SEWERAGE SYSTEM - Forbes Shire Council serves a population of 7,900 (3,180 connected properties) and has 1 sewage treatment works providing tertiary treatment. The system comprises 12,000 EP treatment capacity (Intermittent Extended Aeration (Activated Sludge)), 17 pumping stations (20 ML/d), 13 km of rising mains and 76 km of gravity trunk mains and reticulation. 1% of effluent was recycled (Indicator 27) and the treated effluent is discharged to land and river. Forbes Shire Council has a Pollution Incident Response Management Plan (PIRMPs) for their sewage treatment works.

PERFORMANCE - Residential growth for 2013-14 was minimal. Forbes Shire Council achieved 100% implementation of the NSW BPM requirements. The 2014-15 typical residential bill was \$644 which was much less than the statewide median of \$669 (Indicator 12). The economic real rate of return was 0.8% which was less than the statewide median (Indicator 46). The operating cost per property (OMA) was \$470 which was above the statewide median of \$430 (Indicator 50). Sewage odour complaints were less than the statewide median of 1 (Indicator 21). Forbes Council reported no public health incidents. Council did not comply with the P requirements of the environmental regulator for effluent discharge. The current replacement cost of system assets was \$45M (\$14,100 per assessment), cash and investments were \$4M, debt was \$1M and revenue was \$2.3M (excluding capital works grants).

IMPLEMENTATION OF REQUIREMENTS OF NSW BEST-PRACTICE MANAGEMENT (BPM) FRAMEWORK

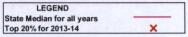
Complete current strategic business plan & financial plan (2a) Pricing - Full Cost Recovery without significant cross subsidies (2b) Pricing - Appropriate Residential Charges (2c) Pricing - Appropriate Non-Residential Charges	YES 11 Yes (2e) Pricing - DSP with commercial developer charges (2f) Pricing - Liquid trade waste approvals & policy Yes (3) Complete performance reporting (by 15 September) Yes (4) Integrated water cycle management strategy	Yes Yes YES YES 11
(2d) Pricing - Appropriate Non-Residential Charges (2d) Pricing - Appropriate Trade Waste Fees and Charges	Yes (4) Integrated water cycle management strategy Yes IMPLEMENTATION OF ALL REQUIREMENTS	YES 100%

,-	za) Pr	icing	- Ap	propriate Trade Waste Fees and Charges Yes IMPL	EMENT	ATION OF AL	L REQUIR	EMENTS		100%
IPLE	вот	TOM	LIN	E (TBL) PERFORMANCE INDICATORS						
	C5 1 Population served: 7,900					RESULT	3,001 to	All LWUs	MEDIANS Statewide National	
	so.	C8	2	Number of connected properties: 3,180 Number of assessments: 3,180			10,000 Note 1	Note 2	Note 3	Note
	CHARACTERISTICS	C6	3	Number of residential connected properties: 2,820		Col 1	Col 2	Col 3	Col 4	Col
	TER		4	New residences connected to sewerage (%)	%	0.2	5	5	1.0	
	RAC	A6	5	Properties served per kilometre of main	Prop/km	36	100		38	4
	CHA	W18	6	Volume of sewage collected (ML)	ML	684			4,600	5,7
			7	Renewals expenditure (% of current replacement cost of system assets)	%	1.9	1	1	0.5	
			8	Employees per 1000 properties per 1,	000 prop	1.9	4	3	1.6	
	32	P4		Description of residential tariff structure: access charge/prop; independent of land value						
	BILLS	P4.1			2013-14	466	2	2	625	
8	8 B	P6				644	3	4	669	
	CHARGES &	10		Typical residential bill for 2013-14 (\$/assessment) \$ Typical residential bill for 2014-15 (\$/assessment) \$ \$\$	2013-14	466 644	2 3	2 4	625 669	6
	ARG					4.080	3	3	5,100	
	9			Non-residential sewer usage charge (c/kL)	c/kL	147	3	3	136	
		F6		Revenue per property - Sge (\$)	\$	720	4	3	846	9
			16	Sewerage Coverage (% of Urban Population with Reticulated Sge Service)	%	82.0	5	5	97.9	_
	НЕАГТН	E3			%	100	1	1	98	
	Ę	E4		Percent of sewage volume treated that was compliant (%)	%	75	4	4	100	1
		E5	19	Number of sewage treatment works compliant at all times	1 130	0 of 1			10 E.E.	
1			21	Odour complaints per 1000 properties per 1,	000 prop	0.6	3	4	1.0	
SERVICE	LEVELS	C11	22		000 prop	7	2	2	8	
N CH	EVEN	C16	23a	Average sewerage interruption (minutes)	min	60	1	1	109	1
			25	Total days lost (%)	%	1.4	2	3	2.9	
		W19	26	Volume of sewage collected per property (kL)	kL	215	4	3	221	2
g	5 =			Total recycled water supplied (ML)	ML	10	5	5	630	1
Call Call	ME	W27		Recycled water (% of effluent recycled)	%	1	5	4	12	
9	NAGE	E8		Biosolids reuse (%)	%				100	1
9	₹ ¥			Energy consumption - sewerage (kWh/ML)	kWh	1,223	5	5	770	
ENTA!	2	F12		Renewable energy consumption (% of total energy consumption) Net greenhouse gas emissions - WS & Sge (net tonnes CO2 equivalents per 1000 properties)	%	0 570	1 5	1 5	0 370	3
			33		otol NI 1		-		370	-
	,			Compliance with BOD in licence (%)	% M	100	1 0.5 mg	1	100	
IN.	N N		35	Compliance with SS in licence (%)	%	100	1	1	100	
MW	PERFORMANCE	A14	36		km main	79	5	5	37	-
NIBC	F. F.				km main	18	4	4	13	
E S	2 2	E13	37b	Sewer overflows reported to environmental regulator (per 100km of main)		0.0	1	1	0.8	0
			39	Non res & trade waste % of total sge volume	%	36	1	1	21	
			43	Revenue from non-residential plus trade waste charges (% of total revenue)	%	22	3	2	18	
	ш			Revenue from trade waste charges (% of total revenue)	%				2.0	
1	FINANCE			Economic real rate of return - Sge (%)	%	0.8	4	3	1.5	2
	NE NE			Return on assets - Sge (%)	%	0.9	4	3	1.3	
				Loan payment per property - Sge (\$)	\$	36	3	3	90	
			480	Net profit after tax - WS & Sge (\$'000)	\$'000	-48	5	4	1180	5
		F24 .		Operating cost (OMA) per 100 km of main (\$'000)	\$'000	1,680	4	4	1,730	
						470			430	- 4
			50	Operating cost (OMA) per property (\$) (Note 9)	\$	470	4	4		
_			50 51	Operating cost (OMA) per property (\$) (Note 9) Operating cost (OMA) per kL (cents)	c/kL	219	3	3	206	
_			50 51 52	Operating cost (OMA) per property (\$) (Note 9) Operating cost (OMA) per kL (cents) Management cost per property (\$)	c/kL	219 58	3 1	3 1	206 161	
_			50 51	Operating cost (OMA) per property (\$) (Note 9) Operating cost (OMA) per kL (cents) Management cost per property (\$) Treatment cost per property (\$)	c/kL	219 58 245	3 1 5	3 1 5	206 161 155	
-	EFFICIENCY		50 51 52 53	Operating cost (OMA) per property (\$) (Note 9) Operating cost (OMA) per kL (cents) Management cost per property (\$)	c/kL \$ \$	219 58 245 34	3 1	3 1 5 2	206 161 155 68	
			50 51 52 53 54	Operating cost (OMA) per property (\$) (Note 9) Operating cost (OMA) per kL (cents) Management cost per property (\$) Treatment cost per property (\$) Pumping cost per property (\$)	cAL \$ \$	219 58 245	3 1 5 2	3 1 5	206 161 155	

NOTES

- 1 Col 2 rankings are on a % of LWUs basis best reveals performance compared to similar sized LWUs (ie. Col 1 is compared with LWUs with 3,001 to 10,000).
- 2 Col 3 rankings are on a % of LWUs basis best reveals performance compared to all LWUs (ie. Col 1 is compared with all LWUs). see attachment.
- 3 Col 4 (Statewide Median) is on a % of connected properties basis- best reveals statewide performance (gives due weight to larger LWUs & reduces effect of smaller LWUs).
- 4 Col 5 (National Median) is the median value for the 66 utilities reporting sewerage performance in the National Performance Report 2013-14 (www.bom.gov.au).
- 5 LWUs are required to annually review key projections & actions in the later of their IWCM Strategy and financial plan and their Strategic Business Plan and to annually 'roll forward', review and update their 30-year total asset management plan (TAMP) and 30-year financial plan.
- 6 Non-residential access charge \$485, proportional to square of size of service connection. Sewer usage charge 147 c/kL.
- 7 Non-residential and trade waste volume was 36% of total sewage collected.
- Non-residential revenue was 22% of revenue from access, usage & trade waste charges, indicating fair pricing of services between the residential and non-residential sectors.
- 8 Compliance with Total N in Licence was 100%. Compliance with Total P in Licence was 75%.
- 9 Operating cost (OMA)/property was \$470. Components were: management (\$58), operation (\$184), maintenance (\$129), energy (\$68) and chemical (\$30).
- 10 Forbes Shire Council rehabilitations included 3.4% of its sewerage mains and 0.2% of its service connections. Renewals expenditure was \$980,000/100km of main.
- 11 As Forbes Shire Council's strategic business plan and financial plan are over 4 years old, it needs to prepare a 30-year IWCM Strategy and financial plan in accordance with the July 2014 IWCM Check List (www.water.nsw.gov.au).

Costs are in Jan 2014\$ except for graphs 12 and 14, which are in Jan 2015\$.



WATER SUPPLY SYSTEM - Forbes Shire Council serves a population of 7,900 (3,680 connected properties). Water is drawn from the Lachlan River and 2 bores (7.3 ML/d) to supply Forbes and Ootha. The water supply network comprises 1 rapid sand filter treatment works (26 ML/d), 4 service reservoirs (30 ML), 6 pumping stations, 26 ML/d delivery capacity into the distribution system, 30 km of transfer and trunk mains and 118 km of reticulation. Forbes has a dual supply with fully treated potable supply for indoor use (94%) and an untreated non-potable supply for outdoor uses (6%).

PERFORMANCE - Forbes Shire Council achieved 100% implementation of the NSW BPM requirements. The 2014-15 typical residential bill was \$529 which was close to the statewide median of \$582 (Indicator 14). However, the economic real rate of return was negative (Indicator 43). The operating cost (OMA) per property was \$623 which was well above the statewide median of \$400 (Indicator 49). Water quality complaints were similar to the statewide median of 3 (Indicator 25). Compliance was achieved for microbiological water quality (100% of the population, 1 of 1 zones compliant), chemical water quality and physical water quality. There were no failures of the chlorination system or the treatment system. Forbes Shire Council reported no water supply public health incidents. Current replacement cost of system assets was \$72M (\$19,700 per assessment). Cash and investments were \$10M, debt was nil and revenue was \$2.7M (excluding capital works grants).

IMPLEMENTATION OF REQUIREMENTS OF NSW BEST-PRACTICE MANAGEMENT (BPM) FRAMEWORK

2) (2 (2 (2	Complete Current Strategic Business Plan & Financial Plan (2a) Pricing - Full Cost Recovery, without significant cross subsidies (2b,2c) Pricing - Appropriate Residential Charges (2d) Pricing - Appropriate Non-residential Charges (2e) Pricing - DSP with Commercial Developer Charges		YES ¹² (3) Sound water conservation implemented Yes (4) Sound drought management implemented Yes (5) Complete performance reporting (by 15 September) Yes (6) Integrated water cycle management strategy Yes						YES YES YES YES 100%		
RIPLE BOTTOM LINE (TBL) PERFORMANCE INDICATORS NWI No.						LWU	RANKING 3.001 to All LWUs		MEDIANS		
		-			The second second		HEGGET	3,001 to 10,000	All LYYUS	Statewide	National
		C1 C4	1 Population served: 7900					Note 1	Note 2	Note 3	Note 4
		04	2 Number of connected properties: 3680 3 Residential connected properties (% of total)	Number of	assessments: 3650		Col 1	Col 2	Col 3	Col 4	Col 5
	CHARACTERISTICS		4 New residences connected to water supply (%)			% %	90		100	91	
WILLIA.	ERIS	А3	5 Properties served per kilometre of water main			Prop/km	0.4 27	4	4	0.9	25
E	ACT		6 Rainfall (% of median annual rainfall)			%	127	1	1	32 77	35
	HAR	W11	7 Total urban water supplied at master meters (ML)			ML	2.410			6,800	10,280
	0		8 Peak week to average consumption (%)			%	245	5	5	152	10,200
			9 Renewals expenditure (% of current replacement cost of system asse	rs)		%				0.5	
-	_		10 Employees per 1000 properties			1,000 prop	2.2	5	4	1.5	
		P1	Residential tariff structure for 2014-15: two part; independent of lan	d value; acces	s charge \$206	3 4.					
	SJ	P1.3	12a Residential water usage charge for 2013-14all usage (c/kL)			(2013-14)	77	5	5	208	185
	8 BIL	P3	12 Residential water usage charge for 2014-15all usage (c/kL) 14a Typical residential bill for 2013-14 (\$/assessment)			(2014-15)	90	5	5	213	
	SES	10	14 Typical residential bill for 2014-15 (\$/assessment)			(2013-14)	477	1	1	550	567
	CHARGES & BILLS		15 Typical developer charge for 2014-15 (\$/equivalent tenement)			(2014-15) (2014-15)	529 6.600	2	1	582	
	0	F4	16 Residential revenue from usage charges (% of residential bills)			%	63	2 4	2 4	5,500	co
		F5	17 Revenue per property - water (\$/property)			\$/prop	740	5	4	73 795	68 849
		1	18 Water Supply Coverage (% of Urban Population with reticulated WS)		96 of	population	91	5	4		040
		H6	18a Risk based drinking water quality plan?		70 01 1	opulation	Yes	3	4	99.6	
SOCIAL	E		19 Physical compliance achieved? Note 10			7 0	Yes	1	1	ALC:	
SOC	HEALTH	100	19a Chemical compliance achieved? Note10				Yes	1	1	10.23	
	1	H4	19b % population with chemical compliance				100	1	1	100	
		LID	20 Microbiological (E. coli) compliance achieved? Note 10			4 0	Yes	1	1		
			20a % population with microbiological compliance		% of p	opulation	100	1	1	100	100
		C9	25 Water quality complaints per 1000 properties		per 1	,000 prop	3	4	3	3	2
	LEVELS	C10	26 Water service complaints per 1000 properties			,000 prop	37	4	5	6	1
	EIE	C17	27 Incidence of unplanned interruptions per 1000 properties 28 Average duration of interruption (min)		per 1	,000 prop	106	5	5	50	96
	SERVICE	AB	30 Number of water main breaks per 100 km of water main			min	120	3	2	150	113
	SER		31 Drought water restrictions (% of time)			er 100km % of time	21 36	4 4	4 4	10	13
			32 Total days lost (%)			%	11.2	5	5	0 2.9	
		W12	33 Average annual residential water supplied - STATEWIDE (kL/proper	w)		kL/prop	359				100
Ā	W		33a Average annual residential water supplied - COASTAL LWUs (kL/pro	pperty)		kL/prop	359	4	4	173 157	185
MEN	SOUF		33b Average annual residential water supplied - INLAND LWUs (kL/prop.	erty)		kL/prop	359	4	3	263	
NO	AL RE	A10	34 Real losses (leakage) (L/service connection/day)		L/conne	ction/day	90	3	3	70	79
ENVIRONMENTAL	NATURAL RESOURCE MANAGEMENT		35 Energy consumption per Megalitre (kiloWatt hours)		TENER TO SE	kWh	397	2	2	620	100
EN	2	-40	36 Renewable energy consumption (% of total energy consumption)			%	00,	-	-	0	
100		EIZ	36a Net greenhouse gas emissions - WS & Sge (net tonnes CO2 - equiva	ents per 1000	properties)	t CO2	570	5	5	370	390
		F17	42 Current replacement cost per assessment (\$) 43 Economic real rate of return - Water (%)			\$	19,700	1	2	16,500	
			44 Return on assets - Water (%)			%	-1.7	5	5	1.2	1.9
	E S	F22	45 Net Debt to equity - WS&Sge (%)			% %	-1.0 -15	5 4	5	1.1	4.
	FINA		46 Interest cover - WS&Sge			70	-15	5	5 5	1	11 2
			47 Loan payment per property - Water (\$)			\$	0	4	4	64	-
읱		F24	47b Net profit after tax - WS & Sge (\$'000)			\$'000	-50	5	4	1180	5345
ECONOMIC	100		48 Operating cost (OMA) per 100km of main (\$'000)	F120	ALT EXPLORED	\$'000	1,510	4	4	1,290	
8	4	F11	49 Operating cost (OMA) per property (\$/prop) Note 8			\$/prop	623	4	4	400	439
ш	>-		50 Operating cost (OMA) per kilolitre (cents)			c/kL	75	2	1	126	
All all	EFFICIENCY		51 Management cost (\$/prop)			\$/prop	70	1	1	140	
	FIC		52 Treatment cost (\$/prop)			\$/prop	293	5	5	58	
	ti		53 Pumping cost (\$/prop) 54 Energy cost (\$/prop)			\$/prop	2	1	1	43	FLE
743			55 Water main cost (\$/prop)			\$/prop	1	1	1	25	14 3
1 (90)		F28	56 Capital Expenditure (\$/prop)			\$/prop	157	5	5	74	477
- 24	_					\$/prop	292	2	2	181	175

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- Col 3 rankings are on a % of LWUs basis best reveals performance compared to all LWUs (ie. Col 1 is compared with all LWUs).
- Col 4 (Statewide Median) is on a % of connected properties basis- best reveals statewide performance (gives due weight to larger LWUs & reduces effect of smaller LWUs).
- Col 5 (National Median) is the median value for the 67 utilities reporting water supply performance in the National Performance Report 2013-14 (www.bom.gov.au).
- LWUs are required to annually review key projections & actions in the later of their IWCM Strategy and financial plan and their Strategic Business Plan and to annually 'roll forward', review and update their 30-year total asset management plan (TAMP) and 30-year financial plan.
- 2014-15 Non-residential Tariff: Access Charge based on Service Connection Size* (40mm: \$824), Two Part Tariff; Usage Charge 90c/kL.
- Non-residential water supplied was 36% of potable water supplied excluding non-revenue water. Non-residential revenue was 9% of annual rates and charges.
- Operating cost (OMA) per property was \$623, including \$56 for bulk supply. Other components were: management (\$70), operation (\$203), maintenance (\$251), energy (\$1) & chemical
- Rehabilitations included 0.7% of water mains, 0.24% of service connections and 19.8% of water meters.
- 10 Compliance with ADWG 2011 for drinking water quality is shown as "Yes" if compliance has been achieved (indicators 19, 19a & 20).
- 11 Forbes Shire Council has 2 fully qualified water treatment operators who meet the requirements of the National Certification Framework.
- 12 As Forbes Shire Council's strategic business plan and financial plan are over 4 years old, it needs to prepare a 30-year IWCM Strategy and financial plan in accordance with the July 2014 IWCM Check List (www.water.nsw.gov.au).

Costs are in Jan 2014\$ except for graphs 12 and 14, which are in Jan : 015\$.

Microbiological water quality compliance 1999-00 to 2003-04 was on the basis of 1996 NHMRC/ARMCANZ Australian Drinking Water Guidelines for E. coli; from 2004-05 to 2010-11 complia nee was on the basis of the 2004 NHMRC/NRMMC Australian Drinking Water Guidelines (ADWG) and for 2011-12 to 2015-14 compliance was on the basis of the 2011 ADWG. Indicators 33 and 33c - Green shading of bars shows % of time Drought Water Restrictions applied in each year:

Indicator 33c - Yellow bars show Peak Week Water Supplied for comparison with Peak Day Water Supplied shown in green.

3.

LEGEND State Median for all years Top 20% for 2013-14 30-50% >50% of time 0 - 30%