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 (GJ)	(Factor)	(GJ)	Week Ending	Throughput (GJ)
Rotowaro		24-Jun-07	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Otahuhu B power station	24-Jun-07	449,509	1.12	53,941	30-Jul-06	466,123
	Southdown power station	24-Jun-07	260,389	1.20	52,078	24-Jun-07	260,389
	Westfield	24-Jun-07	116,925	1.31	36,247	23-Jul-06	221,871
	Glenbrook (BHP Steel)	24-Jun-07	41,433	3.15	89,081	09-Jul-06	49,191
	Papakura	24-Jun-07	134,802	1.80	107,842	24-Jun-07	134,802
	Henderson	24-Jun-07	28,911	2.20	34,693	30-Jul-06	29,140
	Flat Bush	24-Jun-07	9,324	5.80	44,755	17-Dec-06	10,286
	Harrisville	24-Jun-07	11,610	10.00	104,490	24-Jun-07	16,110
	Bruce McLaren	24-Jun-07	8,095	5.20	33,999	30-Jul-06	8,325
	Drury	24-Jun-07	7,208	9.50	61,268	20-Aug-06	7,475
	Tuakau	24-Jun-07	3,371	22.00	70,791	22-Apr-07	4,056
	Warkworth	24-Jun-07	3,314	2.58	5,236	30-Jul-06	5,730
	Marsden point No.1 (note 2)	24-Jun-07	46,961	n/a		23-Jul-06	59,019
	Hunua	24-Jun-07	3,738	16.00	56,070	03-Sep-06	4,697
	Kauri (dairy factory)	24-Jun-07	6,157	5.60	28,322	01-Oct-06	15,586
	Waitoki	24-Jun-07	2,600	16.00	39,000	24-Jun-07	2,600
	Whangarei	24-Jun-07	5,056	8.50	37,920	24-Jun-07	5,056
			1,139,403				
	offtakes < 2,000 per week						
	Pukekohe	24-Jun-07	1,062				
	Ramarama	24-Jun-07	685				
	Alfriston	24-Jun-07	633				
	Wellsford	24-Jun-07	29				
	Oakleigh	24-Jun-07	0				
	Marsden Point No.2	24-Jun-07	0				
	Maungaturoto (dairy factory)	24-Jun-07	105				
	Kingseat	24-Jun-07	58				
			2,572	ie Average per Offtake<2,000 GJ = 322			
	TOTAL THROUGHPUT		1,141,975				

Note 1: also excludes CAPEX costs for offtake upgrade needed for increased throughput.

2. This load is not included in the modelling of determining the factors for other 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 24 June 2007

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Otahuhu B power station	1.12	53,941	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	1.41	184,299
Southdown power station	1.20	52,078	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	1.62	161,441
Westfield	1.31	36,247	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	2.15	134,464
Glenbrook (BHP Steel)	3.15	89,081	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	10,400	4.62	149,987
Papakura	1.80	107,842	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	10,400	2.40	188,723
Henderson	2.20	34,693	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	5.20	121,426
Flat Bush	5.80	44,755	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	17.60	154,778
Harrisville	10.00	104,490	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	10,400	16.00	174,150
Bruce McLaren	5.20	33,999	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	16.00	121,425
Drury	9.50	61,268	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	10,400	17.00	115,328
Tuakau	22.00	70,791	Ingram Rd to Papakura East pipeline	Upgrading Rotowaro compression and Loop Ingram Rd to Papakura East	16,270	42.00	138,211
Warkworth	2.58	5,236	Warkworth lateral	Loop Warkworth Lateral	4,950	13.80	42,419
Hunua	16.00	56,070	Ingram Rd to Papakura East pipeline	Loop Ingram Rd to Papakura East	10,400	78.00	287,826
Kauri	5.60	28,322	Maungaropere offtake to Kauri lateral	Install compression at Henderson	4,340	7.40	39,405
Whangarei	8.50	37,920	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	9.50	42,976
Waitoki	16.00	*39,000*	Papakura East to Smales Rd pipeline	Loop Papakura East to Smales Rd MLV	25,700	42.0	106,600

note: Capital Cost estimates exclude the cost of upgrading the Intake Point (if required) for the increased throughput.

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

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			Week Ending	Throughput
			(GJ)	(Factor)	(GJ)		(GJ)
Rotowaro		27-Aug-06	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Te Rapa Cogeneration	27-Aug-06	96,397	2.93	186,046	20-May-07	108,371
	Hamilton Temple View	27-Aug-06	21,310	8.50	159,825	30-Jul-06	25,556
	Hamilton Te Kowhai	27-Aug-06	20,676	10.00	9,072	24-Jun-07	24,096
	Kiwitahi (Peroxide Plant)	27-Aug-06	6,928	6.10	35,333	10-Dec-06	7,258
	Waitoa	27-Aug-06	6,398	5.20	26,872	03-Jun-07	7,545
	Cambridge	27-Aug-06	7,307	3.25	16,441	12-Nov-06	13,451
	Morrinsville (dairy factory)	27-Aug-06	11,556	4.00	34,668	22-Oct-06	12,549
	Tatuanui (dairy factory)	27-Aug-06	5,443	6.90	32,114	15-Oct-06	6,584
			176,015				
	offtakes < 2,000 per week						
	Horotiu	27-Aug-06	1,968				
	Morrinsville	27-Aug-06	1,008				
	Kiwitahi	27-Aug-06	131				
	Matangi	27-Aug-06	23				
	Te Rapa	27-Aug-06	0				
	Tauwhare	27-Aug-06	0				
			3,130	ie Average per Offtake<2,000 GJ = 522			
	TOTAL THROUGHPUT		179,145				

Note 1: also excludes CAPEX costs for offtake upgrade needed for 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 27 August 2006

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Te Rapa Cogeneration	2.93	186,046	Te Kowhai to Te Rapa pipeline	Upgrade Rotowaro compression and Loop Te Kowhai to Te Rapa pipeline	9,100	3.74	264,128
Hamilton Temple View	8.50	159,825	Rotowaro to Temple View pipeline	Upgrade Rotowaro compression and Provide top-up supply from Central (South) system	5,870	8.75	165,153
Hamilton Te Kowhai	10.00	9,072	Rotowaro to Temple View pipeline	Upgrade Rotowaro compression and Provide top-up supply from Central (South) system	5,870	10.50	196,422
Kiwitahi (Peroxide Plant)	6.10	35,333	Horotiu to Kuranui Rd pipeline	Install compression downstream of Horotiu	8,670	7.75	46,764
Waitoa	5.20	26,872	Horotiu to Kuranui Rd pipeline	Install compression downstream of Horotiu	8,670	6.40	34,549
Cambridge	3.25	16,441	Cambridge lateral	Loop Cambridge lateral	10,850	5.12	30,105
Morrinsville (dairy factory)	4.00	34,668	Horotiu to Kuranui Rd pipeline	Install compression downstream of Horotiu	8,670	4.90	45,068
Tatuanui (dairy factory)	6.90	32,114	Horotiu to Kuranui Rd pipeline	Install compression downstream of Horotiu	8,670	8.50	40,823

note: Top-up supply from the Central (South) System was limited to 2 scm/s (6.9 TJ/d).

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

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

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		24-Jun-07	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	BOP Interconnection	*n/a*	*217,700*	*n/a*	*n/a*	*n/a*	*n/a*
	New Plymouth	24-Jun-07	21,739	1.30	6,522	23-Jul-06	22,182
	Stratford	24-Jun-07	2,067	45.00	90,948	23-Jul-06	2,150
	Waitara	24-Jun-07	2,485	5.40	10,934	24 June 2007	2,485
	Eltham	24-Jun-07	4,584	11.00	45,840	24-Jun-07	4,584
			248,575				
	offtakes < 2,000 per week						
	Inglewood	24-Jun-07	762				
	Kaponga	25-Jun-07	34				
			796	ie Average per Offtake<2,000 GJ = 398			
	TOTAL THROUGHPUT		249,371				

note 1: The throughput increase for the Bay of Plenty Interconnection Point represents a flat profile of 9 scm/s.

note 2: also excludes CAPEX costs for offtake upgrade needed for 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 24 June 2007

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Pokuru No.2 Offtake	*n/a*	*217,700*	*Kapuni - Mahoenui - Pokuru pipeline*	*To-up from Central (North) System*	*665*	*n/a*	*266,000*
New Plymouth	1.30	6,522	New Plymouth lateral	Loop New Plymouth lateral	5,090	3.00	43,478
Stratford	45.00	90,948	Kapuni to Stratford pipeline	Loop Kapuni to Stratford pipeline, upgrade Kapuni compression	17,410	154.00	316,251
Waitara	5.40	10,934	New Plymouth lateral	Loop New Plymouth lateral	5,090	18.00	42,245
Eltham	11.00	45,840	Eltham lateral	Loop Eltham lateral	5,270	29.50	130,644

note: The increased throughput for the Bay of Plenty Interconnection Point represents a flat profile of 11 scm/s, including a 2 scm/s top-up from the Central (North) System. This is about all that could be delivered to Pokuru at sufficient pressure (approx. 60 bar) for one Pokuru compressor to be able to pump the gas into the Bay of Plenty System.

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

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

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		20-Aug-06	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Kinleith (mill)	20-Aug-06	98,521	0.00	0	20-Aug-06	98,521
	Edgecumbe (dairy factory)	20-Aug-06	29,242	0.00	0	08-Oct-06	32,654
	Taupo	20-Aug-06	15,300	0.00	0	09-Jul-06	16,678
	Mt Maunganui	20-Aug-06	16,422	0.00	0	20-Aug-06	16,422
	Whakatane	20-Aug-06	8,749	0.00	0	20-Aug-06	8,749
	Reporoa	20-Aug-06	11,905	0.00	0	12-Nov-06	16,261
	Rotorua	20-Aug-06	11,695	0.00	0	30-Jul-06	11,748
	Kawerau (Tasman mill)	20-Aug-06	10,103	0.00	0	08-Apr-07	12,809
	Kawerau (Caxton mill)	20-Aug-06	13,118	0.00	0	11-Mar-07	15,648
	Gisborne	20-Aug-06	7,979	0.00	0	01-Apr-07	13,290
	Tauranga	20-Aug-06	6,714	0.00	0	24-Jun-07	8,200
	Tirau (dairy factory)	20-Aug-06	3,956	0.00	0	10-Sep-06	12,207
	Rainbow Mountain	20-Aug-06	3,474	0.00	0	27-Aug-06	3,564
	Lichfield (dairy factory)	20-Aug-06	5,406	0.00	0	11-Feb-07	11,841
	Putaruru	20-Aug-06	2,374	0.00	0	30-Jul-06	3,141
	Papamoa	20-Aug-06	2,362	0.00	0	24-Jun-07	3,115
	Tokoroa	20-Aug-06	2,210	0.00	0	30-Jul-06	2,297
			249,530				
	offtakes < 2,000 per week						
	Kihikihi (Te Awamutu)	20-Aug-06	1,837				
	Rangiuru	20-Aug-06	1,557				
	Te Puke	20-Aug-06	709				
	Waikeria	20-Aug-06	955				
	Kinleith	20-Aug-06	607				
	Kawerau	20-Aug-06	378				
	Edgecumbe	20-Aug-06	2				
	Opotiki	20-Aug-06	166				
	Tirau	20-Aug-06	95				
	Te Teko	20-Aug-06	94				
	Okoroire Springs	20-Aug-06	16				
			6,416	ie Average per Offtake<2,000 GJ = 583			
	TOTAL THROUGHPUT		255,946				

Note 1: also excludes CAPEX costs for offtake upgrade needed for 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 20 August 2006

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Kinleith (mill)	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	4.60	354,676
Edgecumbe (dairy factory)	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	1.86	25,148
Taupo	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	4.20	48,960
Mt Maunganui	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	2.17	19,214
Whakatane	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	4.26	28,522
Reporoa	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	5.12	49,049
Rotorua	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	2.10	12,865
Kawerau (Tasman mill)	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	14.40	135,380
Kawerau (Caxton mill)	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	10.60	125,933
Gisborne	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	3.25	17,953
Tauranga	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	2.50	10,071
Tirau (dairy factory)	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	17.00	63,296
Rainbow Mountain	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	41.50	140,697
Lichfield (dairy factory)	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	29.00	151,368
Putaruru	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	112.00	263,514
Papamoa	0.00	-	Pokuru compression	Upgrade Pokuru	11,740	12.00	25,982
Tokoroa	0.00	-	Pokuru compression	Upgrade Pokuru	25,100	198.00	435,370

note: 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.

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

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

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			Week Ending	Throughput
			(GJ)	(Factor)	(GJ)		(GJ)
Frankley Rd		17-Jun-07	n/a	n/a	n/a	n/a	n/a
	offtakes > 2,000 GJ per week						
	Kapuni GTP Intake Point	17-Jun-07	237,134	1.41	97,225	17-Jun-07	237,134
	Ammonia-Urea Plant	17-Jun-07	67,149	3.20	147,728	20-Aug-06	68,657
	TCC power station	17-Jun-07	349,903	1.39	136,462	22-Apr-07	370,171
			654,186				
	offtakes < 2,000 per week						
	Lactose	17-Jun-07	274				
			274	ie Average per Offtake<2,000 GJ = 274			
	TOTAL THROUGHPUT		654,460				

Note 1: also excludes CAPEX costs for offtake upgrade needed for increased throughput.

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 17 June 2007

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Kapuni GTP Intake Point	1.41	97,225	Derby Rd compression	Scrap Derby Rd. Build new compressor station at Frankley Rd	25,100	6.30	1,256,810
Ammonia-Urea Plant	3.20	147,728	Derby Rd compression	Scrap Derby Rd. Build new compressor station at Frankley Rd, also loop Ammonia-Urea Plant lateral	25,228	7.20	416,324
TCC power station	1.39	136,462	Derby Rd compression	Scrap Derby Rd. Build new compressor station at Frankley Rd	25,100	6.18	1,812,498

note: Additional throughput would be obtainable with larger compressors at Frankley Rd, ie the pipeline would not be the constraint with the increased throughput.

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

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

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			Week Ending	Throughput
			(GJ)	(Factor)	(GJ)		(GJ)
Kapuni		23-Jul-06	207,995	n/a	n/a	24-Jun-07	231,037
	offtakes > 2,000 GJ per week						
	Tawa	23-Jul-06	78,154	1.85	66,431	23-Jul-06	78,154
	Belmont	23-Jul-06	51,893	2.30	67,461	23-Jul-06	51,893
	Hastings	23-Jul-06	45,098	2.22	55,020	03-Jun-07	52,083
	Palmerston North	23-Jul-06	28,849	1.97	27,984	24/06.07	30,750
	Wanganui	23-Jul-06	21,249	17.50	350,609	24-Jun-07	22,579
	Hawera	23-Jul-06	6,550	67.50	435,575	24-Sep-06	15,477
	Levin	23-Jul-06	8,714	4.70	32,242	24-Jun-07	8,798
	Waitangirua	23-Jul-06	9,670	7.50	7,940	23-Jul-06	9,670
	Feilding	23-Jul-06	8,937	4.45	30,833	23-Jul-06	8,937
	Longburn	23-Jul-06	5,223	9.50	44,396	22-Oct-06	9,041
	Marton	23-Jul-06	4,776	12.50	54,924	17-Jun-07	5,146
	Dannevirke	23-Jul-06	3,134	27.00	81,484	09-Jul-06	3,594
	Takapau	23-Jul-06	2,857	20.50	55,712	10-Dec-06	3,306
	Paraparaumu	23-Jul-06	4,556	15.75	67,201	23-Jul-06	4,556
			279,660				
	offtakes < 2,000 per week						
	Pahiatua	23-Jul-06	754				
	Waikanae	23-Jul-06	1,805				
	Kakariki	23-Jul-06	1,379				
	Okaiawa	23-Jul-06	0				
	Foxton	23-Jul-06	1,282				
	Pauatahanui No.1	23-Jul-06	1,378				
	Mangaroa	23-Jul-06	713				
	Patea	23-Jul-06	617				
	Otaki	23-Jul-06	652				
	Manaia	23-Jul-06	510				
	Mangatainoka	23-Jul-06	1				
	Waitotara	23-Jul-06	565				
	Lake Alice	23-Jul-06	704				
	Kaitoke	23-Jul-06	547				
	Ashhurst	23-Jul-06	232				
	Waverley	23-Jul-06	11				
	Paekakariki	23-Jul-06	6				
	Kuku	23-Jul-06	25				
	Te Horo	23-Jul-06	34				
	Matapu	23-Jul-06	8				
	Pauatahanui No.2	23-Jul-06	0				
	Oroua Downs	23-Jul-06	1				
	Flockhouse	23-Jul-06	1				
	Kairanga	23-Jul-06	0				
			11,225				
	TOTAL THROUGHPUT		290,885				

ie Average per Offtake<2,000 GJ = 468

Note 1: also excludes CAPEX costs for offtake upgrade needed for increased throughput.

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			Week Ending	Throughput
			(GJ)	(Factor)	(GJ)		(GJ)
Mokoia		23-Jul-06	82,702	n/a	n/a	09-Jul-06	86,330
	offtakes > 2,000 GJ per week						
	Tawa	23-Jul-06	78,154	1.85	66,431	23-Jul-06	78,154
	Belmont	23-Jul-06	51,893	2.30	67,461	23-Jul-06	51,893
	Hastings	23-Jul-06	45,098	2.22	55,020	03-Jun-07	52,083
	Palmerston North	23-Jul-06	28,849	1.97	27,984	24/06.07	30,750
	Wanganui	23-Jul-06	21,249	31.50	648,095	24-Jun-07	22,579
	Hawera	23-Jul-06	6,550	70.00	451,950	24-Sep-06	15,477
	Levin	23-Jul-06	8,714	4.70	32,242	24-Jun-07	8,798
	Waitangirua	23-Jul-06	9,670	7.50	7,940	23-Jul-06	9,670
	Feilding	23-Jul-06	8,937	4.45	30,833	23-Jul-06	8,937
	Longburn	23-Jul-06	5,223	9.50	44,396	22-Oct-06	9,041
	Marton	23-Jul-06	4,776	12.50	54,924	17-Jun-07	5,146
	Dannevirke	23-Jul-06	3,134	27.00	81,484	09-Jul-06	3,594
	Takapau	23-Jul-06	2,857	20.50	55,712	10-Dec-06	3,306
	Paraparaumu	23-Jul-06	4,556	15.75	67,201	23-Jul-06	4,556
			279,660				
	offtakes < 2,000 per week						
	Pahiatua	23-Jul-06	754				
	Waikanae	23-Jul-06	1,805				
	Kakariki	23-Jul-06	1,379				
	Okaiawa	23-Jul-06	0				
	Foxton	23-Jul-06	1,282				
	Pauatahanui No.1	23-Jul-06	1,378				
	Mangaroa	23-Jul-06	713				
	Patea	23-Jul-06	617				
	Otaki	23-Jul-06	652				
	Manaia	23-Jul-06	510				
	Mangatainoka	23-Jul-06	1				
	Waitotara	23-Jul-06	565				
	Lake Alice	23-Jul-06	704				
	Kaitoke	23-Jul-06	547				
	Ashhurst	23-Jul-06	232				
	Waverley	23-Jul-06	11				
	Paekakariki	23-Jul-06	6				
	Kuku	23-Jul-06	25				
	Te Horo	23-Jul-06	34				
	Matapu	23-Jul-06	8				
	Pauatahanui No.2	23-Jul-06	0				
	Oroua Downs	23-Jul-06	1				
	Flockhouse	23-Jul-06	1				
	Kairanga	23-Jul-06	0				
			11,225				
	TOTAL THROUGHPUT		290,885				

ie Average per Offtake<2,000 GJ = 468

Note 1: also excludes CAPEX costs for offtake upgrade needed for 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 23 July 2006

OFFTAKE POINTS	INCREASE WITH NO CAPEX		CRITICAL POINT(S) LIMITING THROUGHPUT	MEANS TO REMOVE LIMITATION	CAPITAL COST	INCREASE (Limit removed)	
	(Factor)	(GJ)			($000)	(Factor)	(GJ)
Tawa	1.85	66,431	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	36,330	3.15	168,031
Belmont	2.30	67,461	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	36,330	4.20	166,058
Hastings	2.22	55,020	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	36,330	3.12	95,608
Palmerston North	1.97	27,984	Palmerston North lateral	Upgrade Kaitoke cpr, link Palmerston Nth DP to 113 line	7,140	4.10	89,432
Wanganui	17.50	350,609	Kapuni to Hawera (unlooped) pipeline	Loop Kapuni to Hawera, upgrade Kapuni and Kaitoki compression	29,870	30.50	626,846
Hawera	67.50	435,575	Kapuni to Hawera (unlooped) pipeline	Loop Kapuni to Hawera, upgrade Kapuni and Kaitoki compression	29,870	237.00	1,545,800
Levin	4.70	32,242	Levin lateral	Upgrade Kaitoke cpr, loop Levin lateral	8,510	10.00	78,426
Waitangirua	7.50	7,940	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	36,330	17.20	156,654
Feilding	4.45	30,833	Feilding lateral	Upgrade Kaitoke cpr, loop Feilding lateral	10,160	8.60	67,921
Longburn	9.50	44,396	Longburn lateral	Upgrade Kaitoke cpr, loop Longburn lateral	9,270	18.00	88,791
Marton	12.50	54,924	Marton lateral	Upgrade Kaitoke cpr, loop Marton lateral	16,070	23.20	106,027
Dannevirke	27.00	81,484	Kaitoke to Himatangi pipeline	Upgrade Kaitake cpr, loop from Kaitaki to Himatangi	36,330	51.00	156,700
Tahapau	20.50	55,712	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	36,330	37.00	102,852
Paraparaumu	15.75	67,201	Kaitoke to Himatangi pipeline	Upgrade Kaitoke cpr, loop from Kaitoke to Himatangi	36,330	38.00	168,572

note: 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.

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

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