

SUBMISSIONS RECEIVED ON ŌPĀWAHO/HEATHCOTE RIVER BANK STABILISATION

November 2017

Submission ID	Name	Do you have any feedback on the proposed tree planting and landscaping?	Do you have any feedback on the proposed roading layout changes?	Do you have any general comments or feedback?
10521	Dr Ramon Pink – Canterbury District Health Board			<p>The CDHB commends the council for prioritising flood mitigation measures and notes the positive impact for the community in terms of public health gains. It is noted that the scheme will not only reduce the exposure of the community to natural hazards, but will also provide shading, with tree planting and enhance the surrounding environment. The planting scheme proposed will also limit duck faeces from entering the river thereby reducing impact on water quality. The CDHB recognises the potential positive contribution to health outcomes that this project creates by reducing flooding risk and increasing local amenity value.</p> <p>The CDHB have no comment regarding the choice of bank type options proposed.</p> <p>The CDHB supports the proposal but encourages council to ensure that all appropriate locations for stormwater detention/diversion basins in the Heathcote River area have been explored.</p>
10447	Valerie Campbell – Opāwaho Heathcote River Network	<p>River Bank Stabilisation [Ashgrove Terrace to Palatine/Eastern Terrace].</p> <p>Explanatory note.</p> <p>The OHRN is an umbrella organisation dedicated to “facilitating a collaborative network which promotes and advocates for the regeneration of the whole of the Opāwaho/Heathcote River” with a final vision of the Heathcote as “an ecologically healthy river that people take pride in, enjoy and care for.” Its members include several community groups already working along the river, scientists with special interests in the river, North Canterbury branch of the Forest and Bird protection Society and individual residents, such as myself, who has extensive experience in a variety of capacities.</p> <p>We know that for many sections of the river there are groups and individuals who know a particular section intimately and will want to make detailed comments. Our network, with its broad over-view, is however grateful for the detailed briefing those attending members received on the 15th November.</p> <p>The comments below are based on that meeting but are more generalised and apply to future remediation work further down the river as well.</p> <p>We accept that different areas along the river have a particular character and this is cherished and should be</p>	No	<p>Battering Design and the need to further enhance the habitat values of the Opawhaho/Heathcote River.</p> <p>We agree that there is a need to have a variety of treatments to ensure bank stabilisation and that battering may be needed in areas of bank where strong flows are eroding them. However there does appear to be considerable lengths of the river scheduled for battering.</p> <p>We were heartened at the meeting to learn that the “rail-track” battering illustration was expected, in reality, to be a more sinuous channel than that illustrated on page 11.</p> <p>Battering is well documented as being detrimental for eels. They require undercut banks that the present proposal indicates are not feasible in the present project? Were alternatives considered?</p> <p>We request that the idea of small pipes being inserted in the battering rock to provide habitat is adopted. The smaller eels for example need escape paths and shelter from predators such as trout. Vary the size of the pipes to allow for a wider variety of growth stages and species. The needs of larger eels in particular need to be considered. They like cool overhanging banks. To mimic their preferred habitat consider timber for some stretches and some larger pipes –or hollow logs – for incorporation in some areas of T3 battering.</p> <p>More work is needed to provide this in the re-development of this area and work further downstream.</p>

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10447 <i>contd</i>		<p>respected. The riverbank refurbishment however provides an opportunity to transition towards areas toward a long-term sustainability that may result in a less northern European garden-like effect.</p> <p>Unlike comments focussed on one part of the programme ours are designed to build the ecologically sustainable corridor that the Opawaho/Heathcote River needs to be, from its springheads to the Estuary.</p> <p>Whilst bio-diversity and the enhancement of our unique New Zealand ecology are a high priority for the network we also want the river to become a beloved feature for the whole city. This means its enjoyment and access for humans is also valued and need to be enhanced.</p> <p>We recognise that the present project has the important role of making the catchment of the river more robust and better able to cope with the potential of increased flooding events in an area weakened by the earthquakes. We applaud the CCC in its broad-spectrum approach to this challenge.</p> <p>Our group consider that overall the project is well-balanced and broadly addresses our concerns. Detailing of some of those follow.</p> <p>Tree planting</p> <p>The retention of healthy, large trees is applauded although it is difficult to assess the effect of losing 63 of the present trees without knowing the current total. We note that roughly twice as many are to be re-planted. The planting guide indicates that 18 of the 23 species of trees proposed to be planted are native trees and:</p> <p>We request that this proportion is reflected in the actual plantings.</p> <p>We applaud the intention to use locally sourced plants when possible.</p> <p>Large trees are vital to the corridor value of the river. They are also a significant aspect of shading the stream and retaining more even water temperatures, that it is vital to invertebrate and fish health within it. The loss of sixty-three large trees may well have a deleterious effect on river-health and habitat for up to a decade or more.</p>		<p>Landscaping and the use of the river.</p> <p>Clearly considerable thought lies behind the proposals for plantings and our network recognised that at the meeting. The question of access was raised at the meeting. In order to enjoy and value the river people need to be able to access it physically and visually. Access may be only a grassy verge that provides views up and down the river, but it also needs to include sites where kayaks can be launched and where you can touch the water –and see into it. It is good to be able to observe a well-planted area on one riverbank from the opposite bank. This allows the wildlife to be watched and enjoyed without disturbing them.</p> <p>We request that where banks are lower or the verge wider that using a variety of access methods way of inviting enjoyment of the river:</p> <ul style="list-style-type: none"> • A half-submerged log or a simple set of railway sleepers. • A park bench or • Picnic table is an alternate. Seats with a view of the river in Clarendon Terrace are well used, for example. <p>Some members are concerned at the damage to banks that occurs during the white-baiting season. At present vegetation is destroyed and erosion paths develop. An example of this further downriver is on Richardson Terrace just west of the old wharf. This issue needs consideration wherever inunga spawning occurs along the river.</p> <p>Walking tracks beside the river are planned. These need to be provided wherever the verge is wide enough. Cyclists will also use these [even if that is not part of the plan] so their design and signage needs to be taken that into account. If this presents a problem other routes need to be provided for cyclists.</p> <p>Speed limits on the terraces and slowing devices should be considered as part of the plan for future use and enjoyment of the riverside.</p>

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<p>10447 <i>contd</i></p>		<p>We request that where possible some healthy trees scheduled for removal be left until stage 2, allowing new tree plantings to become established in the meantime. Similarly, if some native species are not currently available their placement might wait rather than a less suitable exotic trees planted in their stead.</p> <p>These are long-term developments that should not be compromised.</p> <p>Whilst rock is a more natural option for battering the indicative drawings for the T1, 2 and 3 appear unlikely to produce vegetation overhanging the water. Yet this shading is vital for stream habitat suitable for insects, fish or eels.</p> <p>We request that the plantings modified to ensure that adequate shading does occur.</p> <p>T1, 2 and 3 designs appear to only contain Cordyline as a taller specie. This appears to be a particular issue for the Waimea Terrace section from No 25 to 47, on the true left.</p> <p>We request that they are regularly placed and clusted to avoid a very unnatural and boring stream-side.</p> <p>We realise that there are a few species that like their roots in water but the cordyline offers little shade and little cover for small birds –apart from sparrows that love to nest in them.</p> <p>We request that where there is space in the T1 and 2 sections that some mid-height -1-2 metre shrubs are planted above the riparian strip to provide visual softening of the margin and, if native fruiting shrubs, such as coprosmas, were used, they would provide forage for the native insects, small birds and even lizards.</p>		
<p>10405</p>	<p>Graham Walker</p>	<p>Plan 9</p> <p>Must you remove 4 healthy silver birch trees on the Centaurus Rd river bank opposite residence 34/36/38. Are they too close to the road or will they be root damaged during installation of the gambium wall?</p> <p>Replanting of native trees should be vigorous evergreens possibly Myrsine divaricate (Weeping Mapou), Carolyline australis (Ti Kouha), Pottosporum tenwifolium (Kohuhu), Myrsine divaricate (Weeping Mapou). Any others that are attractive & fast growing.</p> <p>Q: Will there be a unified planting programme of trees and other shrubs along the whole riverbank area - so there is a continuum of similar plants? Such cohesion has been absent up until now.</p>		<p>Q: Are you intending to DEEPEN the river profile while WIDENING the channel via bank remodelling?</p> <p>As a riverside resident of = 40 years my concern is that we get MAXIMUM WATER FLOW throughout the whole river channel profile</p> <p>NOTE: I congratulate everyone responsible for this document. It is a clear, considered statement of the situation that can be remedied</p>

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10402	Jenny Walker	All due credit to the team who have clearly put considerable time and thought into this. It appears a much more cohesive plan than the current somewhat ad hoc planting along the river.	Anything that improves life in this area can only be advantageous for residents.	While I am delighted to see such a comprehensive overview with regard to planting, dredging, bank stabilisation and possible long stop banks, I have major concerns as to the actual start dates for this. Until budgets are determined I feel, that like many who are impacted by the increased flooding issues, that life along the Heathcote will continue to be stressful everytime it rains. In addition, while 'buy out' of frequently flooded homes will certainly be a relief for some people I would like the raising of other homes to also be a consideration.
10396	Colin Brookland	I agree that more shade planting for the river is needed. I don't agree with the extent of grass cutting normally done on the banks. On the street edge is OK. A mixture of native and exotic gives some variety and gives faster establishment with faster growing trees.	Not much change by me but I would like to see as much parking restriction as possible on the river bank. Cars damage the ground cover, tree roots and bank stability.	I would like to see the river and banks left with a natural look without the use of artificial elements. If this means creating more room for the river at the cost of parking/road width then I think there will be a long term benefit for the river and the neighborhood. The natural restoration of the river and a real effort to improve the water quality should be the focus.
10375	Iris Brookland	It is good that more native planting is proposed.	I am very disappointed that such major works are being carried out on the river banks without widening the river corridor itself. Placing structures on the bank will make it highly unlikely that the sometimes very narrow corridor will be widened in the future. I would strongly support and recommend road narrowing or one-way arrangements. I think this will be a missed opportunity if not done now. If the road was narrows less engineering solutions such as gabion baskets would be required.	<p>Car parking should be generally banned from the banks. This is harmful for the vegetation, creates muddy puddles and spoils the amenity and view of the river.</p> <p>This could be done by bollard type structures or strategic planting.</p> <p>I am concerned about the bank types that show mowed grass adjacent to the road carriage way. These would entice people to use for parking.</p> <p>The bank treatment should be as natural as possible.</p>

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10336	Jacqueline de Jongh	<p>Plan 11: The road between [REDACTED] where we live, is usually one of the worst affected by floods. Our piece of street is, I think, the most filmed and photographed part of the Heathcote when in flood. We feature on most news coverages when there is a flood. Where before the earthquakes the road would flood to some extent, we would always be able to get out with a 4WD and not in the nearly 20 years we lived there did water threaten to come into front section houses or under their floor. Since the earthquakes it does. According to your staff the effect of the dredging further downstream and retention ponds further upstream will have minimal effect on reducing flooding around our area. From your proposal I understand you are doing nothing to reduce the flooding in our area. We are not seeking to eliminate flooding as that would be impossible, unsightly and/or expensive but to reduce the flooding to an acceptable level as before the earthquakes. Cutting back the bank on the southern side of the river where there is a park with only a few insignificant non-descript trees of medium height, so ample space and opportunity, would take the edge of the flooding and help us enormously. Right now the river can only overflow on one side, the north side, where houses are, because the bank on the south side, park side, is much higher than on the houses (north) side. I can see that type of cutting back of the bank is proposed further down where the flooding is less.</p>	<p>If you are considering one-laning in the future please take into account that many back sections have a very narrow driveway with fences on both sides, requiring a wide road to swing into their driveway. Even if a car can get in, the odd delivery or moving truck may not.</p>	<p>I can still remember our first Heathcote meeting, we had our newborn baby with us sleeping in the car seat. We have attended many more meetings since. That baby will move out in a not too distant future. It looks like you have done quite a bit of good solid work this time but I am disappointed about the outcome. We still get nothing done where we are.</p>
10302	Emily Tredinnick	<p>Glad to see the establishment of natives along the river corridor</p>	<p>I think it is disappointing that more roads are not being narrowed, to give space to the river and its banks. I think more could be done to increase planting between the road and the waterway and to prevent cars parking along the banks of the river and the trees.</p>	
10299	John & Bronwyn Horgan and family	<p>Five of our best trees, two Totara trees outside no. 4 Palatine Tce, the Kowhai tree outside no. 10 and the two Ash trees outside no. 20 are apparently to be removed. (Tree numbers 72695 for the 2 Totaras; 72698; 72415 & 72416) - THERE MUST BE SOME MISTAKE HERE!</p> <p>In this day and age when we can rebuild the road between Kaikoura and Picton surely we can stabilise a small river bank without removing long established trees up to 5 meters in height (I see there is no mention of such removals in the Arborist's Report dated 1/11/17).</p> <p>Quite apart from this as far as we can tell we are losing more trees between 4 and 20 Palatine Tce than any other stretch of the river (we count 19 trees to be removed on both sides of the river) and according to the report these are all to be</p>	<p>Features of the area where we live include a constant flow of pedestrians walking beside the river (we know many of them), children, dogs, bikes, swings over the river where the kids have a great deal of fun, bike tracks (beside the Cashmere Club and at the end of Ernlea Terrace) as well as children walking to and from school.</p> <p>One of our constant worries is speeding cars. There are children everywhere. Our own Grandson aged 7 lives with us as well as 2 much loved border collie dogs. Yet cars seem to use both Palatine and Eastern Terrace as a racetrack.</p> <p>The other night there was a car screaming around down Palatine Terrace at over 100 kilometres per hour.</p> <p>One mistake from one of these idiots could kill a child, an adult or</p>	<p>After years of neglect we are pleased that at last something is being done to improve the river bank.</p> <p>However one matter is of even greater concern to us and that is the unhealthy spillage of sewage into the river. There is nothing worse than seeing "Polluted River" signs dotted along the river bank. During the last flood event a "Polluted River" sign was washed up into some trees outside no. 121 Eastern Terrace above yet another 'cave in' in the riverbank.</p> <p>WHAT ARE WE COMING TO?</p> <p>My own Mother who was bought up in Sandwich Road often talked about swimming in the river at the end of the street after work.</p>

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10299 <i>contd</i>		<p>replaced on our side of the river with native trees up to 12 metres in height. 12 metres? I can't even see that high!</p> <p>WHY DO WE HAVE TO HAVE ALL NATIVE TREES?</p> <p>The picture on the front of the Council's own booklet shows the variety of colours that can be achieved using a mixture of native and specimen trees.</p> <p>Let's go crazy and plant a few PIN OAKS, LIQUID AMBERS and MAPLES between the natives.</p> <p>And please no more Cabbage Trees which spray their non recyclable leaves all over the road and into our backyards after every Sou'West storm! We don't want Lancewoods, Weeping Mapous or Horekas either which add nothing to the landscape or Pittosporums which seed everywhere, grow to a great height and are boring.</p> <p>Lets enjoy ourselves and do something colourful and attractive for a change!</p> <p>Also why not plant daffodils while we are at it, in the reserve along Centaurus Road on the other side of the shops? This would really make people take notice by providing an attractive display to brighten things up at the beginning of Spring.</p>	<p>an animal (let alone a procession of ducklings).</p> <p>As well there have also been several 'near misses' outside Palatine Reserve which children use a shortcut on their bikes to cut through to Malcolm Avenue when biking to school. Our daughter had to deal with one very upset lady driver one morning recently after a school girl rode her bike straight out onto Palatine Terrace.</p> <p>The drop off area around Beckenham School is also quite chaotic with people rushing off to work.</p> <p>We note there is to be some narrowing to be carried out along Ashgrove Terrace (Plan 4).</p> <p>Could we please have either some road narrowing to discourage these so called drivers or better still an extension of the speed bumps at the other end of Palatine Terrace as part of this project.</p> <p>This is a family area and speeding cars are matter of great concern to both ourselves and our neighbours.</p> <p>ROAD SAFETY MATTERS ARE OF PARTICULAR CONCERN!</p>	<p>LET'S GET THIS FIXED!</p> <p>It's a terrible state of affairs.</p> <p>At the end of the day there is not a great distance between the source of the river (we had a picnic there on Show Day) and Palatine Terrace so it can't be that hard to isolate the problems and get them fixed!</p> <p>PLEASE LET US KNOW WHAT'S GOING ON</p> <p>Rather than have workmen turning up in the street with all their equipment ready to go can you please let us know where the project is up to and a possible timetable. We of course are willing to discuss any of the above.</p> <p>Many thanks to both Ann Campbell and Murray Gordon for keeping us informed!</p> <p>Thank you!</p>
10287	Allan Jackson	<p>Will the gentle slopes of the T1 bank type allow for a flooded river to cut the corners of the standard river path? Especially compared to a bank wall.</p> <p>I feel there is more importance on the riffles + ecological habitat than protecting the residents along the Heathcote River</p> <p>Where possible I would rather see landscaped low step banks backed up with well maintained drainage system</p>	<p>Make as many road changes as you need especially if the result helps to keep river waters out or people's houses. People adapt to road redirection especially after many years of experiencing the roading repairs post earthquake. It is much harder to adapt to constant worry and anxiety every time it rains</p>	<p>Plan 5 & 7 mention that "no assets are currently at risk". [REDACTED] The street has been under water numerous times.</p> <p>Plans 5, 6 & 7 that all involve Hunter Tce do not include any future Stage 2 plans. As Hunter Tce is a closed road, there is plenty of opportunity for low stop banks, especially opposite the Library car park (where a flooded river cuts the corner), the works storage area, BMX track and Cashmere Club (currently a car park occupied by Freedom Campers).</p> <p>There doesn't appear to be any plans for work closest to the residential properties of Hunter Tce?</p>
10244	Mike Thorley	<p>The proposed tree planting is generally good although I note in several places the replacement of trees is not consistent with the Mid-Heathcote Linear Park Masterplan, particularly near the South Library (Plans 5-6).</p>	<p>Formed footpaths and bollards as per the masterplan would also assist in stabilising the banks as the proposed bollard treatment will prevent vehicles from parking on the banks, and causing instability, and keep pedestrians from roaming over the banks and across unformed tracks. Roads should be narrowed and traffic slowed where possible.</p>	<p>It would be great to see this project include as much of the Masterplan as possible, particularly implementing the detailed design plan for the area surrounding the South Library. The floodway, jetty's and bridge should be allowed for in the design of the banks and where possible, funding streams for the</p>

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10244 <i>contd</i>		The Masterplan also allowed for groups of large specimen trees such a Kaihekatea on both sides of the river and the bank stabilisation project should do more to incorporate these elements.		<p>Masterplan included as part of the bank stabilisation works/contract.</p> <p>There also appears to be large gaps in the bank treatment, such as between plans 7 and 8. There is plenty of bank instability along this stretch of river which should be addressed. The Council should adequately fund all of the areas which need attention, such as at the western end of Martin Ave and downstream of the Malcom Ave Bridge. Future Stage 2 works should also be completed as part of the current phase to minimise disruption and maximise the opportunity of having contractors and designers actively working in the area.</p> <p>The project contractor should also be allowed access to the pipeyards and BMX site for temporary work laydown areas etc and then include remedial works such as the improvement of the pump/bmx track for the community benefit. The pipeyards should be opened to the public once the bank stabilisation project is completed as per the Masterplan.</p> <p>Very supportive of this project and any others which improve the Heathcote River environment and surrounding amenity.</p>

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10030	Michael Ball	<p>Plans 1-5: This section of the Heathcote River is noted for its magnificent Lombardy Poplars & Sequoia. Hopefully these can be included in the list of exotic trees to be planted. Two poplars blew down in the 1999 October storm and are sadly missed. Ironically because the roots were waterlogged due to poor protection from the swollen river. Damage to the riverbank and trees by cars (& trucks) is a problem all along Ashgrove Tce particularly near Cashmere High School and between Barrington St. and 265 Ashgrove Tce. Here wooden bollards with joining cables were tried years ago to keep the vehicles off but were torn down presumably. Unfortunately the CCC did not replace them and seems reluctant to enforce its by-laws here. Otherwise I am Ok with the plans</p>	<p>Plan 1-5: The road narrowing does not go far enough. Ashgrove Tce has suffered from chronic asphalt spread over the years particularly near Young St. This has narrowed the river bank. The road surface needs to be cut back to give more room for planting and hopefully a proper path (crusher dust would do) as this area is very popular with walkers. Also Ashgrove Tce is a designated cycle route because of the schools in the area. If it is to be narrowed and made more cycle friendly (with replacement of the present terrible road surface) for safety reasons a 30kph speed limit along its length should apply.</p>	<p>Plan 1-5: During the last flood the Heathcote River flooded Ashgrove Tce upstream from Smarts Bridge near where the Cashmere Stream joins the Heathcote but this area is not in your plan. In my opinion the Cashmere Stream is the source of most of the silt that comes down the Heathcote and it has been like that for nearly 40 years or whenever Westmoreland was first started but nothing seems to have been done to improve things. Work here needs to be done as well. Flooding also took place in Ashgrove Tce and Earnlea Tce near Colombo St. and the major reason for that is the bridge which is too narrow. It was built at a time when the river flows were much lower but now it acts as a choke point. Anybody who has stood on the bridge when the river is in flood could see that. The water just back up behind it. There is no point in spending vast sums of money in dealing with other narrow parts of the river unless this is addressed. The bridge is well beyond it's used by date anyway and needs to be replaced. It is a menace to all traffic that goes over it particularly cyclists and pedestrians. I have lived within sight of the Heathcote since 1971 so I have a fair idea of the problems many of which are self inflicted. The amount of storm water going into the Heathcote below the Cashmere Stream would at a guess be double what it was 30 even 20 years ago with the explosion of hard surfaces downstream with nothing done to mitigate the runoff. The CCC has been most negligent in this area as the expertise of the Drainage Board has been frittered away.</p>
10024	John Madgwick	<p>I am encouraged to see that 18 of the 23 species of trees proposed to be planted are native trees. I hope that at least 80% of the actual specimens that are planted are native.</p>	<p>I am encouraged to see that the only proposed roading change is the narrowing of Ashgrove Tce.</p>	<p>I think it is important that access points are added to the river to increase the connection of people to the river. The easier it is for people to interact with the river the greater appreciation they will have with the river. There are only two jetties currently on the river between Princess Margaret Hospital and Beckenham School, one near Thorrington School on the donkey track and one behind the Brickworks pub on Centaurus Rd.</p> <p>These are both fine access points to the river but I would like to see more. The added access points do not need to be elaborate jetties, a set of timber steps like the ones by the footbridge in Opawa at the end of Garlands Rd (the number of steps would be determined by the height of the riverbank) would be fine. The timber steps in Opawa run beside the river for nearly 15 metres, I think shorter ones, say using recycled railway sleepers (which I believe are 2.1 metres long) would be excellent. These timber steps down to the water's edge could also help to break what might be in some instances long lines of rock edges. These access points should be added near where there is already easy</p>

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10024 <i>contd</i>				<p>access close to the river (such as foot bridges) and to areas near where people first contact the river when walking to the river from adjacent roads (such as the ends of Corson, Martin and Malcolm Avenues).</p> <p>In the area of Plan 1, 77-85 Ashgrove Tce, One or more of the areas marked as "Proposed lower canopy planting on either side of either end of the existing footbridge" should be replaced with access points. The access points should be adjacent to the existing seating on each side of the river.</p> <p>In the area of Plan 2, 167-191 Ashgrove Tce, There should be one or more access points on either side of either end of the existing footbridge opposite 185 Ashgrove Tce. Also, there should be an access point opposite the entrance to Cashmere High School between 167 and 175 Ashgrove Tce.</p> <p>In the area of Plan 3, 193 Ashgrove Tce to Barrington St, There should be an access point opposite 211 Ashgrove Tce where the riverbank is wider. On the Cashmere Rd side of the river the access point should be as close to the existing picnic table as possible.</p> <p>In the area of Plan 4, 327 Ashgrove Tce to Colombo St, There should be an access point opposite 339 Ashgrove Tce where the riverbank is wider.</p> <p>In the area of Plan 6, 25-31 Waimea Tce, There should be an access point opposite what is the back of 28 Fisher Ave (between 25 and 37 Waimea Tce). There should be a second access point on the Hunter Tce side of the river opposite what would be 39 Waimea Tce.</p> <p>In the area of Plan 7, Tuscany Pl to 79 Waimea Tce, There should be an access point at each end of the footbridge.</p> <p>In the area of Plan 8, Sloan Tce and Centaurus Rd, There should be an access point at the upstream end of the works on Sloan Tce.</p> <p>In the area of Plan 10, 48-60 Centaurus Rd, There should be a timber walkway (constructed in the same manner as the timber steps by the footbridge in Opawa at the end of Garlands Rd) at riverbank level running right under the road bridge (similar to the concrete one which runs beside the Heathcote River under State Highway 74, Tunnel Rd) so that pedestrians walking along Centaurus Rd can walk under the bridge rather than crossing</p>

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10024 <i>contd</i>				<p>the road at the bridge.</p> <p>In the area of Plan 11, 60-84 Centaurus Rd, There should be an access point at the downstream end of the works on Centaurus Rd.</p> <p>In the area of Plan 12, 65 Centaurus Rd to Palatine Tce, There should be an access point on the Eastern Tce side of the river near the existing seat opposite 83 Eastern Tce.</p> <p>In the area of Plan 13, There should be an access point on the Eastern Tce side of the river at the end of Corson Ave and there should be one or more access points on either side of either end of the existing footbridge at the end of Malcolm Ave.</p> <p>In the area of Plan 14, There should be an access point on the Eastern Tce side of the river at the end of Martin Ave.</p> <p>In the area of Plan 15, There should be an access point on the Eastern Tce side of the river at the end of Sandwich Rd.</p>
10020	David Barwick	<p>I have concerns on a small number of tree species on the "Specimen Tree List"</p> <p>-Prumnopitys ferruginea is not a suitable choice as a lawn specimen, as it is extremely slow growing and needs plenty of shelter and deep soils -substitute with Black/Mountain Beech which is faster growing and more tolerant of exposure and fluctuating water levels.</p> <p>Populus nigra 'Italica' is very prone to suckering after disturbance -substitute with Quercus robur 'Fastigata' or Carpinus 'Fastigata' as a non suckering, windfirm alternative.</p> <p>Alnus rubra is very fast growing and subsequently brittle and shortlived - substitute with Acer rubrum cvs. and Gingko biloba which can handle flooding and compacted soils.</p> <p>Substitute the Red Beech (Fucospora fusca) with Black/Mountain Beech, which can handle the exposure and periodic flooding.</p>		

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10002	Robert Braun	<p>General feedback on landscaping:</p> <p>Tracks and paths: any thought give to tracks or paths through the different bank treatments, along the lines of anything from early Clark reserve to more informal narrow tracks? not much point of all this if its hard to get amongst it....</p> <p>Plan 7 Waimea Tce : I am not very happy to see the proposed removal of two nut trees (almond and sweet chestnut) from the hunter tce end of the footbridge (opposite bmx track), and do not entirely agree with their assessment of being in "poor" condition, as they have started yielding reasonable amounts of produce in recent years. Presumably this is mainly to accommodate bridge abutment treatments. I would suggest either a) leaving trees, particularly the downstream one b) moving trees c) replacement with specimen nut trees of the same type.</p> <p>Why isn't the area upstream of plan 7 ie opposite the cashmere club included in the plan? The banks are relatively low there (hunter tce side) and there is plenty of room for improvement ?</p> <p>Specimen tree list:</p> <p>I question the omission of any edible fruit tree specimens. e.g. sweet chestnut, hazlenut, almond and maybe even walnut. These kinds of low maintaince species might provide a valuable community resource and cater to the foraging community, eg around the hunter Tce library area, or Beckenham ponds area</p> <p>Seems to be a reasonable balance between native and exotic species. Some of these areas in the linear park may be suitable for really large/impressive/grand specimen trees not suitable elsewhere due to space constraints. Presumably the native species are locally sourced?</p>	<p>no but some re-sealing of ashgrove tce would be welcomed ! its like a riverbed....</p>	<p>in general I SUPPORT the plan and commend efforts to improve the banks, plant more trees and bring back a bit more nature to the riverscape. As a local and frequent user of the loop(s) the areas between the road and streams are sort of no-go, ie nice to look at but not really any interaction beyond that, and so this initiative is welcomed. I would support the installation of some "close to the river" informal tracks where possible. In general I am against removal of established trees in a neighbourhood, even if not high scoring, so am encouraged by comments in the plan that seem to emphasise minimising this. Still, whether to remove or not often comes down to the detail so I would urge the planners to make strong efforts to retain existing trees. A few concerns / comments are mentioned above.</p> <p>Ongoing maintenance: is there any provision for ongoing maintaince of these new areas, as we dont want weed jungles developing such as around the bowenvale drain outlet., ie plan 8 and 9 true left. How about an "adopt a riverbank" initiative at either an individual homeowner or community group (e.g. schools) level for maintenance.</p> <p>Fruit or nut trees: low maintenance fruit or nut trees encourage where appropriate for educational and communtly reasons</p>

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10002 <i>contd</i>		<p>Notable omission is silver birch, and i DO NOT support the premature removal of silver birch due to supposed allergen reasons in this setting.</p> <p>I SUPPORT the removal of the row of Tree of Heaven (Ailanthus altissima) along eastern terrace, as this invasive species is spreading / suckering (?) along the riverbank. Suggest that works include removing juvenile trees dotted along the riverbank.</p>		
9978	Lindon Boyce	Leave it as it is, the change is not urgent or required at this time		<p>This is a DRAIN, blocking it up even more does not and will not work!</p> <p>JUST CLEAN OUT ALL THE CRAP YOU IDIOTS!</p>
9596	Sam Beaumont	<p>I strongly disapprove with planting of cabbage trees at waters edges these defeat the whole purpose of easing restrictions on banks & improving waterways (they do not lie flat in floods & can be multi stemmed as bad or worse than other trees).</p> <p>I like the idea of trees closer to road with vegetation under them being the barrier between road & pedestrians (better than wooden man made ones)</p> <p>Most of the plantings I have seen so far seem to be very bushy & seem to be restrictive as the bank, ie the flax & tussock grass can grow quite big & negate the positives of bank reductions.</p> <p>The stones that were placed at the base of the rocks (by 48 Riverlaw Tce) seem to have migrated downstream to form a new shingle bar/rapid so I hope the new improvements will be a lot better.</p> <p>Note continuing up stream I have found more Shingle rapids forming than I remember as a boy (noting too that they are more noticeable after weeding)</p>	Speed humps are an extra restriction in floods! I still like to be able to drive around the river & we have many who park & have lunch or a break/relax in or by their cars enjoying the river I think this is good but Roads shouldn't be main througherfair. (Centaurus the exception?)	<p>As an advocate for making the river more of a linear parkway I would strongly oppose having walkway/path up by the road, this is where more plantings should be, the path should be down at water edge away from cars , close to river were most people want to walk & hang out etc.</p> <p>This would give a lot better flood path/waterway & a good sealed path would hold the edge rocks in better I think. Some of existing rocks just layed in place have already fallen into river bed causing restrictions.</p> <p>I didn't see mention of easing rapids (mainly down stream of Bridges) these could make a similar improvement?</p> <p>Will try to put my thoughts on bank profile in picture</p>
9355	Manaia Cunningham	Go for it. More trees the better.	no	

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9258	Anji Thompson	I don't know where to go for this comment.... But Heathcote river by Ferry Road, Settlers Cres end is filled with rubbish all along its river bank. I walk around these tracks all the time and it is really bad. All this rubbish/plastic will get washed out to sea and at present there is so much write up of rubbish in our sea. How or who or what can be done about it. You would need a big team to help clean this area up as there is so much rubbish and its a big area to cover and its very close to the mouth of the sea		
9215	Warren Lewis	Tree planting and landscaping should be minimalised in the flood flow channel. The flood channel should be restricted to grass, and trees and other planting carried out above the flood flow channel. In all of the treatment diagrams the trees and landscaping need to be moved further back.	<p>1. I presume the road narrowing at Ashgrove Terrace is to allow for river widening. Great idea.</p> <p>2. Closing Hunter Terrace to allow realignment of the river is good. However if the river is widened by 50%, there will be an increase of 60% in flood flow. Hence, please widen the river where ever possible.</p>	<p>1. Waimea Terrace, Hunter Terrace, Eastern Terrace, Palentine Terrace and Sloan Terrace should all be narrowed to only be parking or passing bays one side and one way traffic on the other so as to provide room to widen the river.</p> <p>2. The Colombo Street bridge is old and restricts the waterway severely during floods. This bridge needs to be replaced while straightening and widening the river.</p> <p>3. The severe constrictions on the river just upstream of the Barrington Street bridge needs to be removed by widening the river and removing the trees and landscaping from the flood waterway. If the channel was straightened and widened on the other side from where E1 is proposed, there would be no need for the E1 treatment. The river is only eating into the south bank because of the restrictions to the channel between the proposed E1 treatment and the Barrington Bridge. Remove that restriction, straighten the river, widen it, and you could use bank T1 treatment.</p> <p>4. Bank treatment (stabilisation) is only required due to the river naturally trying to widen its channel to cope with the increased flood flows that the growth of the City has imposed on it. If the river could be widened to its natural required width for minimal erosion there would be no need for rock protection, gabions, etc. Keeping the river as natural as possible should be a prime aim for the management of the river. I presume the Council Engineers have determined the low erosion width required for the river along each reach of the river. Widening of the river to the low erosion width should always be the aim of any river channel work. I appreciate that there are areas such as 32 to 46 Centaurus Road where quite unnatural solutions to flood flows need to be used. However even along here there would be benefit in narrowing Waimea Terrace and widening the river.</p> <p>5. I appreciate the Council's use of retention basins to stop the increase in flood flows due to future development of</p>

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9215 <i>contd</i>				<p>Christchurch. However I believe the City Council is now relying too heavily on retention basins. Retention basins work well with design storms. However they don't work well with extreme storms of high duration or where there are design storms soon after a period of saturating rains. In these cases flooding could be extreme as all the retention basins become ineffective.</p> <p>Another problem with retention basins is that they are difficult to get right with modelling. In most cases in Christchurch so far they have performed different to how they were designed.</p> <p>A further problem with retention basins is that they can be operated incorrectly. A good example was how the retention dam on the Brisbane River was operated before the last big flood of Brisbane.</p> <p>6. Having a heavy reliance on retention basins means that the flood flows are stretched out over days rather than hours. This causes several times as much erosion or more demand by the river for a wider flood channel.</p> <p>7. There needs to be a policy that the flood channel of the river must be grass only. New landscaping and trees planting should only be carried out on higher land. All existing flax, toe toe's, and other minor landscaping should be removed if it is in the flood channel. All existing trees in the river flood channel should only be replaced above the flood channel when they die.</p> <p>8. In places it appears that the river flood channel may be going to be narrowed. If that is correct, I believe more design work is required to ensure the river flood channel is widened, not narrowed.</p> <p>9. Using rocks as a protective edge to the bank is not in sympathy with the natural river as I know it. The Heathcote is a mud river with all the flora and fauna that goes with a mud river. Adding rocks, shingle or stone is going to make quite a change to the ecology of the river. This could not only have a detrimental effect to the ecology of the river, but also to the streams and creeks that feed into the Heathcote River. These side streams and creeks are much more natural now than the river. The present proposal appears to be widening the ecological gap.</p> <p>10. The "Have your say on Opawaho/Heathcote River Bank Stabilisation - Stage 1" is quite comprehensive in its treatment</p>

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9215 <i>contd</i>				<p>of the banks, trees, and landscaping. There is some explanation of road changes. However there is no exploration of the benefits that will accrue due to the reduction in flooding along the Heathcote River other than the fact that this update is under the title "Land Drainage Recovery Programme - Reducing the risk of flooding throughout Christchurch City."</p> <p>It would be helpful to those affected by flooding to have information on how much effect the proposed work will have on flood levels along the river with 10 year, 20 year and 50 year floods. Another way of quantifying the improvement would be to state by what percentage the flood flow will increase after the work, compared to before the work for the same river level.</p> <p>The present consultation document appears to offer no help to those affected by the Heathcote River floods. I'm sure it will help. However that needs to be quantified and stated purely for good Council relations with its citizens.</p>
9198	John Macdonald	Looks fantastic and should help when rain is heavy		<p>It would also be a great time to clean up SMARTS BRIDGE that crosses the river from Cashmere Rd to Ashgrove Tce. It looks like a car has nudged one of the uprights and pushed it towards the river. It's a beautiful bridge and historic - going back to SMARTS QUARRY days - and should be kept up to scratch.</p> <p>Kind regards, John.</p>
9183	Gillian Crowe	I am very pleased that this will be undertaken.	I phoned CCC recently as there was a 4 car crash outside my property. This stemmed from the fact that cars are parking on the river side and there is barely any bank there for parking. Cars are parking half on the road and with both sides full up with cars (Cashmere High School Students), there is no room for cars coming in opposite directions to get past. One school boy decided to go when there was a car coming towards him and four cars were damaged. I will be very pleased to see no parking on this part of the river, as it affects my ability to get in and out of my driveway - can be very dangerous. Good on you and I look forward to it happening as soon as possible.	I have been in my property for 41 years and the cars from Cashmere High School are ruining the banks of our beautiful river. Extra planting will be wonderful. It is such a great place to live.
9144	Michael Nixon	I think its a great idea it will improve the area.	Locals need to comment on this.	I'm not sure that this will fix the Flooding and when the Heathcote floods what will happen to all the work that is done. I'm guessing some bank stabilisation will help a small percentage of river flow. So the outcome should be one that improves flow and stops some flooding and not damage any new work that is done.

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9142	John Rice	Too much emphasis on the current cultural, recreational, ecological, landscape and heritage values when these can be reinstated over time.	In principle I think road narrowing is a good idea if it increases waterway width. Clearly resident access needs to be taken into account. However residents are likely to accept this if it means greater flood protection.	<p>I suggest this bank stabilisation is a half-hearted measure that will prove to be inadequate. Clearly the values being weighed here are the natural river environment and the need for flood protection and in my view the vegetation has won out in in the proposed solution.</p> <p>In my view this is not true consultation because there is only one solution being proposed - "bank stabilisation"</p> <p>The other option that should be proposed is bank widening - this is a flood protection measure used in the Netherlands where flooding is a major issue. Advice should be sought from there.</p> <p>With bank widening all the existing vegetation including big trees would be removed and the channel "V'ed" out and grassed to provide as much waterway width as possible commensurate with road and access requirements. The "V'ed" out channel would then be replanted at higher levels with suitable species.</p> <p>Waterway capacity is not going to significantly increased by leaving the big trees in place as they define the limit of the channel and create back eddies behind the line of trees. That is our experience in Fifield Terrace downstream of the Beckford Road Bridge.</p> <p>River bank widening should be an option provided to residents at least for the section of river between Beckford Road and the Hansen's Park Footbridges where there is huge scope for river widening by this method.</p> <p>Also it seems to me, judging from Figure 3.2 in the Jacobs report, that dredging should be extended up to at least the Beckford Road Bridge and preferably further to Ensors Road removing the significant "humps" in the bed shown in that Figure 3.2. The scale of these "humps" appears at least the same as those downstream of Hansens Park and therefore removal is justified.</p>

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9084	Peter Rivers	Strongly support retention of existing specimen trees where possible, and planting of new/additional trees. These should include larger exotics as well as natives.	<p>Not opposed to roading layout changes however even with speed humps, vehicle speed along Ashgrove Terrace south of Colombo can be very high. Accordingly, please do not remove any speed humps in this area.</p> <p>Consider narrowing section outside 327 Ashgrove Tce to a two lane without centre line and retain parking. This would have the effect of traffic calming in the same way that it does on Studholme Street.</p>	<p>Please keep in mind as the design progresses that Ashgrove between Colombo and Barrington is a natural rat run and speeds can be high. As it is not an arterial or secondary road, and is heavily used by runners, cyclists, sightseers and primary and secondary school children, traffic speeds should be kept as low as possible.</p> <p>Narrowing the intersection at Young Street would also be nice!</p>
9064	Christine Bycroft	see general comments below	<p>I support work that will create safe pathways for walking (especially with children) and running along the river. If that results in some the narrowing of the roads, that's fine.</p>	<p>I support the general approach to reducing flood risk and enhance the ecology of the river, and the exclusive use of native planting on the lower banks.</p> <p>The range of plants listed is quite restricted - see for example the many other river and stream side plants in Doc's Motukara website http://www.doc.govt.nz/our-work/motukarara-conservation-nursery/canterbury-native-plants-by-area/wetland-and-river-stream-margin-native-plants/</p> <p>Increasing the number and types of native trees used as specimen trees is also good.</p> <p>I do not support the planting of any exotic specimen trees. I would prefer a long term vision that eliminated exotic trees along most of the river bank through gradual replacement with natives. At present (with a small number of exceptional areas), exotic trees outnumber natives by at least 10 to 1. If some 'balance' is necessary then bringing the river banks back to half native, and half exotic would be a positive step. With the amount of tree planting being carried out, that balance might be achieved eventually, but not if we keep introducing more exotics.</p> <p>Why is grass given preference on gentle slopes? Some grassy areas are fine, but grass goes against the aim of restoring the ecological environment, and incurs continued mowing and maintenance costs. Sight lines and river access can be kept with low native planting and low impact pathways. How will invasive species be managed, for example elderberry trees, pampas grass, and convolvulus?</p>

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9038	Martin Wheldon	<p>Remove existing; pampas grass, poplar, willow and alder species.</p> <p>Remove poplar from proposed exotic planting plan.</p> <p>The planting plan should aim to recreate as near natural habitat as possible that is resilient to the riverside environment.</p>	<p>Increase protected walking and cycling options. These activities are currently very hazardous due to narrow roads, roads on both river banks, narrow or broken foot paths, parked vehicles, and inconsiderate driving.</p> <p>Add traffic calming fixtures.</p> <p>If necessary to allow space for widening of river channel and safe walking/cycling options consider sections of one way vehicle traffic flow.</p> <p>Protect bank side berms with bollards or other means to prevent vehicle access or parking damage.</p> <p>Consider where sports users of Beckenham Park will park vehicles as this is the cause of congestion and bank side damage.</p>	<p>What is planned to manage stormwater runoff from mature subdivisions, ie. Bowenvale/Landsdown valley, Cashmere, Beckenham, Thorrington etc.?</p> <p>These areas drain very quickly and add pollutants from roadside run off.</p>