

**Office of Environment and Heritage**  
Floodplain Management Program – Application for financial assistance 2015-16

**Closing Date: 5.00 pm 9 April 2015**

**General information**

- a. You will need the *Floodplain Management Programs Grant Application Guidelines 2015-16* prepared by the Office of Environment and Heritage (OEH) to help you fill out this application form. Guidelines are available on the OEH website, [Floodplain Management grants page](#).
- b. To complete this form electronically, click in the shaded boxes and enter the required information or select the appropriate answer from drop-down lists. A cross in a box is equivalent to a tick.

**Applicant details**

**1a Name of organisation** Wagga Wagga City Council

**1b Contact person for this project**

Title	Mr	First name	Alex	Surname	Fenwick
Position	Manager Engineering			Daytime phone	
Email				Mobile No.	
Address	PO Box 20				
Suburb	Wagga Wagga			State	NSW
				Postcode	2650

**1c Project partner(s)**

Attach a letter of support from your partner(s), which outlines their financial commitment to the project.

Project partner(s)	
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**Project stage details**

**2 Project title** (maximum of 80 characters including spaces. If this is a staged project, include the number of the stage).

**Wagga Wagga Main City & North Wagga Levee Construction - Stage 1**

**3 Project stage and category.** Select only **one** from the following.  
If you are likely to proceed from one stage to the next during the grant, submit two applications.

**Floodplain risk management plan development**

<b>Stage 1</b>	Prepare flood study (including data collection for a flood study)	<input type="checkbox"/>
<b>Stage 2</b>	Prepare (or review) floodplain risk management study and plan	<input type="checkbox"/>

## Floodplain risk management plan implementation or levee upgrade

<b>Stage 3</b>	Investigation and design (including feasibility) <sup>1</sup>	<input type="checkbox"/>
<b>Stage 4</b>	Implement actions	
	Levee upgrade	<input checked="" type="checkbox"/>
	Flood mitigation works (including levee construction)	<input type="checkbox"/>
	Flood warning systems	<input type="checkbox"/>
	Evacuation management	<input type="checkbox"/>
	Voluntary purchase <sup>2</sup>	<input type="checkbox"/>
	Voluntary house raising <sup>3</sup>	<input type="checkbox"/>
	Other (specify)	<input type="checkbox"/>

<sup>1</sup> This stage must be undertaken for works projects which are likely to exceed a total project cost of \$500,000.

<sup>2</sup> Further information on the eligibility criteria and implementation of voluntary house raising projects is available, see [Voluntary house raising schemes guidelines](#).

<sup>3</sup> Further information on the eligibility criteria and implementation of voluntary purchase projects is available, see [Voluntary purchase schemes guidelines](#).

### Project timeframe

- 4** Please be realistic about the completion date as this will be used to set the term of your funding agreement if you are offered a grant.

Proposed commencement	1/12/2015	<ul style="list-style-type: none"> <li>Your project cannot start before 1 July 2015, but must commence before 31 December 2015.</li> <li>Project duration cannot exceed 36 months</li> </ul>
Proposed completion	31/12/2016	

### Project location

- 5** Enter location description and photos of the site where possible, and attach a locality diagram or map. Where possible include town, nearby road, beach or other notable landmark etc.

**Wagga Wagga Local Government Area - Murrumbidgee River Floodplain**

Please provide the latitude and longitude. This can be taken directly from a map, or from Google Maps. Go to [www.maps.google.com.au](http://www.maps.google.com.au) and find your project location, right click on the map on the project location and in the menu that appears select "what's here". The co-ordinates will appear in the search box above the map.

<b>Latitude</b> 35.7.38S	<b>Longitude</b> 147.22.8E
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If the project location falls across more than one LGA, LLS region, electorate or catchment, please identify the primary one first.

LGA*	LLS	State electorate/s	Catchment (if applicable)
Wagga Wagga LGA	Riverina	Wagga Wagga	Murrumbidgee

\* Local Government Area (LGA), Local Land Services (LLS) Region, State Electorate and Catchment information required for Program reporting purposes only.

**Budget overview**

(More details must be provided in the preliminary work plan at question 22.)

- 6** Funding is generally provided on a '\$2 from grant fund, \$1 from the applicant' basis (unless special consideration is sought under question 7, and awarded). Table below **must include** all funding sources. Make sure this matches amounts in the work plan by financial year.

Financial Year	Applicant's contribution (excluding GST)	Partner contribution (excluding GST)	Total amount (excluding GST)	Grant amount sought (excluding GST)
2015/16	\$506,667	\$	\$1,520,000	\$1,013,333
2016/17	\$500,000	\$	\$1,500,000	\$1,000,000
2017/18	\$	\$	\$	\$

**7 Special consideration**

Is special consideration being sought for reduced council contribution?

Yes ☐ or No ☒

If you have answered yes, please indicate what funding ratio you are requesting after **contacting the Grants unit**

Ratio: to

Have you spoken to the Senior Team Leader, Contestable Grants – Coast, Estuary & Flood?

Yes ☒ or No ☐

**Please provide details below (including why the issue being addressed is of regional or state-wide significance and why you do not have the financial capacity to address it).**

**8 Financial commitment to the project and ongoing maintenance**

Is the applicant able to provide its matching contribution to the project?	Yes <input checked="" type="checkbox"/> or No <input type="checkbox"/>
Has the budget for this project been identified in your forward budget?	Yes <input checked="" type="checkbox"/> or No <input type="checkbox"/>
Does the applicant commit to maintaining any works in a condition suitable to meet the design intent for the design life (works project only)?	Yes <input checked="" type="checkbox"/> or No <input type="checkbox"/> or N/A <input type="checkbox"/>

**Project summary**

- 9** Provide a plain language brief project overview (**150 words or less**), including location and the issue that the project will address. **Please note** this summary will be used by OEH for all promotional material relating to the grant (i.e. media, web site etc.)

This project represents the first stage of construction in the upgrade of the Wagga Wagga levee protection system, encompassing the Main City and North Wagga Levees, to provide appropriate levels of protection. Currently, the Main City Levee does not provide protection against the 1% AEP design flood event in the Murrumbidgee River which places the Wagga Community at risk in the event that a flood of this magnitude occurs.

Within this Stage 1 project, construction of the first section of the Main City levee from Ch9140 to Ch7040 (approximately 2.1km), as per the detailed design, will be completed to provide a 1% AEP design flood level of protection (with freeboard) within this section. Subsequent construction stages will see the entire Main City and North Wagga levees upgraded.

**Other funding**

- 10** Do you (or any project partners) have any current or planned proposals to other funding programs for this project or components of this project? Yes ☐ or No ☒

If you have answered yes to the above, please provide details below

Project name	Funding source (eg. State or Commonwealth Government)	Program name	Year of offer	Amount	Completion/expected completion date
				\$	
				\$	

- 11 Previous funding** Have you received any previous funding for projects at this location? Yes ☒ or No ☐

If you have answered yes to the above, please provide details below

Wagga Wagga City and North Wagga Levee Upgrade - I & D (Currently being finalised)  
 Wagga Main City Levee Upgrade Project- Feasibility Study, Investigation and Preliminary Design (Completed in 2012)  
 Wagga Wagga - Revise Floodplain Risk Management Study and Plan (New 2014/15 grant)  
 Wagga Wagga Major Overland (Internal) Flow Flood Risk Management Study and Plan (in progress)  
 Wagga Wagga LGA Model Extension Project (Completed in 2012)  
 Wagga Wagga Floodplain Risk Management Study and Plan (Completed in 2009)  
 Urgent Levee Rehabilitation Section 2 - Stages 1 & 2 (Completed under NDMP in 2009)  
 Urgent Levee Rehabilitation Section 3 - Stages 1 & 2 (Completed under NDRGS in 2011)

**Flood history and studies**

- 12** Provide a brief description of the flood history of the project area and any information about the severity of previous floods, and the damages and losses incurred (e.g. evacuation required, essential services at risk of failure).

The largest officially recorded flood at Wagga Wagga within European history was the 1974 flood which reached a peak level of 10.75m at the Hampden Bridge.  
 In March 2012, the Murrumbidgee River reached a peak level of 10.60m at the Hampden Bridge gauge, the second highest flood since 1870.  
 In 1977, a desktop flood study was performed by Sinclair Knight based upon the 1974 flood event.  
 In 1978/79 Levee was upgraded to withstand 1974 flood plus 1m freeboard.  
 In May 1988, Wagga Wagga Flood Study Report was prepared by NSW Department of Water Resources  
 In 2004, WMAwater produced and Council adopted a Flood Study based upon a 1D Tulfow model, calibrated to the 1974 flood event.  
 In 2009, Council adopted the Wagga Wagga Floodplain Risk Management Plan with a recommendation that the levee bank be upgraded.  
 In 2010, WMAwater converted the 2004 model to a 2D TUFLOW flood model for Council.  
 In 2012, WMAwater produced a coarse 2D TUFLOW model for the entire floodplain within the Local Government Area.  
 In March 2012 a flood greater than the existing levee design height was predicted. All the CBD area and adjacent residential area of 8000 people was evacuated.  
 In 2013/14, Council, through the consultants WMAwater, revised its 2010 flood model to accommodate the revised rating tables for the Murrumbidgee River and validated and calibrated the model using survey and mapping data obtained following the 2010 and 2012 flood events, as well as a comparison to the 1974 flood event. WMAwater also increased the predicted 1% AEP design flood level to 11.3m at the Wagga Wagga gauge.  
 2014/15 Council engaged NSW Public Works to undertake a Detailed Investigation and Design of the upgrade of the Main City Levee and the North Wagga Levees.

- 13 a** Is this project of a regional or state significance? Yes ☒ or No ☐

If yes, please state why, including if there is an immediate threat.

The upgrade of the Wagga Wagga Levee protection system is crucial to provide the residents and businesses of Wagga with a suitable level of protection during major flood events. Wagga Wagga is the largest regional city within NSW and provides support for all surrounding communities within the Riverina region. The city itself has been built upon the Murrumbidgee River floodplain and is susceptible during major flooding events. The major flood event in March 2012 resulted the need to evacuate North Wagga and the entire CBD area behind the Main City Levee due to the design flood height of the Main City levee expected to be exceeded by the approaching flood. Some 8,000 people were evacuated by the SES and emergency services causing mass disruption and loss of income for all the businesses in the CBD. This had ramifications not only for the region but across the State as major highways were cut and this major inland City was brought to a standstill.

**13 b Please outline the number of approximate number of houses and/or population that will be impacted by flood waters.**

It is estimated that if the Main City Levee was to fail (or overtop) in a major flood event (>60y ARI), the CBD area would be subject to an average flooding depth of 1.4 m over an area of 2.5 sq km. This accounts for approximately 2500 commercial and residential properties, including some 8000 residents.

**14 Why is funding required?** Specify why this project would not proceed without funding.

The communities expectation is that the Wagga Main City and North Wagga levees will be upgraded to provide increased levels of protection. It is beyond Wagga Wagga City Council's resources to fully fund this project due to the shear size of the project.

**15 Project objective.** Specify what you plan to achieve with this project.

The objective of this project (Stage 1) is to upgrade a section of the Main City Levee to a 1% AEP level of protection (plus freeboard). This is the first step towards providing an appropriate level of protection to the residents and businesses of Wagga currently at risk due to flooding during major events in the Murrumbidgee River.

**Project outcomes**

**16** Briefly outline the result, impact or benefits of the project. **Note:** if your application is successful you will need to report against these outcomes in your final report.

The upgraded levee would ultimately provide flood protection for 2500 residences and businesses within the CBD allowing residents and bussinesses to operate, certain of an acceptable level of flood protection.

**Project outputs**

**17** Provide measures of the project activities. These should be tangible and quantifiable.

**Note:** If successful you will need to report against these in your milestone and final reports.

This project will see the upgrade of the Main City Levee between Ch 9140 and Ch 7040 including the engagement of construction contractor/s, project/construction management and completed construction of Stage 1.

**How does the project meet the Floodplain Management Program's objectives and priorities?**

**18** Refer to the Guidelines for the list of program objectives.

The primary objective of the FMP is to reduce the impacts of flooding and flood liability on communities as well as the private and public losses resulting from floods. This project aims to ultimately upgrade the Wagga Levee protection system to reduce damages and protect life during major flood events. Council have followed the floodplain risk management process outlined in the Floodplain Development Manual (2005) by completing flood studies, a Floodplain Risk Management Study and Plan and then following through with implementing actions such as the feasibilty study and detailed design for the upgrade of the Wagga Levees.

**Floodplain risk management plan**

**19 a** Is the project stage part of a recommended action in a floodplain risk management plan?

Yes ☒ or No ☐

If yes, please provide details of plan and the relative priority of action or recommendation.

The investigation of the feasibility for upgrading the the Main City and North Wagga levees was listed as a high priority flood mitigation measure in the Wagga Wagga Flood Risk Management Plan (2009). The Levee upgrade feasibility study that was completed in 2012 found that it was feasible to upgrade the existing levees to provide a 1% AEP design flood protection for the Main City and 5% AEP design flood protection for North Wagga.

**19 b** Has the floodplain risk management plan been formally adopted by council? Yes ☒ or No ☐

**20 To what level is the project supported by the community?**

The community has been very supportive of the recommendations in the Wagga Wagga Floodplain Risk Management Plan (2009) and the various flood mitigation projects. A good indication of this is that there have been over 7000 registrations made to Councils "floodfutures" website. With the 2012 flood and its consequences still fresh in the community's mind, there is a community view that flood protection is a high priority.

**21 New works ranking form**

- If these are new works that have not previously been scored under the scoring system endorsed by the Floodplain Management Association, you must complete a New Works Ranking Form. This should also be re-done if more recent studies or new information has arisen that will impact the cost-benefit of the works.
- The form is available on the on the website under [Guidelines, application forms and work plans](#) section.

Please refer to the 2015-16 Floodplain Management Program Application Guidelines for assistance in completing this form.

**22 Preliminary work plan**

- You **must** attach a preliminary work plan in Microsoft Excel format. Other document types will **not** be accepted.
- The template is available on the [Floodplain Management Grants page](#).
- Please be realistic about the dates and costs you provide in your preliminary work plan and ensure that they match the completion date provided under Question 4. Also ensure that the amounts by financial year correspond with those in question 6.

**Outline your capacity to deliver the project**

- 23** Look at your past grants management history, available resources, financial commitment and the proposed timeframe, and consider whether it is realistic based on completion of prerequisite briefs, preconstruction work, or approvals.

Wagga Wagga City Council has extensive experience in delivery of projects via the Floodplain Management Program and the Natural Disaster Resilience Grants Scheme. Wagga Wagga City Council has been effectively managing flood management and mitigation projects continuously via these funding programmes since 2007. Wagga Wagga City Council has a designated project management team that can efficiently manage such projects.

**24 Does your organisation agree to enter into, and be bound by, the conditions in a funding agreement? (as outlined in the Grant Application Guidelines)** Yes ☒ or No ☐

<b>25</b>	<b>Will the project be undertaken by a contract after calling for competitive tenders (This refers to all elements of the project, if Council intend to undertake any work in house then please seek approval for this at this question)?</b>	Yes <input checked="" type="checkbox"/> or No <input type="checkbox"/>
If no, you must provide information justifying this below, as it is expected that works be tendered		

<b>26 a</b>	<b>Have you discussed the project details with the relevant OEH officer?</b>	Yes <input checked="" type="checkbox"/> or No <input type="checkbox"/>
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<b>26 b</b>	<b>Has technical advice been provided by a relevant OEH officer?</b>	Yes <input checked="" type="checkbox"/> or No <input type="checkbox"/>
If yes, provide the name of the OEH officer, and the nature of advice provided.		
Steve Manwaring - Senior Natural Resource Officer (Floodplain Management) South West Region-South Branch provided technical and practical advice in the preparation of this application.		

## Authorisation

**APPLICANT** Provide the name of a senior officer in your organisation, with appropriate delegation, who has authorised the submission of this project and has the delegation to authorise the commitment of the resources and expenditure required to deliver this project.

**Note:** Signature **is not** required.

Name	Alex Fenwick
Title/position	Manager Engineering
Organisation	Wagga Wagga City Council
E-mail	[REDACTED]
Phone no	[REDACTED]
Date	

## Submission details

It is recommended that you read the *Floodplain Management Programs Grant Application Guidelines 2015-16*.

Use the following checklist to make sure that your application is complete and accurately represents your project.



## Grant application check list

<input type="checkbox"/> Answer <b>all</b> questions in the application form. <input type="checkbox"/> Submit your entire application by <b>one</b> of the methods below. (i.e. <b>do not</b> email and also post). <b>Email is the preferred option.</b> <input checked="" type="checkbox"/> Submit one application per project. <input type="checkbox"/> Type only in the spaces provided in the application form. The boxes provided for answers to questions are a set size; the boxes will not expand to accommodate additional text if you continue to type beyond the bottom of the text box. Please ensure answers to questions are fully contained within the limits of the text boxes. <input type="checkbox"/> Manually spell-check your application (the Microsoft Word Spelling and Grammar function is disabled in this form). <input checked="" type="checkbox"/> Enter the <b>state</b> and <b>federal</b> electorate at Question 5. <input checked="" type="checkbox"/> Enter monetary amounts in full, i.e. \$10,000 not \$10k. <input type="checkbox"/> Check the budget amounts outlined in your attached preliminary work plan are consistent with the Budget Overview at Question 6. <input type="checkbox"/> Have your application authorised by the appropriately delegated person (signature not required). <input type="checkbox"/> Attach the <i>New Works Ranking Form</i> if the application is for a new works project that has not already been ranked under the scoring system endorsed by the Floodplain Management Association. <input type="checkbox"/> Complete and attach your preliminary work plan, Question 22. <input type="checkbox"/> Attach letter(s) of support from your project partner(s), if applicable. <input type="checkbox"/> Attach letter(s) of support from the State Emergency Service and Bureau of Meteorology (if the project deals with evacuation management or flood warning systems). <input type="checkbox"/> Include your organisation name then project name in the subject line of your email when lodging the application (e.g. XX Council – XX Floodplain Risk Study and Management Plan). <input type="checkbox"/> Submit your application by the <b>closing date – 5.00 pm 9 April 2015</b>		
<b>Email to:</b>	<a href="mailto:coastalestuary.floodgrants@environment.nsw.gov.au">coastalestuary.floodgrants@environment.nsw.gov.au</a>	<ul style="list-style-type: none"> <li>• Please email the <b>application form as a Word document</b> and the <b>work plan as an Excel document - <u>do not</u> print to PDF</b>. Attachments can be emailed as Word, Excel or PDF documents.</li> <li>• If the application form or work plan is not submitted in the format specified above, <b>they will not be accepted.</b></li> <li>• Ensure you email your entire application, including all attachments, e.g. work plans, maps; etc.</li> <li>• Emailed applications must not be larger than <b>10MB</b> including all attachments.</li> </ul>
<b>Post to:</b>	Senior Team Leader Contestable Grants, Coast, Estuary & Flood PO Box 644 Parramatta NSW 2124	<ul style="list-style-type: none"> <li>• If posting your application, please send a USB or CD with your saved application form and any attachments. <b>No hard copies please.</b></li> </ul>

**Any application that is late, incomplete or ineligible will not be considered.**

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