

Review of TP10: Stormwater Management Devices: Design guidelines manual (2003)

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Statutory framework

- RPS sets strategic direction – water quality & flooding issues
- PALWP provides objectives, policies and rules
- PALWP requires BPO
- BPO can include removing 75% TSS, minimising hydrologic changes, preventing erosion

Current role of TP10

- Design guidance for devices accepted to remove 75% TSS
- Design philosophy, method for evaluating other devices, construction & maintenance checklists
- Has become “one stop shop” for designers – does not readily facilitate BPO, treatment train approach, LID, and stifles innovation

Why TP10 needs to be revised

- Current (2003) version had some faults
- New information has become available since 2003
- The way TP10 is being used is creating barriers to BPO, treatment train, and innovation
- Aim to produce technical design document, that supports planning and policy

How TP10 is being revised

1. Internal preliminary gap analysis (Internal and Service Provider)
2. Form Focus Groups (internal and external focus groups)
3. Workshop with focus group to undertake gap analysis
4. Identify essential work and prioritise order of work required.
5. Undertake work required. This may be a mixture of engaging consultants for portions of the work, and undertaking work internally.
6. Update TP10. This is being done on a chapter by chapter basis.
7. Review updates. Reviews to be completed by focus group members and external peer reviewer(s).
8. Produce final draft.
9. Undertake consultation on final draft, in accordance with ARC Consultation Policy and the requirements of the LGAA.
10. Incorporate outputs from consultation process.
11. Release final TP10 – now Guideline Document 01

What have we done so far?

1. Internal preliminary gap analysis
2. Form Internal and External Focus Groups
3. Workshop with focus group to undertake gap analysis
4. Identify essential work and prioritise order of work required
5. Undertaking work required

Key Technical Work

- TP10 will still address 75% TSS removal
- TP10 will also consider
 - Bands of performance eg 60-80% removal performance claim
 - Other contaminants – metals (particulate & dissolved) & hydrocarbons. Others later (nutrients, emerging contaminants)
- Include discussion on Treatment Trains
- Proprietary Device Evaluation as separate TR

Key Technical Work

- Incorporate revised PSD data
- Continuous simulation to model performance
- Ponds – accommodate retrofit at <TP10 sizing
- Raingardens – media, permeability, sizing
- Permeable Paving
- Rain Tanks
- Wetlands

TP10 Current Additional Projects

- Green Roofs
- Swales
- Industrial Sites
- Landscaping and biodiversity
- Construction, Operation and Maintenance

TP10 - New Format & Structure

- Have separate volumes within TP10
 - V1 Stormwater Management Issues
 - V2a Stormwater Devices – Design
 - V2b Industrial Sites design
 - V3 Construction
 - V4 Operation and Maintenance
 - V5 Landscaping, biodiversity, biosecurity
- One Chapter per device
- Easier access for target audience
- Easier to review in future

TP10 Transition

- As each device is reviewed, release findings in separate TR
- Extract design portion of Device TR to final TP10
- Compile new TP10
- Release as “Guideline Document” GD01

Acknowledgements

- All members of focus groups – internal & external
- Individuals who undertook gap analysis
- Others who have contributed opinions
- The SWAT team
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