



INFORMATION BULLETIN

Accompanying the
Ordinary Meeting of Council Agenda

21 June 2018

COUNCIL INFORMATION BULLETIN

21 June 2018

(REF: D2018/07328)

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1. REGIONAL SERVICES

1.1. REGIONAL SERVICES ACTIVITY REPORT JANUARY 2018 TO MARCH 2018

REFERENCE: D2018/07329

PURPOSE OF REPORT

The purpose of this report is to provide an update on the activities undertaken by the Regional Services Directorate for the period 1 January 2018 to 31 March 2018.

KEY ISSUE(S)

Achievements highlighted for the period 1 January 2018 to 31 March 2018 include:

- All activities undertaken by the Environmental Services business unit for the ensuing period; and
- All activities undertaken by the Regional Development business unit for the ensuing period.

SOURCE OF REPORT

Director Regional Services

BACKGROUND

The Environmental Services and Regional Development business units partner with member Councils and key stakeholders to facilitate strategies, projects and activities and provide services (where appropriate) for the benefit and sustainability of Perth's Eastern Region.

Three advisory groups meet regularly to consider regional economic, transport and environmental projects and initiatives and assist in guiding EMRC strategies. Representation from each participating member Council and the EMRC constitute each group's membership with an expanded membership of the Regional Integrated Transport Strategy Implementation Advisory Group including numerous key stakeholders with an interest in transport.

The three groups are:

- Economic Development Officers Group (EDOG);
- Regional Integrated Transport Strategy Implementation Advisory Group (RITS IAG); and
- Regional Environment Strategy Advisory Group (RESAG).

Regular progress reports are provided to advisory groups, committees and councils to ensure ongoing and effective communication.

REPORT

The progress report for individual member Councils, on Regional Services activity for the period 1 January 2018 to 31 March 2018 is provided below.



Item 1.1 continued

Town of Bassendean

- Progressed Stages Two and Three of the Understanding and Managing Flood Risk in Perth project, with the draft Risk Assessment and Floodplain Development Strategy delivered and consultation with stakeholders undertaken. Animation and outputs were also delivered and the draft Story Map developed.
- Provided the Town with the first draft of the Emissions Reduction Plan 2018 - 2023 for staff and community consultation.
- Organised and attended the Town's Planet Footprint Performance Review quarterly meeting in February.
- The Town was advised that it had achieved Gold Waterwise Status as part of Water Corporation's Waterwise Council Program and was invited to attend the Waterwise Council recognition event to be held on 1 May 2018.
- Provided information on priority actions for the Water Team Meeting held with Senior Environmental Officer.
- Water and energy anomaly investigations were conducted via Planet Footprint; no anomalies were found.
- Provided a media article for the Bassendean Briefings and the Town's Facebook page on the Town's recent solar panel installations and the draft Emissions Reduction Plan.
- Provided information for the Town's Facebook page on World Water Day.
- Provided information upon request for Town Committees and Council meetings including:
 - Waterwise Council benefits (verge scheme and water refill stations); and
 - Western Power Procurement Process (LED lighting).
- Provided technical report summary on the Climate Council's *Fully charged: renewables and storage powering Australia*.
- Finalised the Alternative Weed Management Trial Report as part of the Steaming to Success grant funded project. The report was made publically available through the EMRC website.
- Finalised and submitted the \$155,000 (ex GST) Lotterywest Grant for the 2018 Avon Descent Family Fun Days.
- Designed, built and made live the Perth's Autumn Festival page on www.perthseasternregion.com.au including 67 events to date (including community and feature participating member Council events), including the Town of Bassendean's Festival of Local Businesses event.
- Presented the draft Congestion Management Action Plan to the Regional Integrated Transport Strategy Implementation Advisory Group at the 16 March 2018 meeting.
- Meetings have continued with key stakeholders to discuss council transport priorities in the City Deal Proposal, including grade separations on key transport corridors.
- The EMRC was the recipient of the Australian Road Safety Local Government Initiatives Award 2018 for the "Share the Space" campaign.
- The 13 February EDOG meeting included a presentation and information session on "Unpicking the Census for Perth's Eastern Region" by REPLAN. A handout has since been prepared and distributed on the key statistics for the region; the Perth's Eastern Region Economic Development Report Card 2018.
- The "Connect Perth's East" City Deal proposal has been widely disseminated to all key stakeholders and members of federal and state parliament. Advocacy meetings have continued in order to promote the proposal at both a state and federal level.
- Updated www.perthseasternregion.com.au website with new feature content (Noongar season, feature plant, feature animal and feature weed).
- Continued to update www.perthseasternregion.com.au with news stories and events occurring in the region.



Item 1.1 continued

- Represented the region on the Western Region Advisory Panel and the Integrated Research Project (IRP)2 Economic Evaluation Framework Project Steering Committee of the Cooperative Research Centre for Water Sensitive Cities. Attended a Research Project Update Session on IRP2 and IRP4.
- Attended a WA SDG Network Meeting and provided input into the WA SDG Network's submission to the Senate Inquiry on the SDGs to further the achievement of the Sustainable Development Goals in the region.
- Provided comments to the Department of Planning, Lands and Heritage regarding Issues Papers relating to the review of State Planning Policy 2.9 Water Resources and State Planning Policy 2.10 Swan-Canning River System.
- Provided a submission to the Department of Environment and Energy in response to the public consultation on Australia's Draft Strategy for Nature.
- Provided a submission to WALGA in relation to their Climate Change Policy Statement Review Discussion Paper.
- Provided a submission to the Westport Taskforce on its strategy development and represented the region on the Westport Taskforce Reference Group.

City of Bayswater

- Progressed Stages Two and Three of the Understanding and Managing Flood Risk in Perth project, with the draft Risk Assessment and Floodplain Development Strategy delivered and consultation with stakeholders undertaken. Animation and data outputs were also delivered and the draft Story Map developed.
- Finalised the Alternative Weed Management Trial Report as part of the Steaming to Success grant funded project. The report was made publically available through the EMRC website.
- Continued to hire out the Steamwand SW700 weed control machine to the City.
- Finalised and submitted the \$155,000 (ex GST) Lotterywest Grant for the 2018 Avon Descent Family Fun Days.
- Designed, built and made live the Perth's Autumn Festival page on www.perthseasternregion.com.au including 67 events to date (including community and feature participating member Council events), including the City of Bayswater's Autumn River Festival.
- Represented the region on the Western Region Advisory Panel and the Integrated Research Project (IRP)2 Economic Evaluation Framework Project Steering Committee of the Cooperative Research Centre for Water Sensitive Cities. Attended a Research Project Update Session on IRP2 and IRP4.
- The draft Congestion Management Action Plan was presented to the Regional Integrated Transport Strategy Implementation Advisory Group at the 16 March 2018 meeting.
- Meetings have continued with key stakeholders to discuss council transport priorities in the City Deal Proposal, which includes grade separations on key transport corridors.
- The EMRC was the recipient of the Australian Road Safety Local Government Initiatives Award 2018 for the "Share the Space" campaign.
- The 13 February EDOG meeting included a presentation and information session on "Unpicking the Census for Perth's Eastern Region" by REPLAN. A handout has since been prepared and distributed on the key statistics for the region.
- The "Connect Perth's East" City Deal proposal has been widely disseminated to all key stakeholders and members of federal and state parliament. Advocacy meetings have continued in order to promote the proposal at both a state and federal level.
- Updated www.perthseasternregion.com.au website with new feature content (Noongar season, feature plant, feature animal and feature weed).
- Attended a WA SDG Network Meeting and provided input into the WA SDG Network's submission to the Senate Inquiry on the SDGs to further the achievement of the Sustainable Development Goals in the region.



Item 1.1 continued

- Provided comments to the Department of Planning, Lands and Heritage regarding Issues Papers relating to the review of State Planning Policy 2.9 Water Resources and State Planning Policy 2.10 Swan-Canning River System.
- Provided a submission to the Department of Environment and Energy in response to the public consultation on Australia's Draft Strategy for Nature.
- Provided a submission to WALGA in relation to their Climate Change Policy Statement Review Discussion Paper.
- Provided a submission to the Westport Taskforce on its strategy development and represented the region on the Westport Taskforce Reference Group.

City of Belmont

- Progressed Stages Two and Three of the Understanding and Managing Flood Risk in Perth project, with the draft Risk Assessment and Floodplain Development Strategy delivered and consultation with stakeholders undertaken. Animation and data outputs were also delivered and the draft Story Map developed.
- Finalised and submitted the \$155,000 (ex GST) Lotterywest Grant for the 2018 Avon Descent Family Fun Days.
- Finalised Perth's Autumn Festival regional marketing campaign. Subsequently receiving notification of the successful grant for the amount of \$12,000 (ex GST) of which \$8,000 (ex GST) went to the City. Organised the regional marketing campaign including Community newspaper and West Australian advertisements, radio and online promotion.
- Facilitated a Planet Footprint Performance Review for the City.
- Provided the City with an Emissions Report Card.
- Provided the City with a Water Report Card.
- Provided technical report summary on the Climate Council's *Fully charged: renewables and storage powering Australia*.
- E-Billing system was implemented and finalised, and the City is now receiving automated billing data through Planet Footprint, significantly increasing the data completeness percentage for energy.
- Finalised the Alternative Weed Management Trial Report as part of the Steaming to Success grant funded project. The report was made publically available through the EMRC website.
- Bush Skills 4 Youth delivered nine Bush Skills 4 Youth workshops and attended four consultation, planning and information meetings across the region, including the Belmont Principal's Forum.
- The draft Congestion Management Action Plan was presented to the Regional Integrated Transport Strategy Implementation Advisory Group at the 16 March 2018 meeting.
- Meetings have continued with key stakeholders to discuss council transport priorities in the City Deal Proposal, which includes grade separations on key transport corridors.
- The EMRC was the recipient of the Australian Road Safety Local Government Initiatives Award 2018 for the "Share the Space" campaign.
- The 13 February EDOG meeting included a presentation and information session on "Unpicking the Census for Perth's Eastern Region" by REMPLAN. A handout has since been prepared and distributed on the key statistics for the region.
- The "Connect Perth's East" City Deal proposal has been widely disseminated to all key stakeholders and members of federal and state parliament. Advocacy meetings have continued in order to promote the proposal at both a state and federal level.
- Provided suggestions to the City's annual review of the Environmental and Sustainability Strategy.
- Updated www.perthseasternregion.com.au website with new feature content (Noongar season, feature plant, feature animal and feature weed).



Item 1.1 continued

- Designed, built and made live the Perth's Autumn Festival page on www.perthseasternregion.com.au including 67 events to date (including community and feature participating member Council events).
- Represented the region on the Western Region Advisory Panel and the Integrated Research Project (IRP)2 Economic Evaluation Framework Project Steering Committee of the Cooperative Research Centre for Water Sensitive Cities. Attended a Research Project Update Session on IRP2 and IRP4.
- Attended a WA SDG Network Meeting and provided input into the WA SDG Network's submission to the Senate Inquiry on the SDGs to further the achievement of the Sustainable Development Goals in the region.
- Provided comments to the Department of Planning, Lands and Heritage regarding Issues Papers relating to the review of State Planning Policy 2.9 Water Resources and State Planning Policy 2.10 Swan-Canning River System.
- Provided a submission to the Department of Environment and Energy in response to the public consultation on Australia's Draft Strategy for Nature.
- Provided a submission to WALGA in relation to their Climate Change Policy Statement Review Discussion Paper.
- Provided a submission to the Westport Taskforce on its strategy development and represented the region on the Westport Taskforce Reference Group.

City of Kalamunda

- Delivered two Bush Skills for the Hills workshops in the region: Green Card Training and Rodenticides, Boobooks and Raptors.
- Delivered two Bush Skills 4 Youth workshops in the City of Kalamunda; Boobook Owls and Nature Play. Attended four consultation, planning and information meetings across the region.
- Held combined catchment group meeting focusing on volunteer recruitment.
- Provided an Environmental Project Officer to attend the City's office one day per week to address local landholder enquiries and assist with projects.
- Finalised the Alternative Weed Management Trial Report as part of the Steaming to Success grant funded project. The report was made publically available through the EMRC website
- Community Rivercare grants totalling \$126,228 (incl. GST) were awarded to Catchment Groups in Perth's Eastern Region to improve water quality of the Helena River and associated tributaries.
- The EMRC has been granted funding of \$102,218.60 (incl. GST) from Lotterywest to coordinate a research project with Murdoch University to understand the biodiversity values of farm dams in a drying climate.
- Organised a promotional display space for Catchment Group at the Blue Sky Festival.
- Held a 'Planting, Properties and Conservation' education seminar for landholders participating in the 20 Million Trees Programme at the Blue Sky Festival. Organised a space for catchment groups in the City to promote their work and educate festival goers about weeds and catchment issues. Bush Skills for Youth also facilitated children's education activities.
- The draft Congestion Management Action was presented to the Regional Integrated Transport Strategy Implementation Advisory Group at the 16 March 2018 meeting.
- Meetings have continued with key stakeholders to discuss council transport priorities in the City Deal Proposal, which includes grade separations on key transport corridors.
- The EMRC was the recipient of the Australian Road Safety Local Government Initiatives Award 2018 for the "Share the Space" campaign.
- The 13 February EDOG meeting included a presentation and information session on "Unpicking the Census for Perth's Eastern Region" by REPLAN. A handout has since been prepared and distributed on the key statistics for the region.



Item 1.1 continued

- The “Connect Perth’s East” City Deal proposal has been widely disseminated to all key stakeholders and members of federal and state parliament. Advocacy meetings have continued in order to promote the proposal at both a state and federal level.
- Updated www.perthseasternregion.com.au website with new feature content (Noongar season, Greenpage Newsletter, feature plant, feature animal and feature weed).
- Compiled and distributed the Greenpage Newsletter for February – March 2018.
- Represented the region on the Western Region Advisory Panel and the Integrated Research Project (IRP)2 Economic Evaluation Framework Project Steering Committee of the Cooperative Research Centre for Water Sensitive Cities. Attended a Research Project Update Session on IRP2 and IRP4.
- Attended a WA SDG Network Meeting and provided input into the WA SDG Network’s submission to the Senate Inquiry on the SDGs to further the achievement of the Sustainable Development Goals in the region.
- Provided comments to the Department of Planning, Lands and Heritage regarding Issues Papers relating to the review of State Planning Policy 2.9 Water Resources and State Planning Policy 2.10 Swan-Canning River System.
- Provided a submission to the Department of Environment and Energy in response to the public consultation on Australia's Draft Strategy for Nature.
- Provided a submission to WALGA in relation to their Climate Change Policy Statement Review Discussion Paper.
- Provided a submission to the Westport Taskforce on its strategy development and represented the region on the Westport Taskforce Reference Group.

Shire of Mundaring

- Drafted the Shire’s Energy and Emissions Reduction Strategy and Plan in consultation with Coordinator Environment and Sustainability.
- Held a consultation meeting with Shire fleet staff to discuss fuel use and emissions used by the Shire that will be used for the new Energy and Emissions Reduction Plan.
- Provided energy use figures to the Shire for solar panel installations and energy use/cost discussions within the Shire.
- Organised and attended Shire Planet Footprint Performance Review quarterly meeting in February.
- Assisted the Shire to be re-endorsed as a Waterwise Council for 2017/2018.
- Community Rivercare grants totalling \$126,228 (incl. GST) were awarded to Catchment Groups in Perth’s Eastern Region to improve water quality of the Helena River and associated tributaries.
- The EMRC has been granted funding of \$102,218.60 (incl. GST) from Lotterywest to coordinate a research project with Murdoch University to understand the biodiversity values of farm dams in a drying climate.
- Consulted with Shire and Water Corporation to organise funding for a Water Sensitive Cities Index Workshop as part of the Waterwise Council Program. Workshop is booked for May.
- Attended first meeting for Water Sensitive Cities Index benchmarking workshop with Shire and workshop consultant.
- Delivered two Bush Skills for the Hills workshops in the region: Green Card Training and Rodenticides, Boobooks and Raptors.
- Delivered four Bush Skills 4 Youth workshops in the Shire of Mundaring, including Exploring the lake bushland with Seen and Heard at Lake Leschenaultia, Restoring bushland with Creative Communities and Helena Valley Primary School and Making Seed Bombs with the Glen Forrest Scouts. Attended four consultation, planning and information meetings across the region.
- Provided an Environmental Project Officer to attend the Shire’s office one day per week to address local landholder enquiries and assist with projects.



Item 1.1 continued

- Finalised the Alternative Weed Management Trial Report as part of the Steaming to Success grant funded project. The report was made publically available through the EMRC website.
- Organised a promotional display space for Catchment Group at the Blue Sky Festival.
- Held a 'Planting, Properties and Conservation' education seminar for landholders participating in the 20 Million Trees Programme at the Blue Sky Festival. Organised a space for Catchment Groups in the Shire to promote their work and educate festival goers about weeds and catchment issues. Bush Skills for Youth also facilitated children's education activities.
- Continued to implement the State NRM grant to manage blackberry on sensitive watercourses on private properties and reserves of the Jane Brook catchment.
- Disseminated promotional material for the Friends of Lion Mill group to increase membership and gain resident support for the rehabilitation project taking place in the reserve.
- The draft Congestion Management Action Plan was presented to the Regional Integrated Transport Strategy Implementation Advisory Group at the 16 March 2018 meeting.
- Meetings have continued with key stakeholders to discuss council transport priorities in the City Deal Proposal, which includes grade separations on key transport corridors.
- The 13 February EDOG meeting included a presentation and information session on "Unpicking the Census for Perth's Eastern Region" by REMPLAN. A handout has since been prepared and distributed on the key statistics for the region.
- The "Connect Perth's East" City Deal proposal has been widely disseminated to all key stakeholders and members of federal and state parliament. Advocacy meetings have continued in order to promote the proposal at both a state and federal level.
- Updated www.perthseasternregion.com.au website with new feature content (Noongar season, Greenpage Newsletter, feature plant, feature animal and feature weed).
- The EMRC was the recipient of the Australian Road Safety Local Government Initiatives Award 2018 for the "Share the Space" campaign.
- Represented the region on the Western Region Advisory Panel and the IRP2 Economic Evaluation Framework Project Steering Committee of the Cooperative Research Centre for Water Sensitive Cities. Attended a Research Project Update Session on IRP2 and IRP4.
- Compiled and distributed the Greenpage Newsletters for February – March 2018.
- Held a Water Team Meeting on the 16 February 2018.
- Provided information for Shire's Facebook page on World Water Day.
- Held combined catchment group meeting focusing on volunteer recruitment.
- Attended a WA SDG Network Meeting and provided input into the WA SDG Network's submission to the Senate Inquiry on the SDGs to further the achievement of the Sustainable Development Goals in the region.
- Provided comments to the Department of Planning, Lands and Heritage regarding Issues Papers relating to the review of State Planning Policy 2.9 Water Resources and State Planning Policy 2.10 Swan-Canning River System.
- Provided a submission to the Department of Environment and Energy in response to the public consultation on Australia's Draft Strategy for Nature.
- Provided a submission to WALGA in relation to their Climate Change Policy Statement Review Discussion Paper.
- Provided a submission to the Westport Taskforce on its strategy development and represented the region on the Westport Taskforce Reference Group.



Item 1.1 continued

City of Swan

- Progressed Stages Two and Three of the Understanding and Managing Flood Risk in Perth project, with the draft Risk Assessment and Floodplain Development Strategy delivered and consultation with stakeholders undertaken. Animation and data outputs were also delivered and the draft Story Map developed.
- Assisted the City achieve its Gold Waterwise Status as part of Water Corporations Waterwise Council Program.
- Delivered two Bush Skills for the Hills workshops in the region: Green Card Training and Rodenticides, Boobooks and Raptors.
- Held a 'Planting, Properties and Conservation' education seminar for landholders participating in the 20 Million Trees Programme at the Blue Sky Festival. Organised a space for catchment groups in the Shire to promote their work and educate festival goers about weeds and catchment issues. Bush Skills for Youth also facilitated children's education activities.
- Finalised the Alternative Weed Management Trial Report as part of the Steaming to Success grant funded project. The report was made publically available through the EMRC website
- Blackadder Woodbridge Catchment Groups received \$29,970 (ex GST) in funding as part of the Community Rivercare grant to improve watercourses and bushland in the catchment.
- The EMRC has been granted funding of \$92,926 (ex GST) from Lotterywest to coordinate a research project with Murdoch University looking at farm dams and their ability to support native freshwater biodiversity.
- Participated in the Swan Alcoa Landcare Program (SALP) assessment panel. Assessed and rated SALP applications for the Perth region.
- Delivered three Bush Skills 4 Youth workshops in the City of Swan, including a Clean Up Australia Day event, Restoring Bushland at Bushmead with Creative Communities and Helena Valley Primary School and Introduction to Bush Skills 4 Youth with the Herne Hill Scouts. Attended four consultation, planning and information meetings across the region.
- Provided an Environmental Project Officer to attend the City's office one day per week to address local landholder enquiries and assist with projects.
- Held combined catchment group meeting with the main topic being volunteer recruitment.
- Compiled and distributed the Greenpage Newsletter for February – March 2018.
- The draft Congestion Management Action Plan was presented to the Regional Integrated Transport Strategy Implementation Advisory Group at the 16 March 2018 meeting.
- Meetings have continued with key stakeholders to discuss council transport priorities in the City Deal Proposal, which includes grade separations on key transport corridors.
- The EMRC was the recipient of the Australian Road Safety Local Government Initiatives Award 2018 for the "Share the Space" campaign.
- The "Connect Perth's East" City Deal proposal has been widely disseminated to all key stakeholders and members of federal and state parliament. Advocacy meetings have continued in order to promote the proposal at both a state and federal level.
- Updated www.perthseasternregion.com.au website with new feature content (Noongar season, Greenpage Newsletter, feature plant, feature animal and feature weed).
- Represented the region on the Western Region Advisory Panel and the Integrated Research Project (IRP)2 Economic Evaluation Framework Project Steering Committee of the Cooperative Research Centre for Water Sensitive Cities. Attended a Research Project Update Session on IRP2 and IRP4.
- Attended a WA SDG Network Meeting and provided input into the WA SDG Network's submission to the Senate Inquiry on the SDGs to further the achievement of the Sustainable Development Goals in the region.
- Provided comments to the Department of Planning, Lands and Heritage regarding Issues Papers relating to the review of State Planning Policy 2.9 Water Resources and State Planning Policy 2.10 Swan-Canning River System.



Item 1.1 continued

- Provided a submission to the Department of Environment and Energy in response to the public consultation on Australia's Draft Strategy for Nature.
- Provided a submission to WALGA in relation to their Climate Change Policy Statement Review Discussion Paper.
- Provided a submission to the Westport Taskforce on its strategy development and represented the region on the Westport Taskforce Reference Group.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

- 1.5 To contribute towards improved regional air, water and land quality and regional biodiversity conservation and address climate change

Key Result Area 2 – Economic Development

- 2.1 To facilitate and advocate for increased investment in regional infrastructure
2.2 To facilitate and advocate for regional economic development activities
2.3 To facilitate regional cultural and recreational activities

Key Result Area 3 – Good Governance

- 3.1 To provide advice and advocacy on issues affecting Perth's Eastern Region
3.2 To manage partnerships and relationships with stakeholders

FINANCIAL IMPLICATIONS

The funding to facilitate Regional Services projects and activities is developed and agreed with member Councils as part of the annual budget process.

SUSTAINABILITY IMPLICATIONS

The Regional Services Directorate operates to pursue environmental, economic and social growth outcomes for Perth's Eastern Region. Environmental management activities support sustainability principles and contribute towards the environmental, social, and economic benefits through water and energy savings, conservation and management of biodiversity and natural areas and community education and engagement.

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean City of Bayswater City of Belmont City of Kalamunda Shire of Mundaring City of Swan	Ongoing participating member Council officer time on the three advisory groups: EDOG, RITS IAG and RESAG.

ATTACHMENT(S)

Nil



1.2 UNDERSTANDING AND MANAGING FLOOD RISK PROJECT

REFERENCE: D2018/07331

PURPOSE OF REPORT

The purpose of this report is to provide Council with a further update on Stages Two and Three of the Understanding and Managing Flood Risk Project, which received funding through the All West Australians Reducing Emergencies (AWARE) program.

KEY ISSUE(S)

- The EMRC was successful in its application for \$20,000 funding from the Office of Emergency Management through the AWARE program for Stages Two and Three of the Understanding and Managing Flood Risk project.
- Outputs of the project were presented by the consultants to all stakeholders in May 2018.
- The mapping and data will be provided to member Councils through the Department of Water and Environmental Regulation by the end of August 2018.

SOURCE OF REPORT

Director Regional Services

BACKGROUND

An understanding of the full range of expected flood events is required to support flood emergency response planning, infrastructure design, and community flood preparedness. Floodplain mapping and the corresponding Swan and Helena Rivers Development Strategy were last updated in 1983 and no longer reflect current industry standards. As a result, the available floodplain mapping of the region was considered unreliable to support land use planning, development decision-making and flood emergency response. The EMRC developed the '*Understanding and Managing Flood Risk in Perth*' staged flood study project in collaboration with the Department of Water and Environmental Regulation to address these identified needs.

Updates on Stages Two and Three of the project were provided to CEOAC and Council in January 2017 (Ref. D2017/01688) and December 2017 (Ref: D2017/18445).

The Office of Emergency Management approved a 6 month extension to the milestones for the project for data collection and completion, including the 2017 flood event; reworking of the hydraulic model with the new data; and use of the newly developed Australian Rainfall and Runoff software. The extension was to ensure that the consultants were able to apply best practice methodology to the best available data in order to produce a hydraulic model which was robust and defensible. It is important that the modelling is as reliable as possible so that the other outputs including mapping, hazard and vulnerability information, and the flood development strategy are appropriate to enable effective management of flood risk in Perth's Eastern Region.

REPORT

The EMRC is progressing Stages Two and Three with \$20,000 of AWARE funding through the Office of Emergency Management (OEM) in partnership with Department of Water and Environmental Regulation, the Cities of Bayswater, Belmont, Swan and South Perth, and the Towns of Bassendean and Victoria Park.



Item 1.2 continued

Stages Two and Three have produced the following key outputs:

- Peer reviewed hydraulic model including full design flood dataset and climate change scenario;
- Flood Risk and Vulnerability Assessment for all participating councils; and
- Floodplain Development Strategy.

Revised floodplain mapping including GIS layers for a range of flood events is currently being prepared by the Department of Water and Environmental Regulation from the model data and will be provided to stakeholders by the end of August 2018.

All probability terminology within the reports and data now reflects the requirements of Engineers Australia's National Committee on Water Engineering and the updated Australian Rainfall and Runoff. The term Annual Exceedance Probability (AEP) is used for specific modelled events (rainfalls and floods).

Key findings of the project include that:

- Flooding along the system is generally linear, which means that it generally follows the path of the river with few breakout areas or isolated areas, even in rare events;
- 1% AEP flood levels have reduced quite significantly in some places along the Swan River towards the upper end of the system, with the changes attributed to lower inflows at Walyunga due to improved data collection and reduced rainfall across the catchment;
- Climate change sensitivity testing has shown that there are three zones along the river system:
 - Coastal Only zone which has much higher sensitivity towards the lower (Fremantle) end of the system up to 0.9m;
 - Joint Probability zone which has varying sensitivity such as more than an 0.5m increase to Maylands Foreshore; and
 - Fluvial (riverine) Only zone which has much lower sensitivity towards the upper end of the catchment, such as less than an 0.02m increase upstream from Reid Highway (Swan River) and railway bridge (Helena River).
- Existing floodway and flood fringe areas were tested in the new model and found to be generally suitable, with land use planning areas mostly unchanged, with some specific areas subject to verification by the Department of Water and Environmental Regulation.

Presentations of outputs were provided at all participating Councils and to EMRC stakeholders in May 2018, including a briefing session to Councillors. Reports will be made available to all participating Councils once finalised. The Department of Water and Environmental Regulation is verifying the floodway and flood fringe areas currently using the new data and mapping and data layers will be provided to member Councils by the end of August 2018.

STRATEGIC/POLICY IMPLICATIONS

Key Result Area 1 – Environmental Sustainability

- 1.5 To contribute towards improved regional air, water & land quality, regional biodiversity conservation and address climate change.

FINANCIAL IMPLICATIONS

Budget allocation for the Understanding and Managing Flood Risk Project has been provided in the Environmental Services 2016/2017 and 2017/2018 operating budgets.



Item 1.2 continued

SUSTAINABILITY IMPLICATIONS

This project continues the region's commitment to managing climate change adaptation and risk to ensure a resilient future. The activities undertaken contribute towards environmental, social and economic benefits through improving knowledge in relation to flood risk.

MEMBER COUNCIL IMPLICATIONS

Member Council	Implication Details
Town of Bassendean	} The project will assist member Council decision-making on proposed flood prone land use including land use planning, development decisions and emergency services response.
City of Bayswater	
City of Belmont	
City of Kalamunda	
Shire of Mundaring	
City of Swan	

ATTACHMENT(S)

Nil