

Byron Shire Council - 2022 - Whole Shire Flood Mitigation Works Program

	Floodplain Management Plan	Proposed Mitigation Action	Original Priority	Responsibility	Approx Value	Comments	Updated Priority 2022
1	North Byron	Implement debris control measures for Federation Bridge and Billinudgel Railway Bridge.	Design underway	BSC - IPT	\$100,000	Grant funded for design phase only	1
2	North Byron	Further investigate raising eligible residential properties to reduce flood damages.	Moderate	BSC - IPT	Staff Time (pending Council decision on VHR Council/State contribution)	Proposed as part of VHR/VHP scheme	1
3	Belongil Creek	Preferred Byron Drainage Strategy Construction	High	BSC - IPT	\$15,000,000	Grant awarded for design phase only. Contract award by August 23. Construction phase grant application required.	1
4	North Byron	Development a whole of catchment drainage model and overland flow path investigation.	High	BSC - IPT	\$250,000	2:1 grant submitted May 22	2
5	North Byron	Undertake more detailed assessment of properties which may benefit from property level protection	High	BSC - IPT	\$50,000	Will form part of the scope of Shire overland flow path study	2
6	Belongil Creek	Voluntary House Raising Scheme	Medium Priority	BSC - IPT	\$8,550,000	Grant submitted May 22 for 2/3 funding for upto 2 houses. Total Scheme is 57 houses at \$150 per house.	3
7	North Byron	Implement the recommendations of the South Golden Beach levee audit.	Low	BSC - IPT	\$200,000	Funding to be sought	4
8	Tallow Creek	Upgrade Broken Head Road Crossing of South Tallow Creek	Medium	BSC - IPT	\$355,000	2009 price - needs to be increased to current day value	5
9	Tallow Creek	Upgrade Coogera Circuit Detention	Medium	BSC - IPT	\$380,000	2010 price - needs to be increased to current day value	5
10	Belongil Creek	Drainage Infrastructure Maintenance	High	BSC - Operations	\$1,092,400	One of clean of main drains in Byron Bay	6
11	North Byron	Further detailed assessment of Saltwater Creek upgrade assessment and mitigation options for Mullumbimby. (incl. influence of structures)	Moderate	BSC - IPT	Refer to item 6	Will form part of the scope of Shire overland flow path study	7
12	North Byron	Undertake an Evacuation Assessment for Mullumbimby.	High	SES (tech intel from IPT)	Staff Time	Underway by SES	8
13	North Byron	Identify key roads and implement automatic warning signs and depth indicators.	High	BSC - IPT	\$100,000	Grant being invstigated	9
14	Belongil Creek	Community Flood Awareness	Immediate	BSC - IPT / Comms	\$10,000	Funding to be sought	10
15	North Byron	Consider establishing a Voluntary House Purchase scheme for eligible properties.	Complete	BSC - IPT	Staff Time (pending Council decision on VHR Council/State contribution)	Grant submitted May 22	Grant submitted
16	North Byron	More detailed assessment of potential raising of River Street to provide improved flood immunity and evacuation.	Low	BSC - IPT	Refer to item 6	Will form part of the scope of Shire overland flow path study	Grant submitted
17	North Byron	Further consider viable options to implement the recommendations of the New City Road drainage assessment.	Low	BSC - IPT	Refer to item 6	Will form part of the scope of Shire overland flow path study	Grant submitted
18	Tallow Creek	New Byron Local Environment Plan to more robustly protect existing development from increased flooding impacts resulting from future development and update to be in line with NSW Floodplain Development Manual (2005)	Complete	Complete	Staff Time	Complete	Grant submitted
19	Staff Recommended Not Supported By A Plan	SGB Flood Pump Generator	High	BSC - IPT	\$140,000	Protection from power failures.	High
20	Staff Recommended Not Supported By A Plan	Investigate Options for SGB Flood Gate Upgrades	High	BSC - IPT	\$30,000	Alternate solutions - flood gates with automated knife valves for full closure as an example	High
21	Staff Recommended Not Supported By A Plan	Design SGB and Fern Beach Flood Levy Upgrades	High	BSC - IPT	\$100,000	Levy over topped in 2022. Propose to raise Levy. Public Works now investigating.	High
22	Staff Recommended Not Supported By A Plan	Investigate Flood Levy for Western SGB	Medium	BSC - IPT	\$30,000	Post 2022 flood, investigate the benefits of a levy for west of Capricornia Canal. Propose to request Public Works investigate as part of Levy program	High
23	Staff Recommended Not Supported By A Plan	Post Event Shire-wide Flood Planning Level Review	Medium	BSC - IPT	\$30,000	Proposed action following post event report	High
24	North Byron	Council and the SES to update the Local Flood Plan based on findings of the FRMS.	Moderate	SES (tech intel from IPT)	Staff Time	Underway by SES	Moderate
25	North Byron	Engage with the community to prepare an ongoing flood education program, with appropriate evaluation by Council and SES following implementation.	Moderate	SES/BSC - IPT / Comms	\$20,000	Funding to be sought	Moderate
26	North Byron	Further consideration of Avocado Court drainage modification.	Moderate	BSC - IPT	Refer to item 6	Will form part of the scope of Shire overland flow path study	Moderate
27	North Byron	Develop a sediment transport model to investigate modification to the rock walls, as part of the Coastal Management Program for the Brunswick Estuary.	Moderate	BSC - SEE / IPT	\$150,000	Being considered as part Coastal Management Plan	Moderate
28	North Byron	Further consideration of Billinudgel infrastructure improvements.	Moderate	BSC - IPT	Refer to item 6	Will form part of the scope of Shire overland flow path study	Moderate
29	North Byron	Develop guidance on the design and installation of fencing traversing waterways and channels.	Moderate	BSC - IPT	\$15,000		Moderate
30	North Byron	Flood Planning Levels revised based on the recommendations of the FRMS.	Complete	Complete	Staff Time	Complete	N/A
31	North Byron	Section 10.7 (5) certificates to provide further detail of flood behaviour. Consideration to providing property-level flood information via an online GIS platform	Complete	Complete	Staff Time	Complete	N/A
32	North Byron	Byron Shire Council and SES to consider the findings and recommendations of the FRMS in the development of the Flood Warning Network for North Byron.	Complete	Complete	Staff Time	Complete	N/A
33	North Byron	Changes to land use zoning should consider flood compatibility based on the recommendations of the FRMS.	Complete	Complete	Staff Time	Complete	N/A
34	North Byron	Form a committee, comprising council, state, emergency services and community member representatives to oversee the implementation of the FRMP	Complete	Complete	Complete	Complete	N/A
35	Tallow Creek	Commence undertaking to rezone the land identified as high flood hazard for the 1 in 100 year ARI flood to preclude these areas from future development	Complete	Complete	Staff Time	Complete	N/A
36	Tallow Creek	Adopt FPLs as part of the DCP 2002 as the extent of flood prone land in the Tallow Creek catchment that consider climate change conditions (Scenario 4)	Complete	Complete	Staff Time	Complete	N/A
37	Tallow Creek	Adopt prescribed areas of fill exclusion.	Complete	Complete	Staff Time	Complete	N/A

38	Tallow Creek	Ensure future developments within the catchment utilise on-site stormwater detention measures to maintain pre-development peak runoff characteristics.	Complete	Complete	Staff Time	Complete - is part of BSC DCP	N/A
39	Tallow Creek	Update 149 certificates and any lots with additional controls over them, including add 1495 certificates for lots effected by PMF and not within the FPL.	Complete	Complete	Staff Time	Complete	N/A
40	Tallow Creek	Adopt new version of the hydraulic model to allow for assessment of all proposed development	Complete	Complete	Staff Time	Complete	N/A
41	Tallow Creek	Establish relationship between flood return period, sand bar levels and flooding conditions in Tallow Lake to assist in SES flood evacuation planning	Underway	BSC - IPT	\$15,000	Contract awarded.	N/A
42	Tallow Creek	Install flood gauge at Broken Head Road culvert showing example flood levels	Underway	BSC - IPT	\$500	Sign ready to be installed	N/A
43	Tallow Creek	Install lake level and rainfall monitoring station on Tallow Lake and connect to Council's flood warning system	Complete	Complete	-\$25,000	Complete	N/A
44	Tallow Creek	Raise footpath at Tallow Lake footbridge to ensure trafficable up to a lake level of 2.5m AHD.	Complete	Complete	-\$44,000	Complete	N/A
45	Tallow Creek	Develop and implement asset management and maintenance plan	Complete	Complete	-\$20,000	Complete	N/A
46	Tallow Creek	Implement interim management plan through water level and quality monitoring	Complete	Complete	-\$100,000	Complete	N/A
47	Tallow Creek	Develop data collection program for variables such as sand bar and lake stored level, to support development of long-term management plan.	Complete	Complete	Staff Time	Complete	N/A
48	Tallow Creek	Inspect the sand bar and record its level every year prior to the onset of the rainfall season	Complete	Complete	Staff Time	Complete	N/A
49	Tallow Creek	Monitor the level of the opening during the rainfall season and undertake maintenance earthworks to restore the level as per the accepted Interim Sandbar Management Strategy.	Complete	Complete	Staff Time	Complete	N/A
50	Tallow Creek	Update Council Geographic Information Systems (GIS) to include outputs of this plan and update any lots with additional controls over them.	Complete	Complete	Staff Time	Complete	N/A
51	Tallow Creek	Ensure authority uses the GIS layers to prepare property reports.	Complete	Complete	Staff Time	Complete	N/A
52	Tallow Creek	Add adopted document to Council's website, plus additional A1 pdf of FPL	Complete	Complete	Staff Time	Complete	N/A
53	Belongil Creek	Preferred Byron Drainage Strategy	Immediate	BSC - IPT	\$1,300,000	Grant awarded for design phase only	N/A
54	Belongil Creek	Development Controls	Complete	Complete	Staff Time	Complete	N/A
55	Belongil Creek	Emergency Planning (SMS Messaging)	Complete	Complete	-\$220,000	As part of flood warning network and emergency dashboard	N/A
56	Belongil Creek	Flood Information Dataset	Complete	Complete	-\$220,000	As part of flood warning network and emergency dashboard	N/A
57	Belongil Creek	Belongil Creek Entrance Strategy	Complete	Complete	-\$125,000	Complete	N/A
58	Belongil Creek	Flood Gauges	Complete	Complete	\$75,000	Ongoing	N/A
59	North Byron	Revise the Flood Planning Area based on the recommendations of the FRMS.	Complete	Complete	Staff Time	Complete	N/A
60	North Byron	Council consider updating the DCP to incorporate the recommendations detailed in the FRMS; Provide more detailed guidance on the principles of wet proofing, appropriate design and materials, with direct reference to available guidelines; include a requirement for an assessment of property level protection as part of the DCP2014 planning matrix criteria FL4; Implement the recommendations regarding appropriate fill areas in the DCP2014	Partially complete	BSC - SEE / IPT	Staff Time	To be discussed with SEE	
61	North Byron	Byron Shire Council compliance team investigate illegal builds south of North Heads Road.	Ongoing	BSC - SEE	Staff Time	To be discussed with SEE	
62	Tallow Creek	Implementation of design measures and evacuation plans to minimise impacts on future planned community uses as identified in the DCP No. 9	Medium	BSC - SEE	Staff Time	To be discussed with SEE	
63	Tallow Creek	Prepare a section contribution plan for all civil works in this plan.	Complete	Complete	-\$20,000	Wasn't supported or adopted by previous Council	
	Tallow Creek	Support SES in inclusion of Suffolk Park in Flood Response Plan	Complete	SES (tech intel from BSC)	Staff Time	To be discussed with SES	
Total Program Value					\$27,218,900		