

CRC for Water Sensitive Cities

Regional Advisory Panel Meeting – South Australia

Thursday 31 August 2017

2.00pm – 5.00pm

Venue

City of Unley

181 Unley Road, Unley

AGENDA

Chair: Greg Ingleton , SA Water (interim)

Minutes: Kathryn Bothe, Water Sensitive SA

Item	Time	Topic	Who	Attach.
	2.00 pm	Welcome and apologies <ul style="list-style-type: none"> Minutes and actions 		
1.	2.10 pm	SA RAP Chair future		
2.	2.15pm	IRP1 – Draft Water Sensitive Cities Transition Plan for Adelaide – Consultation Feedback	Alex Gunn	Discussion
3	2.45 pm	IRP2 – Comprehensive Economic Evaluation framework <ul style="list-style-type: none"> Project Update – 2016-17 4th Qtr Draft Engagement Strategy Draft Review of nonmarket values of water sensitive systems and practices: An update Draft Review of existing Benefit: Cost Analysis (BCA) tools relevant to water-sensitive cities DEWNR Benefit-cost analysis for major projects Case study (Breakout Creek or small-scale infill) 	Sayed Iftekhar Mark Siebentritt Martin Allen	Present./ A2.1 A2.2 A2.3 A2.4
4.	3.15 pm	IRP3 – Evidence-based integrated urban planning across different scales <ul style="list-style-type: none"> Draft project outline Greenhill Precinct Case Study – Opportunities to progress 	Mellissa Bradley John Devine	A3.1
5.	3.35 pm	IRP4 - Achieving water sensitive outcomes for in-fill developments <ul style="list-style-type: none"> Final project plan as submitted to Board Case Study – Salisbury East Precinct, City of Salisbury 	Mellissa Bradley Clint Watchman, City of Salisbury	A4.1 Presentation
6.	4.15 pm	IRP5 - Knowledge-based WSC solutions for groundwater impacted developments Project update	Steve Gatti	
7.	4.20 pm	Tools and products Project update	Martin Allen	
8.	4.30 pm	Capacity Building Project with CRC WSC grant to SA RAP Priorities for SA	Mellissa Bradley	A 5.1
9.	4.45 pm	Other Business <ul style="list-style-type: none"> 3rd Water Sensitive Cities Conference Regional Manager 	All	
6.		Future meeting schedule 22 Nov 2017 - 9.15am – 12 noon		

For more information contact: Mellissa Bradley E: mellissa@watersensitivesa.com.au

CRC for Water Sensitive Cities

Regional Advisory Panel Meeting – South Australia

Wednesday 29 March 2017

9.15am – 12.00noon

Venue

SA Water

250 Victoria Square, Adelaide

****Please sign in at ground floor reception****

MINUTES

Chair: Greg Ingleton (SA Water)

Minutes: Mellissa Bradley (Water Sensitive SA)

Present: Alex Ward (DEWNR, Green Infrastructure Project), Robin Allison (DesignFlow), Martin Allen (DEWNR)

Item	Topic	Who	Att.
1.	Welcome and apologies <ul style="list-style-type: none"> Minutes and actions 		
2.	IRP4 - Achieving water sensitive outcomes for in-fill developments	Robin Allison	#1
	<p>The notes from the initial stakeholder workshop for IRP4 held on 8 February 2017 were provided prior to the meeting.</p> <p>Questions raised:</p> <ul style="list-style-type: none"> - What is the role for South Australia? - What will the major outcomes be? - What are the research questions? - What do we want to measure? Need clear measures of success - Will there be an SA Case study? Potentially Kilburn Blair Athol <p>Resources needed include:</p> <ul style="list-style-type: none"> - a planning and design tool. - A technology selection tool (infill versus greenfields) <p>Need guidance on:</p> <ul style="list-style-type: none"> - Steps to take in design approach - Constraints - Objectives <p>ACTION 1: M.Bradley, - Contact Port Adelaide Enfield with a view to meeting to discuss potential for a case study. Robin, Martin, Uni and Sam keen to be involved.</p> <p>ACTION 2: M.Bradley and A.Simpson - Invite Adelaide University, Mark Thyer and others to be involved.</p>		
3	IRP2 – Comprehensive Economic Evaluation framework <ul style="list-style-type: none"> Working Draft Engagement Strategy Breakout Creek case study update 	Mellissa Bradley	#2
	<p>Martin Allen has been working on the DEWNR tool and has had his work reviewed by the CRC.</p> <p>The case study proposed for South Australia is Break out Creek for the conversion of a degraded watercourse to a living stream in the urban context to enhance liveability of the surrounding area.</p>		



	<p>A range of other case studies are proposed around Australia including precinct scale, linear parks and a new greenfield development.</p> <p>Question –</p> <ul style="list-style-type: none"> - How will it be resourced? - Needs to enable prioritisation of projects. <p>Angus Simpson indicated any tool could be optimised for cost and that his team could provide input.</p> <p>Other issues:</p> <ul style="list-style-type: none"> - Need to advocate for open data sharing across case studies - Link data to www.data.sa.gov.au for storage of data - SA Water cost data base may assist, if able to share. <p>ACTION 3: M.Bradley - Contact Tina Ferguson Smart/open Data www.data.sa.gov.au</p>	
4.	<p>IRP3 – Evidence-based integrated urban planning across different scales</p> <ul style="list-style-type: none"> • Greenhill Precinct Case Study – Opportunities to progress 	<p>John Devine / Mellissa Bradley</p> <p>#3</p>
	<p>The notes from the initial stakeholder workshop for IRP3 held on 7 February 2017 were provided prior to the meeting.</p> <p>Greenhill precinct has been nominated as the potential case study for IRP3 from South Australia.</p> <p>To move forward the following is needed:</p> <ul style="list-style-type: none"> - A clear vision for the project - DPTI (Planning and Infrastructure) buy in. Currently - Treasury - Demonstrate the link to carbon neutral Adelaide. Currently ends at the Terrace. How do we extend CNA to outside the parklands into neighbouring Councils, eg. Unley - Link to strategies within regional climate change adaptation plans - Need conversation with CRC and key stakeholders - Link to Parklands Plan - Link to 30 Year Plan Review – Canopy Cover targets of 20% increase. <p>Barriers:</p> <ul style="list-style-type: none"> - We are currently not good at integrated planning and there is no appetite for the development of structure plans - Perceived lack of <ul style="list-style-type: none"> ○ desire for collaboration ○ desire to share information ○ leadership <p>Questions to be addressed:</p> <ul style="list-style-type: none"> - Who are the key stakeholders? - How do we create the appetite for master planning with key people? - Use the cost-benefit tool to sell economic value of an integrated approach - Who is the target audience within development industry? Note: We want to attract major business from overseas to establish on Greenhill Road not relocation from another part of Adelaide. <p>Stakeholders:</p> <ul style="list-style-type: none"> - Greenhill Precinct Businesses 	





	<ul style="list-style-type: none"> - Main street groups at City of Unley and others - Adelaide City Council - City of Unley - AS Water - Chamber of Commerce <p>ACTION 4: J.Devine – Hold initial discussion with Adelaide City Council, Smart City and Ten Gig City (IT hub) representatives</p> <p>-</p>		
5.	Capacity Building Project with CRC WSC grant to SA RAP	Mellissa Bradley	#4
	<p>The draft capacity building proposal for 2016-17 funds was circulated prior to the meeting. A number of changes were suggested as follows:</p> <ul style="list-style-type: none"> - Make the outputs clearer upfront and in the table - Budget estimates a bit low. <p>The event listed for June 2017 with Nigel Bertram focusing on how changes in the built form can deliver better WSUD outcomes is confirmed.</p>		
6.	Other Business	Mellissa Bradley	
	<ul style="list-style-type: none"> • Regional Manager 		
7.	(11.00am) IRP1 – Water Sensitive Cities Transition Workshop	Alex Gunn and Lara Wetbeloff,	
	<p>Presentation - Overview of proposed 3 x workshops</p> <p>Dates for the workshop are proposed for 8 and 29 May and 29 June. Alex Gunn and Lara Wetbeloff will conduct interviews with invitees and compile this information for Workshop 1.</p> <p>ACTION 5: All. Email Alex Gunn relevant background documents for SA:</p> <ul style="list-style-type: none"> - the Business Case for the Water Sensitive SA Capacity Building Program.(Mell) - Working draft Narrative for WSUD and Green Infrastructure (Martin) - Water Sensitive SA Business Plan (Mell) - Outcomes of leadership across boundaries workshop with Andre Taylor (Mell) - Living Adelaide (not released in public domain) (Alex) 		
6.	Future meeting schedule		
	<ul style="list-style-type: none"> • Thursday 25 May 2017 (9:30 – 12:30) 		

For more information contact
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Updated CRC WSC research capacity building priorities for SA

1. Overview

The CRC for Water Sensitive Cities (CRCWSC) have offered to support capacity building initiatives in South Australia with a grant valued at \$40,000 for the 2016-17 and 2017-18 financial years.

This paper provides:

- an assessment of the status of the agreed program of works relating to research translation and adoption for the built form and infill development, nominally applying the 2016-17 funds (value \$20,000)
- additional opportunities for research translation from both Tranche 1 and Tranche 2 activities.

2. Background

At the March 2017 meeting of the SA Regional Advisory Panel (SA RAP), it was agreed that a priority for the 2016-17 funds would be to further the adoption of research outcomes from Tranche 1 related to the built form and infill development.

At the March 2017 meeting, the SA RAP considered the paper *Capacity building project with CRC WSC grant to SA RAP* that proposed a series of events, resources and projects aimed at maximising the reach of Tranche 1 and 2 research into WSUD solutions for infill design capacity building activities for 2017-18. This proposed suite of activities was endorsed by the SA RAP as an appropriate allocation of CRCWSC capacity building funds.

3. Opportunities for research translation

3.1. 2016-17 program – urban infill and built form

The status of the proposed WSUD solutions for infill design capacity building activities is provided in Table 1.0 Proposed CRCWSC capacity building activities of the Appendix. The June 2017 seminar *Urban infill development, but not as we know it* and subsequent agency workshop were held on 20 June 2017. The seminar was attended by 52 practitioners from Local Government, the consulting industry and tertiary education institutions. The associated discussion demonstrated a strong desire for change in the built form of infill development and its relationship with green space and urban water management in Adelaide.

Since this event, the full scope of work of the Tranche 2 Water sensitive outcomes for infill developments project (IRP4) has been defined and it has become clear that a number of the SA CRCWSC capacity building opportunities as identified in the March 2017 RAP paper will be addressed within this project. The potential CRCWSC capacity building projects for SA have therefore been re-evaluated, to consider other priorities for research translation.

3.2. Other opportunities

In preparing the updated CRCWSC capacity building program, barriers to WSUD adoption in SA and key drivers for change have been considered. It is suggested that the research adoption therefore focus open:

- WSUD policy adoption
- Demonstration of WSUD success in private developments
- Urban heat island mitigation
- Communication of key messages to the broader community.



This capacity building prioritisation process draws upon the outcomes of preliminary work prepared by the national network of WSUD capacity building programs and the CRCWSC [Summary of Research Outputs, Tranche 1, 2012/13 – 2016/17 \(Version 2\)](#).

The day prior to the commencement of the CRCWSC workshop held in July 2017 in Perth, representatives of each of the state-based WSUD capacity building programs met to investigate:

- creating a forum to enable the various WSC-related capacity building programs to come together and continue to build a collaborative national network of capacity building programs
- helping identify and prioritise capacity building activities to support the widespread adoption of CRCWSC research outcomes
- Identifying synergies and opportunities to enable efficient and effective implementation of WSC-related capacity building activities.

Through the workshop process and subsequent meetings the group, informally referred to as the national WSUD capacity building network, identified a list of CRCWSC research translation opportunities for which they will either individually or collectively seek to deliver capacity building activities. The CRCWSC outputs identified by this group for potential collaboration are listed in Table 2.0 of the Appendix.

In June 2017 the CRCWSC released an update to the [Summary of Research Outputs, Tranche 1, 2012/13 – 2016/17 \(Version 2\)](#). This document lists all Tranche 1 outputs, categorising them by output type: Publications, guidelines/frameworks, factsheets, models/databases and learning tools. Outputs listed in this reference document were considered in prioritisation of research translation opportunities for SA.

4. Recommendations

1. That the revised capacity building priorities be endorsed in principle
2. That a project brief be developed for the proposed *Community role in WSUD* activity.

Table 1.0 – Proposed CRCWSC capacity building activities

Activity	Output	Other partners/ target audience	Due	Action SA RAP	Status	Budget estimate
Built form design performance standards						
Presentations at: (i) <i>Urban infill development – but not as we know it!</i> seminar (ii) Subsequent agency and peak body workshop	Presentations and participation in workshop	DPTI (Planning), Renewal SA, Office for Design and Architecture SA (ODASA), Australian Institute of Landscape Architects (AILA) SA, PIA	20 June 2017 confirmed	<ul style="list-style-type: none"> ▪ Plan and promote seminar ▪ Invite targeted agency and peak body representatives to workshop 	Seminar and workshop held in Adelaide on 20 June 2017. Costs: Travel, accommodation and meals for N Bertram and G London and video recording of seminar Residential infill: design quality and an enhanced public realm	\$3,050 (Actual)
Translate Tranche 1 research outcomes to date into 4-page fact sheet as a discussion starter with potential partners/practitioners/development industry to introduce design concepts	Fact sheet	Australian Institute of Architects (for dissemination) Master Builders	30 Sept. 2017	Prepare brief for fact sheet	Refer to A4.1, IRP4, WP2.3. will deliver upon this item. Designing a catalogue of relevant infill typologies for collaborative evaluation. Recommendation– funded via other means, suggest re-allocation of funds	N/A
Inform the DPTI Planning and Design Code and design standards and guidelines for precinct scale and allotment scale solutions	<ol style="list-style-type: none"> 1. Design principles/policy 2. Standard drawing library in JPEG & CAD format 	DPTI (Planning) and ODASA, Dept. Planning WA, Brisbane City Council	30 June 2018	Liaison with DPTI (Planning) to consider opportunity, following seminar and workshop above	<ol style="list-style-type: none"> 1. Water Sensitive SA now funded (by DEWNR, partners) to deliver project for green infrastructure and WSUD performance based policy. Brief approved by WSSA Steering Committee July 2017. 2. Refer to A4.1, IRP4, WP2.3. will deliver upon this item. Designing a catalogue of relevant infill typologies for collaborative evaluation. Recommendation– funded via other means, suggest re-allocation of funds	N/A
Case Study – Renewal SA Renewing our streets and suburbs program : Kilburn Blair Athol upgrade of public housing to test the applicability of residential design standards	Detailed architectural and engineering design drawings for a typical 1 into 3 development, 2 into 6 (or similar)	Renewal SA	30 June 2018	Subject to CRCWSC Board approval processes	Preferred case study now City of Salisbury, Salisbury East rejuvenation. Refer to A4.1 for details. Recommendation: Alternative case study for Salisbury East	Subject to CRCWSC Board approval processes
Demonstration project						
Work with Renewal SA to deliver the water sensitive 1 into 3 housing project on the ground	Demonstration project	Renewal SA	Within 2 years	Subject to CRCWSC Board approval processes	Work with City of Salisbury to deliver demonstration of innovative housing typologies that effectively integrate WSUD	Subject of IRP4 project proposal
OTHER PRIORITIES						
WSDUD Policy						
Joint briefing for DPTI (Planning) and EPA on the recommendations on the recommendations of Policy Framework for WSUD in Five Australian Cities with respect to complementary planning and environmental regulation on WSUD performance targets	Agreement across agencies of need for reciprocal WSUD polices in regulation/statutory policy	DPTI (Planning) and EPA senior management	Nov 2017	Invitation to Barnaby McIlrath, Maddocks Lawyers to present to EPA and DPTI	Contact made with Maddox Lawyers. B.McIlrath is on long-service leave until 16 October 2017.	\$2,000

Activity	Output	Other partners/ target audience	Due	Action SA RAP	Status	Budget estimate
Urban heat and microclimate						
<i>Trees for Cool Cities – Guideline</i>	Training	Practitioners, Local Government and consulting industry	2017-18	Coordinate training delivery in SA	Pending advice from N Tapper (re: final guideline release date) and A Coutts (availability to deliver training)	\$6,500
Built form/urban infill						
Development industry engagement for joint event to showcase WSUD in private developments – White Gum Valley (WA), Aquarevo (Vic), Newenham (SA) and others	Engagement	UDIA (SA and WA)	30 Nov. 2017	Invite Allison Hailes, Chief Executive Officer, Urban Development Institute of Australia (UDIA) WA to engage (face-to-face) with SA UDIA CE on water sensitive cities examples	Nil	\$1,000
Showcase WSUD in private developments – White Gum Valley (WA), Aquarevo (Vic), Newenham (SA) and others	Seminar/forum	UDIA (SA and WA), Property Council, Master Builders	May 2018	Coordinate event with presenters and other states	Initial discussions with potential presenters	\$5,000
Community role WSUD						
Community water literacy and behaviour change	Communications	Community, AMLR NRM urban engagement team, Local Government Sustainability Officers	28 Feb. March 2018	Take learnings from A Dean et. al. to develop communications material to demonstrate how the community can engage in WSUD and the difference individuals can make, e.g. recreational spaces and megafauna (e.g. turtles)	Seminar held in SA in August 2016 presenting outcomes of research. Significant local government interest. Preliminary discussion with Dr Angela Dean , University of Queensland.	\$22,000
Total						\$39,550

Table 2.0 – National WSUD capacity building network priority outputs for CRCWSC research translation

Priority project	Activity/resource type	Activity type detail	CRCWSC Tranche 1	CRCWSC Tranche 2	Description	Existing resources	SA priority
Engagement							
Developer engagement	Engagement		Y	Y	Document the experience of developers in case studies – why do they invest in WSUD?	New Water Ways developer engagement plan	H
Community engagement	Engagement		Y				H
UDIA engagement	Engagement	Various		Y	Engage for White Gum Valley etc. event	New Water Ways development sector engagement strategy	H
Community water literacy and behaviour change	Engagement	Project roll out	Y			New Water Ways community engagement project	H
Policy							
Performance based planning policy – urban water management objectives	Policy			?	IRP3 may add value	Jocelyn Dela-Cruz – Ecologically sensitive river performance targets, Melbourne Water/Tim Fletcher, Queensland Flexible stormwater management	H
Project delivery							
WSC tool – microclimate tool	Project roll out		Y	Y			M
DAnCE 4 Water	Project roll out		Y				M
Water Sensitive Cities Index	Project roll out			Y	Bulk price for organisational level		M
Resources							
Development and built Form	Resource	Guideline	Y	Y	IRP4 will develop built form typologies. Develop series of JPEGs for SA planning and design guidelines	CRC SA	H
Economics evaluation techniques	Resource	Guidelines	Y	Y	Interpretation of IRP2 outputs	Water by Design business case, CRC D Pannell work, IRP2 stakeholder engagement	H
Andy Coutts – Trees for cool cities Guideline	Resource	Fact sheet (pending)	Y				H
Developer engagement	Resource	Case studies		Y	Document the experience of developers in case studies – why do they invest in WSUD?		H
Development and built Form – demonstration	Resource	Video		Y	Drone video tour of WGV, Aquarevo and other exemplar projects	Water by Design has recently purchased a drone	H
Economics evaluation techniques	Resource	Tool	Y	Y			M
Products and tools	Resource	Webinar		Y	Detailed description of all tools and products in a video format	Christian Urich, Barry Ball and Jurg Keller are touring nationally during 2017	M
Training							
WSC Tool – microclimate tool	Training	Training	Y				M
Urban heat	Training/Community of practice	Seminar	Y	Y			H
Andy Coutts – Trees for cool cities Guideline	Training/Community of practice	Training	Y				H
Development and built form	Training/Community of practice	Community of practice		Y	White Gum Valley, Aquarevo national tour		H
CRCWSC forum	Training/Community of practice	Seminar	Y	Y	Showcase of Tranche 1 highlights		M
DAnCE 4 Water	Training/Community of practice	Seminar	Y				M