Strategic Waste Infrastructure Planning Project (SWIP)

Update
• Planning and Approvals
• Facilities and Sites

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Four main elements of the *Waste and Recycling Infrastructure Plan for the Perth metropolitan and Peel regions*:

1. Planning and Approvals
2. Facilities and Sites
3. Technology
4. Governance and Funding
Planning and Approvals:

Provide information and recommendations on:

• The land use planning system in WA, as it relates to waste facilities
• Environmental and planning opportunities and constraints for waste facilities in the Perth metropolitan and Peel regions, and how these may be increased or minimised respectively
• Existing land use planning mechanisms which may be used to integrate waste management issues into the WA planning framework, and secure sites for waste facilities
Planning and Approvals:

- Under WA planning legislation and policies waste facilities are often not well defined/described
- Little/no differentiation between types of waste facilities
- Local Planning Schemes: high level of variation
- No definitions for waste facilities in the MST
Planning and Approvals:

Issues:
• Waste management often not considered with other essential services in land use planning policies/strategies
• Waste facilities not a defined land use
• Unclear development approvals process – for proponents and decision makers

Response:
• Working with DOP/WAPC to include definitions for waste and waste facilities in the MST
• Investigating potential for a SPP for waste facilities
Planning and Approvals:

Issues:
• Finding sites for development of waste facilities
• Encroachment, lack of long term security

Response:
• Using existing mechanisms to secure waste facility sites for the long term: reservation for public purpose use through the MRS/PRS
Facilities and Sites:

Provide information and recommendations on:

• The existing capacity of waste facilities in the Perth metropolitan and Peel regions, and likely waste infrastructure needs for 2015, 2020 and the ‘3.5 million city’

• Potential and preferred sites for development of new waste facilities, including opportunities for co-location, waste precincts, and industrial ecology
Facilities and Sites:

- 1.93 million 2012/13
- 2.20 million by 2019/20
- 3.5 million by ~ 2050

Population is anticipated to grow at different rates across Perth and Peel
Facilities and Sites:

Waste generation in Perth and Peel:
• Average of 2.72 tonnes per capita
  - 0.65 tonnes MSW per capita
  - 0.72 tonnes C&I per capita
  - 1.35 tonnes C&D per capita

Projections for Perth and Peel:
• 5.26 million tonnes 2012/13
• 5.99 million tonnes 2019/20
• 9.52 million tonnes when population reaches 3.5M
Facilities and Sites:

2011/12:
• 39% of all waste diverted from landfill (2.04M tonnes)

To meet the Waste Strategy landfill diversion targets for Perth and Peel:
• 56% diversion in 2014/15 (3.07M tonnes)
• 71% diversion in 2019/20 (4.25M tonnes)

Significant increase in diversion capacity required.
Facilities and Sites:

- 12 putrescible landfills which accept waste generated in Perth and Peel
- 5 likely to be closed by around 2030
- 1 new landfill under construction

- 17 inert landfills which accept waste generated in Perth and Peel
Facilities and Sites:

Remaining landfill capacity

If Waste Strategy landfill diversion targets are met:
• Putrescible landfill: early 2030’s
• Inert landfill: mid 2030’s

If Waste Strategy landfill diversion targets are NOT met:
• Putrescible landfill: early 2020’s
• Inert landfill: mid 2020’s
Facilities and Sites:

- Stage 1 (broad, first pass) assessment currently underway

- Not identifying landfill sites, but modelling future capacity requirements
Next Steps:

• Stage 1 site assessment: consultants report due mid December

• Continue to work with Department of Planning and WAPC on waste management planning issues
Feedback

For more information and feedback:

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