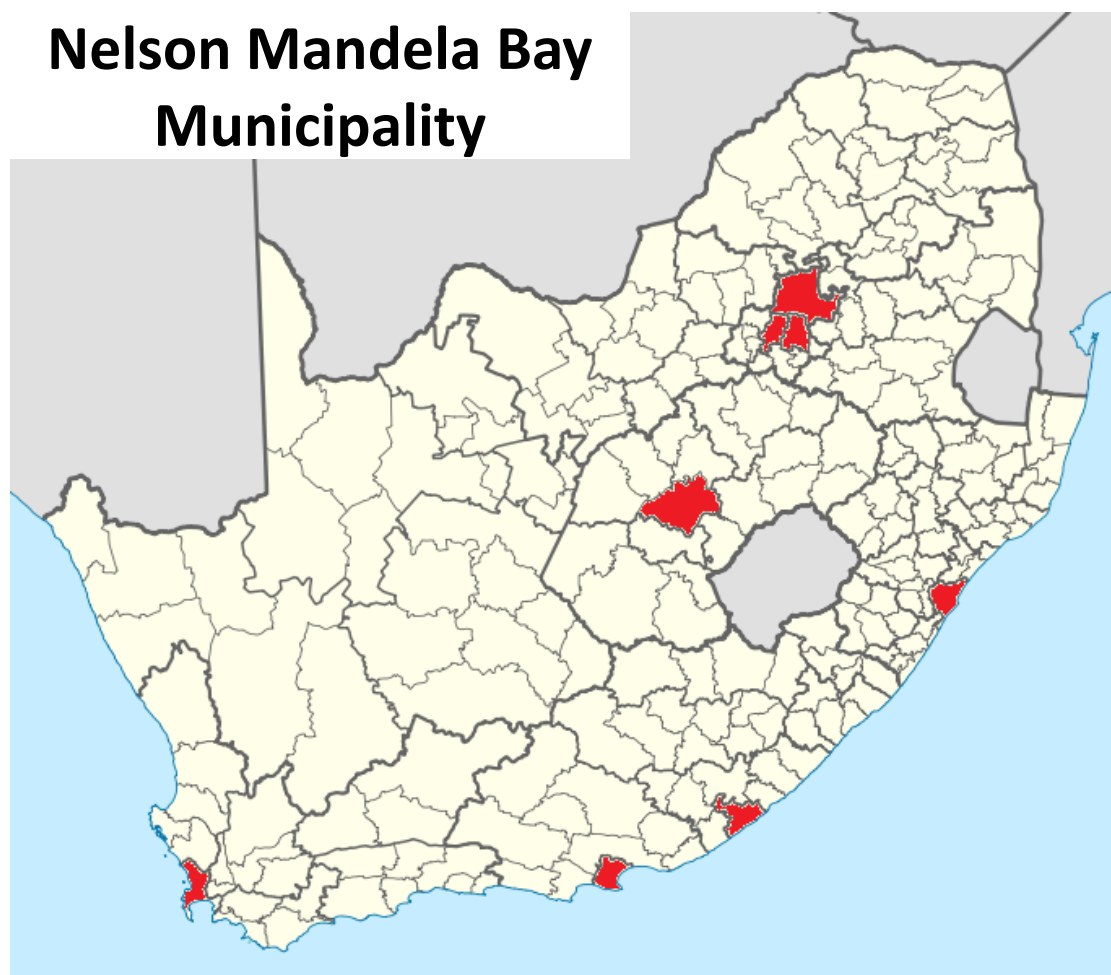


## Non-Revenue Water Reduction Project

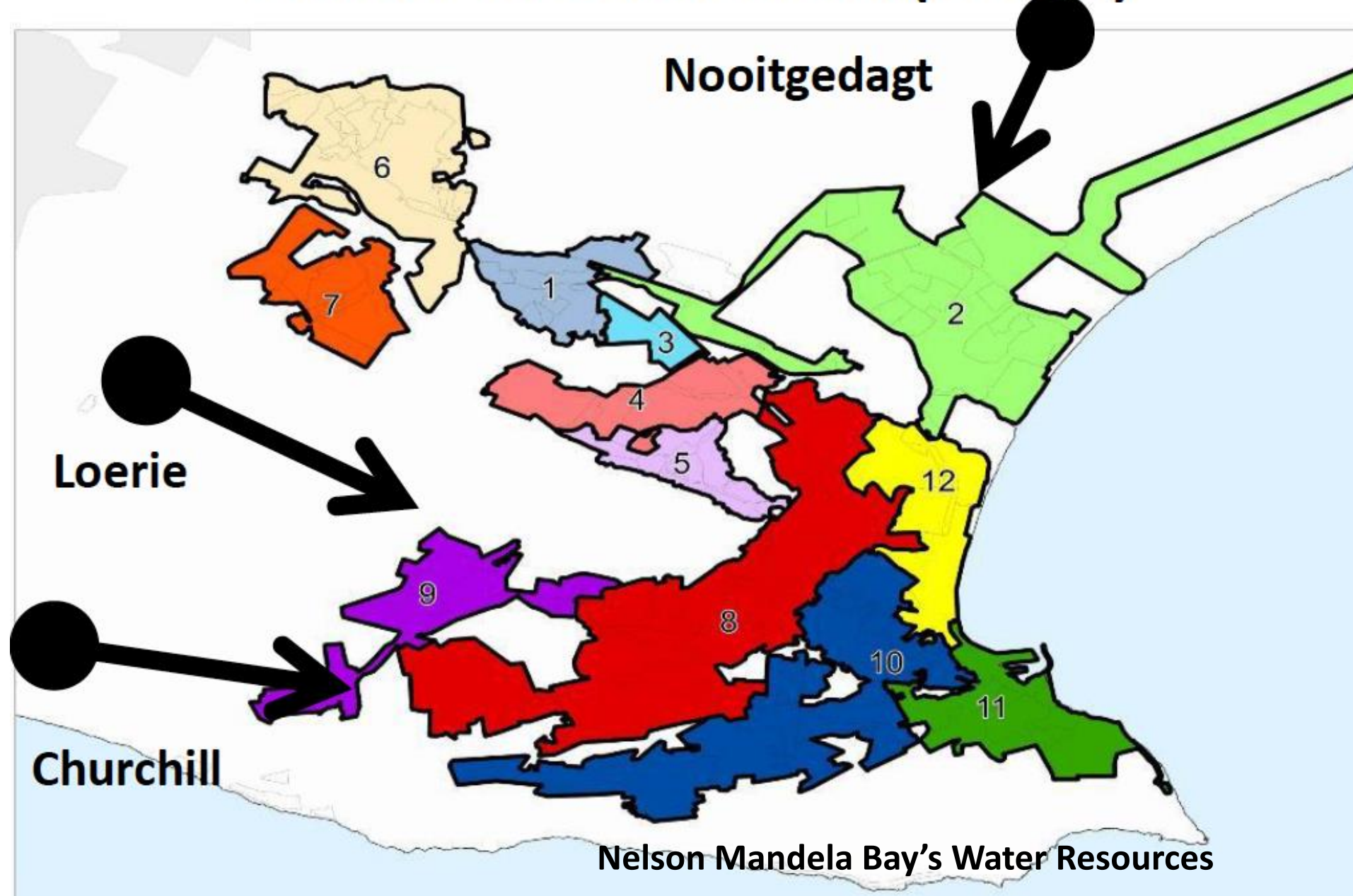
The project aims to reduce non revenue water in the city from 40 % to less than 20 % over a period of 10 years. The project costing R1,6 billion, will realize the following;

- Annual cost savings and resulting additional sales of approximately R 178 million on completion;
- Reduced debt Impairment specific to subsidized (disadvantaged) consumers

**Repayment of loan will be financed from the cost savings and additional revenue realized.**



### Greater Metered Areas (GMA's)



### Next Steps:

1. Finalize the Business Plan
2. Cost Benefit Analysis to establish Return on each area of intervention
3. Prioritize elements of the Programme in terms of the Cost Benefit Analysis above

### Identified Investment(s):

Programme to reduce Non Revenue Water		
	Cost of programme (R '000s)	Cost of programme (\$ '000s)
Bulk Metering	34 900	2 666
Bulk pipeline condition assessment	95 000	7 257
GMA & DMA Meters	31 500	2 406
Remote metering (AMI)	24 000	1 833
Pressure Management (new)	30 000	2 292
ATTP leak repairs	161 740	12 356
School leak repairs	50 000	3 820
Cluster repairs	70 000	5 348
Leak Fixing Festival	50 000	3 820
Leak Repair Contractor	152 600	11 658
Domestic meter audit	9 260	707
Valve & hydrant audit	9 260	707
<b>Meter replacement programme</b>	<b>159 200</b>	<b>12 162</b>
<b>Pipe replacement programme</b>	<b>500 000</b>	<b>38 197</b>
<b>Reservoir rehabilitation</b>	<b>150 000</b>	<b>11 459</b>
Publicity & awareness	53 000	4 049
Community outreach	38 800	2 964
ICI meter audits & billing	5 000	382
<b>Total</b>	<b>R1 624 260</b>	<b>\$124 084</b>

### Financing Mechanisms:

- **Loans – R 800 000 (New & Rehabilitation)**
- Own Revenue Sources - Operating

### Loan Schedule:

	Principal	Repayments @ 12 %		
		Loan Yr 1	Loan Yr 2	Loan Yr 3
Year 1	200,000,000			
Year 2	300,000,000	34,873,822		
Year 3	300,000,000	34,873,822	52,310,734	
Year 4		34,873,822	52,310,734	52,310,734
Year 5		34,873,822	52,310,734	52,310,734
Year 6		34,873,822	52,310,734	52,310,734
Year 7		34,873,822	52,310,734	52,310,734
Year 8		34,873,822	52,310,734	52,310,734
Year 9		34,873,822	52,310,734	52,310,734
Year 10		34,873,822	52,310,734	52,310,734
Year 11		34,873,822	52,310,734	52,310,734
Year 12			52,310,734	52,310,734
Year 13				52,310,734
	<b>800,000,000</b>	<b>348,738,220</b>	<b>523,107,340</b>	<b>523,107,340</b>
Interest		148,738,220	223,107,341	223,107,341