



Appendix

Proposal documentation as used on EVO::SPACE

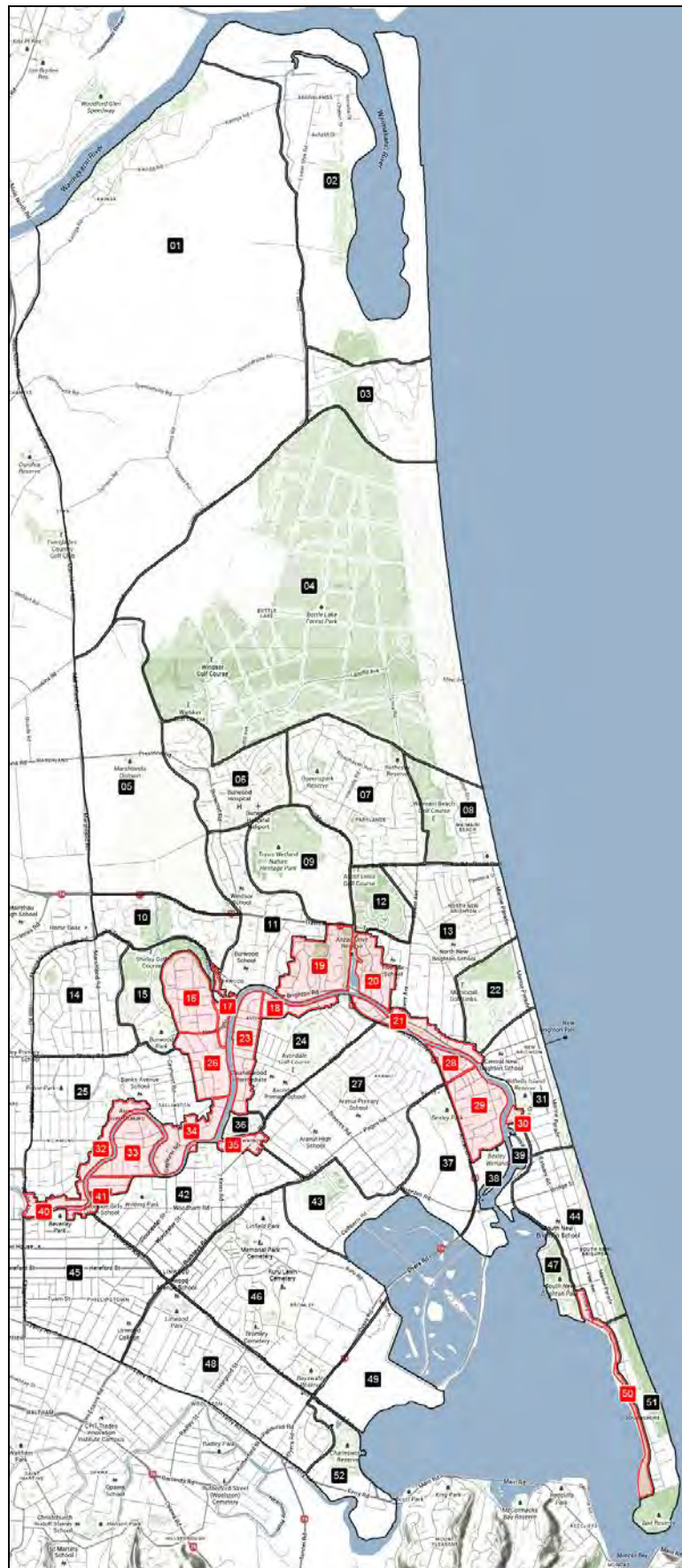
Evan Smith, Programme Manager, Eastern Vision

We acknowledge the generous support of the
Christchurch Earthquake Appeal Trust

CHRISTCHURCH EARTHQUAKE APPEAL

Tomorrow
Starts Here.

Proposals



Aquarium

Description:

- An aquarium attraction which is both an educational and tourism asset, where visitors, young and old, can learn about the local marine creatures, their importance to our economy and the threats to their survival.

Considerations:

- Proximity to sea and pier would be important.
- Aquariums are a natural seaside attraction, as can be seen with Kelly Taltons in Auckland, and many others around the world.
- Could be private venture or Council led.
- Would contribute to the revitalisation of the New Brighton economy.
- Could replace Aquarium attraction previously in the Square that was lost in the earthquakes

Proposed Location:

New Brighton, Sector 31

Category:

Natural Environment



Avon Aviation Park

Description:

- Turf runways extending 1000-1500M, with the cross wind runway extending over the Avon River via a bridge.
- Runways suitable to land ME planes (maximum size Beechcraft B1900D)
- Designed for the use of training and general aviation planes. Pilot training facilities on site, plus an Aero Club.
- Helicopter pads on site.
- Reduces air traffic congestion at Christchurch International Airport, and gives easy access to New Brighton GAA (General Aviation Area), resulting in less issues for NZCH tower in controlling entry for little aircraft.
- A second tower at Avon Aviation Park would control east side of city, but on NW days, towers would work in sync.
- Can be used as emergency/secondary airport.

Considerations:

- Too close to Christchurch International Airport creating conflicting entry patterns, particularly in nor'westers.
- Noise levels, however these are relatively quiet light aircraft.
- Bird strike. Safety of residents in approach areas.
- Unlike most proposals would not be spatially compatible with many others.

Proposed Location:

Dallington, Sectors 16, 17, 23, 26

Category:

Natural Environment



Avon- Ōtākaro River Park

Description:

- A city-to-sea ecological and recreational reserve and river park throughout the Avon River residential red zone (RZZ).
- Primarily restored natural habitat bringing wildlife back into the city and supporting the restoration of water quality and mahinga kai.
- Multi-function green space that also includes: cycleways, walkways and other recreational facilities including lakes; heritage gardens, orchards and exotic trees retained from red zoned properties; community gardens and allotments; heritage trails and sites of cultural significance; sculptures and community memorials; educational and research assets; and business, hospitality and tourism opportunities.

Considerations:

- A number of distinct natural habitats are included eg estuarine salt marsh, dunes, peat wetlands and lowland kahikatea and totara flood plains.
- Flood risk especially from sea level rise – long-term sustainability of some amenities will depend upon location and height of stop banks, etc.
- Retained vegetation in the red zone is dependent upon land clearance operations and CERA's Vegetation Retention Methodology.
- No decisions about the long-term future use of the crown-owned red zone lands can yet be made.

Proposed Location:

All of Avon River RZZ:
Sectors 16-21,23,26,28-30,32-36,40&41

Category:

Natural Environment



Avonside Amphitheatre

Description:

- A new outdoor venue for community concerts and performances.
- Set within in the proposed river park on a bend in the river in Avonside.
- The bank on the outer bend would be shaped into a stepped embankment amphitheatre for audience seating while on the opposite bank in the inside of the bend (Richmond side) would be the stage.

Considerations:

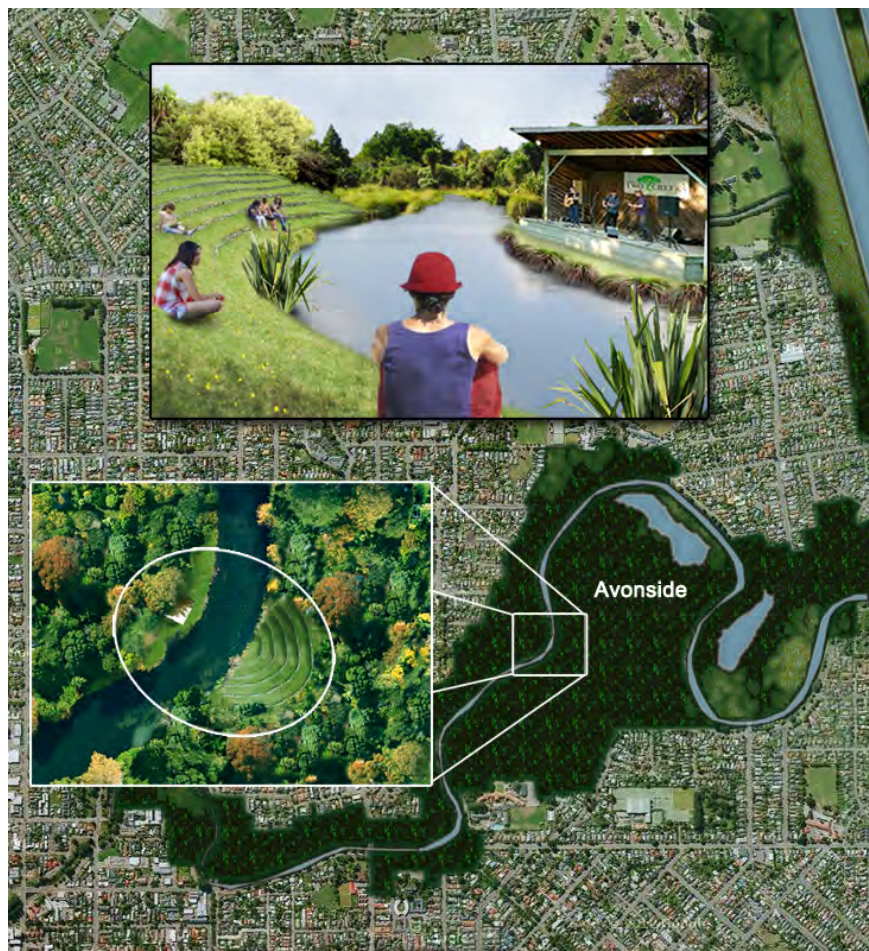
- Safety at the waters edge.
- Embankment would need to be maintained (mowed).
- 3-phase electric supply would be required for the stage area.
- Consider acoustic sound shell for non-electric sound amplification eg for theatre performances.
- Audience space would need to be easily accessible to car parking and cycle and walkways.
- Stage area would need an access road for equipment delivery, etc.

Proposed Location:

Category:

Avonside Sectors: 32,33

Arts



Barkerton Park

Description:

- A dog and dog owner training facility, including provision for research, international and national canine activities, such as conventions, seminars, policy education, competition and exemplar training and related services back to the community.
- Includes The Museum of the Dog – a celebration of all things canine including the role of the dog in the heritage of NZ : a country 'built on the back of the dog'.
- A locus and hub for dog trail activities throughout the city-to-sea river park.
- A private/public partnership.

Considerations:

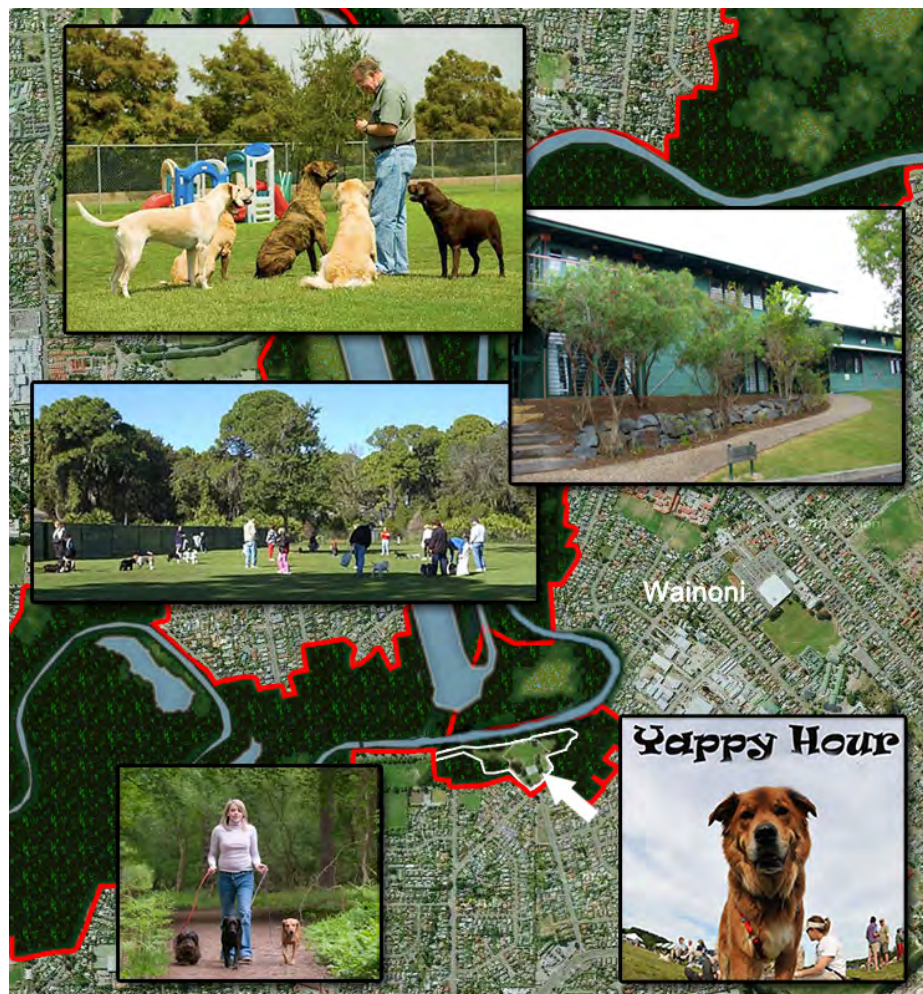
- Christchurch has twice as many dogs per household as Auckland and three times more than Wellington.
- Research has established that dogs can help improve quality of life: they can reduce stress, improve health and provide much-needed companionship. Dogs also encourage people to enjoy the outdoors, stimulate conversations between strangers and improve our feelings of safety.
- Services could include initiatives such as "DoggonSafe", a youth-targeted bite prevention program delivered through schools.
- Complements dog parks in Horseshoe Lake, Bexley Reserve, Rawhiti Domain

Proposed Location:

Wainoni: Sector 35

Category:

Community



Blue-ing the Red Zone

Description:

- Transform all of the Avon River red zone, apart from a green buffer at the margins, into a giant lake.
- Suitable for rowing course(s) of international length, sailing and other flat water sports.

Considerations:

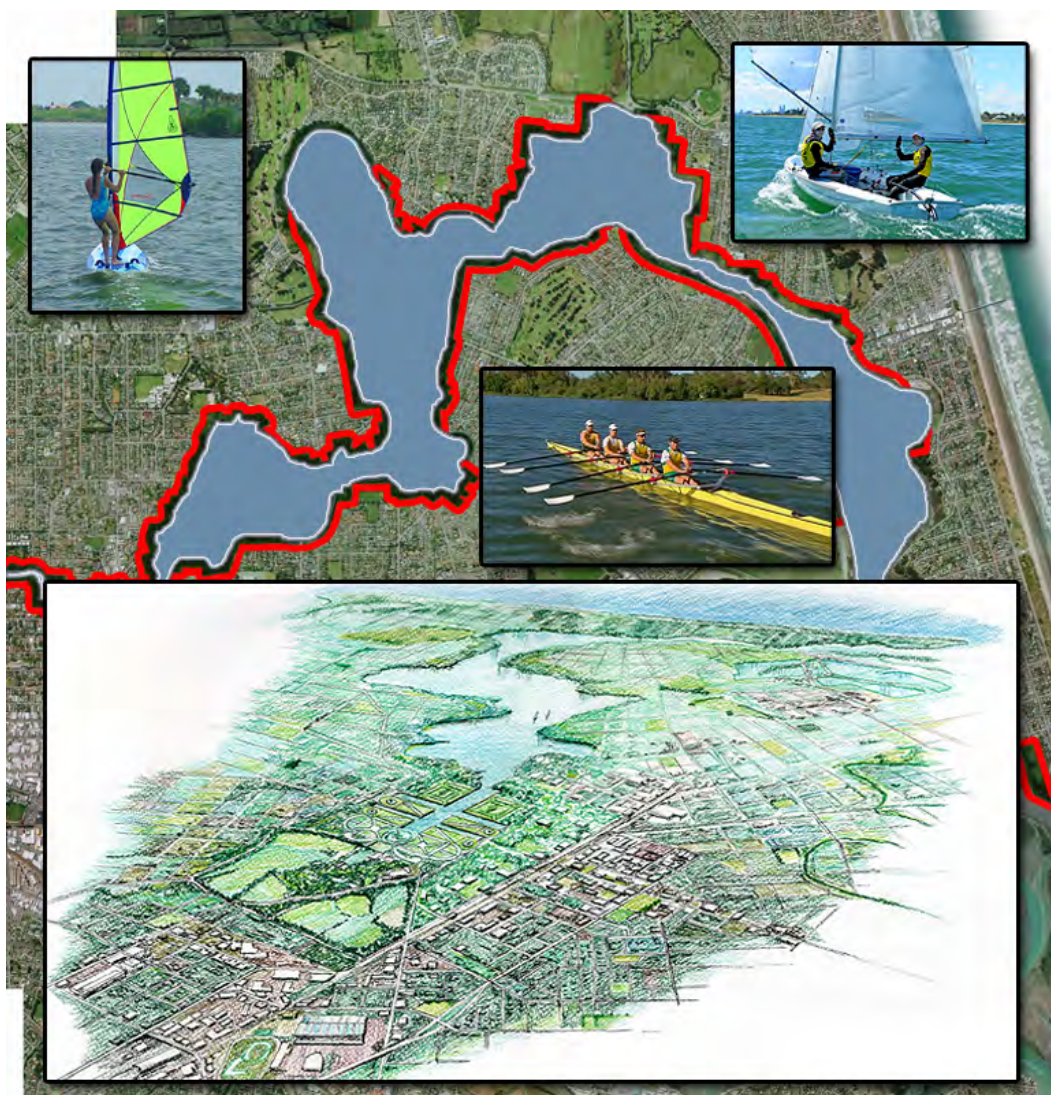
- Could increase capacity to mitigate flood waters.
- Would enhance property values in adjoining communities via proximity to amenity.
- Unlike most proposals would not be spatially compatible with many others.
- Potentially increased risk of adjoining residential areas to lateral spread.
- Multiple impacts on indigenous habitats and ecosystems.
- Reduces diversity of landscape amenity.
- Impact on hydraulics of drainage systems throughout the east.

Proposed Location:

All of the Avon River Red Zone
Sectors 16-21,23,26,28-30,32-36,40&41

Category:

Sport & Recreation



Bromley Hills

Description:

- Hills (25+m high) constructed from clean rubble, overlaid with soil and planted with indigenous vegetation.
- Situated in the paddocks between the Oxidation Ponds and Bexley Reserve on old landfill site.
- Road access to the top with car parking.
- Used as a lookout feature and as a tsunami refuge.
- Complements new Bexley Reserve proposals for dog parks, relocated BMX track, BloKart track, etc.

Considerations:

- Adequate accessible car parking.
- Allowance for drainage and existing waterways.
- Old land fill site – land stability, toxicity, etc.
- A means of creatively using demolition waste and excavated soils.

Proposed Location:

Bromley: Sector 37

Category:

Recreation



Camellia and Rhododendron Grove

Description

- A mass grove of camellias and rhododendrons along Avonside Drive between Linwood Ave and Stanmore Road.
- Transplanted from where they are scattered individually throughout the Avonside and Richmond red zone.
- Creates visual impact and colour on a busy commuter route. As they all bloom together during late winter/early spring, it adds colour to everyone's day as they travel to and from work.
- Commemorates the residents who chose and planted them, in a place that everyone can enjoy, from the roadside.

Considerations

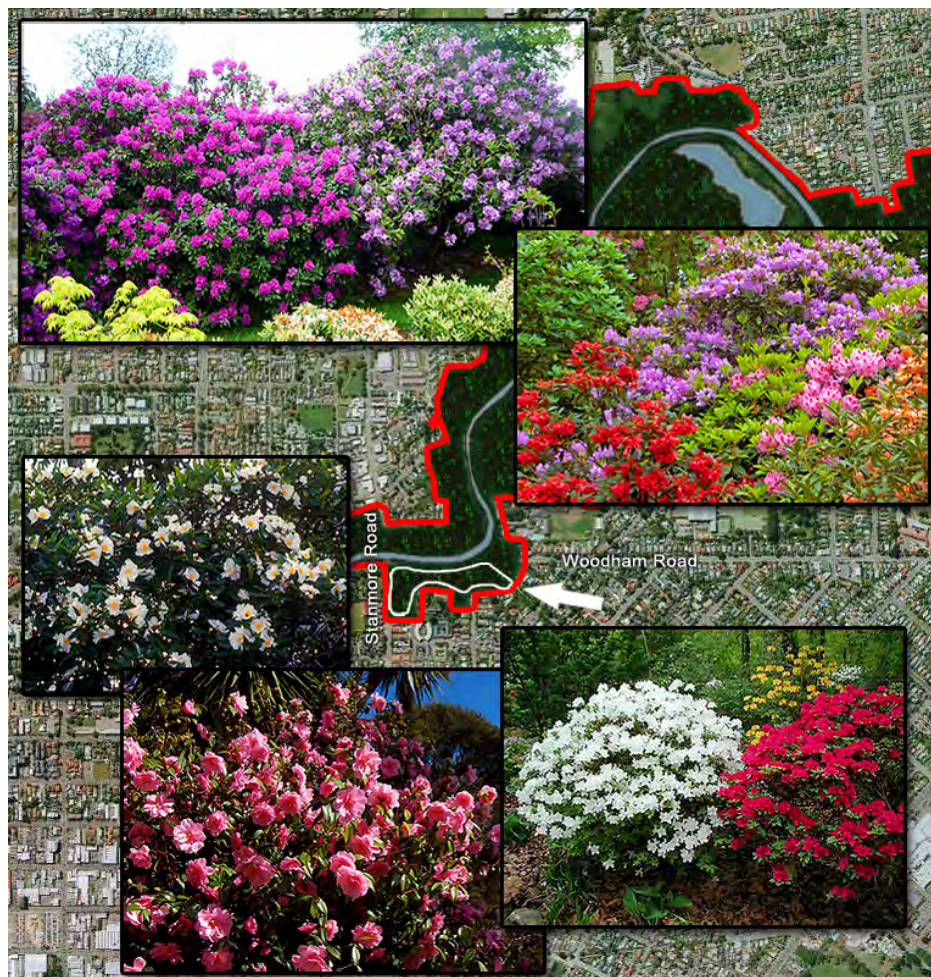
- Established camellias and rhododendrons are among the easier plants to move, and most healthy plants will survive, but there will be some losses.
- CERA needs to retain the red zone camellias and rhododendrons so they can be transplanted.
- Soil conditions need to support the transplanted plants.
- Costs of transplanting.
- Avoids any perceived conflict between keeping these plants and regeneration of native plants

Proposed Location:

Category:

Avonside: Sector 41

Community



Christchurch CablePark

Description:

- A watersport facility that enables wakeboarding and waterskiing without the need for a motor-driven boat, through the use of an overhead cable system, which tows riders at an adjustable speed over a body of water.
- The cable is driven by an environmentally friendly electric motor which runs relatively silently.
- Uses Christchurch CablePark's own innovative, New Zealand-made, Two-Tower cable system, which tows riders through common cable park obstacles, including 'kickers' and 'sliders'.
- The cable system is designed to cater to both beginners and advanced riders. Cable systems, such as the Two-Tower system, present a much flatter learning curve for beginners, as compared to the traditional 'pulled behind a boat' method.

Considerations:

- There are over 140 cable parks all over the world. Of these, over 100 are in Europe and Africa (60 in Germany alone), and many others in Asia and Australia. New Zealand has been one of the last countries to adopt this leisure activity - to date, only WaterPark NZ's proto-type system in Ashburton and another small-scale park north of Auckland, have opened.
- A number of accidents involving boats and skiers in recent years highlight the need for a safer option. CablePark systems have a good safety record and are managed by trained staff at all times during operation.
- The Christchurch CablePark will open up the sport to many who currently do not have the opportunity to ride due to lack of access to costly boats and equipment and will provide an exciting, new experience to riders of all levels.
- Currently, many experienced wakeboard and waterski enthusiasts from New Zealand travel overseas to ride cable systems for several months of the year, in order to practice their sport.
- Complementary to other water sports facilities.
- Must be on a flat water lake with good water quality without a current or very little current.

Proposed Location:

Dallington, Sector 26

Category:

Recreation



Coastal Eco-Village

Description:

- A vibrant, sustainable, medium-density eco-village development on the fringe of the New Brighton business district that reflects the unique coastal location.
- A eco-neighbourhood that seeks to raise the quality of community life while lowering environmental impact.
- Two to three storey dwellings primarily for residential use but also including some ground floor commercial use.
- Light weight, high performance buildings including wooden construction techniques.
- A significant proportion of the land dedicated to gardens and communal space.
- A community driven project that includes provision of affordable housing.

Considerations:

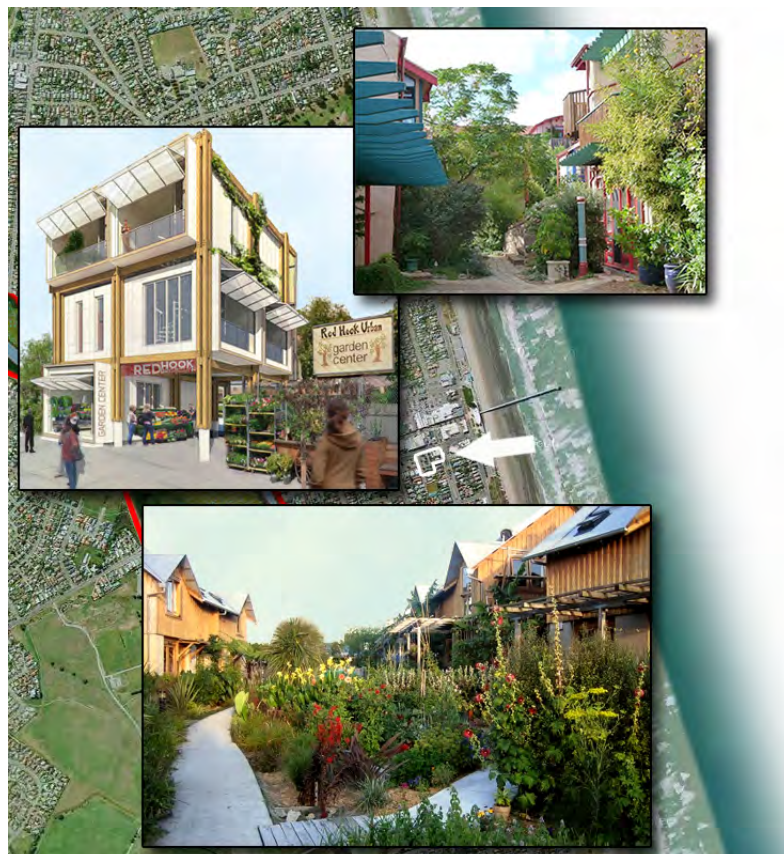
- Development must be built to cope with flood risk and sea level rise: eg 'sacrificial' ground floors, re-locatable, or possibly potentially floating foundations.
- By being part of the very centre of New Brighton alongside the business district, greater safety, support for business and vibrancy with result - New Brighton will become a 'living' village.
- A core group of like-minded people with access to adequate capital will be required to achieve this proposal.

Proposed Location:

New Brighton, Sector: 31

Category:

Community



Community College

Description:

- Year 1-13 school to provide education to children and young people in east Christchurch
- One school, one board, one principal with three management levels: primary, intermediate and secondary
- Built on the site of the current Aranui High
- To replace closure of Aranui High School, Aranui Primary School, Avondale Primary School and Wainoni Primary School
- High quality education in modern learning environments, which is forward-thinking, innovative, flexible and supports creative learning
- Designed to meet the diverse cultural needs of the community eg Language hubs that support Te Reo and Pasifika languages
- Offering a range of services that benefit the wider community including shared performing arts, health and sports facilities

Considerations:

- Possibly built and maintained under a Public Private Partnerships model
- Technologically rich including 'Sensing Campus' to support the immersion of technology, networked communities etc.
- Provision for inclusion of culturally sensitive Early Childhood Education

Proposed Location:

Aranui, Sector 27

Category:

Education



Community Food Growing Network

Description:

- A network of community gardens, allotments, orchards, forage trails, nurseries, etc throughout the east located on the fringes of the red zone near local communities and schools.
- Complementing existing community gardens and nurseries.

Considerations:

- Some ex-red zone residents, residents in new medium density homes without gardens and migrants with a tradition of food growing want access to allotments.
- Some existing fruit trees from red zone gardens can be retained.
- Many red zone soils are fertile and have been used for gardens and market gardens in the past.
- Community gardens and food production have diverse benefits including improvements in levels of food education, nutrition, mental health, community cohesiveness, knowledge about waste reduction, financial savings, community food resilience and a range of environmental and ecological health benefits.
- Aligns and integrates well with Ngai Tahu aspirations for restoration of mahinga kai..

Proposed Location:

All of the red zone,
Sectors: 15, 20, 23, 28, 32, 34,35, 41, 47

Category:

Food



Dune Boardwalk

Description:

- Boardwalk that meanders along, on, over, and around the natural contours of the coastal sand dunes from New Brighton to Northshore
- With disability and cycle access ramps as well as steps
- Provide viewing platforms and picnic areas at regular intervals

Considerations:

- Tsunami risk, sea level rise and risk of coastal erosion.
- Environmental impact
- New Brighton dunes are exceptional in their beautiful vistas and ecology, and give shape and colour to the community around them.
- Would be a key part of a coastal cycle/walkway and interconnect well with the broader network.

Proposed Location:

North New Brighton, Sectors 8, 13, 22, 31

Category:

Sport & Recreation



Eastern Cycle and Walkway Network

Description:

- A network of cycle and walk ways throughout the east based around the lower Avon corridor.
- Including the CCC Avon-Otakaro Cycleway.
- Provision for dedicated cycle commuter routes.
- Recreational cycle and walkways – paved dual-function pathways, unpaved walking tracks and rough terrain (MTB) cycle tracks with safe intersections.
- A network of cycle and walkways that provide for safe local connections to schools, shops and amenities – including provision of additional footbridges.
- Connections to the CBD and beyond in the west; Bottle Lake Forest, Brooklands, and Waimakiriri Regional Park in the north; and Coastal Pathway, Heathcote and Port Hills in the south.

Considerations:

- Meeting the maximum diversity of needs.
- Safety for diverse users.
- Strengthening community connectedness.

Proposed Location:

All Suburbs in the East: All Sectors

Category:

Recreation



Eastern Sport & Recreation Facility

Description:

- Replacement for QE2 at district level on the eastern side of the old QE2 site in North New Brighton.
- Covered swimming pools: 25m, 10 lane pool; diving pool with springboard and diving tower; programme pool with hydrotherapy area; leisure pools.
- Fun family recreation features.
- Public fitness and aerobics centre.
- Café
- Associated sports facilities for competition, training and exercise.
- Venue for hosting marathon, city-to-surf events, etc.

Considerations:

- Adequate accessible car parking.
- Well serviced by public transport from all parts of the eastern city.
- Good active transport links (ie cycling, running, walking).
- Needs to be built on sound land with room for future expansion.
- Maximises use of existing infrastructure.
- Close to schools.
- Supports local economic and environmental recovery.
- Funding allocated in CCC budget.

Proposed Location:

North New Brighton: Sector 12

Category:

Recreation



Eco-Sanctuary

Description:

- A fenced ecologically-restored enclosure that is free of introduced predators and pests, for the reintroduction and conservation of native species that have been lost from the locality, eg kiwi, weka, takahe, saddleback, robins, tomtits, tui, tuatara, geckos, fernbirds, crake, bittern, mohoua, giant weta, kakapo (eventually), etc
- Mix of wetland and lowland habitats, 150ha minimum area, 5-8km fence.

Considerations:

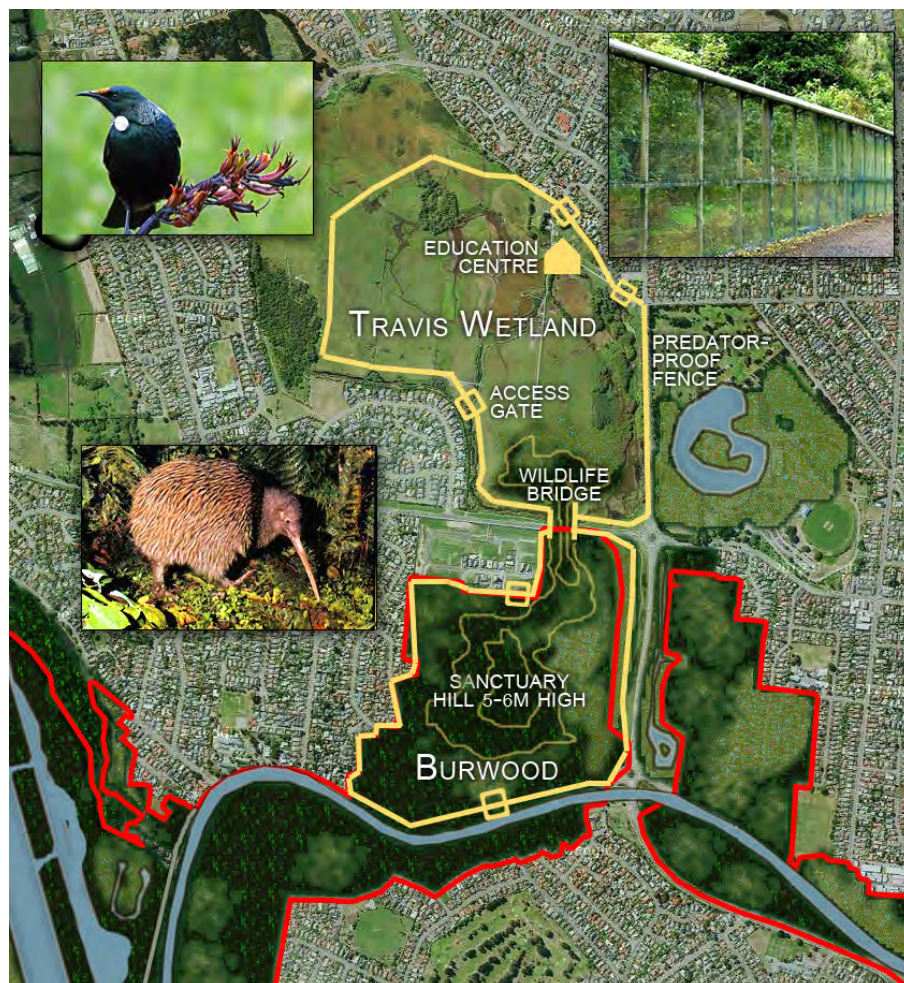
- Predator-proof fencing – 1.9m high, fine mesh with ground level skirt to prevent borrowing under and steel cap that prevents cats and possums from climbing over the top. Approx \$200,000 per kilometre.
- Fence maintenance is critical and could equate to 5% of the capital cost per annum.
- Any road passing through the sanctuary will need to have a wildlife bridge over it.
- The enclosure needs to include an appropriate area of sufficient height to provide refuge from flooding (potentially constructed from clean rubble and lake excavate).
- Access to the sanctuary would be via sets of double gates and free to public.
- An Education Centre should be part of the complex.
- Charges may apply for some services / special access areas – discounts could apply to locals.

Proposed Location:

Burwood: Sectors 09, 19

Category:

Natural Environment



Eden NZ: Mountains to the Sea - Ki Uta Ki Tai

Description:

- Iconic Community Science Facility using sculptural wow-factor buildings set in green space and native vegetation
- A Destination Tourism Project for the Recovery of Christchurch and the benefit of New Zealand partnered with The Eden Project, UK, as part of their global outreach strategy
- The key themes are Land and Water which are major priorities for New Zealand
- Its focus will be nature, culture, science, community and tourism
- Includes meeting and events spaces, education centre, multi-purpose conference/function/entertainment centre, outdoor amphitheatre, outdoor exhibition and festival site and high quality retail and hospitality.
- Located in the Avon Loop it will provide easy access to visitors staying in the central city while providing a gateway and 'compass' linking to other attractions located on Red Zone land to the East.

Considerations:

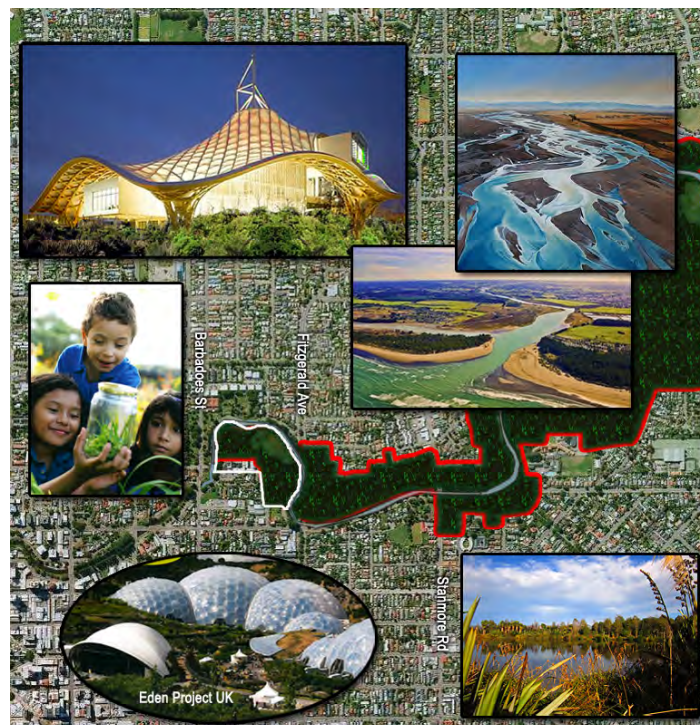
- The Eden Project in Cornwall, UK has had 13 million visitors in 11 years, employs almost 500 staff and generated £10 billion (\$20 billion) for the local economy. Voted Best UK Leisure Attraction in 2011, 2012 and 2013 it is a well established international brand.
- Iconic attractions that speak to the heart of a destination have emerged as the critical success factor in tourism management and Influence visitor decision making concerning their visit to New Zealand/Christchurch and grow visitor market by increasing length of stay, visitor spend, repeat visits.
- Robust foundation design to meet the local ground conditions.
- Flood risk mitigation.

Proposed Location:

Avon Loop, Sector 40

Category:

Natural Environment



Family Swimming Lake

Description

- A family swimming lake with beaches like the one at Pegasus.
- Could also be used for family kayaking, paddle-boarding and sailing and have a sandy shore to make sandcastles.
- Could include picnic areas, gear hire like life jackets, kayaks and bikes etc, a café or restaurant and landscape features like a waterfall and bridge.
- Could have a walking/running/biking track around the outside.

Considerations:

- Water quality would have to be good enough for primary contact.
- Could be included in a larger lake complex.
- Flood risk.
- Tourism potential.

Location:

Dallington, Sector 26

Category:

Sport & Recreation



Fitness Circuit

Description:

- 10 km, 20-station fitness circuit running along the dunes and beach from North to South New Brighton and then returning inland along the river via Bridge St Reserve, Blighs Garden, Withells Island Reserve, Rawhiti Domain and Thompson Park.
- With fitness stations ('obstacles') like those in Hagley Park scattered around the circuit.

Considerations:

- A low cost project to install and maintain which could be funded through fundraising and sponsors.
- Could be used by fitness groups such as Bootcamp and also by local surf lifesaving clubs for training and anyone else that enjoys keeping fit and active recreation.
- Environmental impact on sand dunes would need to be minimised.
- Safety using and crossing roads needs to be considered.

Proposed Location:

Category:

New Brighton: Sectors 21, 22, 30, 31, 39, 44

Sport & Recreation



Flatwater Sports Lake – 1.25km

Description:

- Flat water sports lake suitable for international competition for kayaking, dragon boating, waka ama and for training and some competition for rowing.
- Preferably straight, 1.25 km long, 250m wide, 4m deep, 1-in-7 slope along the shorelines, preferably angled into prevailing N/NE wind.
- With adjacent 'return' lake alongside that is connected to the main lake at the ends and at 1-2 points in between (this lake can be contoured).

Considerations:

- Must be off-river: must not interfere with natural flow or course of the river.
- Water quality must be good.
- Should be designed to assist in reducing the risk of flooding to surrounding communities by, for example, acting as a potential flood water retention basin - to achieve this with maximum flexibility, the connections between the main lake and the return lake should be gated to create two separate lakes.
- Water level may be lower than river, may be flanked by stop banks to protect against tidal flooding. .
- Any measures to reduce the effects of the prevailing N/NE wind eg sheltering by trees, stopbanks, etc must be used evenly across course so that no lane or sector is disadvantaged.
- New Brighton Road is re-directed around the south of the lake (on a raised stopbank).

Proposed Location:

Dallington: Sectors 16, 26

Category:

Sport & Recreation



Godwit Lodge

Description:

- Backpacker Lodge on stilts sited on the Southshore spit overlooking the estuary.
- Great views of the estuary and port hills and ideal for bird watching.
- Prime tourist accommodation for welcoming and farewelling the godwits.
- Complemented by a new sculpture commemorating the migration of the godwits further down the spit.

Considerations:

- Considerable tourism potential.
- Must be able to sustain large variations in estuary levels including tides, storm surges and sea level rise.

Proposed Location:

Southshore, Sector: 50

Category:

Business



International Flatwater Sports Lake – 2.25km

Description:

- Flat water sports lake suitable for international competition for rowing, kayaking, dragon boating, waka ama.
- Straight, 2.25 km long, 250m wide, 4m deep, 1-in-7 slope along the shorelines, preferably angled into prevailing N/NE wind.
- With adjacent 'return' lake alongside that is connected to the main lake at the ends and at 2-3 points in between (this lake can be contoured).

Considerations:

- Must be off-river: must not interfere with natural flow or course of the river. NB: to fit in it may be necessary to return the course of the river around the Porritt Park loop and block off Kerrs Reach. Some Green zone properties may also need to be purchased.
- Water quality must be good.
- Should be designed to assist in reducing the risk of flooding to surrounding communities by, for example, acting as a potential flood water retention basin - to achieve this with maximum flexibility, the connections between the main lake and the return lake should be gated to create two separate lakes.
- Water level may be lower than river, may be flanked by stop banks to protect against tidal flooding.
- Any measures to reduce the effects of the prevailing N/NE wind eg sheltering by trees, stopbanks, etc must be used evenly across course so that no lane or sector is disadvantaged.

Proposed Location:

Dallington: Sectors 16, 25, 26, 34, 36

Category:

Sport & Recreation



Legacy Beachfront Aquatic Facility

Description:

- Redesigned and rebuilt Surf Life Saving Club nested within the dunes with covered salt water swimming pools (25m, 10 lane pool 1.4m-3.4m deep with springboard and bomb tower; and 17m, 1.2m-1.8m deep programme pool with hydrotherapy area), and other amenities.
- Leisure and hot salt water pools overlooking the beach.
- Water playground with slides, water jets and buckets. Rapid River. Bubble Pit.
- Enhanced whale pool and aquatic play space for toddlers.

Considerations:

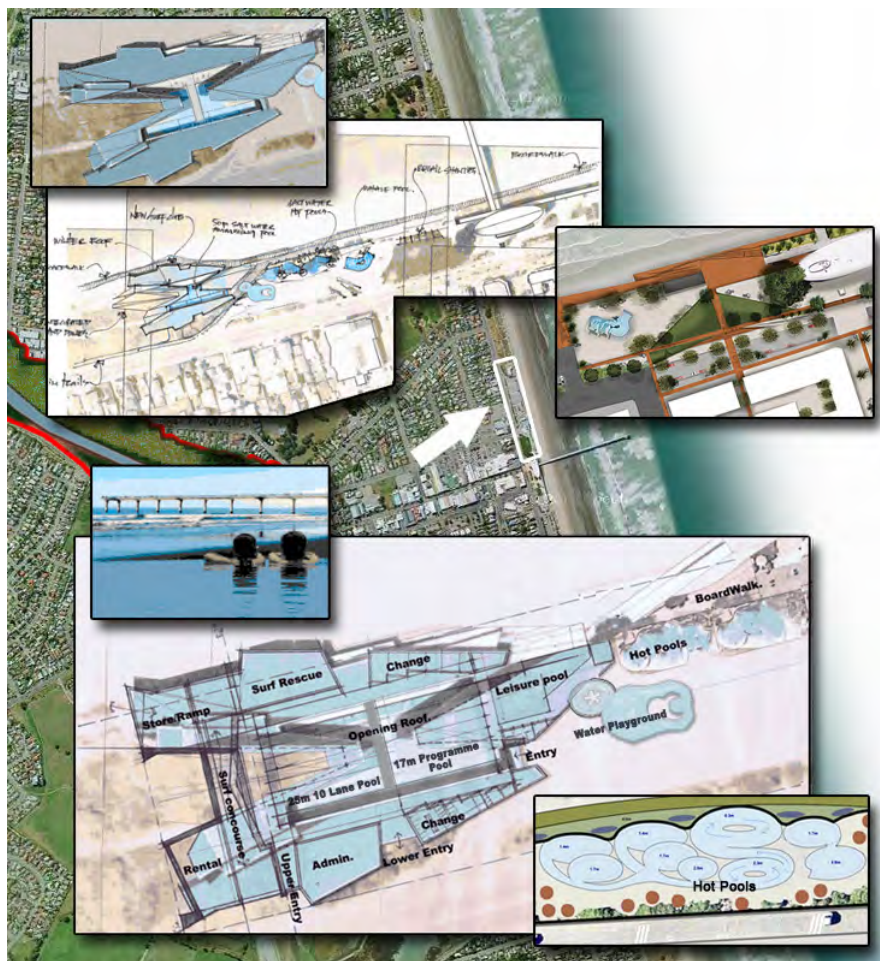
- Adequate car parking within 50m – note the raised car parks south of the library would be retained and augmented by beachfront café.
- Public event spaces would be retained to the immediate north and south of the library.
- Whale pool and aquatic play space for young children would remain free access.
- Salt water pool could be used for ocean safety education for schools and public.
- New Brighton is one of the oldest surf clubs in NZ.
- The new Murawai Surf Club in West Auckland hosts 80% of Auckland schools for beach safety with accommodation and boutique convention facilities.
- Needs to be built on sound land.

Proposed Location:

New Brighton: Sector 31

Category:

Recreation



Linwood College & Aquatic Centre

Description:

- Year 7-13 Linwood College relocated and newly built on the Ferry Road lower fields site
- Offering a range of shared facilities that benefit the wider community
- Including a new aquatic centre for the South East, modeled on the Graham Condon Centre, with 25m lane pool, spa pool, learners pool, and separate toddlers' pool with wet deck and water toys

Considerations:

- In 2014 Linwood College expanded to include Year 7 & 8 students
- The aquatic centre would be a joint venture between Ministry of Education and Christchurch City Council
- Linwood College would have precedence over pool use during school term times
- Fully accessible ramped access pools

Proposed Location:

Linwood, Sector 48

Category:

Sport & Recreation



Lower Avon Heritage Recovery Trail

Description:

- A powerful story can be told of the establishment of Christchurch by reading the Avon River's many layers of cultural, heritage and landscape features.
- The Avon River serves as both a time-line and a frame of reference for a trail of heritage sites extending from the city's original Ngai Tahu food-gathering place, now the Avon Loop, to the city's estuary.
- The sites are selected to demonstrate the development of gardens and villages, both Maori and Pakeha.
- Each site would have an information panel recording the local provenance and significance of the site.
- A heritage tourist attraction that can be marketed for both domestic use (school visits, community bus tours) and as a major commodity for in-bound tourist companies.

Considerations:

- Some of these sites will require the city's urgent commitment to restore and protect architecture relating to the gardens and their history on the sites along the Avon.
- Some of the sites are in the residential red zone and require preservation by CERA and private insurance companies.
- Bus tours along the trail in association with Ellerslie Flower Show and the Spring River Festival have proved very popular.

Proposed Location:

All of Avon River RZZ:
Sectors 16-21,23,26,28-30,32-35,40&41

Category:

Heritage



Mahinga Kai Exemplar: Harvesting Stories from Land and Water

Description:

- Restoration of natural habitat to enhance mahinga kai, inanga (whitebait) spawning, biodiversity, water quality and food growing on a council reserve between parts of the residential red zone.
- An educational resource for schools, communities and tourists including ten linked outdoor classroom story lesson areas covering mahinga kai, food growing, women's suffrage, fish, waterways, birds, trees, earthquakes, nationhood (Anzac) and wetlands. Supported by display panels.
- The first stage exemplar for greening the Avon-Otakaro corridor from city-to-sea.

Considerations:

- Road safety at crossing points and traffic noise.
- Flood risk from sea level rise.
- "Mahinga kai" is a key Ngāi Tahu value for earthquake recovery and an important aspect of the Ngāi Tahu Settlement Claim. The concept includes all the cultural practices and beliefs in relation to the environment that provide the resources for everyday life – food for the body, mind and spirit. Ngāi Tahu supports the metaphor of a plaited rope with the interweaving of exotic and indigenous species, and of Pākehā and Ngāi Tahu traditions.
- Existing indigenous vegetation, cycle/pathway, water ways and whitebait spawning areas. One area already has scenic reserve status.
- The land is owned by CCC not the Crown and there is consent to proceed.

Proposed Location:

Burwood, Sector 20

Category:

Cultural



Natural Playground Network for Children

Description:

- A network of play spaces for children using natural materials in natural environments regularly placed along the walkway networks throughout the east including the lower Avon corridor.

Considerations:

- Provides alternatives to the plastic playgrounds often used in urban settings.
- Provides outdoor entertainment and learning places for children at regular intervals in natural environments.
- Safety.
- Flooding.
- Maintenance.

Proposed Location:

All Eastern Suburbs

Sectors 13, 16, 19, 20, 22, 24, 26, 27, 28, 29, 33, 34, 37, 41, 42, 47

Category:

Sport & Recreation



New Brighton Business District Revitalisation

Description:

- A redesigned and reconfigured New Brighton Business District to promote earthquake recovery, better protect against the elements and revitalise the central village to attract investors, retailers, businesses, customers and a vibrant community.
- A more compact Business District that is focussed on the higher ground toward the waterfront – with the “halo” reconfigured as medium-density residential housing.
- Oram Ave extended to Hawke St to create a north-south retail axis to protect against the prevailing easterly wind and to partially divert traffic from Marine Parade.
- Marine Parade between Hawke St and Beresford St to be closed to vehicle traffic for weekend markets and events, at other times configured as a slow zone where pedestrians and cyclists have priority.
- The interface between the beach front and the business district improved to enhance the flow from one to the other.

Considerations:

- Plan for sea level rise and flood mitigation, avoid flood management area and design for occasional ground floor inundation within the area. Buildings on piles and re-locatable, mainly timber with some steel (avoid concrete slab).
- Limit building heights to 1-2 storeys.
- Consider options for all-weather use without compromising the excellent fair-weather location. Partial roofing, retractable canopies/sails, wind breaks etc.
- Encourage niche retail, boutique hospitality, and “Silicon Beach” community of IT businesses.

Proposed Location:

New Brighton: Sector 31

Category:

Business



New Brighton Campervan Park & Dallington Recreation Camp

Description:

- Two distinct accommodation camps meeting different needs.
- New Brighton Campervan Park located in central Brighton: a top class, secure and fully provisioned facility for kiwis & tourists to holiday in Christchurch at a reasonable cost that is particularly welcoming to camper van and motor home holidayers. Facilities to include water, power, wifi, waste disposal dump stations, rubbish bins, showers, toilets, safe lighting.
- Dallington Recreation Camp: including camping site to pitch tents, camper van sites and cabin accommodation with shared kitchen, shower and toilet facilities. May also include some self-contained family units. Suitable for school, sports and family groups who want to holiday, learn, play or train close to water recreation amenities in a natural environment in the midst of a city.

Considerations:

- New Brighton Campervan Park: Encourage tourists to visit New Brighton, support local business, have a safe place to park overnight and enjoy the beauty of the natural assets along the coast and river.
- Dallington Recreation Camp: Flood risk, land stability, road access.
- Both or either could be private commercial enterprises, public/private partnerships or social enterprises that return profits to local communities through investment in asset enhancement/community development.

Proposed Location:

New Brighton & Dallington, Sectors 26 & 31

Category:

Sport & Recreation



New Medium-Density Urban Village

Description:

- New medium-density infill village development close to an identified key activity area in an intensification zone.
- Based around the principle that everything is interconnected and accessible within a 20 minute walking distance – ie neighbourhood supports, basic shopping and business needs, schools, and amenities including green space.
- Provides a unique sense of place and belonging.

Considerations:

- Must have quality, attractive, green and innovative urban design.
- Have good active transport links and access to public transport.
- Must be located on sound land outside the Flood Management Area.
- Must be diverse in terms of people and buildings: mixed density and mixed provision with social, affordable, rental and ownership housing intermixed.
- Special priority for those vacating from flood management areas or ex-red zoners wishing to return east.
- Requires sale of Shirley Links by Christchurch Golf Club.

Proposed Location:

Shirley: Sector 15

Category:

Community



New Wetlands for Water Management

Description:

- A network of new wetlands and basins in the Avon River red zone lands
- To intercept and purify stormwater before it is discharged to the rivers or ground, and
- To detain and divert flood waters to avoid flooding of neighbouring residential areas.

Considerations:

- Wetlands are the kidneys of the city, filtering out sediments and contaminants before water is discharged to rivers or soaks into the ground.
- Wetlands and detention basins can receive large volumes of flood waters and help prevent the overloading of drainage systems during high rainfall events, storm surges, etc.
- Wetlands should be located where stormwater pipes currently run to outlets into the rivers so they can intercept the flows.
- Almost all of the Avon River Red Zone lands are located within the CCC Flood Management Area.
- Allowing land to return to wetland does not increase the existing risk of liquefaction of adjoining lands or create any new risk of liquefaction.

Proposed Location:

All of Avon River Red Zone

Category:

Water Quality



Phillipstown Community Hub

Description:

- A new Community Hub for Phillipstown neighbourhood.
- Including community centre, a large indoor facility that can accommodate multiple activities at one time, meeting rooms, playground, green space, BBQ area, community health facility, afterschool programme, community garden, office.
- Offering safe opportunities for learning, health, recreation and connecting with others to meet community aspirations.

Considerations:

- Phillipstown School will be merging with Woolston School on the Woolston site in 2015, permanently vacating the Phillipstown site.
- The existing Community Centre is on the Phillipstown site, adjacent buildings and green space on the school site could be incorporated into a new community hub.
- There is a fully equipped playground on the Phillipstown site that could be potentially relocated as part of the new hub.
- Phillipstown School has provided a community hub for the local neighbourhood for many decades – turning some of the old school into a new community hub will acknowledge the role of the site as the heart of this community, meet the needs of the community and help offset the loss of the school.

Proposed Location:

Phillipstown: Sector 45

Category:

Community



Places of Tranquillity

Description

- Six cultural gardens of beauty and peace for family and community use.
- Created in temporary demolition sites in the CBD then shifted to become part of the Avon-Otakaro corridor as permanent gardens adjacent or visible to the river and within walking distance of each other (ie 10-15 minutes' walk).
- The six gardens represent the regions of Africa, Europe and Russia, Latin America, North & West Asia, South & East Asia and the Pacific.
- This project is in partnership with the city's Maori, Pacific and culturally and linguistically diverse communities to include their traditions, cultures and spiritual beliefs. This ensures that these communities' voices and presence is more visible in the rebuild and recovery of our city.

Considerations:

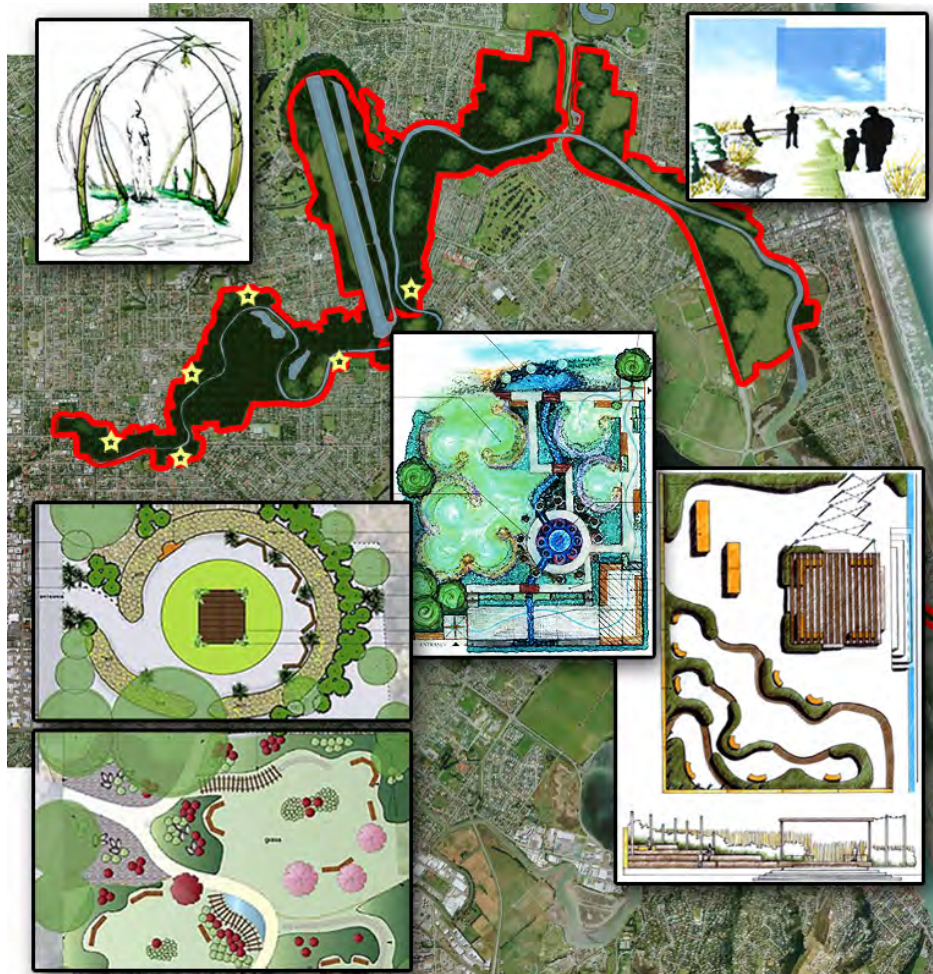
- Garden designs have already been prepared by students of Landscape Architecture at Lincoln University in consultation with relevant communities, Greening The Rubble and the CDHB.
- The first two gardens: Maori and Pacific Region and Greater South & East Asia are currently under construction at a temporary site in Manchester Street.
- Risk of flooding at permanent sites.

Location:

Avon-Otakaro River Corridor
Sectors 23, 32, 35, 40, 41

Category:

Community



Port-to-Pier Ferry

Description:

- New passenger ferry boat service between Lyttelton and New Brighton pier with ferry jetty incorporated into the end of the pier with stair and lift access to the top of the pier.
- Partner with a cycle rickshaw and bike hire service from the pier to the city centre using the new Avon-Otakaro cycleway through the river park.

Considerations:

- The ferry service would become a tourist attraction linking in with cruise ships (when they return to Lyttelton) including encounters with seals and dolphins en route
- The cycle rickshaw and bike hire service can extend the tourism asset with potential excursions via the estuary to Sumner or the bridal path, or via the proposed Avon-Otakaro cycleway through the Avon River park to the city.
- The ferry service could also potentially link to Kaiapoi, Motunau and even Kaikoura.
- Also has value for educational trips.

Proposed Location:

New Brighton, Sector 31

Category:

Transport



Rapanui Bridge

Description:

- A new suspension bridge for cars, cycles and pedestrians, across the mouth of the estuary, connecting Southshore with the western end of Peacocks Gallop.

Considerations:

- Environmental, cultural and landscape impacts.
- Land and cliff face stability.
- Potential impact of coastal erosion and sea level rise on long term feasibility.
- Enhancing connections between key coastal communities of New Brighton and Sumner.

Proposed Location:

Southshore, Sector 51

Category:

Transport



Replacement Pleasant Point Yacht Club

Description:

- A new Yacht Club facility to replace the old Pleasant Point Club House on Rat Island destroyed by the earthquakes.
- Located across the estuary (where the club was historically located) at South New Brighton Reserve to the south of the jetty.
- Includes replacement boat ramp.
- Combined with community facility and with viewing platform that can also serve as a bird-watching look-out.

Considerations:

- Requires some hard engineering estuary edge treatment in the vicinity to protect assets from coastal erosion.
- Requires provision to future-proof club house against sea level rise (eg stilts, re-locatable, and/or built on floating caissons).
- Requires basic infrastructure to service toilets and access to water and power supply.
- Funding is available from club insurance receipts and Canterbury Earthquake Appeal Trust grant.

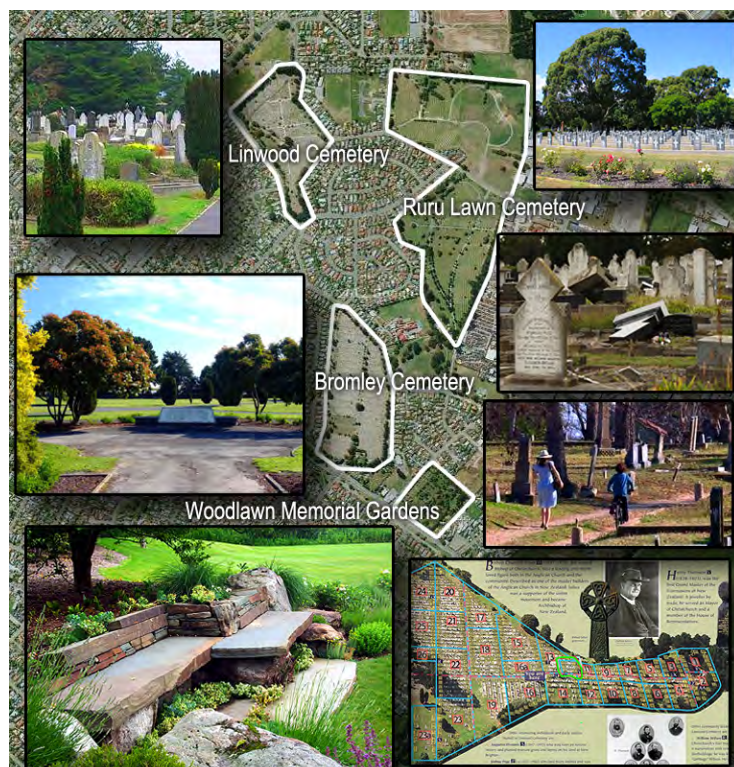
Proposed Location:

South New Brighton Sector: 47

Category:

Sports & Recreation





Riverside Cafes

Description:

- Cafes, restaurants and community gathering places along the river.
- Including permanently moored buildings on floating caissons, boatshed-like buildings on stilts and/or floating barges or replica heritage paddle steamers like the 'Avon' and 'Maid of the Avon' that used to ply the river in the 19th Century.

Considerations:

- Barges/paddle steamers would need to be low enough to navigate under bridges or restrict activities to stretches between bridges once located on the river.
- Considerable tourism potential.
- Could also provide important community meeting places.
- Must be able to sustain large variations in river levels including tides and floodwaters.
- Consider siting on a new inlet on the inner bend at Avondale – the additional feature could provide increased edge habitat for inanga (whitebait) spawning and increased amenity for a café setting that wouldn't interfere with river navigation.
- Needs to be engineered to endure lateral spread at the river edge.
- Public safety near the rivers edge needs consideration.
- Potential navigation hazard if a permanent structure on the main river channel.

Proposed Location:

Avondale, Sector: 23

Category:

Business



Riverside Heritage Garden Park

Description:

- The Riverside Heritage Garden Park area is residential red zone land bounded by Medway St, Woodchester Street, Banks Avenue and the Avon River and would be designed to:
- Preserve and highlight the cultural and historic heritage of this Riverside block and to protect specific elements of garden, horticultural and natural heritage (including 373 River Road and the Medway footbridge - currently in storage at Ferrymead Heritage Park).
- Allow part of the land to be used for community gardens and education purposes.
- Manage stormwater runoff and the flooding of Dudley Creek as part of a comprehensive stormwater management plan for the Dudley Creek catchment.
- Enhance the natural values of Dudley Creek and the Avon River adjacent to the site.
- Ensure the Riverside Heritage Garden Park is integrated with the vision for a reserve and river park as expressed in the Charter of Avon-Otakaro Network.

Considerations:

- Actively promoted by the Riverside Heritage Garden Park Incorporated Society.
- The area has a very high density of exotic and indigenous trees and shrubs.
- Preservation of heritage gardens and orchards depends upon the ongoing cooperation and support of CERA and private insurance companies.
- Concept could be extended to other residential red zone sites of high heritage, horticultural and natural value.

Proposed Location:

Richmond: Sector 32 (North)

Category:

Heritage



Shore to Shore Promenade

Description

- A hard engineered seawall and paved promenade from Southshore to Northshore 2-3 metres above Marine Parade
- Removal of sandhills and marram grass above promenade height to provide sea views to housing along Marine Parade.

Considerations:

- Continuous cycle, pedestrian and disability access along the coast
- Potentially enhanced property values of beach front housing
- Ongoing maintenance to remove natural sand build up
- Increased risk to coastal residential populations from tsunami, storm surge and/or sea level rise
- Increased exposure to easterly winds
- Environmental impact
- Resource management consenting issues

Location:

New Brighton
Sectors 8, 13, 22, 31, 44, 51

Category:

Recreation



Single-Sex Secondary School Dual Campus: AGHS & SBHS

Description:

- Two distinct newly-built single-sex secondary schools, one boys and one girls, on a large shared campus to replace Avonside Girls and Shirley Boys High Schools.
- Sited on the northern half of Shirley Golf Links.
- With many central shared amenities: eg sports facilities, performing arts centre, community health centre, café and shops, library, marae, cultural centre, community centre, graphic design and multimedia suite, specialist technical hubs, horticulture and ecosystem services school, tourism college, senior academy, careers advice service.

Considerations:

- Needs to meet the single-sex secondary education needs of the east of Christchurch.
- Location needs to retain current catchment populations but also meet the needs of new greenfield developments of the north east and intensified infill developments in Shirley and elsewhere in the east.
- Needs to be fully ITC-capable to meet modern cutting-edge education teaching methods with free wifi connectivity for whole campus.
- Must be located on sound land outside the Flood Management Area
- Needs to be linked strongly with local early childhood education, primary and intermediate schools in the region and dovetail collaboratively with Mairehau High and Aranui Community College to ensure all education needs in the east are met.
- Needs to share facilities with local communities.
- Requires sale of Shirley Links by Christchurch Golf Club.

Proposed Location:

Shirley: Sector 10

Category:

Education



Tree Top Café, Walkways & Adventure Course

Description

- Tree top walkways and café built among the mature trees in the South West corner of Cuthberts Green.
- A unique experience while enjoying vistas of Pegasus Bay, the estuary and the Port Hills.
- Complemented by a ropes adventure course and zip-line.

Considerations

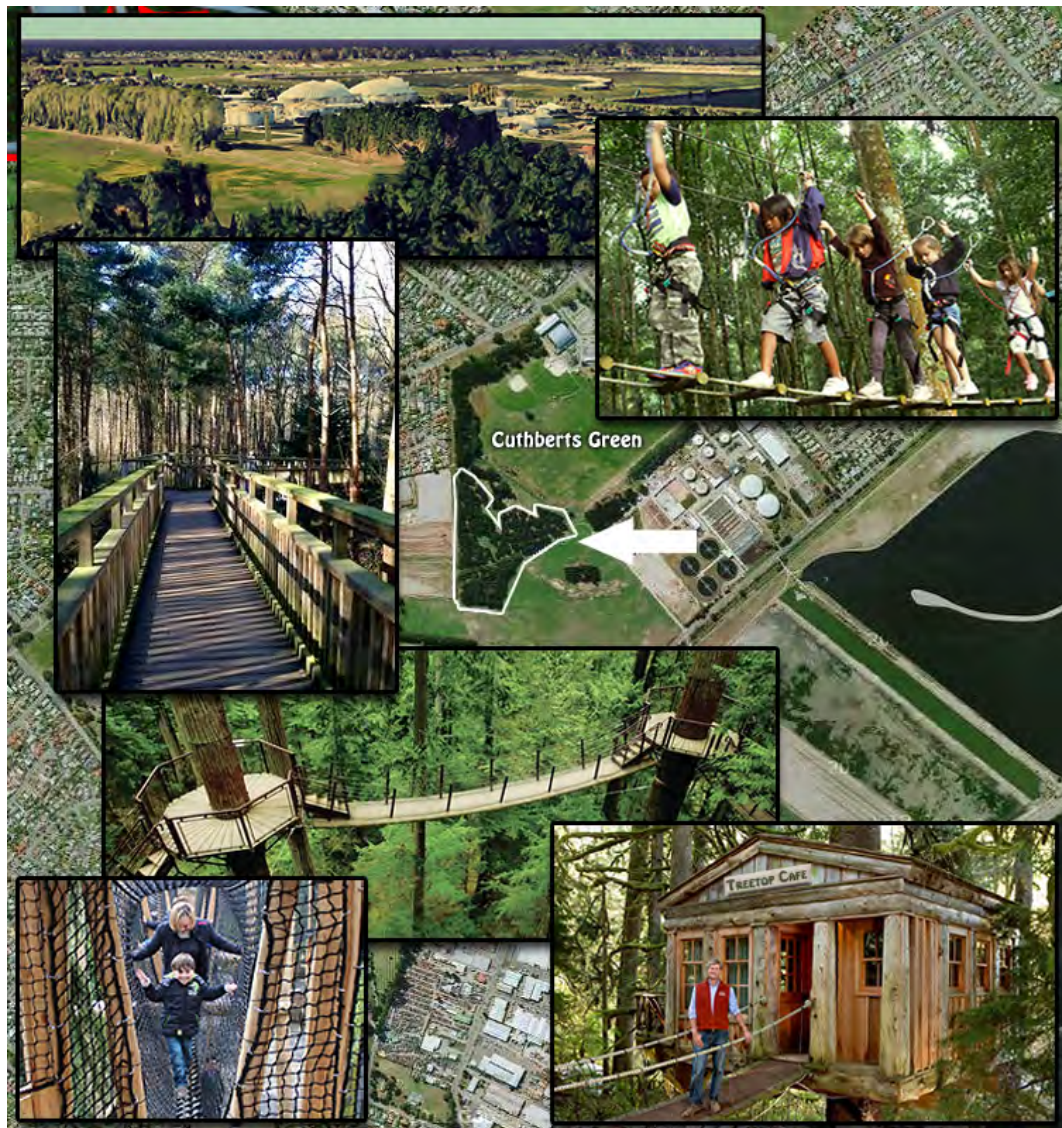
- Health & safety: risk of falling.
- Fire risk.
- A confidence building experience for local school children.
- A tourist attraction for the eastern suburbs.

Proposed Location:

Bromley: Sector 37 & 43

Category:

Sport & Recreation



Wave Garden

Description:

- Wave Garden is a man-made lake with a piston-generated wave that creates ideal conditions for surfing, as well as a broadly appealing range of other wave sports such as body boarding, kayaking, and stand up paddling - the closest thing to an ocean break.
- Perfect waves of all sizes (standard size between 1.2-1.9 m), lengths (standard length around 18 second surfing ride duration), shapes and speeds are consistently generated in a safe, natural environment.
- Fun and challenging wave for all surfers, from grommets (beginners both young and old) to professional surfers.
- Orientation ensures the surf is running when winds prevent good surfing on the beach.

Considerations:

- Water quality needs to be consistently good: there is potential to use sea water piped from the ocean and returned there.
- Can be combined with other facilities like a skate park, café.
- Pay to enter – option to package entry with other aquatic amenities in the area.
- Complements New Brighton as an aquatic playground destination.
- Can be used as a storm surge flood retention basin – taking overspill from the Avon River at Owles Terrace.
- If using saltwater, care required so that this does not contaminate the river water.

Proposed Location:

New Brighton: Sector 31

Category:

Sport & Recreation



White-Water Kayak and Rafting Course

Description:

- The course is in the shape of a massive 'U', 320 metres in length, between 0.8 and 1.2 metres deep and between 8 and 12 metres wide. The overall drop from top to bottom is about 5 metres.
- Large immovable rocks shape the course, as well as movable obstacles which may be used for varying the difficulty of the course and for fine-tuning the rapids.
- The course can be configured for olympic-level canoe/kayak slalom or reconfigured for recreational large rubber raft rides.

Considerations:

- Water needs to be of sufficient quality for contact recreation
- Located close to a flatwater sport facility could share facilities with court sports eg squash, badminton.
- Can generate income from recreational raft rides – business case will be required to ensure financial viability.
- The massive pumps in the whitewater course could shift and lift twice the flow of the Avon River if desired, in combination with the substantial storage of a flatwater lake this could have a significant role in flood resilience for the city.
- A potential training resource for white water river crossing, and swiftwater rescue.
- The number of participants in kayaking in Christchurch is estimated at 8-9% of the population over 16 years of age. This is around 30,000 people who kayak more than once a year.

Proposed Location:

Dallington: Sector 17

Category:

Sport and Recreation

