

2017/04



CDEM Resilience Fund project application form

This form provides the minimum of information for the application; a detailed project plan should be developed to inform this application and may be attached.

Attached: Project Phase 1: SLR Disaster Waste Management in New Zealand Scoping Study.

Project Phase 2: Disaster Waste Management Framework – Developing a Disaster Waste Management Plan Request for Proposal.

Project title	Developing a Disaster Waste Management Plan (DWMP) template
Date of application	27 September 2016
Details on application	
Applicant	Bay of Plenty Regional Council, Environment Canterbury, Waikato Regional Council and associated regional CDEM Groups
CDEM Group/s affected	Applicable to CDEM groups nationally.
Other local authorities, Groups or organisations supporting this proposal	

Project description

Executive summary

Disaster and emergency waste management includes the collection, stockpiling, sorting, recovery or disposal of multiple bulk waste-streams. Coordination of the response and the ability to make rapid decisions are key drivers for the development of an effective Disaster Waste Management Plan (DWMP). Managing the outfall from a disaster event requires a multi-agency approach to ensure post event waste management is undertaken efficiently and with minimal human health, environmental or economic impacts.

Following the massive scale of the Christchurch earthquakes and the Rena grounding on the Astrolabe Reef, it became apparent that a DWMP identifying likely waste streams and volumes associated with a specific event whilst considering regional conditions, facilities and infrastructure could have assisted with more efficient post event waste management.

Environment Canterbury, Bay of Plenty Regional Council and Waikato Regional Council, with assistance from the Bay of Plenty CDEM team have jointly contributed \$75,000 to undertake a two phase scoping study. The study has evaluated bulk waste streams that could occur in the event of a number of disaster scenarios and in the current phase will identify the best platform to deliver a nationally applicable DWMP template.

When developed, we envision the DWMP template will form a web-based tool made available to all agencies involved in disaster relief. It will be designed to assist in planning for best practice post emergency waste management and be highly adaptable to uniquely regional conditions.

Challenge/opportunity

The challenge is to develop a tool which is accessible and relevant to organisations across the country. It must be easy to use and able to be applied to a wide spectrum of geographical and physical variations. These include terrain, climate, built infrastructure, transport, population spread and the potential for a range of disaster and emergency events of significance.

The project for which funding is sought presents an opportunity for New Zealand to gain a disaster waste management planning tool that is based on local requirements and highly adaptable to regional variations. It will complete the project investment provided by the three regions to date and is an opportunity for the Ministry of Civil Defence and Emergency Management to assist local government in providing an innovative solution to disaster waste management planning.

Specifically the funding will be put towards contracting the delivery of a web template that each council / CDEM / emergency responder team will be able to use where-by inputting specific locally applicable

information will create a management plan identifying predicted waste volumes, based on event location, contractor capacity, stockpile facilities and disposal or recovery sites across a range of potential disaster scenarios.

It is intended to develop this tool after assessing the best of what is currently available and ensuring the technology is well adapted to the New Zealand environment.

Alignment with identified goals and objectives identified in the CDEM sector

This project fits seamlessly into the objectives of the National CDEM Plan 2015. The web-based template resulting from successful completion of this project will be accessible nationally, it will also be adaptable to unique local and regional conditions. An envisioned use of the template is that it will have a broad user base for all sectors of emergency responders who may have to consider waste management, so can be used by emergency services, Police, Fire, Defence forces as well as CDEM teams, territorial and regional local government authorities.

The Disaster Waste Management Plan template will lead to a reduction in post disaster waste management issues, it will create a sense of readiness for authorities to manage waste appropriately, through a variety of scenarios having been planned for in advance, developing greater capability amongst the teams involved.

Dissemination of benefits to sector

New planning technology will be developed which is intended to be accessible across a wide range of stakeholder parties throughout New Zealand. This is a project being developed at regional level but has true national significance, with central government ministry assistance required to complete the final part of this project.

CDEM, along with a spectrum of emergency responders, regional councils and local authorities will be in a unique position to use the DWMP tool to develop highly individualised emergency waste management strategies that are applicable to local conditions.


Community resilience will be emboldened with the knowledge that appropriate waste management strategies have been identified and planned for in the case of a broad range of potential emergency scenarios. The completion of the project will reduce the risks of large scale waste streams being handled inappropriately causing undue human health, environmental, or economic impacts on affected communities.

Project design

Project manager	Reece Irving (Bay of Plenty Regional Council)
Other project members	Marianna Tyler (Waikato Regional Council), Rowan Latham (Environment Canterbury), Matthew Harrex (Bay of Plenty CDEM)
External providers/contractors	To be appointed pending successful funding bid.

Deliverables

Milestones	Date for completion	Cost
<ul style="list-style-type: none"> Request for Proposals released via Tender Link 	01 August 2017	\$3,000
<ul style="list-style-type: none"> Assess proposals and appoint successful bidder 	01 September 2017	\$15,000
<ul style="list-style-type: none"> Internal trial of system within councils and CDEM teams involved 	01 December 2017	\$25,000 for system development to this point
<ul style="list-style-type: none"> System trial across a broad range of emergency responder groups 	01 March 2018	\$25,000 to complete national trial
<ul style="list-style-type: none"> Adjustments to system 	01 May 2018	\$15,000
<ul style="list-style-type: none"> System finalised for national release 	30 June 2018	\$17,000

Identified risks						
Risks	Suggested management					
<ul style="list-style-type: none"> Funding application is unsuccessful Insufficient or inexperienced bidders to the RfP 	<p>Identify alternative funding sources, apply for funding from MfE Waste Minimisation Fund, submit on council annual plans to include contingency to continue this project.</p> <p>Ensure there is a clause to extend the time or scope of the RfP if all bids prove to be unsuitable.</p>					
Funding request and use						
CDEM resilience fund contribution	\$100,000					
Local authority/organisation contribution	\$15,000 (in addition to \$75k already contributed)					
Other sources of funding or support	Ministry for Environment Waste Minimisation Fund application for any predicted shortfall.					
Budget <i>[Please supply spreadsheet]</i>	Detailed budget to be developed at completion of current Project Phase 2.					
Applies if application exceeds \$100,000 over the life of the project	Do you wish to attend a hearing in support of this application?	<table> <tr> <td>Yes</td> <td>No</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>	Yes	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Yes	No					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Application confirmation						
Approval of Chief Executive						
CDEM Group comment						
<p>Planning and preparing for large quantities and multiple streams of waste before a disaster significantly reduces the burden on emergency managers and the community during and post disasters.</p> <p>The lessons learned from the Canterbury earthquakes and the Rena grounding have prompted the Bay of Plenty, Canterbury and Waikato regional councils to proactively address this matter. Significant work has already been undertaken in the development of this project co-funded by the individual applicants.</p> <p>Moving to the final phase of this project will enable a practical end user focussed tool to facilitate disaster waste management planning. This is an initiative that the Bay of Plenty CDEM Group have been supporting and will continue to support in its development. We believe it will deliver a nationally applicable tool that will deliver significant benefits in planning for disaster event waste management.</p>						

