EDB Information Disclosure Requirements

Information Templates

for

Schedules 1–10

Company Name	Waipa Networks Limited
Disclosure Date	25 August 2015
Disclosure Year (year ended)	31 March 2015

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 24 March 2015

Table of Contents

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
Operational expenditure	14,742	213	75,970	2,476	22,739
Network	6,747	98	34,767	1,133	10,407
Non-network	7,995	116	41,202	1,343	12,333
Expenditure on assets	20,700	299	106,674	3,477	31,930
Network	20,526	297	105,776	3,448	31,661
Non-network	174	3	899	29	269

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	64,744	936
Standard consumer line charge revenue	74,309	892
Non-standard consumer line charge revenue	17,808	536,000

1(iii): Service intensity measures

Demand density	33	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	168	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	12	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	14,456	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	5,242	22.80%
Pass-through and recoverable costs excluding financial incentives and wash-ups	8,449	36.75%
Total depreciation	3,400	14.79%
Total revaluations	76	0.33%
Regulatory tax allowance	1,178	5.12%
Regulatory profit/(loss) including financial incentives and wash-ups	4,800	20.88%
Total regulatory income	22,993	

1(v): Reliability

Interruption rate	12.05	*Interruptions per 100 circuit km*

Company Name	**Waipa Networks Limited**
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SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		CY-2	CY-1	Current Year CY
7	**2(i): Return on Investment**			
8		**31 Mar 13**	**31 Mar 14**	**31 Mar 15**
9	**ROI – comparable to a post tax WACC**	**%**	**%**	**%**
10	Reflecting all revenue earned	6.38%	7.22%	4.63%
11	Excluding revenue earned from financial incentives	6.38%	7.22%	4.63%
12	Excluding revenue earned from financial incentives and wash-ups	6.38%	7.22%	4.63%
13				
14	**Mid-point estimate of post tax WACC**	5.85%	5.43%	6.10%
15	25th percentile estimate	5.13%	4.71%	5.39%
16	75th percentile estimate	6.56%	6.14%	6.82%
17				
18				
19	**ROI – comparable to a vanilla WACC**			
20	Reflecting all revenue earned	7.16%	7.90%	5.41%
21	Excluding revenue earned from financial incentives	7.16%	7.90%	5.41%
22	Excluding revenue earned from financial incentives and wash-ups	7.16%	7.90%	5.41%
23				
24	**WACC rate used to set regulatory price path**			
25				
26	**Mid-point estimate of vanilla WACC**	6.62%	6.11%	6.89%
27	25th percentile estimate	5.91%	5.39%	6.17%
28	75th percentile estimate	7.34%	6.83%	7.60%
29				

30	**2(ii): Information Supporting the ROI**			**($000)**	
31					
32		Total opening RAB value	91,331		
33	*plus*	Opening deferred tax	(2,162)		
34	**Opening RIV**			89,169	
35					
36	**Line charge revenue**			23,022	
37					
38		Expenses cash outflow	13,691		
39	*add*	Assets commissioned	3,376		
40	*less*	Asset disposals	174		
41	*add*	Tax payments	844		
42	*less*	Other regulated income	(29)		
43	**Mid-year net cash outflows**			17,765	
44					
45	**Term credit spread differential allowance**			–	
46					
47		Total closing RAB value	91,209		
48	*less*	Adjustment resulting from asset allocation	(0)		
49	*less*	Lost and found assets adjustment	–		
50	*plus*	Closing deferred tax	(2,496)		
51	**Closing RIV**			88,713	
52					
53	**ROI – comparable to a vanilla WACC**				5.41%
54					
55		Leverage (%)			44%
56		Cost of debt assumption (%)			6.36%
57		Corporate tax rate (%)			28%
58					
59	**ROI – comparable to a post tax WACC**				4.63%
60					

Company Name	**Waipa Networks Limited**
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SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

2(iii): Information Supporting the Monthly ROI

Opening RIV — N/A

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April						–
May						–
June						–
July						–
August						–
September						–
October						–
November						–
December						–
January						–
February						–
March						–
Total	–	–	–	–	–	–

Tax payments — N/A

Term credit spread differential allowance — N/A

Closing RIV — N/A

Monthly ROI – comparable to a vanilla WACC — N/A

Monthly ROI – comparable to a post tax WACC — N/A

2(iv): Year-End ROI Rates for Comparison Purposes

Year-end ROI – comparable to a vanilla WACC — 5.28%

Year-end ROI – comparable to a post tax WACC — 4.50%

** these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.*

2(v): Financial Incentives and Wash-Ups

Net recoverable costs allowed under incremental rolling incentive scheme	–	
Purchased assets – avoided transmission charge		
Energy efficiency and demand incentive allowance		
Quality incentive adjustment		
Other financial incentives		
Financial incentives		–

Impact of financial incentives on ROI — –

Input methodology claw-back		
Recoverable customised price-quality path costs		
Catastrophic event allowance		
Capex wash-up adjustment		
Transmission asset wash-up adjustment		
2013–2015 NPV wash-up allowance		
Reconsideration event allowance		
Other wash-ups		
Wash-up costs		–

Impact of wash-up costs on ROI — –

Company Name	**Waipa Networks Limited**
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SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref				
7	**3(i): Regulatory Profit**			**($000)**
8		**Income**		
9		Line charge revenue		23,022
10	*plus*	Gains / (losses) on asset disposals		(128)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)		99
12				
13		**Total regulatory income**		22,993
14		**Expenses**		
15	*less*	Operational expenditure		5,242
16				
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups		8,449
18				
19		**Operating surplus / (deficit)**		9,302
20				
21	*less*	Total depreciation		3,400
22				
23	*plus*	Total revaluations		76
24				
25		**Regulatory profit / (loss) before tax**		5,978
26				
27	*less*	Term credit spread differential allowance		–
28				
29	*less*	Regulatory tax allowance		1,178
30				
31		**Regulatory profit/(loss) including financial incentives and wash-ups**		4,800
32				
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**		**($000)**	
34		**Pass through costs**		
35		Rates	90	
36		Commerce Act levies	11	
37		Industry levies	76	
38		CPP specified pass through costs		
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	8,226	
41		Transpower new investment contract charges	46	
42		System operator services		
43		Distributed generation allowance		
44		Extended reserves allowance		
45		Other recoverable costs excluding financial incentives and wash-ups		
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		8,449
47				

Company Name	**Waipa Networks Limited**
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SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).
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sch ref

3(iii): Incremental Rolling Incentive Scheme

($000)

		CY-1 31 Mar 14	CY 31 Mar 15
51	Allowed controllable opex		
52	Actual controllable opex		
53			
54	Incremental change in year		
55			

			Previous years' incremental change	Previous years' incremental change adjusted for inflation
56				
57	CY-5	31 Mar 10		
58	CY-4	31 Mar 11		
59	CY-3	31 Mar 12		
60	CY-2	31 Mar 13		
61	CY-1	31 Mar 14		
62	**Net incremental rolling incentive scheme**			–
63				
64	**Net recoverable costs allowed under incremental rolling incentive scheme**			–

3(iv): Merger and Acquisition Expenditure

($000)

66	Merger and acquisition expenditure	–
67		
68	*Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)*	

3(v): Other Disclosures

($000)

71	Self-insurance allowance	–

Company Name	**Waipa Networks Limited**
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SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(i): Regulatory Asset Base Value (Rolled Forward)

		for year ended	RAB 31 Mar 11 ($000)	RAB 31 Mar 12 ($000)	RAB 31 Mar 13 ($000)	RAB 31 Mar 14 ($000)	RAB 31 Mar 15 ($000)
	Total opening RAB value		81,668	85,852	88,086	89,783	91,331
less	**Total depreciation**		3,011	3,127	3,220	3,301	3,400
plus	**Total revaluations**		1,966	1,345	755	1,374	76
plus	**Assets commissioned**		5,414	4,228	4,392	3,650	3,376
less	**Asset disposals**		186	211	230	175	174
plus	**Lost and found assets adjustment**		–	–	–	–	–
plus	**Adjustment resulting from asset allocation**		–	–	–	–	(0)
	Total closing RAB value		85,852	88,086	89,783	91,331	91,209

4(ii): Unallocated Regulatory Asset Base

		Unallocated RAB * ($000)	Unallocated RAB * ($000)	RAB ($000)	RAB ($000)
	Total opening RAB value		96,502		91,331
less					
	Total depreciation		3,642		3,400
plus					
	Total revaluations		81		76
plus					
	Assets commissioned (other than below)	3,381		3,376	
	Assets acquired from a regulated supplier				
	Assets acquired from a related party				
	Assets commissioned		3,381		3,376
less					
	Asset disposals (other than below)	174		174	
	Asset disposals to a regulated supplier				
	Asset disposals to a related party				
	Asset disposals		174		174
plus	**Lost and found assets adjustment**				
plus	**Adjustment resulting from asset allocation**				(0)
	Total closing RAB value		96,147		91,209

** The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.*

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SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(iii): Calculation of Revaluation Rate and Revaluation of Assets

	CPI_4	1,193
	CPI_4^{-4}	1,192
	Revaluation rate (%)	0.08%

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
	Total opening RAB value	96,502		91,331	
less	Opening value of fully depreciated, disposed and lost assets	203		203	
	Total opening RAB value subject to revaluation	96,299		91,128	
	Total revaluations		81		76

4(iv): Roll Forward of Works Under Construction

		Unallocated works under construction		Allocated works under construction	
	Works under construction—preceding disclosure year		2,890		2,890
plus	Capital expenditure	5,537		5,532	
less	Assets commissioned	3,381		3,376	
plus	Adjustment resulting from asset allocation			–	
	Works under construction - current disclosure year		5,047		5,047
	Highest rate of capitalised finance applied				–

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SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.
EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(v): Regulatory Depreciation

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
79	Depreciation - standard	3,208		3,208	
80	Depreciation - no standard life assets	434		192	
81	Depreciation - modified life assets				
82	Depreciation - alternative depreciation in accordance with CPP				
83	**Total depreciation**		3,642		3,400

4(vi): Disclosure of Changes to Depreciation Profiles

($000 unless otherwise specified)

	Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation
87					
88					
89					
90					
91					
92					
93					
94					

** include additional rows if needed*

4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total	
99	**Total opening RAB value**				30,897	18,674	23,301	11,707	4,671	2,081	91,331	
100	*less* Total depreciation				1,087	615	794	453	259	192	3,400	
101	*plus* Total revaluations				26	16	19	10	4	2	76	
102	*plus* Assets commissioned				170	219	1,605	1,005	313	62	3,376	
103	*less* Asset disposals				–	–	164	–	–	10	174	
104	*plus* Lost and found assets adjustment										–	
105	*plus* Adjustment resulting from asset allocation										–	
106	*plus* Asset category transfers										–	
107	**Total closing RAB value**	–	–	–	30,006	18,294	23,968	12,269	4,730	1,943	91,209	
108												
109	**Asset Life**											
110	Weighted average remaining asset life				31	28	26	21	18	56		(years)
111	Weighted average expected total asset life				60	45	44	37	40	69		(years)

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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref					
7	**5a(i): Regulatory Tax Allowance**				**($000)**
8		**Regulatory profit / (loss) before tax**			5,978
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	376	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible		*	
12		Amortisation of initial differences in asset values	1,614		
13		Amortisation of revaluations	90		
14					2,079
15					
16	*less*	Total revaluations	76		
17		Income included in regulatory profit / (loss) before tax but not taxable		*	
18		Discretionary discounts and customer rebates	1,355		
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax		*	
20		Notional deductible interest	2,420		
21					3,851
22					
23		**Regulatory taxable income**			4,206
24					
25	*less*	Utilised tax losses	–		
26		Regulatory net taxable income			4,206
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			1,178
30					
31	* Workings to be provided in Schedule 14				
32	**5a(ii): Disclosure of Permanent Differences**				
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).			
34	**5a(iii): Amortisation of Initial Difference in Asset Values**				**($000)**
35					
36		Opening unamortised initial differences in asset values	50,029		
37	*less*	Amortisation of initial differences in asset values	1,614		
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–		
39	*less*	Adjustment for unamortised initial differences in assets disposed	(156)		
40		Closing unamortised initial differences in asset values			48,571
41					
42		Opening weighted average remaining useful life of relevant assets (years)			31
43					

Company Name	**Waipa Networks Limited**
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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref					
44	**5a(iv): Amortisation of Revaluations**				**($000)**
45					
46		Opening sum of RAB values without revaluations		89,109	
47					
48		Adjusted depreciation		3,311	
49		Total depreciation		3,400	
50		Amortisation of revaluations			90
51					
52	**5a(v): Reconciliation of Tax Losses**				**($000)**
53					
54		**Opening tax losses**		–	
55	*plus*	Current period tax losses		–	
56	*less*	Utilised tax losses		–	
57		**Closing tax losses**			–
58	**5a(vi): Calculation of Deferred Tax Balance**				**($000)**
59					
60		**Opening deferred tax**		(2,162)	
61					
62	*plus*	Tax effect of adjusted depreciation		927	
63					
64	*less*	Tax effect of tax depreciation		856	
65					
66	*plus*	Tax effect of other temporary differences*		3	
67					
68	*less*	Tax effect of amortisation of initial differences in asset values		452	
69					
70	*plus*	Deferred tax balance relating to assets acquired in the disclosure year		–	
71					
72	*less*	Deferred tax balance relating to assets disposed in the disclosure year		(44)	
73					
74	*plus*	Deferred tax cost allocation adjustment		0	
75					
76		**Closing deferred tax**			(2,496)
77					
78	**5a(vii): Disclosure of Temporary Differences**				
79		*In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).*			
80					
81	**5a(viii): Regulatory Tax Asset Base Roll-Forward**				
82					**($000)**
83		**Opening sum of regulatory tax asset values**		27,421	
84	*less*	Tax depreciation		3,057	
85	*plus*	Regulatory tax asset value of assets commissioned		3,567	
86	*less*	Regulatory tax asset value of asset disposals		17	
87	*plus*	Lost and found assets adjustment		–	
88	*plus*	Adjustment resulting from asset allocation		–	
89	*plus*	Other adjustments to the RAB tax value		–	
90		**Closing sum of regulatory tax asset values**			27,913

Company Name	**Waipa Networks Limited**
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SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID determination.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5b(i): Summary—Related Party Transactions

	($000)
Total regulatory income	-
Operational expenditure	2,711
Capital expenditure	4,966
Market value of asset disposals	
Other related party transactions	

5b(ii): Entities Involved in Related Party Transactions

Name of related party	Related party relationship
Waikato Tree Services	Trading Name of Waipa Networks Limited
Waipa Networks - Contracting	Trading Department of Waipa Networks Limited

** include additional rows if needed*

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value
Waikato Tree Services	Opex	Vegetation management	444	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	Service interruptions and emergencies	900	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	Routine and corrective maintenance	677	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	Asset replacement and renewal	378	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	System operations and network support	312	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Capex	Electrical Contracting Services	4,966	ID clause 2.3.6(1)(f)

** include additional rows if needed*

Company Name	**Waipa Networks Limited**
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SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5c(i): Qualifying Debt (may be Commission only)

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment
** include additional rows if needed*						–	–	–	–

5c(ii): Attribution of Term Credit Spread Differential

Gross term credit spread differential		–
Total book value of interest bearing debt		
Leverage	44%	
Average opening and closing RAB values		
Attribution Rate (%)		–
Term credit spread differential allowance		–

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For Year Ended	**31 March 2015**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(i): Operating Cost Allocations

	Value allocated ($000s)				
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		900			
Not directly attributable				–	
Total attributable to regulated service		900			
Vegetation management					
Directly attributable		444			
Not directly attributable				–	
Total attributable to regulated service		444			
Routine and corrective maintenance and inspection					
Directly attributable		677			
Not directly attributable				–	
Total attributable to regulated service		677			
Asset replacement and renewal					
Directly attributable		378			
Not directly attributable				–	
Total attributable to regulated service		378			
System operations and network support					
Directly attributable		897			
Not directly attributable		74	159	233	
Total attributable to regulated service		971			
Business support					
Directly attributable		1,515			
Not directly attributable		357	178	535	
Total attributable to regulated service		1,872			
Operating costs directly attributable		4,811			
Operating costs not directly attributable	–	431	337	768	–
Operational expenditure		5,242			

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(ii): Other Cost Allocations

		($000)
	Pass through and recoverable costs	
	Pass through costs	
	Directly attributable	177
	Not directly attributable	–
	Total attributable to regulated service	177
	Recoverable costs	
	Directly attributable	8,272
	Not directly attributable	–
	Total attributable to regulated service	8,272

5d(iii): Changes in Cost Allocations* †

Change in cost allocation 1

			($000) CY-1	($000) Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in cost allocation 2

			($000) CY-1	($000) Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in cost allocation 3

			($000) CY-1	($000) Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

** a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*

† include additional rows if needed

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4.
EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5e(i): Regulated Service Asset Values

	Value allocated ($000s) Electricity distribution services
Subtransmission lines	
Directly attributable	–
Not directly attributable	–
Total attributable to regulated service	–
Subtransmission cables	
Directly attributable	–
Not directly attributable	–
Total attributable to regulated service	–
Zone substations	
Directly attributable	–
Not directly attributable	–
Total attributable to regulated service	–
Distribution and LV lines	
Directly attributable	30,006
Not directly attributable	–
Total attributable to regulated service	30,006
Distribution and LV cables	
Directly attributable	18,294
Not directly attributable	–
Total attributable to regulated service	18,294
Distribution substations and transformers	
Directly attributable	23,968
Not directly attributable	–
Total attributable to regulated service	23,968
Distribution switchgear	
Directly attributable	12,269
Not directly attributable	–
Total attributable to regulated service	12,269
Other network assets	
Directly attributable	4,730
Not directly attributable	–
Total attributable to regulated service	4,730
Non-network assets	
Directly attributable	444
Not directly attributable	1,499
Total attributable to regulated service	1,943
Regulated service asset value directly attributable	89,710
Regulated service asset value not directly attributable	1,499
Total closing RAB value	91,209

5e(ii): Changes in Asset Allocations* †

Change in asset value allocation 1

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in asset value allocation 2

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

Change in asset value allocation 3

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

** a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*
† include additional rows if needed

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		2,211
9		System growth		188
10		Asset replacement and renewal		876
11		Asset relocations		500
12		Reliability, safety and environment:		
13		Quality of supply	3,073	
14		Legislative and regulatory	–	
15		Other reliability, safety and environment	451	
16		**Total reliability, safety and environment**		3,524
17		**Expenditure on network assets**		7,299
18		Expenditure on non-network assets		62
19				
20		**Expenditure on assets**		7,361
21	*plus*	Cost of financing		29
22	*less*	Value of capital contributions		1,857
23	*plus*	Value of vested assets		
24				
25		**Capital expenditure**		5,532

6a(ii): Subcomponents of Expenditure on Assets (where known)

		($000)
27	Energy efficiency and demand side management, reduction of energy losses	–
28	Overhead to underground conversion	330
29	Research and development	–

6a(iii): Consumer Connection

	*Consumer types defined by EDB**	($000)	($000)
32	Residential	1,801	
33	Commercial	411	
34			
35			
36			

** include additional rows if needed*

38	**Consumer connection expenditure**		2,211
40	*less* Capital contributions funding consumer connection expenditure	1,244	
41	**Consumer connection less capital contributions**		967

6a(iv): System Growth and Asset Replacement and Renewal

		System Growth ($000)	Asset Replacement and Renewal ($000)
45	Subtransmission	–	–
46	Zone substations	–	–
47	Distribution and LV lines	12	23
48	Distribution and LV cables	47	90
49	Distribution substations and transformers	–	381
50	Distribution switchgear	129	78
51	Other network assets	–	303
52	**System growth and asset replacement and renewal expenditure**	188	876
53	*less* Capital contributions funding system growth and asset replacement and renewal	30	50
54	**System growth and asset replacement and renewal less capital contributions**	158	826

6a(v): Asset Relocations

	*Project or programme**	($000)	($000)
58	Waikato Expressway	383	
59			
60			
61			
62			

** include additional rows if needed*

64	All other projects or programmes - asset relocations	117	
65	**Asset relocations expenditure**		500
66	*less* Capital contributions funding asset relocations	527	
67	**Asset relocations less capital contributions**		(27)

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.
EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

6a(vi): Quality of Supply

sch ref		*Project or programme**	($000)	($000)
		Install 11kV Dropout fuses spurs & services	121	
		Replace Disconnectors	2	
		Install remote control switches	406	
		Install TMU-HTI 110kV line	2,333	
		** include additional rows if needed*		
		All other projects programmes - quality of supply	211	
		Quality of supply expenditure		3,073
	less	Capital contributions funding quality of supply	5	
		Quality of supply less capital contributions		3,068

6a(vii): Legislative and Regulatory

		*Project or programme**	($000)	($000)
		** include additional rows if needed*		
		All other projects or programmes - legislative and regulatory	–	
		Legislative and regulatory expenditure		–
	less	Capital contributions funding legislative and regulatory	–	
		Legislative and regulatory less capital contributions		–

6a(viii): Other Reliability, Safety and Environment

		*Project or programme**	($000)	($000)
		Replace two pole sub structures	145	
		Replace Ring Main Units	7	
		** include additional rows if needed*		
		All other projects or programmes - other reliability, safety and environment	300	
		Other reliability, safety and environment expenditure		451
	less	Capital contributions funding other reliability, safety and environment	2	
		Other reliability, safety and environment less capital contributions		449

6a(ix): Non-Network Assets

Routine expenditure

		*Project or programme**	($000)	($000)
		** include additional rows if needed*		
		All other projects or programmes - routine expenditure	62	
		Routine expenditure		62

Atypical expenditure

		*Project or programme**	($000)	($000)
		** include additional rows if needed*		
		All other projects or programmes - atypical expenditure	–	
		Atypical expenditure		–
		Expenditure on non-network assets		62

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.
EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		($000)	($000)
7	**6b(i): Operational Expenditure**		
8	Service interruptions and emergencies	900	
9	Vegetation management	444	
10	Routine and corrective maintenance and inspection	677	
11	Asset replacement and renewal	378	
12	**Network opex**		2,399
13	System operations and network support	971	
14	Business support	1,872	
15	**Non-network opex**		2,843
16			
17	**Operational expenditure**		5,242
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		138
20	Direct billing*		N/A
21	Research and development		N/A
22	Insurance		–
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

7(i): Revenue

	Target ($000) [1]	Actual ($000)	% variance
Line charge revenue	24,526	23,022	(6%)

7(ii): Expenditure on Assets

	Forecast ($000) [2]	Actual ($000)	% variance
Consumer connection	2,192	2,211	1%
System growth	195	188	(4%)
Asset replacement and renewal	877	876	(0%)
Asset relocations	380	500	32%
Reliability, safety and environment:			
Quality of supply	12,295	3,073	(75%)
Legislative and regulatory	–	–	–
Other reliability, safety and environment	234	451	93%
Total reliability, safety and environment	12,529	3,524	(72%)
Expenditure on network assets	16,173	7,299	(55%)
Expenditure on non-network assets	982	62	(94%)
Expenditure on assets	17,155	7,361	(57%)

7(iii): Operational Expenditure

Service interruptions and emergencies	572	900	57%
Vegetation management	501	444	(11%)
Routine and corrective maintenance and inspection	711	677	(5%)
Asset replacement and renewal	319	378	18%
Network opex	2,103	2,399	14%
System operations and network support	1,116	971	(13%)
Business support	1,658	1,872	13%
Non-network opex	2,774	2,843	2%
Operational expenditure	4,877	5,242	7%

7(iv): Subcomponents of Expenditure on Assets (where known)

Energy efficiency and demand side management, reduction of energy losses	–	–	–
Overhead to underground conversion	195	330	69%
Research and development	–	–	–

7(v): Subcomponents of Operational Expenditure (where known)

Energy efficiency and demand side management, reduction of energy losses	–	138	–
Direct billing	–	N/A	–
Research and development	–	N/A	–
Insurance	–	–	–

1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination

2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component

Consumer group name or price category code	type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Price component	Combined	Uncontrolled	Controlled	Controlled 8	Day	Night	StreetLights	Fixed Daily Charge	Capacity charges	Monthly Charge	Transformer
					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	kWh	kWh	kWh	kWh	kWh	kWh	kWh	Days	kVA of capacity		
Domestic	Residential	Standard	19,215	147,934		42,463,291	81,328,374	23,136,512	736,778	180,032	89,053					
Non Domestic	Commercial	Standard	5,251	110,993			89,254,587	13,729,450	746,213	3,856,502	1,603,591	1,802,980				
Unmetered	Commercial	Standard	101	–												
Contract	Commercial	Standard	25	22,846			22,639,518			140,017	66,420					
11KV	Commercial	Standard	4	13,616						10,199,789	3,416,083					
11KV	Commercial	Non-standa	2	60,196			60,196,119									

Add extra columns for additional billed quantities by price component as necessary

Add extra rows for additional consumer groups or price category codes as necessary

Standard consumer totals	24,596	295,389	42,463,291	193,222,479	36,865,962	1,482,991	14,376,340	5,175,147	1,802,980	–	–	–	–
Non-standard consumer totals	2	60,196	–	60,196,119	–	–	–	–	–	–	–	–	–
Total for all consumers	24,598	355,585	42,463,291	253,418,598	36,865,962	1,482,991	14,376,340	5,175,147	1,802,980	–	–	–	–

8(ii): Line Charge Revenues ($000) by Price Component

Line charge revenues ($000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Price component	Combined	Uncontrolled	Controlled	Controlled 8	Day	Night	StreetLights	Fixed Daily Charge	Capacity charges	Monthly Charge	Transformer
							Rate (eg, $ per day, $ per kWh, etc.)											
Domestic	Residential	Standard	$11,070	$1,099	$11,070			$3,075	$6,552	$362	$7	$21	$1		$1,052			
Non Domestic	Commercial	Standard	$8,592	$867	$8,592				$7,190	$215	$8	$445	$16	$143	$575			
Unmetered	Commercial	Standard	$37	–	$37										$37			
400V Capacity (	Commercial	Standard	$1,402	$85	$1,402				$826			$7	$1			$568		
11KV	Commercial	Standard	$849	–	$849							$415	$42			$356	$2	$34
11KV	Commercial	Non-standard	$1,072	–	$1,072												$1,072	
			–															
			–															
			–															
			–															

Add extra columns for additional line charge revenues by price component as necessary

Add extra rows for additional consumer groups or price category codes as necessary

Standard consumer totals	$21,950	$2,051	$21,950	–	$3,075	$14,568	$577	$15	$888	$60	$143	$1,664	$924	$2	$34
Non-standard consumer totals	$1,072	–	$1,072	–	–	–	–	–	–	–	–	–	–	$1,072	–
Total for all consumers	$23,022	$2,051	$23,022	–	$3,075	$14,568	$577	$15	$888	$60	$143	$1,664	$924	$1,074	$34

8(iii): Number of ICPs directly billed

Check OK

Number of directly billed ICPs 2

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	20,283	20,334	51	4
10	All	Overhead Line	Wood poles	No.	1,757	1,698	(59)	4
11	All	Overhead Line	Other pole types	No.	–	–	–	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	–	N/A
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	N/A
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	N/A
29	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	N/A
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	N/A
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	N/A
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,229	1,227	(2)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	–	–	–	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	115	121	5	4
39	HV	Distribution Cable	Distribution UG PILC	km	1	1	–	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	106	108	2	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	4,918	4,962	44	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	N/A
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	76	78	2	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	2,714	2,712	(2)	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	657	688	31	4
48	HV	Distribution Transformer	Voltage regulators	No.	47	47	–	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	N/A
50	LV	LV Line	LV OH Conductor	km	500	501	1	4
51	LV	LV Cable	LV UG Cable	km	254	267	13	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	130	134	4	4
53	LV	Connections	OH/UG consumer service connections	No.	24,388	24,830	442	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	N/A
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	–	4
56	All	Capacitor Banks	Capacitors including controls	No	–	–	–	N/A
57	All	Load Control	Centralised plant	Lot	3	3	–	4
58	All	Load Control	Relays	No	17,759	17,956	197	3
59	All	Civils	Cable Tunnels	km	–	–	–	N/A

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

8 **Disclosure Year (year ended)** 31 March 2015

Number of assets at disclosure year end by installation date

9	Voltage	Asset category	Asset class	Units	pre-1940	1940 –1949	1950 –1959	1960 –1969	1970 –1979	1980 –1989	1990 –1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	No.	–	–	12	1,748	3,557	8,819	2,585	197	203	204	290	217	269	208	206	259	251	306	262	226	239	249	27		20,334		4
11	All	Overhead Line	Wood poles	No.	–	–	18	276	244	503	557	4	2	1	3	2	1	5	6	1	1	45	–	28	1	–	–		1,698		3
12	All	Overhead Line	Other pole types	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–		–		N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0	–	–	6	50	913	240	2	5	0	6	0	2	–	0	0	1	1	–	0	–	–	0		1,227		3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
38	HV	Distribution Line	SWER conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	–	–	3	8	18	17	8	3	2	3	6	8	16	7	5	4	2	1	1	3	4	1		121		4
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	1	0	0	0	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–		1		4
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	–	–	–	–	4	–	1	–	–	–	–	8	5	6	8	8	6	14	13	14	13	8	–		108		4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1	13	120	346	1,177	588	433	48	112	94	162	132	170	172	159	158	146	135	175	177	201	204	39		4,962		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	–	–	–	–	–	–	–	–	–	–	1	6	8	10	5	13	8	4	4	7	9	3	–		78		4
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	1	–	54	265	309	502	443	50	63	83	70	72	97	104	51	120	59	51	84	71	82	81	–		2,712		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	–	–	1	6	54	80	58	19	20	10	19	21	47	30	44	40	43	29	50	41	45	31	–		688		4
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	–	6	2	4	2	6	4	4	3	3	9	–	–	–	3	–	–	–	1	–		47		4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
51	LV	LV Line	LV OH Conductor	km	0	–	–	1	19	399	80	1	0	–	0	0	0	–	–	–	–	–	–	0	0	–	–		501		3
52	LV	LV Cable	LV UG Cable	km	–	–	–	4	33	49	44	6	4	3	7	11	15	12	14	16	8	5	5	6	13	9	2		267		4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	0	–	–	1	16	68	17	3	0	0	0	1	5	3	4	5	2	2	0	0	3	3	1		134		3
54	LV	Connections	OH/UG consumer service connections	No.	5	78	971	4,150	5,041	5,026	3,042	308	284	326	438	441	538	568	620	449	374	367	349	373	473	523	86		24,830		3
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–		1		4
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A
58	All	Load Control	Centralised plant	Lot	–	–	–	–	1	–	–	1	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–		3		4
59	All	Load Control	Relays	No	–	4	50	260	190	127	119	4	21	3,027	2,688	1,342	186	208	215	379	1,736	1,299	1,222	1,735	1,427	1,590	127		17,956		3
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		N/A

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref				
9				
10	**Circuit length by operating voltage (at year end)**	**Overhead (km)**	**Underground (km)**	**Total circuit length (km)**
11	> 66kV	–	–	–
12	50kV & 66kV	–	–	–
13	33kV	–	–	–
14	SWER (all SWER voltages)	–	–	–
15	22kV (other than SWER)	–	–	–
16	6.6kV to 11kV (inclusive—other than SWER)	1,227	122	1,349
17	Low voltage (< 1kV)	501	267	768
18	**Total circuit length (for supply)**	1,728	389	2,117
19				
20	Dedicated street lighting circuit length (km)	68	66	134
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			
22				
23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**	
24	Urban	216	12%	
25	Rural	1,432	83%	
26	Remote only		–	
27	Rugged only	80	5%	
28	Remote and rugged		–	
29	Unallocated overhead lines		–	
30	**Total overhead length**	1,728	100%	
31				
32		**Circuit length (km)**	**(% of total circuit length)**	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	160	8%	
34		**Circuit length (km)**	**(% of total overhead length)**	
35	Overhead circuit requiring vegetation management	1,227	71%	

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

sch ref			
8	**Location ***	**Number of ICPs served**	**Line charge revenue ($000)**
9	N/A		
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

26 ** Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network*

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

*Consumer types defined by EDB**	**Number of connections (ICPs)**
Domestic	382
Non Domestic	89
Unmetered	35
11KV	–

** include additional rows if needed*

Connections total	506

Distributed generation

Number of connections made in year	25	**connections**
Capacity of distributed generation installed in year	0.12	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	69	
plus	Distributed generation output at HV and above	0	
	Maximum coincident system demand	69	
less	Net transfers to (from) other EDBs at HV and above		
	Demand on system for supply to consumers' connection points	69	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	377	
less	Electricity exports to GXPs	–	
plus	Electricity supplied from distributed generation	2	
less	Net electricity supplied to (from) other EDBs	1	
	Electricity entering system for supply to consumers' connection points	378	
less	Total energy delivered to ICPs	356	
	Electricity losses (loss ratio)	22	5.9%

Load factor	0.62

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	231
Distribution transformer capacity (Non-EDB owned, estimated)	49
Total distribution transformer capacity	280

Zone substation transformer capacity	N/A

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

10(i): Interruptions

	Interruptions by class	Number of interruptions
10	Class A (planned interruptions by Transpower)	2
11	Class B (planned interruptions on the network)	82
12	Class C (unplanned interruptions on the network)	163
13	Class D (unplanned interruptions by Transpower)	–
14	Class E (unplanned interruptions of EDB owned generation)	–
15	Class F (unplanned interruptions of generation owned by others)	–
16	Class G (unplanned interruptions caused by another disclosing entity)	–
17	Class H (planned interruptions caused by another disclosing entity)	–
18	Class I (interruptions caused by parties not included above)	8
19	**Total**	255

	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	118	45

	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	1.08	283.4
26	Class B (planned interruptions on the network)	0.10	28.5
27	Class C (unplanned interruptions on the network)	2.10	172.1
28	Class D (unplanned interruptions by Transpower)	–	–
29	Class E (unplanned interruptions of EDB owned generation)	–	–
30	Class F (unplanned interruptions of generation owned by others)	–	–
31	Class G (unplanned interruptions caused by another disclosing entity)	–	–
32	Class H (planned interruptions caused by another disclosing entity)	–	–
33	Class I (interruptions caused by parties not included above)	0.12	11.3
34	**Total**	3.40	495.2

	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	2.20	199.3

	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	N/A	N/A
41	** not applicable to exempt EDBs*		

Company Name	**Waipa Networks Limited**
For Year Ended	**31 March 2015**
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

10(ii): Class C Interruptions and Duration by Cause

Cause	SAIFI	SAIDI
Lightning	0.06	3.3
Vegetation	0.79	83.6
Adverse weather	0.11	4.1
Adverse environment	–	–
Third party interference	0.09	11.7
Wildlife	0.09	6.5
Human error	0.06	1.7
Defective equipment	0.60	43.8
Cause unknown	0.30	17.5

10(iii): Class B Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	–	–
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.09	25.6
Distribution cables (excluding LV)	0.01	2.2
Distribution other (excluding LV)	0.00	0.7

10(iv): Class C Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	–	–
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	1.92	156.0
Distribution cables (excluding LV)	–	–
Distribution other (excluding LV)	0.18	16.1

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	–	–	–
Subtransmission cables	–	–	–
Subtransmission other	–		
Distribution lines (excluding LV)	153	1,227	12.47
Distribution cables (excluding LV)	–	122	–
Distribution other (excluding LV)	10		
Total	163		