



## Manukau Siphon

1,100m in length

5½ feet in diameter

Serves 280,000 people

Passes 95,000m<sup>3</sup>/day

(55 OSP)



# Key Challenge: Optimisation

Reduce Inflows

Larger Pipes

Retard Peaks

More Treatment

# Indicative Programme

Programme Item	Time Period
Desktop Investigations	Now – September 2009
Complete Existing Sewer Separation Programme	Now - June 2011
Appoint Principal Advisor	August 2009
Preliminary Design, AEE and Consent Lodgement	September 2009 – Dec 2011
Section 92 and Consent Processing	Jan 2012 – Dec 2013
Tender, Award and Design	2014 – 2015
Phase 1 Tunnel & Associated Works Construction	2015 – 2023
Phase 2 & 3 Tunnel & Associated Works Construction	2030 - 2040