.81       2.11       2.65       2.65       2.58       2.41       2.31
+              2.26       2.23       2.04       2.02       2.11       2.14       2.14       2.18       1.93       1.93       1.81       1.68
+              1.81       1.71       1.70       1.75       1.83       1.94       2.25       2.58       2.67       2.54       2.55       2.58
+              2.62       2.44       2.34       2.18       2.18       2.12       2.17       2.02       2.09       1.99       1.80       1.66
+              1.78       1.60       1.69       1.76       1.79       1.98       2.20       2.36       2.51       2.50       2.44       2.26
+              2.32       2.38       2.21       2.21       2.25       2.27       2.36       2.22       2.21       2.05       1.88       1.68
+              1.83       1.81       1.71       1.61       1.71       1.88       2.22       2.50       2.50       2.45       2.24       2.24
+              2.04       1.99       1.83       1.87       1.96       2.04       2.14       1.98       2.01       1.81       1.49       1.33
+              1.42       1.26       1.21       1.22       1.13       1.19       1.23       1.47       1.46       1.43       1.45       1.30
+              1.26       1.25       1.27       1.23       1.30       1.33       1.38       1.28       1.11       1.08       0.93       0.77
+              0.86       0.79       0.79       0.76       0.80       0.83       0.99       0.98       1.07       1.10       1.13       1.11
+              1.08       1.13       1.06       1.16       1.23       1.27       1.40       1.33       1.17       1.06       1.25       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =           42.67
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
X DELIVERY POINT     HAWERA
X CODE
RAMP       HAWEXT.V =               0.04
+              0.03       0.04       0.04       0.04       0.09       0.29       0.38       0.38       0.37       0.39       0.37       0.34
+              0.35       0.35       0.32       0.33       0.39       0.47       0.51       0.50       0.46       0.39       0.32       0.23
+              0.18       0.17       0.16       0.17       0.18       0.21       0.28       0.44       0.42       0.39       0.39       0.37
+              0.36       0.36       0.36       0.43       0.51       0.57       0.60       0.56       0.50       0.41       0.32       0.23
+              0.20       0.20       0.20       0.22       0.20       0.25       0.33       0.50       0.53       0.48       0.43       0.39
+              0.33       0.32       0.30       0.31       0.36       0.45       0.49       0.55       0.50       0.44       0.36       0.30
+              0.22       0.23       0.21       0.25       0.24       0.27       0.36       0.51       0.51       0.46       0.42       0.37
+              0.34       0.29       0.27       0.27       0.34       0.45       0.52       0.50       0.46       0.38       0.28       0.20
+              0.19       0.17       0.15       0.20       0.18       0.27       0.37       0.51       0.54       0.45       0.39       0.27
+              0.23       0.24       0.24       0.22       0.24       0.27       0.29       0.26       0.24       0.20       0.16       0.11
+              0.09       0.07       0.07       0.06       0.06       0.07       0.10       0.16       0.22       0.23       0.20       0.16
+              0.15       0.15       0.16       0.19       0.23       0.28       0.28       0.26       0.23       0.20       0.15       0.11
+              0.08       0.07       0.07       0.06       0.06       0.07       0.09       0.12       0.20       0.19       0.16       0.13
+              0.12       0.11       0.09       0.13       0.20       0.25       0.27       0.26       0.22       0.19       0.12       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =            6.71
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
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X DELIVERY POINT      KAIRANGA
X CODE
RAMP      KAIEXT.V1  =              0.01
+              0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00      0.01      0.01
+              0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01      0.01
+              0.01      0.02      0.01      0.02      0.01      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.02      0.02      0.01      0.02
+              0.01      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.01
+              0.02      0.02      0.02      0.02      0.01      0.00      0.00      0.00      0.00      0.02      0.02      0.01
+              0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.01      0.02
+              0.02      0.01      0.02      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01
+              0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00      0.01      0.01      0.01
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.01
+              0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.00
+ TIME=     WEEK
+ MULT=           1.00
+ ADD =           0.00
X Weekly Load TJ =            0.21
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =        15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT      KAITOKE
X CODE
RAMP      KKEEXT.V1 =              0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.04      0.03      0.03
+              0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.03      0.04      0.03      0.03
+              0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.03      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.03      0.03      0.04      0.04      0.03
+              0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.03      0.03      0.04      0.03      0.03
+              0.04      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.03      0.03      0.04      0.04      0.04
+              0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.03      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.03      0.02      0.03      0.03
+              0.03      0.03      0.02      0.03      0.03      0.03      0.03      0.02      0.02      0.02      0.02      0.02
+              0.02      0.02      0.02      0.02      0.02      0.02      0.03      0.02      0.03      0.03      0.03      0.03
+              0.03      0.03      0.02      0.03      0.03      0.03      0.03      0.02      0.02      0.02      0.02      0.02
+ TIME=     WEEK
+ MULT=           1.00
+ ADD =           0.00
X Weekly Load TJ =            0.63
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =        15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT      KAKARIKI
X CODE
RAMP      KAKEXT.V1 =              0.00
+              0.01      0.01      0.00      0.01      0.00      0.01      0.00      0.01      0.01      0.01      0.00      0.01
+              0.00      0.01      0.00      0.00      0.01      0.03      0.03      0.03      0.02      0.00      0.01      0.03
+              0.04      0.03      0.01      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.03      0.03
+              0.03      0.02      0.03      0.03      0.03      0.04      0.03      0.03      0.03      0.03      0.04      0.03
+              0.03      0.03      0.01      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01
+              0.01      0.00      0.01      0.02      0.03      0.03      0.03      0.04      0.03      0.03      0.03      0.02
+              0.03      0.03      0.01      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01
+              0.00      0.01      0.01      0.01      0.03      0.03      0.03      0.03      0.04      0.03      0.03      0.03
+              0.03      0.03      0.03      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.01      0.01
+              0.01      0.01      0.03      0.03      0.03      0.03      0.04      0.03      0.03      0.03      0.03      0.03
+              0.03      0.03      0.01      0.00      0.00      0.00      0.00      0.00      0.00      0.01      0.00      0.01
+              0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+              0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
+ TIME=     WEEK
+ MULT=           1.00
+ ADD =           0.00
X Weekly Load TJ =            0.30
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =        15 JUNE 2009 - 21 JUNE 2009
X ============================================================
```

```
X DELIVERY POINT     LAKE ALICE
X CODE
RAMP       LAKEXT.V1 =              0.00
+               0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.01       0.01       0.01       0.01       0.02
+               0.03       0.01       0.02       0.02       0.02       0.03       0.02       0.01       0.01       0.01       0.01       0.00
+               0.00       0.00       0.00       0.00       0.01       0.03       0.04       0.05       0.05       0.05       0.05       0.04
+               0.04       0.04       0.04       0.04       0.04       0.04       0.05       0.05       0.05       0.04       0.04       0.04
+               0.04       0.02       0.02       0.01       0.01       0.03       0.04       0.05       0.06       0.05       0.05       0.05
+               0.05       0.05       0.05       0.05       0.05       0.06       0.05       0.05       0.05       0.05       0.05       0.04
+               0.03       0.03       0.02       0.01       0.01       0.02       0.04       0.05       0.06       0.05       0.05       0.05
+               0.05       0.05       0.04       0.04       0.04       0.05       0.05       0.05       0.05       0.04       0.04       0.04
+               0.03       0.03       0.02       0.00       0.02       0.03       0.04       0.05       0.05       0.04       0.05       0.04
+               0.04       0.04       0.03       0.03       0.04       0.04       0.04       0.04       0.04       0.03       0.02       0.01
+               0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.01       0.01
+               0.02       0.01       0.00       0.00       0.00       0.00       0.01       0.01       0.01       0.00       0.00       0.00
+               0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.00       0.00       0.00       0.01       0.01
+               0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.01       0.01       0.00       0.00       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.59
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ==========================================================
X DELIVERY POINT     LEVIN
X CODE
RAMP       LEVEXT.V1 =              0.11
+               0.10       0.09       0.09       0.13       0.18       0.30       0.44       0.57       0.61       0.59       0.43       0.42
+               0.40       0.39       0.30       0.34       0.37       0.41       0.37       0.34       0.30       0.26       0.22       0.19
+               0.18       0.17       0.14       0.10       0.15       0.32       0.46       0.60       0.60       0.54       0.48       0.45
+               0.41       0.46       0.45       0.50       0.52       0.53       0.52       0.47       0.42       0.36       0.29       0.24
+               0.23       0.21       0.20       0.20       0.23       0.37       0.49       0.68       0.69       0.66       0.58       0.54
+               0.50       0.45       0.38       0.43       0.47       0.53       0.50       0.47       0.40       0.32       0.27       0.23
+               0.21       0.22       0.22       0.22       0.23       0.39       0.53       0.72       0.74       0.65       0.55       0.48
+               0.45       0.43       0.41       0.43       0.46       0.50       0.47       0.45       0.42       0.38       0.30       0.25
+               0.24       0.23       0.21       0.21       0.21       0.36       0.50       0.67       0.74       0.63       0.52       0.48
+               0.43       0.38       0.30       0.31       0.39       0.46       0.45       0.42       0.37       0.32       0.26       0.22
+               0.21       0.19       0.17       0.17       0.15       0.22       0.25       0.32       0.39       0.37       0.27       0.22
+               0.19       0.17       0.15       0.17       0.28       0.36       0.34       0.31       0.27       0.26       0.21       0.15
+               0.14       0.13       0.12       0.11       0.13       0.17       0.18       0.25       0.32       0.31       0.23       0.20
+               0.16       0.16       0.17       0.18       0.28       0.36       0.33       0.32       0.29       0.23       0.19       0.17
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          8.33
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ==========================================================
X DELIVERY POINT     LONGBURN
X CODE
RAMP       LGSEXT.V1 =              0.19
+               0.18       0.19       0.17       0.19       0.18       0.19       0.21       0.25       0.25       0.25       0.25       0.20
+               0.21       0.19       0.22       0.23       0.22       0.25       0.22       0.22       0.22       0.22       0.20       0.19
+               0.20       0.19       0.19       0.19       0.18       0.19       0.24       0.25       0.23       0.25       0.23       0.26
+               0.25       0.23       0.25       0.24       0.24       0.28       0.26       0.27       0.27       0.27       0.26       0.22
+               0.21       0.22       0.23       0.24       0.26       0.25       0.27       0.30       0.30       0.27       0.28       0.27
+               0.27       0.29       0.26       0.24       0.26       0.22       0.24       0.24       0.26       0.28       0.27       0.24
+               0.21       0.20       0.22       0.23       0.24       0.24       0.29       0.33       0.30       0.32       0.29       0.29
+               0.29       0.26       0.27       0.26       0.28       0.27       0.31       0.26       0.28       0.27       0.26       0.23
+               0.24       0.22       0.21       0.21       0.22       0.23       0.27       0.31       0.32       0.31       0.28       0.26
+               0.27       0.25       0.25       0.24       0.25       0.27       0.25       0.28       0.21       0.24       0.23       0.20
+               0.18       0.17       0.18       0.18       0.19       0.22       0.22       0.21       0.22       0.22       0.23       0.23
+               0.23       0.24       0.22       0.24       0.23       0.24       0.23       0.23       0.24       0.22       0.23       0.21
+               0.23       0.25       0.22       0.23       0.20       0.23       0.23       0.25       0.28       0.23       0.24       0.22
+               0.22       0.22       0.22       0.22       0.23       0.21       0.23       0.21       0.22       0.22       0.22       0.19
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          5.80
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ==========================================================
```

```
X DELIVERY POINT     MANAIA
X CODE
RAMP       MIAEXT.V1 =              0.02
+                0.03       0.03       0.03       0.03       0.02       0.03       0.03       0.04       0.04       0.03       0.04       0.03
+                0.03       0.03       0.03       0.03       0.02       0.02       0.02       0.02       0.02       0.04       0.03       0.03
+                0.03       0.03       0.03       0.03       0.03       0.03       0.04       0.04       0.04       0.03       0.04       0.04
+                0.03       0.03       0.02       0.02       0.02       0.03       0.03       0.02       0.02       0.02       0.02       0.04
+                0.04       0.03       0.04       0.04       0.03       0.04       0.04       0.04       0.05       0.05       0.04       0.04
+                0.04       0.04       0.03       0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.04       0.03
+                0.03       0.03       0.03       0.03       0.03       0.03       0.04       0.05       0.05       0.04       0.04       0.04
+                0.04       0.03       0.03       0.02       0.02       0.02       0.03       0.04       0.05       0.03       0.03       0.04
+                0.03       0.04       0.04       0.03       0.04       0.03       0.04       0.05       0.04       0.04       0.03       0.04
+                0.04       0.02       0.01       0.01       0.02       0.02       0.03       0.04       0.04       0.03       0.03       0.03
+                0.03       0.04       0.03       0.03       0.03       0.03       0.03       0.04       0.04       0.04       0.03       0.02
+                0.02       0.02       0.02       0.02       0.02       0.02       0.04       0.05       0.03       0.03       0.03       0.03
+                0.03       0.04       0.03       0.03       0.03       0.03       0.03       0.03       0.04       0.04       0.04       0.04
+                0.03       0.02       0.01       0.01       0.02       0.02       0.04       0.04       0.03       0.03       0.03       0.01
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.76
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     MANGAROA
X CODE
RAMP       MNGEXT.V. =              0.02
+                0.02       0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.03       0.03
+                0.03       0.03       0.03       0.02       0.02       0.03       0.03       0.02       0.02       0.02       0.02       0.02
+                0.02       0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.03       0.03
+                0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.02       0.02       0.02       0.02
+                0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.04       0.03       0.03       0.03
+                0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.02       0.02       0.02
+                0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03
+                0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.02       0.02       0.02       0.02       0.02
+                0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03
+                0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.03       0.02       0.02       0.02       0.02
+                0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.03       0.03       0.03       0.03       0.03
+                0.03       0.03       0.03       0.03       0.03       0.02       0.02       0.02       0.02       0.02       0.02       0.02
+                0.02       0.02       0.02       0.02       0.02       0.03       0.02       0.02       0.03       0.03       0.03       0.03
+                0.03       0.03       0.02       0.02       0.02       0.03       0.03       0.02       0.02       0.02       0.02       0.02
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.63
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     MANGATAINOKA
X CODE
RAMP       MANEXT.V: =              0.00
+                0.00       0.00       0.00       0.00       0.02       0.02       0.02       0.02       0.02       0.02       0.02       0.01
+                0.02       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.00       0.00       0.00       0.00
+                0.00       0.00       0.01       0.02       0.07       0.04       0.03       0.05       0.07       0.05       0.03       0.07
+                0.07       0.05       0.03       0.06       0.06       0.04       0.01       0.02       0.02       0.01       0.00       0.00
+                0.00       0.00       0.00       0.00       0.02       0.01       0.01       0.01       0.01       0.02       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+                0.00       0.00       0.00       0.00       0.02       0.02       0.02       0.02       0.02       0.02       0.01       0.01
+                0.01       0.01       0.01       0.02       0.00       0.00       0.00       0.00       0.00       0.01       0.00       0.00
+                0.00       0.00       0.00       0.00       0.00       0.02       0.05       0.08       0.10       0.09       0.07       0.07
+                0.05       0.06       0.05       0.05       0.03       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+                0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+                0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+                0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+                0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.33
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
```

```
X DELIVERY POINT     MARTON
X CODE
RAMP       MONEXT.V =              0.23
+                0.23       0.20       0.19       0.17       0.16       0.16       0.19       0.20       0.16       0.09       0.19       0.19
+                0.19       0.19       0.21       0.22       0.23       0.25       0.26       0.27       0.27       0.27       0.26       0.27
+                0.26       0.26       0.27       0.25       0.27       0.26       0.29       0.27       0.27       0.26       0.25       0.26
+                0.12       0.10       0.10       0.10       0.11       0.10       0.10       0.10       0.09       0.09       0.07       0.07
+                0.07       0.08       0.07       0.07       0.11       0.26       0.27       0.29       0.30       0.29       0.30       0.29
+                0.29       0.31       0.30       0.32       0.31       0.32       0.33       0.33       0.34       0.34       0.32       0.32
+                0.30       0.30       0.27       0.24       0.23       0.21       0.12       0.12       0.12       0.12       0.10       0.10
+                0.09       0.09       0.09       0.08       0.08       0.10       0.10       0.10       0.09       0.08       0.07       0.06
+                0.06       0.05       0.05       0.05       0.06       0.08       0.10       0.12       0.11       0.11       0.10       0.09
+                0.08       0.11       0.08       0.07       0.06       0.06       0.06       0.05       0.04       0.04       0.03       0.01
+                0.01       0.00       0.01       0.00       0.04       0.18       0.18       0.19       0.20       0.20       0.20       0.21
+                0.21       0.21       0.21       0.23       0.24       0.27       0.26       0.25       0.26       0.26       0.24       0.23
+                0.23       0.21       0.20       0.18       0.16       0.15       0.08       0.03       0.04       0.05       0.04       0.03
+                0.16       0.16       0.17       0.17       0.20       0.21       0.23       0.23       0.24       0.23       0.23       0.14
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          4.15
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
X DELIVERY POINT     OKAIAWA
X CODE
RAMP       OKIEXT.V1          =              0.18
+                0.26       0.22       0.18       0.12       0.09       0.09       0.09       0.08       0.08       0.07       0.03       0.02
+                0.12       0.15       0.16       0.18       0.17       0.20       0.27       0.31       0.37       0.38       0.38       0.38
+                0.37       0.36       0.29       0.22       0.21       0.22       0.19       0.14       0.13       0.13       0.16       0.16
+                0.15       0.14       0.13       0.12       0.24       0.30       0.36       0.40       0.40       0.40       0.33       0.33
+                0.41       0.41       0.37       0.30       0.31       0.36       0.39       0.38       0.40       0.35       0.36       0.36
+                0.33       0.23       0.20       0.19       0.20       0.30       0.32       0.42       0.42       0.39       0.38       0.40
+                0.39       0.42       0.41       0.41       0.37       0.35       0.33       0.32       0.34       0.35       0.35       0.33
+                0.33       0.25       0.18       0.17       0.13       0.12       0.13       0.29       0.35       0.36       0.39       0.34
+                0.38       0.39       0.39       0.39       0.39       0.39       0.38       0.30       0.39       0.41       0.37       0.33
+                0.09       0.08       0.11       0.20       0.16       0.29       0.19       0.22       0.28       0.32       0.34       0.34
+                0.34       0.34       0.34       0.32       0.32       0.32       0.32       0.31       0.30       0.23       0.27       0.30
+                0.27       0.26       0.30       0.31       0.31       0.30       0.25       0.22       0.27       0.34       0.34       0.33
+                0.32       0.32       0.32       0.31       0.26       0.24       0.29       0.31       0.31       0.31       0.22       0.19
+                0.19       0.16       0.16       0.13       0.15       0.15       0.16       0.15       0.22       0.29       0.31       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          6.62
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
X DELIVERY POINT     OROUA DOWNS
X CODE
RAMP       ORUEXT.V1 =              0.00
+                0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+                0.00       0.00       0.02       0.05       0.05       0.04       0.05       0.05       0.05       0.05       0.05       0.00
+                0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.03       0.05       0.05       0.05
+                0.03       0.00       0.00       0.02       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06
+                0.03       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.04       0.06       0.06
+                0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06
+                0.06       0.00       0.00       0.00       0.00       0.05       0.06       0.06       0.06       0.06       0.06       0.06
+                0.06       0.05       0.05       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06
+                0.03       0.00       0.00       0.00       0.00       0.02       0.06       0.06       0.06       0.06       0.06       0.06
+                0.06       0.06       0.05       0.06       0.06       0.06       0.06       0.05       0.00       0.00       0.00       0.00
+                0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.06       0.06       0.06       0.06
+                0.06       0.05       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06
+                0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06
+                0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.01
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.92
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ========================================================
```

X DELIVERY POINT OTAKI
X CODE
RAMP OTKEXT.V1 = 0.01
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.05 0.06 0.04 0.03 0.02
+ 0.02 0.02 0.02 0.02 0.03 0.03 0.06 0.04 0.03 0.03 0.02 0.02
+ 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.05 0.05 0.04 0.03 0.03
+ 0.03 0.03 0.04 0.04 0.06 0.05 0.05 0.05 0.04 0.03 0.03 0.02
+ 0.02 0.01 0.02 0.02 0.02 0.02 0.04 0.06 0.06 0.06 0.05 0.05
+ 0.03 0.04 0.02 0.03 0.05 0.05 0.06 0.05 0.05 0.04 0.03 0.02
+ 0.02 0.02 0.02 0.02 0.02 0.03 0.05 0.07 0.06 0.06 0.05 0.06
+ 0.04 0.04 0.04 0.03 0.04 0.05 0.05 0.05 0.05 0.04 0.03 0.02
+ 0.02 0.02 0.01 0.01 0.01 0.02 0.04 0.06 0.06 0.05 0.04 0.04
+ 0.04 0.02 0.02 0.01 0.03 0.04 0.04 0.04 0.04 0.03 0.02 0.02
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.03 0.02 0.03 0.03
+ 0.03 0.03 0.02 0.03 0.03 0.05 0.04 0.04 0.03 0.03 0.02 0.02
+ 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.03 0.04 0.03 0.03
+ 0.03 0.03 0.03 0.03 0.04 0.04 0.04 0.04 0.03 0.03 0.02 0.02
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 0.74
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 15 JUNE 2009 - 21 JUNE 2009
X ==========
X DELIVERY POINT PAHIATUA
X CODE
RAMP PAHEXT.V1 = 0.26
+ 0.25 0.25 0.25 0.25 0.26 0.25 0.26 0.29 0.18 0.11 0.08 0.06
+ 0.05 0.07 0.09 0.05 0.04 0.05 0.04 0.04 0.05 0.04 0.04 0.03
+ 0.03 0.04 0.03 0.04 0.04 0.05 0.06 0.06 0.06 0.06 0.06 0.07
+ 0.05 0.07 0.07 0.09 0.11 0.15 0.22 0.28 0.26 0.27 0.27 0.27
+ 0.28 0.27 0.27 0.26 0.27 0.27 0.15 0.13 0.07 0.06 0.06 0.06
+ 0.05 0.05 0.06 0.06 0.06 0.04 0.06 0.05 0.05 0.05 0.05 0.04
+ 0.04 0.04 0.04 0.04 0.05 0.06 0.08 0.07 0.07 0.06 0.05 0.05
+ 0.04 0.05 0.04 0.04 0.05 0.04 0.04 0.05 0.05 0.05 0.05 0.05
+ 0.04 0.04 0.04 0.04 0.04 0.04 0.07 0.07 0.07 0.06 0.07 0.06
+ 0.06 0.06 0.15 0.13 0.31 0.28 0.28 0.27 0.28 0.28 0.29 0.28
+ 0.30 0.27 0.27 0.26 0.27 0.27 0.27 0.14 0.12 0.10 0.11 0.05
+ 0.06 0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.05 0.04 0.04
+ 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.05 0.06
+ 0.07 0.07 0.05 0.05 0.05 0.05 0.04 0.04 0.05 0.04 0.04 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 2.51
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 15 JUNE 2009 - 21 JUNE 2009
X ==========
X DELIVERY POINT PALMERSTON NORTH
X CODE
RAMP PNTEXT.V1 = 0.55
+ 0.48 0.45 0.43 0.46 0.58 0.75 1.36 1.93 1.81 1.55 1.44 1.41
+ 1.37 1.33 1.21 1.24 1.40 1.72 1.82 1.73 1.53 1.23 0.89 0.61
+ 0.51 0.50 0.50 0.48 0.54 0.75 1.41 1.99 2.00 1.67 1.52 1.53
+ 1.36 1.37 1.54 1.75 1.92 2.11 2.19 2.11 1.94 1.63 1.19 0.84
+ 0.70 0.68 0.66 0.67 0.72 1.02 1.78 2.58 2.63 2.37 2.15 2.02
+ 1.82 1.76 1.61 1.52 1.78 2.21 2.35 2.24 2.10 1.81 1.33 0.89
+ 0.72 0.70 0.67 0.68 0.73 1.00 1.78 2.58 2.60 2.31 2.08 1.91
+ 1.73 1.48 1.28 1.30 1.61 2.07 2.22 2.15 1.98 1.70 1.25 0.89
+ 0.73 0.70 0.69 0.70 0.78 1.04 1.80 2.60 2.66 2.31 2.04 1.81
+ 1.57 1.38 1.25 1.25 1.55 1.90 2.03 1.98 1.84 1.61 1.27 0.91
+ 0.72 0.62 0.60 0.61 0.66 0.70 0.94 1.33 1.71 1.77 1.61 1.46
+ 1.29 1.21 1.07 1.15 1.45 1.78 1.82 1.69 1.56 1.43 1.19 0.92
+ 0.71 0.63 0.59 0.57 0.61 0.68 0.83 1.13 1.49 1.75 1.62 1.37
+ 1.09 0.97 0.97 1.02 1.27 1.68 1.77 1.73 1.53 1.33 0.98 0.00
+ TIME= WEEK
+ MULT= 1.00
+ ADD = 0.00
X Weekly Load TJ = 33.43
X Each figure represents average hourly flow rate in std. m3/s
X Profile date = 15 JUNE 2009 - 21 JUNE 2009
X ==========

```
X DELIVERY POINT     PARAPARAUMU
X CODE
RAMP       PPREXT.V1 =              0.05
+              0.04       0.03       0.04       0.04       0.05       0.13       0.21       0.28       0.26       0.19       0.13       0.11
+              0.10       0.09       0.08       0.10       0.15       0.25       0.29       0.28       0.24       0.19       0.11       0.05
+              0.04       0.04       0.04       0.04       0.05       0.13       0.22       0.30       0.28       0.23       0.17       0.15
+              0.18       0.25       0.26       0.30       0.35       0.40       0.42       0.40       0.34       0.28       0.16       0.08
+              0.06       0.05       0.05       0.06       0.07       0.15       0.25       0.34       0.36       0.31       0.26       0.21
+              0.20       0.18       0.14       0.14       0.21       0.34       0.39       0.38       0.34       0.28       0.16       0.09
+              0.06       0.05       0.05       0.05       0.07       0.15       0.27       0.35       0.39       0.32       0.24       0.24
+              0.18       0.16       0.14       0.17       0.23       0.35       0.39       0.38       0.36       0.28       0.17       0.09
+              0.06       0.06       0.05       0.06       0.08       0.15       0.28       0.37       0.42       0.36       0.24       0.18
+              0.16       0.14       0.11       0.13       0.20       0.30       0.34       0.33       0.30       0.24       0.16       0.09
+              0.06       0.05       0.05       0.05       0.05       0.09       0.12       0.21       0.30       0.30       0.24       0.22
+              0.22       0.18       0.16       0.18       0.26       0.33       0.32       0.29       0.26       0.23       0.16       0.10
+              0.06       0.05       0.05       0.05       0.05       0.07       0.11       0.17       0.27       0.30       0.27       0.24
+              0.22       0.20       0.19       0.22       0.28       0.33       0.33       0.30       0.25       0.20       0.12       0.10
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          4.68
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     PATEA
X CODE
RAMP       PTAEXT.V1 =              0.01
+              0.01       0.01       0.02       0.02       0.03       0.03       0.04       0.03       0.02       0.02       0.01       0.01
+              0.01       0.01       0.01       0.01       0.03       0.03       0.02       0.02       0.03       0.02       0.03       0.02
+              0.02       0.02       0.01       0.03       0.04       0.04       0.04       0.04       0.04       0.04       0.02       0.01
+              0.01       0.01       0.03       0.04       0.04       0.04       0.04       0.03       0.04       0.04       0.03       0.03
+              0.04       0.03       0.02       0.04       0.03       0.04       0.04       0.05       0.05       0.04       0.02       0.01
+              0.01       0.01       0.01       0.01       0.02       0.03       0.04       0.04       0.03       0.03       0.02       0.03
+              0.03       0.03       0.03       0.03       0.02       0.03       0.04       0.04       0.04       0.03       0.03       0.02
+              0.01       0.01       0.01       0.01       0.02       0.04       0.03       0.03       0.04       0.04       0.03       0.03
+              0.03       0.03       0.03       0.03       0.03       0.04       0.04       0.05       0.06       0.04       0.02       0.01
+              0.01       0.01       0.01       0.01       0.03       0.03       0.03       0.03       0.04       0.03       0.03       0.03
+              0.01       0.03       0.02       0.03       0.02       0.03       0.02       0.04       0.03       0.02       0.02       0.01
+              0.01       0.01       0.01       0.02       0.03       0.02       0.03       0.03       0.03       0.03       0.03       0.02
+              0.02       0.02       0.03       0.03       0.03       0.03       0.03       0.03       0.04       0.02       0.01       0.01
+              0.01       0.01       0.01       0.02       0.03       0.02       0.03       0.03       0.03       0.02       0.03       0.02
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.64
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     PAUATAHANUI
X CODE
RAMP       PTNEXT.V1 =              0.05
+              0.05       0.04       0.04       0.05       0.05       0.06       0.11       0.13       0.10       0.08       0.11       0.10
+              0.10       0.07       0.06       0.06       0.07       0.10       0.12       0.12       0.11       0.10       0.07       0.05
+              0.04       0.04       0.04       0.05       0.05       0.06       0.11       0.13       0.11       0.08       0.08       0.08
+              0.09       0.10       0.11       0.11       0.14       0.16       0.17       0.17       0.16       0.13       0.09       0.06
+              0.06       0.05       0.05       0.06       0.06       0.07       0.12       0.15       0.13       0.11       0.09       0.08
+              0.08       0.07       0.06       0.07       0.09       0.13       0.15       0.15       0.14       0.13       0.09       0.06
+              0.05       0.05       0.05       0.06       0.05       0.07       0.12       0.15       0.13       0.10       0.10       0.09
+              0.08       0.07       0.07       0.07       0.09       0.13       0.15       0.15       0.14       0.13       0.09       0.06
+              0.05       0.06       0.05       0.06       0.06       0.07       0.13       0.16       0.16       0.12       0.10       0.08
+              0.07       0.07       0.07       0.07       0.09       0.12       0.14       0.13       0.13       0.11       0.09       0.06
+              0.06       0.05       0.05       0.05       0.05       0.06       0.07       0.10       0.13       0.14       0.14       0.12
+              0.12       0.12       0.11       0.12       0.13       0.14       0.14       0.13       0.12       0.11       0.09       0.07
+              0.06       0.05       0.05       0.05       0.05       0.05       0.07       0.08       0.11       0.13       0.12       0.11
+              0.10       0.10       0.10       0.10       0.12       0.14       0.14       0.14       0.12       0.11       0.08       0.01
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          2.27
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
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X DELIVERY POINT     TAKAPAU
X CODE
RAMP       TAKEXT.V1 =              0.00
+               0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+               0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+               0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.02       0.02
+               0.02       0.03       0.05       0.04       0.08       0.07       0.07       0.09       0.15       0.12       0.07       0.06
+               0.08       0.09       0.05       0.05       0.03       0.05       0.11       0.15       0.15       0.10       0.10       0.16
+               0.16       0.18       0.17       0.15       0.12       0.13       0.13       0.12       0.10       0.10       0.11       0.11
+               0.09       0.10       0.05       0.04       0.06       0.06       0.13       0.17       0.18       0.18       0.18       0.18
+               0.20       0.21       0.21       0.18       0.17       0.17       0.08       0.08       0.12       0.14       0.12       0.11
+               0.15       0.16       0.13       0.12       0.11       0.14       0.14       0.16       0.17       0.17       0.17       0.17
+               0.16       0.13       0.13       0.16       0.15       0.15       0.14       0.11       0.10       0.10       0.05       0.02
+               0.02       0.02       0.00       0.00       0.00       0.01       0.00       0.00       0.00       0.00       0.00       0.00
+               0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00
+               0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.01       0.02       0.02       0.02       0.01
+               0.02       0.03       0.04       0.09       0.06       0.06       0.06       0.06       0.06       0.06       0.06       0.02
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          1.56
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     TAWA
X CODE
RAMP       TAWEXT.V: =              1.15
+               1.04       1.04       0.99       1.04       1.32       1.93       3.72       5.54       5.33       4.01       3.49       3.09
+               2.97       2.97       2.91       2.80       3.15       3.79       4.13       3.90       3.44       2.92       2.14       1.48
+               1.21       0.99       0.99       1.04       1.21       1.82       3.72       5.69       5.69       5.00       4.71       4.71
+               4.80       5.13       5.11       5.14       5.37       5.66       5.73       5.48       5.06       4.24       3.13       1.98
+               1.65       1.48       1.43       1.43       1.70       2.31       4.13       6.42       6.74       5.53       4.81       4.58
+               4.22       3.89       3.62       3.73       4.11       4.74       5.14       4.95       4.55       3.84       2.85       1.81
+               1.48       1.32       1.32       1.32       1.59       2.09       3.96       6.31       6.39       5.18       4.87       4.34
+               4.05       3.78       3.56       3.56       3.84       4.66       4.99       4.87       4.44       3.78       2.90       1.97
+               1.54       1.43       1.37       1.43       1.65       2.47       4.21       6.46       7.01       5.70       4.77       4.28
+               3.94       3.78       3.40       3.34       3.67       4.39       4.55       4.44       4.06       3.56       2.69       1.87
+               1.54       1.32       1.32       1.21       1.32       1.49       2.05       3.07       4.23       4.69       4.66       4.30
+               4.31       4.08       3.91       3.90       4.07       4.42       4.40       4.11       3.59       3.26       2.70       2.14
+               1.59       1.32       1.26       1.15       1.26       1.43       1.88       2.62       3.44       4.07       4.06       3.64
+               3.29       3.41       3.24       3.07       3.54       4.12       4.19       3.94       3.48       3.02       2.23       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =         81.94
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     WAIKANAE
X CODE
RAMP       WKNEXT.V =               0.03
+               0.02       0.02       0.02       0.01       0.02       0.02       0.06       0.10       0.12       0.09       0.05       0.04
+               0.03       0.03       0.03       0.03       0.05       0.10       0.12       0.12       0.11       0.09       0.06       0.03
+               0.02       0.02       0.02       0.02       0.02       0.02       0.06       0.11       0.12       0.10       0.07       0.05
+               0.05       0.08       0.09       0.11       0.14       0.17       0.18       0.17       0.16       0.13       0.08       0.05
+               0.03       0.03       0.03       0.03       0.03       0.04       0.08       0.13       0.15       0.13       0.11       0.08
+               0.07       0.07       0.05       0.05       0.08       0.14       0.18       0.18       0.15       0.13       0.08       0.04
+               0.03       0.03       0.03       0.03       0.03       0.04       0.08       0.13       0.15       0.13       0.10       0.08
+               0.06       0.06       0.05       0.05       0.08       0.13       0.16       0.16       0.15       0.13       0.08       0.04
+               0.03       0.03       0.03       0.03       0.03       0.04       0.08       0.13       0.16       0.15       0.10       0.07
+               0.05       0.05       0.04       0.04       0.08       0.14       0.15       0.15       0.14       0.12       0.08       0.04
+               0.03       0.03       0.02       0.02       0.02       0.03       0.04       0.09       0.13       0.14       0.11       0.09
+               0.09       0.07       0.06       0.07       0.11       0.14       0.15       0.14       0.13       0.12       0.08       0.05
+               0.03       0.03       0.03       0.02       0.02       0.02       0.04       0.08       0.12       0.13       0.11       0.09
+               0.08       0.07       0.07       0.08       0.11       0.14       0.14       0.14       0.12       0.10       0.06       0.03
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          1.93
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
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X DELIVERY POINT     WAITANGIRUA
X CODE
RAMP       WTREXT.V: =              0.11
+                0.09       0.08       0.08       0.08       0.08       0.08       0.54       0.74       0.62       0.47       0.61       0.55
+                0.48       0.29       0.19       0.19       0.26       0.45       0.52       0.50       0.43       0.35       0.22       0.12
+                0.09       0.09       0.08       0.08       0.08       0.12       0.55       0.69       0.69       0.50       0.45       0.44
+                0.52       0.56       0.58       0.58       0.64       0.77       0.80       0.75       0.65       0.52       0.33       0.17
+                0.12       0.10       0.09       0.11       0.13       0.24       0.62       0.84       0.75       0.63       0.54       0.49
+                0.42       0.34       0.28       0.26       0.37       0.58       0.69       0.67       0.60       0.51       0.33       0.17
+                0.12       0.09       0.10       0.12       0.13       0.25       0.62       0.87       0.75       0.60       0.56       0.47
+                0.36       0.30       0.27       0.25       0.35       0.55       0.67       0.67       0.61       0.51       0.33       0.19
+                0.13       0.12       0.11       0.15       0.17       0.28       0.66       0.92       0.85       0.69       0.55       0.46
+                0.37       0.31       0.27       0.26       0.35       0.51       0.58       0.56       0.51       0.44       0.31       0.19
+                0.12       0.09       0.09       0.09       0.09       0.13       0.22       0.35       0.51       0.62       0.59       0.53
+                0.49       0.46       0.44       0.46       0.52       0.58       0.55       0.52       0.45       0.40       0.32       0.22
+                0.14       0.11       0.09       0.09       0.08       0.09       0.16       0.27       0.42       0.53       0.48       0.44
+                0.40       0.39       0.38       0.34       0.44       0.56       0.57       0.54       0.47       0.39       0.24       0.00
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          9.33
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     WAITOTARA
X CODE
RAMP       WTTEXT.V1 =              0.01
+                0.01       0.01       0.01       0.01       0.01       0.02       0.05       0.05       0.05       0.05       0.06       0.05
+                0.06       0.05       0.04       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.02
+                0.01       0.01       0.01       0.01       0.01       0.02       0.05       0.05       0.05       0.05       0.05       0.05
+                0.05       0.05       0.05       0.01       0.01       0.01       0.01       0.01       0.01       0.00       0.01       0.02
+                0.01       0.01       0.01       0.01       0.01       0.03       0.05       0.06       0.06       0.05       0.06       0.06
+                0.06       0.05       0.04       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.03       0.05       0.05       0.05       0.05       0.05       0.05
+                0.05       0.05       0.03       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+                0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01       0.01
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =          0.44
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
X DELIVERY POINT     WANGANUI
X CODE
RAMP       WANEXT.V =               0.32
+                0.26       0.23       0.20       0.23       0.30       0.34       0.60       0.94       1.04       0.92       0.84       0.80
+                0.70       0.75       0.75       0.66       0.68       0.88       1.01       0.99       0.90       0.79       0.64       0.42
+                0.38       0.30       0.27       0.30       0.30       0.35       0.65       1.00       1.09       1.05       0.89       0.90
+                0.77       0.79       0.86       0.80       0.95       1.13       1.26       1.22       1.09       1.02       0.79       0.55
+                0.45       0.38       0.35       0.33       0.36       0.45       0.73       1.20       1.32       1.16       1.00       0.96
+                0.86       0.80       0.77       0.69       0.81       1.05       1.24       1.24       1.15       1.04       0.83       0.56
+                0.50       0.42       0.33       0.37       0.40       0.46       0.80       1.30       1.37       1.25       1.16       0.99
+                0.88       0.85       0.79       0.70       0.82       1.06       1.22       1.23       1.18       1.02       0.85       0.60
+                0.47       0.43       0.41       0.37       0.43       0.50       0.79       1.26       1.50       1.34       1.15       0.96
+                0.82       0.79       0.67       0.58       0.69       1.05       1.18       1.14       1.08       0.94       0.77       0.55
+                0.37       0.35       0.30       0.30       0.30       0.34       0.47       0.56       0.79       0.87       0.77       0.68
+                0.59       0.59       0.54       0.53       0.66       0.89       0.95       0.87       0.82       0.73       0.63       0.49
+                0.37       0.28       0.29       0.28       0.27       0.34       0.40       0.51       0.67       0.81       0.79       0.72
+                0.70       0.68       0.68       0.69       0.74       0.90       1.00       0.98       0.88       0.74       0.55       0.37
+ TIME=    WEEK
+ MULT=          1.00
+ ADD =          0.00
X Weekly Load TJ =         17.92
X Each figure represents average hourly flow rate in std. m3/s
X Profile date =          15 JUNE 2009 - 21 JUNE 2009
X ============================================================
```