Appendix C
Conceptual Case Studies
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NOTES:
- Location of indicative sewer mining to be determined with SWC to achieve maximum benefit;
- Medium sized network to be trenced, however, may align with trenching for other services in Green Square area;
- Climate independent.

Treatment Plant/Storage:
- Location is indicative only;
- Indicative treatment plant type is MBR;
- Co-located with trigen.
NOTES:
- Location of indicative sewer mining to be determined with SWC to achieve maximum benefit;
- Most reticulation is internal to the 3 areas, minimal trenching in public streets;
- Climate independent.

Indicative Timeframe: 3+ years
NOTES:
- Location of indicative sewer mining to be determined with SWC to achieve maximum benefit;
- Opportunity to use food waste from Darling Harbour and biosolids from treatment to generate biogas - synergies between water, energy and waste;
- Potential to supply 5 trigeneration plants;
- Climate independent.
NOTES:
- Location of indicative sewer mining to be determined with SWC to achieve maximum benefit;
- Climate independent.
LEGEND

SPS Location
Indicative Trigen Location
Indicative Storage/ Treatment
Indicative Source
Thermal Network
Indicative Supply Network
Indicative Distribution Network

Parks
Drainage Catchments
Receiving Water Catchment
Sewer Mains

NOTES:
- Location of indicative sewer mining to be determined with SWC to achieve maximum benefit;
- Indicative treatment plant type is MBR;
- Climate independent.

AREA 1:
Scale = 7.67 ML/d
Nature of Demand:
Existing Opportunity = 70%
17% Existing Residential
13% Existing Non Residential
5% Cooling Tower
Growth Opportunity = 30%
1% Growth Residential
29% Growth Non Residential

Indicative timeframe: 5 years

AREA 2:
Scale = 8.95 ML/d
Nature of Demand:
Existing Opportunity = 63%
8% Existing Residential
55% Existing Non Residential
43% Cooling Tower
Growth Opportunity = 37%
4% Growth Residential
33% Growth Non Residential

Indicative timeframe: 3 years

AREA 3:
Scale = 5.60 ML/d
Nature of Demand:
Existing Opportunity = 64%
8% Existing Residential
78% Existing Non Residential
45% Cooling Tower
Growth Opportunity = 36%
8% Growth Residential
15% Growth Non Residential

Indicative timeframe: 10 years

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Data source: Data Collection, Data Set Name/Title, Version/Date. Created by:pcching

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City of Sydney
Decentralised Water Master Plan

City Wide Sewer Mining

Map

Job Number 21-20242
Revision -
Date 18 Oct 2011
Indicative Storage
Indicative Trig Location
Open Channel
Indicative Distribution Network
Parks
Stormwater Mains
Drainage Catchments
Receiving Water Catchment

LEGEND

City of Sydney
Decentralised Water Master Plan
Wentworth Park Stormwater Harvesting

Nature of Demand:
Existing Opportunity = 79%
26% Existing Residential
25% Existing Non Residential
13% Cooling Tower

Growth Opportunity = 21%
3% Growth Residential
17% Growth Non Residential

Indicative timeframe:
3+ years

Treatment Plant Storage:
- Indicative storage type is ponds;
- Proposed to leverage of WSUD RWO improvements. Therefore, synergistic use.

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