

DATE 10 August 2012
 AUTHOR Mark Hooker
 SUBJECT **Waikanae FMP – Actions List 2012/13 version - DRAFT**
 FILE NUMBER WGN DOCS # 1066769-v1

No.	Action	Action by	2012/13	2013/14	2014-
1	Identify a person within GW FP who will “own” the FMP overall and be responsible for coordinating and reporting on the actions on this list	GW	✓		
2	Carry out a review of the target bed levels, with consideration of flood risk due to reduced channel capacity and the possibility of establishing different objectives for managing capacity	GW	✓		
3	River Management Review: Prepare a River Management Review report based on information already collected during the FMP review, the target bed levels information and the Sediment Transport Study outcomes. Review to address: <ul style="list-style-type: none"> • Success of capital works • Appropriateness of design alignment • Bed level objectives and methods • Changes in river management techniques over time • Trigger levels for mouth cutting, including the possibility of GW taking a more active approach to mouth cuts 	GW	✓		

No.	Action	Action by	2012/13	2013/14	2014-
4	If appropriate, following the Sediment Transport Study and the bed levels investigation, apply for a resource consent to extract gravel from the lower reaches of the river	GW	✓		
5	As part of the Regional Plan review, consider objectives and policies preventing the rebuilding of buildings severely damaged by natural disasters such as floods	GW	✓		
6	Provide a submission to the Mackays to Peka Peka expressway Board of Inquiry	GW	✓		

No.	Action	Action by	2012/13	2013/14	2014-
7	<p>Liaise with KCDC on the following planning matters:</p> <ul style="list-style-type: none"> • 1 in 50 year building level in existing lots vs 1 in 100 year building level for new lots • Encourage buildings to be constructed above residual flood levels • Planning measures for existing buildings in flood risk areas • Encourage changes during KCDC district plan review that are consistent with Proposed RPS policies 28, 50 and 51 • Inclusion of middle and upper catchment protection as a primary objective in the proposed Open Space Strategy • Considering ways of strengthening the provisions of the District Plan to protect the upper catchment • Planning restrictions on new buildings in commercial, rural or industrial areas that lie in overflow paths • Recreational/amenity objectives in the river corridor and division of funding/reponsibilities <p>Define and agree responsibilities for inspection and maintenance of stormwater outlets to the river, especially behind Kauri Road</p>	GW/ KCDC	✓		

No.	Action	Action by	2012/13	2013/14	2014-
8	Update hydraulic modelling including: <ul style="list-style-type: none"> • 2D modelling of the floodplain • Flood mapping work funded by CDEM grant • Incorporating climate change • Inclusion of KCDC Waimeha/Ngarara model • Providing flood levels at existing structures • Investigating possible overflows identified during previous modelling • Updated flood mapping • Confirm and define overflow paths for a range of events including the effects of existing vegetation and obstructions • Combine GW river model and KCDC stormwater models (possibly not part of the 2012/13 work) 	GW	✓		
9	Survey Chillingworth and Otaihanga stopbanks to confirm levels, possibly Kauri-Puriri as well	GW	✓		
10	Investigate current level of service (vs 100-year standard) being provided by all structures and by previous house/road raising in Otaihanga, after the hydraulic model update is complete	GW	✓		
11	Otaihanga flood wall: confirm current level of service and any actions required, liaise with KCDC re: local stormwater system, check stormwater stopbank levels and top up if necessary to contain water within the overflow path	GW/ KCDC	✓		
12	Revise flood damage assessment and reprioritise structural works, including need for Fieldway bridge widening and Golf Course Stopbank, after the hydraulic model update is complete	GW	✓		

No.	Action	Action by	2012/13	2013/14	2014-
13	Discuss long-term management of existing non-GW grade control weirs with NZTA and KCDC	GW/ KCDC	✓		
14	Decide whether the Woodleigh Stud/Howarth stopbank is to be adopted/maintained by GW, otherwise protected, or abandoned, and what the flood modelling response should be.	GW	✓		
15	Initiate discussions with utility companies about opportunities to rationalise services and/or provide a service crossing corridor associated with the proposed Mackays to Peka Peka expressway.	GW/ KCDC	✓		
16	<p>Hold annual meetings between the relevant KCDC and GW officers to discuss the following areas, with an intention of updating this actions list and feeding items into the LTP process</p> <ul style="list-style-type: none"> • Upcoming projects (funding and timeframes); hydraulic modelling, flood maps, hydrology and climate change; status of the District and Regional Plans • Environmental Strategy implementation and maintenance; planting plans; river corridor land acquisition; middle and upper catchment erosion protection; recreational issues and track/access development • Community awareness and preparedness; CDEM and flood warning 	<p>GW/ KCDC</p> <p>GW/ KCDC</p>	<p>✓</p> <p>✓</p>		
17	Decide procedures for monitoring and reporting the items listed in Section 7.2 of the FMP (the items have changed as a result of the FMP review)	GW	✓		
18	Add the recommended items from the Waikanae River Management Review onto this list	GW	✓		
19	Employ an Environmental Riverhand to maintain and improve the river environment (shared with the Otaki River)	GW/ KCDC	✓		

No.	Action	Action by	2012/13	2013/14	2014-
20	Consider including the river berms and stopbanks within the 5-yearly sediment analysis survey	GW		✓	
21	Make commercial arrangements for gravel extraction if necessary, once the new global consents have been finalised	GW		✓	
22	Develop a MOU with DOC for works in the Estuary Scientific Reserve if necessary, once the new global consents have been finalised	GW		✓	
23	Consider including environmental enhancement sites as assets within SAP	GW		✓	
24	Prioritise and plan for site-specific maintenance needs of key environmental enhancement sites	GW		✓	
25	Work with GW Biodiversity to identify ways that the Waikanae River and catchment can be included in their programmes	GW		✓	
26	Work with GW Land Management to provide advice and incentives to private landowners for riparian planting.	GW		✓	
27	Seek GW Biodiversity input into planting plans prepared by the Friends of the Waikanae River and GW Flood Protection, including site preparation and ongoing maintenance	GW		✓	
28	Research level of insurance cover in the community	GW/ KCDC		✓	
29	Develop a repeatable procedure for monitoring community awareness of flood hazards	GW/ KCDC		✓	
30	Improve public accessibility to flood hazard information on GW and KCDC web sites	GW/ KCDC		✓	
31	Seek opportunities to engage with Te Ati Awa and seek feedback on the FMP review and other floodplain management activities	GW		✓	

No.	Action	Action by	2012/13	2013/14	2014-
32	Consider funding an advisor/coordinator (approx \$40k pa) to assist landowners in the Waikanae River middle and upper catchment in formulating plans for planting and vegetation management.	GW/ KCDC		✓	
33	Investigate options for purchasing privately owned land within the river corridor. (including design channel and buffer zones).	GW/ KCDC		✓	
34	Discuss with KCDC opportunities for recording details in building/resource consent databases of floor levels and flooding advice given to applicants	GW/ KCDC		✓	
35	Design considerations for Jim Cooke Park stopbank that were raised during consultation (to be considered during design) <ul style="list-style-type: none"> • Concrete floodwall instead of an earth bank • Effects on transmission lines and pylons • Filling of low area adjacent to the river at west end of JCP in order to reduce flooding onto the equestrian centre on Nimmo Ave West • Effects of the Riding School on the stopbank and nearby properties 	GW		✓	
36	Update posters and other material used to educate the community about flood risk	GW/ KCDC			✓
37	Develop a policy to clarify the circumstances when GW will adopt a stopbank or structure, determining level of service, what sort of legal access/protection required etc. Also how non-GW stopbanks will be modelled and accounted for in flood hazard analysis/flood mapping	GW			✓

No.	Action	Action by	2012/13	2013/14	2014-
38	Develop a policy and procedures to regularly assess the level of service of all GW structures (vs. agreed return period event), and responsibilities for maintaining this LOS. The policy should also consider addressing non-GW assets such as the houses in Otaihanga that have been raised.	GW			✓
39	Develop a policy and procedure for region-wide assessments of flood damages at regular intervals .	GW			✓
40	Integrate existing services within the river corridor, including service penetrations and outlets through stopbanks, into GW GIS. Include who is responsible for maintenance of outlets and confirm with them.	GW/ KCDC/ network utilities			✓
41	Monitor developments in real-time flood forecasting technology and consider whether this could be applied to the Waikanae River.	GW			✓
42	Adjust rainfall/river flow alarm settings in between reviews of the Flood Procedures Manual if necessary	GW			✓
43	Follow up with GW Environmental Monitoring about current Metservice and NIWA studies to improve forecasting	GW			✓
44	<p>The next FMP review needs to incorporate any changes to the following documents (currently under review or preparation) if they have a significant effect on the matters covered by the review:</p> <ul style="list-style-type: none"> • Wellington Regional Plan • Charter of Understanding • Regional Policy Statement • Guidelines for Cultural Health Monitoring <p>This list is to be updated on an ongoing basis</p>	GW			✓