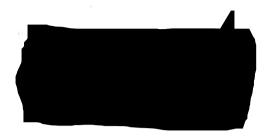


11/05/2021



Dear ratepayer,

Moree Plains Shire Council has been investigating the recommendations of an independent review of the 2017 Flood Plain Risk Management Plan. The key recommendations were to:

- Update the flood model with a more realistic representation of the rural flood levees
- Investigate the feasibility of a town flood levee
- Investigate the cost and feasibility of raising Boonery Rd, Hassell St Causeway and the approach to the Dr Geoffrey Hunter Bridge for improved vehicle mobility during a flood
- Better utilisation of the Voluntary House Raising Scheme
- Updating the flood education plan to better inform town residents about their options during a flood

The attached survey is related to the feasibility of a town levee and is aimed at determining the community's desire for a levee. The results will form part of the levee feasibility report along with construction costs, costs to mitigate the impacts caused by the levee outside of the alignment, social impacts and environmental impacts.

Information about the levee can be found at the following places:

- There are "Frequently Asked Questions" attached to this letter which has answers to common questions about the levee.
- Councils' website has information such as the levee impacts to flooding maps –
 https://www.mpsc.nsw.gov.au/hot-topics/floodplain-risk-management
- The Library has information such as flood maps located in the foyer
- The consultants who are preparing the feasibility report will be in Moree and available to answer questions at the Library at the following times (no bookings required):
 - o Tuesday, 1 June 9.30am to 11am / 12pm to 2pm / 4pm to 6pm
 - o Wednesday, 2 June 9.30am to 11am / 12pm to 2pm / 4pm to 6pm
 - o Thursday, 3 June 9.30am to 11am / 12pm to 2pm / 4pm to 6pm

The survey closes Friday, 18 June 2021 and can be returned via the enclosed self-stamped envelope or dropped at a Council Office.

Fyou have any questions relating to the floodplain risk management process including this survey please contact Council on 67 573 222 or email councl@mpsc.nsw.gov.au or drop into the Moree Community Library on the dates and times listed above to talk to the consultants undertaking the feasibility (Ed & Julian).

Regards,

Ed Henty

Principal Engineer & Director

Dryside Engineering

Moree Town Levee Frequently Asked Questions

Q - Has the upgrade of the Inland Rail been taken into consideration when assessing the feasibility of the Levee?

I - Tex the lease assessment consultants and imand Pail travel been in requiar contact.

Q - What effect could a levee have made in the recent March 2021 flood event in Moree?

A - Woodes indicate that the recent March 2021, (1 in 20-year) flood event the construction of a levee could have the following effects:

- Reduced houses with above floor flooding from 96 to 24
- The bridge would have remained open
- The businesses in the town could have remained open (if staff were available)
- Approximately 70 properties outside the levee could be adversely affected as follows:
 - o Increased flood levels up to 100 to 300mm for approximately 35 properties outside the
 - o Increased flood levels up to 300 to 400mm for approximately 21 properties outside the
 - o Increased flood levels up to 400 to 500mm for approximately 3 properties outside the
 - o Increased flood levels above floor level for approximately 1-2 properties outside the

Q - Would a levee cause downstream damage to infrastructure and cropping from a the Gwydir River?

A - This is unknown at this stage. Flood levels in the Gwydir River to the north and 300mm in a 1% AEP event.



Based on Best Practice 2021 Flood Modelling and information obtained during the feasibility process under taken this year (2021).

Q - Why are we even considering a levee?

A - The NSW Government requires Council, on behalf of the community, to have a policy regarding controlling development on flood prone land. Following Moree's major flood event of 2012, Council was obliged to review its plans to reconsider the flood risks facing Moree and surrounds and re-evaluate the options to reduce future risks. As part of this review process, a levee has been identified as one such measure to be further investigated by Council.

Q - Is the levee definitely going to be constructed?

A - No, Council is gathering additional information to make a decision on whether to apply for funding to construct a levee. Part of this additional information is understanding the community desire for a levee and undertaking an assessment of the impacts outside of a levee and as well as gaining a better understanding of the costs.

Q - Will the Moree levee construction affect levee improvement/construction funding for Pallamallawa and Mungindi?

A - No, this is a separate project and does not affect projects in Pallamallawa and Mungindi.

Q - What are the dimensions of the levee and the proposed alignment?

A - The levee ranges in height from 2m to 3m with a bottom width of 15-20m (top width 2-3m). This information can be found on the Council website and on display at the Moree Community Library.

Q - What will be the construction material of the levee?

A - The levee would be constructed with clay enriched engineered fill/soil

Q - How much will the levee cost to build?

A - The levee is estimated to cost \$22 to \$24million to construct plus there will be another \$16-\$18million required to purchase or raise houses and compensate affected landowners outside the levee. The total cost estimate is \$38M to \$42Million.

Q - Who will benefit from the levee?

A - 551 properties within Moree township will benefit directly from a levee. This would remove above floor flooding on their properties. The cost to benefit ratio of a levee ranges from 0.75 to 0.83, that is for every dollar spent on a levee there is \$0.65 - \$0.72 of benefits from flood reduction. In a 50-year period \$42M invested in the levee will save \$27M in flood damages. The impacts the proposed levee will have on flooding can be found on the Council website and on damage at the Moree Community Library.

O - If constructed, would the levee adverse a map to the surse man the s

A - Yes. Flood modelling has been undertaled to assess the information package. Residents of Gwyddiff eid would have an incompletely would have an incompletely be purchased at market value or raised with the boundary of the completely would be purchased.

There would also be a number of outbuildings in these areas are an account of the construction budget. Landowners will not also a levee would have so flooding outside a levee can be suited.

Moree Town Levee Frequently Asked Questions

Q - Who would pay for construction of the levee?

A - If a levee has support from the community and the feasibility investigation deems the cost of construction worthwhile, Moree Plans Shire Council will investigate funding streams for the construction costs. Funding for such projects will require a financial community by Council; a typical financial arrangement is for Council to contribute 1/6 of the costs, with the State Government contends the balance.

At this stage it is unknown where Council's share will come from.

Q - Are there alternative solutions being investigated if the levee option does not proceed?

- A read a number of alternative floodplain measures have been identified, with the following currently being investigated as part
- Geoffrey Hunter Bridge and the Hassell Street Causeway to allow access out of town during a flood access to both supermarkets and the hospital.
- The second of the second pates walves on a number of drainage outlets in town
- Teaching of Fest month of Gayon Street to Res2 to restrict dense development in a flood prone area
- Secretarisation of the Voluntary House Raising Scheme
- Indiana the flood education plan to better inform town residents about their options during a flood.

Q - If the levee proceeds and the levee is constructed on my land, will I be compensated?

A - Yes, the cost of the levee includes land acquisition and compensation costs. If a levee proceeds, land valuations would be an tenasen by specialist rural land valuers.

Q - If the levee is on my land, will I have access to it?

- No, the land upon which the levee will be constructed will be owned and maintained by Council. Crossings would be cased designed into the levee in certain locations where it dissects paddocks.

Q - How will the levee be managed so that it is not accessible to the public and will it pose a security?

The levee would be fenced on either side and have gates at the entrances to maintenance tracks and farm traces

• Will the levee affect insurance premiums?

Transit has no control over insurance premiums; however, if Council constructs the electron may reduce. However, you need to contact your insurance company to company to company to the effect a level will have on insurance premiums for properties outside of a level.

• What ongoing maintenance will be required for the levee and will an increase in rates be required to this?

- The cause the levee to fail. In addition to this, the levee will also require mowing up to 4 times per year. This
- was accresimately \$50,000 annually which would come out of Council's maintenance budget.

- The levee affect the volume of water flowing downstream in the Mehi

Went River in the Ment River in flood events larger than the 10% AEP Flood Event (1 in 10-year Contents in the levee would be designed to allow 26,000 ML per day to pass.



Figure 1: Proposed Moree Levee Location

Proposed Moree Levee Location

Moree Plains