 MIDCOAST WATER

Extension of Water & Sewerage Services  
Constraints & Opportunities  
North Arm Cove Residents Association  
13 April 2016

## *Presentation outline*

- Overview of MidCoast Water
- Background on Unserviced Villages
- Funding Constraints & Opportunities
- Our Water Our Future – *Our 30 Year Plan*

## About MidCoast Water

- MidCoast Water is the trading name for MidCoast County Council
- Proclaimed in 1997 under the NSW Local Government Act
- The only county council in NSW that provides both water supply and sewerage services
- Local councils and county councils provide water supply services to 1.8 million people in regional NSW



## About MidCoast Water

- 10,000 square kilometre operating area incorporating Gloucester, Great Lakes and Greater Taree Local Government Areas
- Service about 40,000 homes and businesses in 16 towns and villages
- 2,000 km of water and sewerage mains
- 5 water treatment plants
- 16 sewage treatment plants
- 9 recycled water schemes
- 200 equivalent full-time staff
- \$107 million budget



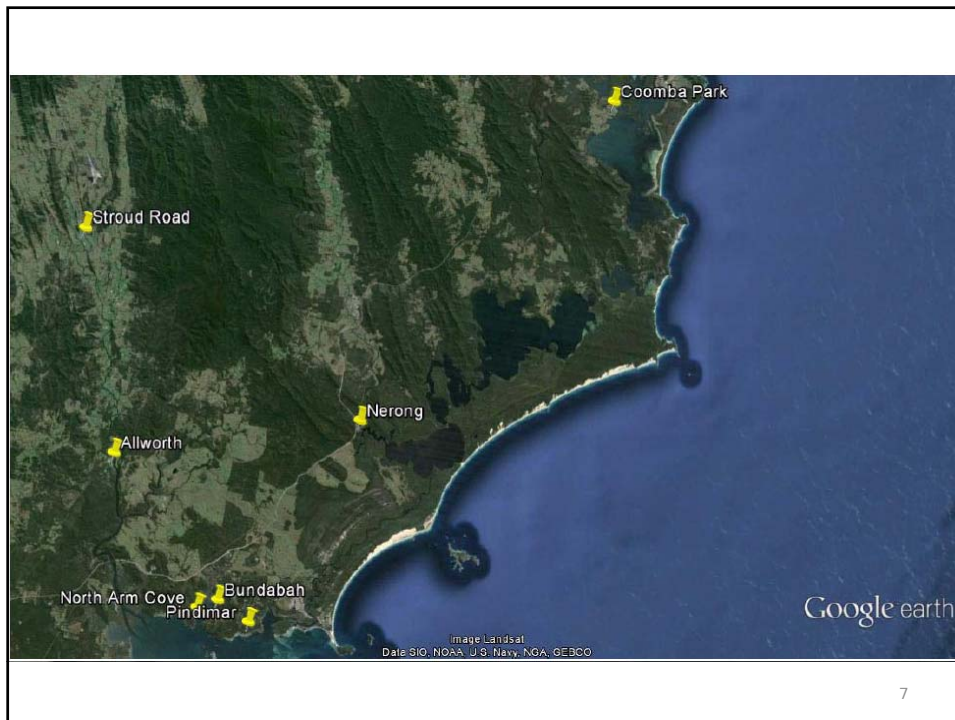
## Our Catchments

- Supply 8 billion litres of water
- Collect and treat 6.5 billion litres of sewage

## Unserviced Villages on the Lower Mid North Coast

*A brief history...*

*Crowdy Head, Serviced in 2009*



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### Unserviced Village Priority Ranking, 2015

Greater Taree Council Area		Great Lakes Council Area	
Priority Group		Priority Group	
1	Bungay*	1	Coomba Park
2	Cedar Party*	1	North Arm Cove
2	Crowdy Head	1	Stroud Road
3	Forrest Downs*	2	Allworth
		2	Shearwater
		3	North Pindimar
		3	South Pindimar
		3	Bundabah
		3	Nerong

- Crowdy Head Sewerage Scheme was delivered in 2009 with 20% subsidy
- \* Rural residential developments do not qualify for state government subsidy.
- In 2012, Bungay Estate was deemed as no longer requiring a sewerage scheme as the costs exceeded the benefits.



### Unserviced Village Cost Estimates, 2015

	Sewer	Water Supply
Coomba Park	\$19,200,000	\$14,200,000
Allworth	\$6,000,000	\$5,200,000
Nerong	\$6,500,000	\$5,300,000
Stroud Road	\$4,600,000	-
North Port Stephens		
North Arm Cove	\$11,400,000	
North Pindimar	\$3,400,000	\$19,000,000
South Pindimar	\$3,400,000	
Bundabah	\$3,400,000	
<b>TOTAL</b>	<b>\$57,500,000</b>	<b>\$43,700,000</b>

Sewer & Water Supply Total = \$101,200,000



### North Arm Cove Water Supply & Sewerage Services

2015 concept based on:

- Pressure pump system and transfer to MCW's network at Tea Gardens
- Provision for connection to Pindimar, Bundabah, Fame Cove, Tahlee & Carrington

2004 survey of North Arm Cove residents:

- 46% connection to MCW's sewerage network,
- 21% local treatment & reuse



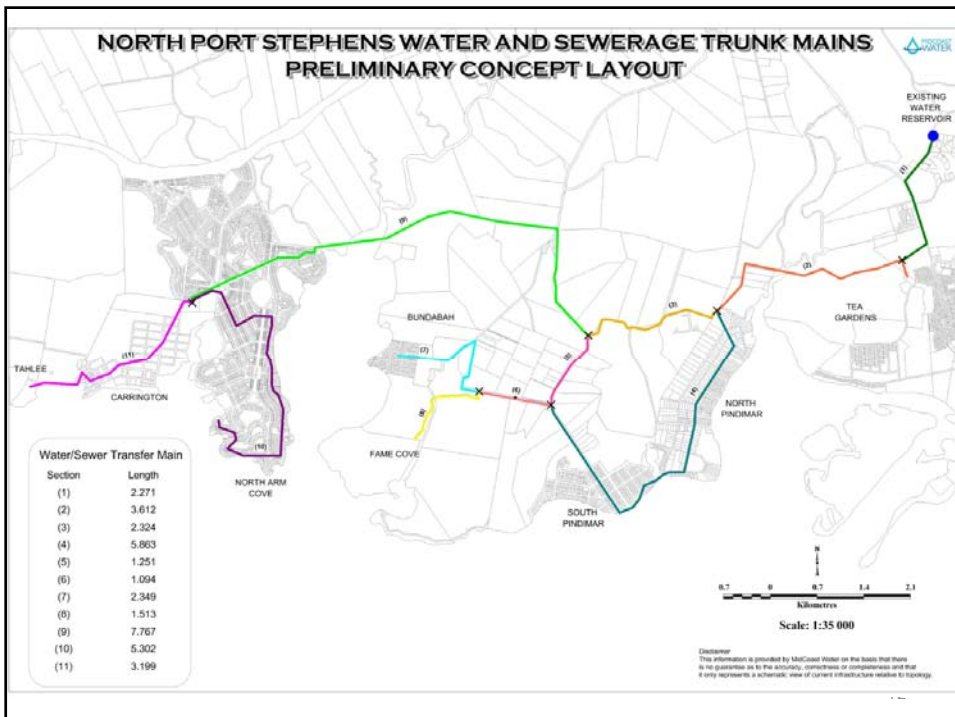
Pressure Sewer Pump Station  
Aquatec.com.au







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## Funding Constraints & Opportunities



## Funding Constraints & Opportunities

### *Primary Constraints*

- >\$100M program unable to fit within MCW's 30 year financial plan
- Capital and ongoing operational costs
- Subsidy is necessary
- Equitable provision of services across villages
- Customer contributions (\$7k - \$12k per property)



## Funding Constraints & Opportunities

### *Opportunities*

#### \$110M Regional Water and Waste Water Backlog Program

1. Nabic Water Supply Scheme  
*(Total cost \$32.4M, Funding sought \$9.6M)*
2. Gloucester Water Treatment Plant Replacement  
*(Total cost \$5M, Funding sought \$2.5M)*
3. Gloucester Sewerage Treatment Plant Replacement  
*(Total cost \$8M, Funding sought \$4M)*
4. Pacific Palms Sewerage Treatment Plant Stage 1  
*(Total cost \$3M, Funding sought \$1.5M)*
5. Provision of sewerage services to seven unserved communities  
*(Total cost \$57.5M, Funding sought \$27.1M)*



## Funding Constraints & Opportunities

### *Opportunities*

#### \$110M Regional Water and Waste Water Backlog Program

- 39 Local Water Utilities, 71 projects
- MidCoast Water's villages ranked 7/10
- Applications submitted for 50% funding
- Subsidy capped at \$45k per connection

#### \$50M Hunter Infrastructure & Investment Fund

- MCW's applications not shortlisted





## Funding Constraints & Opportunities

### Opportunities

*The proposed funding mix includes Government subsidy, MCW rate increases, and customer contributions:*

Indicative costs for North Arm Cove Sewer:

- |                                |         |                 |
|--------------------------------|---------|-----------------|
| • Total project cost           | \$11.4M |                 |
| • Government Funding Sought    | \$5.7M  |                 |
| • Customer Contributions       | \$2.85M | (\$7k/property) |
| • MidCoast Water Contributions | \$2.85M |                 |



## Funding Constraints & Opportunities

### Opportunities

- Cost sharing with neighbouring developments at Fame Cove
- Subject to planning approvals and servicing strategies



*Concept Trunk Main Layout for Fame Cove*



## Our Water, Our Future

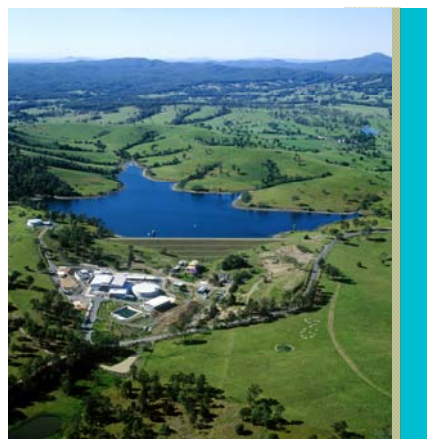
*The 30 year integrated water cycle management strategy....*



## Our Water, Our Future

*The purpose...*

- Identify the relationship between the urban water cycle and community expectations.
- 'Right-size' future capital works
- Support long term decisions with an evidence based analysis and triple-bottom line process



*Bootawa Dam and Water Treatment Plant*



# Our Water, Our Future

## Issues

- Water Supply Security
- Strengthening Climate Resilience
- Water Conservation & Demand Management
- Sustainable Effluent Management
- Environmental Sustainability
- Financial Sustainability

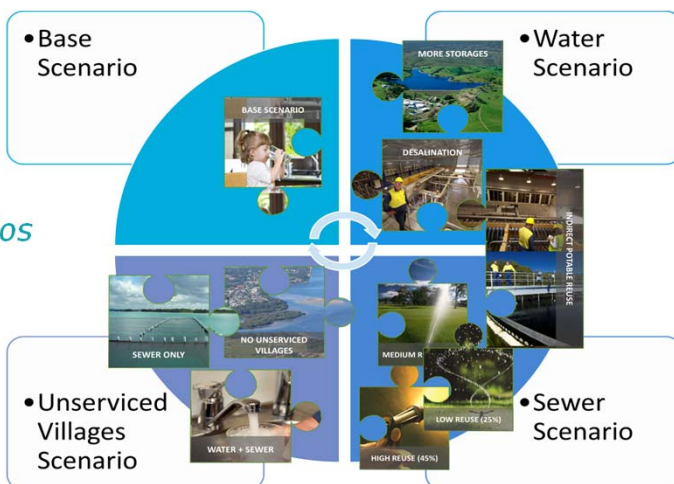


Manning River Pump Station No. 1 Site, 31 January 2014



# Our Water, Our Future

## Scenarios



## Scenarios

*Remaining pieces of the puzzle...*

### Water Scenarios

- Brackish desalination
- New large water storage
- IPR

### Sewer Scenarios

- 25% reuse (current level)
- 30% reuse
- 45% reuse
- 65% reuse (IPR)

### Unserviced Village Scenarios

- Plan only
- Sewer only
- Water and sewer

- The water scenarios all achieve the required secure yield at the end of the 30 year planning horizon.



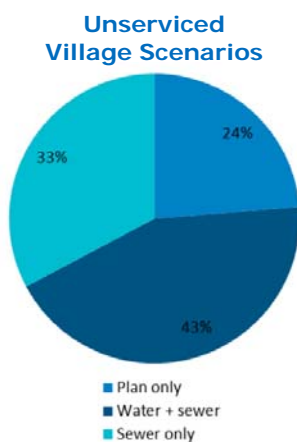
## Our Water, Our Future

### Community Survey Results

43% in favour of water & sewer services

33% in favour of sewer services only

24% in favour of 'plan only'  
(Deferral of implementation beyond 2045)



## Impact on Existing Customer Bills

### *Change to Typical Residential Bill in 2045*

#### **Unserviced Village Scenarios**

- Plan only \$0 (*defer post 2045*)
- Sewer only + \$35
- Water and sewer + \$70

Existing Typical Residential Bill	\$1717
TRB Range at 2045	\$1730 - \$1856

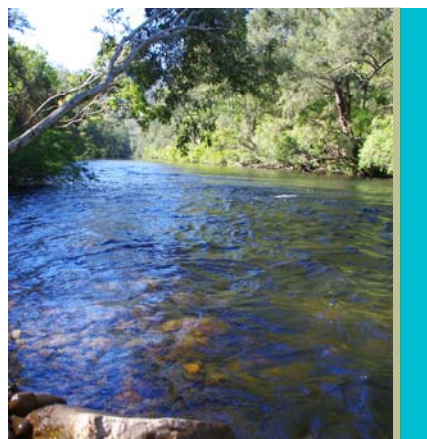


## Strategic Planning

### *Have your say...*

Draft Hunter Regional Plan  
*Submissions close 28 Feb 2016*

Our Water, Our Future  
*Submissions close 26 Feb 2016*



*Thankyou*

*Questions?*

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