



# Safety



This section discusses how the ARC will promote safety in the Auckland region.

It includes the following LTCCP activities:

1. Hazards management
2. Civil defence emergency management
3. The Harbourmaster.

The safety activities contribute to the following community outcomes:

- Safer neighbourhoods and public places
- The ARC, the community, local and central government, and business work together to achieve results
- Aucklanders have access to a range of affordable and safe ways to move people and goods
- Aucklanders are educated and skilled and have access to appropriate learning and training opportunities

Influence on the four well-beings:



Environmental



Social



Cultural



Economic

Possible significant negative effects:

No significant negative effects have been identified.

## Key Issues

Where people and properties are in the path of natural events (e.g. flooding, landslides, tsunamis, volcanic eruptions), hazards are created. Similarly, the every-day activities of people can cause a whole raft of hazards without nature's help, such as when technology fails (e.g. power failures, bridges collapse) or hazardous substances are released (e.g. spills or fires).

Risk is often underestimated because of development pressures and the random nature of hazards events. People want to know that local authorities are aware of the risks hazards pose to them and to ensure risks are reduced, without creating unnecessary restrictions on development. Where risk cannot be reduced, communities expect to be warned of impending or potential hazards and reassured that agencies are adequately prepared to respond to hazard events

Regional Emergency Management is the responsibility of the Civil Defence Emergency Management Group (CDEMG). This group is made up of representatives from all councils in the region. Funding for this group is shared, with the Auckland Regional Council (ARC) funding 35 per cent of costs and local councils funding the remaining 65 per cent, based on population. The ARC is responsible for administering the CDEMG. The ARC also provides the volunteer staff required to run the Emergency Operations Centre (EOC).

The work of the ARC Harbourmaster's Office seeks to ensure a safe environment on Auckland's waterways, providing navigational safety regulation, education and maritime assistance, mooring management and an effective oil spill response capability.

## What we want to achieve

We will continue to actively participate in the Auckland Civil Defence Emergency Group (CDEMG).

We will continue to improve our understanding of natural hazard events and their consequences.

We will continue to develop and implement policy aimed at reducing community and infrastructure exposure to hazard risk.

We will act as the administering authority for the CDEMG.

We will provide the volunteer staff required to run the regional Emergency Operations Centre (EOC).

We will deliver an effective team of professional emergency management staff able to co-ordinate response to a significant civil defense emergency.

We will have plans in place to deal with the response and recovery phase of a hazardous event.

We will mitigate the effects of identified hazards at regional level by:

- advocating for effective reduction strategies,
- educating people and organisations so that they are ready,
- planning and implementing effective response and recovery strategies in the event of a significant emergency.

We will deliver effective maritime management and marine oil spill response.

We will provide navigational safety patrols and remove dangerous flotsam and jetsam.

We will provide for an efficient mooring management system for all swing and pile moorings in the Auckland region.

## Our responsibilities

Under the Civil Defence and Emergency Management Act 2002 and the Resource Management Act 1991, the ARC undertakes a number of initiatives to reduce the risk from hazards in the Auckland region.

We consider hazards across short, medium and long-term land use planning. We are continually improving our understanding of regional hazards and risks by undertaking assessments on a range of natural and technological hazards. In addition, further work is being undertaken to determine the impact that climate change will have on the frequency and consequences of natural hazard events in the future.

The ARC is responsible for reducing public exposure to the risks that can result from hazards. In order to meet these requirements the ARC needs to:

- know about hazards – where they are located; how likely they are to occur; what are the likely consequences,
- put in place policies, standards and processes that will help reduce risks from hazards,
- promote the consistent management of hazards across the Auckland region,
- improve awareness and understanding of hazards.

We also work in partnership with territorial authorities and emergency services through the CDEMG to address emergency management issues in the region, ensuring readiness for emergency response and recovery.



Under the Local Government Act 2002 and bylaws, the Harbourmaster provides safe and efficient maritime management for commercial and recreational users of the region's waters. The Harbourmaster's primary role is to ensure navigational safety is maintained. This is achieved through the implementation of the Port and Harbour Safety Code and Safety Management Plan, regular harbour patrols, liaison with harbour stakeholders, co-ordination of uses (commercial vs recreations), control and regulation of mooring management areas.

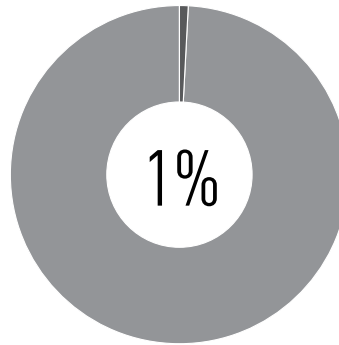
Under the Maritime Transport Act, the Harbourmaster's Office will meet its responsibilities for oil spill response in an efficient and effective manner.

### Assets required by this group of activities

The assets relating to the Safety group of activities include equipment used by the Harbourmasters office. These assets are used for various maritime activities. These include two Patrol vessels to administer the Maritime activities in the region and a barge which is used principally for oil spill response, the laying of buoys and the recovery of debris. The maintenance, renewal and replacement of maritime equipment have been planned for in the 10 year CAPEX programme as per the projected equipment lifecycle. There is no plan for additional asset capacity.

The depreciation costs included in the income statement that follows also includes the overhead costs allocated across all ARC activities.

### What this will cost



**This is 1% of the ARC's total rates**

The total rate requirement for the Activity Group for 2009/10 is \$1.767m.

### Key financial assumptions

Refer to assumptions under the individual activities that follow.

The rationale for funding of this group of activities is contained in the Revenue and finance policy – funding profiles by activity in Chapter 6.

The following table is further broken down into the cost of services statements for the three activities that make up the safety group: Hazards management (LTCCP activity 1), Civil defence emergency management (LTCCP Activity 2), and the Harbourmaster (LTCCP Activity 3).

### Prospective income statement for year ending 30 June - dollars in thousands

Safety	Plan 2010	Forecast 2011	Forecast 2012	Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2018	Forecast 2019
Rates	1,767	1,737	1,802	1,815	1,922	1,946	1,977	1,980	2,065	2,090
Service fees	815	894	919	944	970	996	1,023	1,052	1,082	1,113
Facilities	988	1,009	1,064	1,099	1,035	1,069	1,104	1,140	1,177	1,215
Grants and subsidies	134	139	145	151	157	163	170	176	183	191
Investment	46	61	72	82	93	94	99	112	118	126
Sundry operating	13	14	14	14	15	15	15	16	16	17
<b>Revenue</b>	<b>3,763</b>	<b>3,854</b>	<b>4,016</b>	<b>4,105</b>	<b>4,192</b>	<b>4,283</b>	<b>4,388</b>	<b>4,476</b>	<b>4,641</b>	<b>4,752</b>

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## Prospective income statement (continued) for year ending 30 June - dollars in thousands

Safety	Plan 2010	Forecast 2011	Forecast 2012	Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2018	Forecast 2019
Human resources	2,217	2,287	2,366	2,418	2,479	2,551	2,612	2,659	2,732	2,812
Professional services	117	121	131	134	139	148	151	157	167	172
Technical services	128	135	142	150	159	167	177	187	197	209
Contracted services	448	458	471	516	493	504	516	528	579	555
Materials	13	13	13	14	14	14	15	15	15	16
Printing and office supplies	47	48	49	50	52	53	54	55	56	58
Fuel and power	71	72	76	79	83	87	92	97	106	112
Repairs and maintenance	26	26	27	28	28	29	30	30	31	32
Communications	42	43	44	46	47	48	49	50	51	52
Information services	136	135	137	147	144	147	153	154	160	162
Occupancy	214	216	219	230	232	235	246	249	251	254
Interest and bank charges	6	6	6	0	1	(1)	(6)	(6)	(11)	(14)
Other	96	98	99	101	101	102	104	106	109	109
Internal expenditure recovery	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Vehicle	62	64	65	67	68	70	72	73	75	78
Depreciation	248	234	188	197	207	180	184	184	191	199
<b>Expenditure</b>	<b>3,851</b>	<b>3,936</b>	<b>4,013</b>	<b>4,157</b>	<b>4,227</b>	<b>4,314</b>	<b>4,429</b>	<b>4,518</b>	<b>4,689</b>	<b>4,786</b>
<b>Net surplus/(Deficit)</b>	<b>(88)</b>	<b>(82)</b>	<b>3</b>	<b>(52)</b>	<b>(35)</b>	<b>(31)</b>	<b>(41)</b>	<b>(42)</b>	<b>(48)</b>	<b>(34)</b>

## Prospective capital expenditure statement for year ending 30 June - dollars in thousands

Safety	Plan 2010	Forecast 2011	Forecast 2012	Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2018	Forecast 2019
Trade in vehicles	-	-	-	-	-	-	-	-	-	-
<b>Total revenue</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Bridges, structures and dams	35	36	158	339	170	297	40	186	122	237
<b>Total capital expenditure</b>	<b>35</b>	<b>36</b>	<b>158</b>	<b>339</b>	<b>170</b>	<b>297</b>	<b>40</b>	<b>186</b>	<b>122</b>	<b>237</b>
<b>Total net capital expenditure</b>	<b>35</b>	<b>36</b>	<b>158</b>	<b>339</b>	<b>170</b>	<b>297</b>	<b>40</b>	<b>186</b>	<b>122</b>	<b>237</b>
Funded by										
Rates	35	36	158	339	170	297	40	186	122	237
<b>Total net capital expenditure funding</b>	<b>35</b>	<b>36</b>	<b>158</b>	<b>339</b>	<b>170</b>	<b>297</b>	<b>40</b>	<b>186</b>	<b>122</b>	<b>237</b>



## LTCCP Activity 1: Hazards management

### What we plan to deliver

Our work will ensure that the community's risk from hazards is reduced and that public safety is maintained. This is achieved by assessing natural hazards and how they are likely to affect people and property. It involves developing strategies, policies and processes for managing hazards, and co-ordination and integration of hazard management approaches region-wide.

Levels of service	Performance measures	Baseline	Targets	
We will identify and manage hazards and risks so that the risks to the community and the built environment are reduced in relation to natural hazards.	THIS IS A NEW MEASURE HZ 1. Level of risk to developments from hazards, measured by the level of exposure of developments to coastal hazards.  (This is a measure of long term regional change as compared to local change therefore will be measured approximately every 5 years.)	To be established in 2009/10.	2009/10	Maintain or reduce baseline  (measured every 5 years)
			2014/15	
	THIS IS A NEW MEASURE HZ 2. Level of community awareness of regional hazard risk.	To be established in 2009/10.	2009/10	Maintain or increase on baseline
			2010/11	
			2011/12	
			2013 - 19	
	HZ 3. Extent to which regional hazards policies are reflected in District, Regional and CDEM Plans.	50% in 2007/08	2009/10	50%
			2010/11	50%
			2011/12	50%
by 2018/19			60%	
We will provide input and support to the ACDEMG to ensure appropriate civil defence response across the region.	HZ 4. The response rate of staff volunteers to emergency call out meets agreed standard; 24 people in the EMO within 90 minutes.	99% average in 2008 from 4 events	2009/10	100%
			2010/11	100%
			2011/12	100%
			2013 - 19	100%
	HZ 5. Level of ARC's contribution to the CDEMG's projects meets the agreed standards.	To be established in 2009/10.	2009/10	Under development
			2010/11	
			2011/12	
			2013 - 19	

## What this will cost

### Financial assumptions

- That ARC's contribution to CDEMG costs will continue to increase at the rates projected by the Emergency Management Office.
- That the ARC's role in risk reduction will continue in a substantially similar way to that currently in place

### Activity prospective cost of services statement for year ending 30 June - dollars in thousands

Hazards management	Plan 2010	Forecast 2011	Forecast 2012	Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2018	Forecast 2019
Revenue	109	118	124	130	136	140	145	152	158	166
Expenditure	1,513	1,556	1,617	1,682	1,679	1,723	1,780	1,824	1,885	1,952
Net cost of services	1,404	1,438	1,493	1,552	1,543	1,583	1,635	1,672	1,727	1,786
Reserves	(320)	(331)	(349)	(457)	(320)	(346)	(376)	(405)	(428)	(445)
Rating requirement	1,084	1,107	1,144	1,095	1,223	1,237	1,259	1,267	1,299	1,341





## LTCCP Activity 2: Civil Defence Emergency Management

### What we plan to deliver

The Civil Defence Emergency Management Group (made up of representatives from the ARC, all city and district councils in the region and the emergency services) is creating a more resilient Auckland region, meaning the region that can quickly recover after an emergency or hazard event. The CDEMG will ensure that hazards and emergencies are managed through risk reduction, readiness, response and recovery.

Under the CDEMA 2002 the Civil Defence Emergency Management Group will:

- work with members to identify risks and hazards and reduce them,
- ensure that there is an emergency management structure and trained people are available to staff the structure,
- educate people and organisations about civil defence emergency management,
- respond in the event of a significant emergency,
- carry out recovery activities after an event,
- assist other civil defence groups,
- promote and raise public awareness of the Civil Defence Emergency Management Act 2002 (CDEMA),
- monitor and ensure compliance with the CDEMA,
- develop, implement and monitor a regional civil defence plan,
- inform national civil defence planning.

Levels of service	Performance measures	Baseline	Targets	
We will advocate for activities and programmes that seek to reduce risk to public safety and property in the Auckland region posed by regional emergencies.	THIS IS A NEW MEASURE CD 1. The percentage of programmes achieved annually in the AREMO Business Plan as reported to the Co-ordinating Executive Group.	To be established in 2009/10	2009/10	80%
			2010/11	80%
			2011/12	80%
			2013 - 19	80%
We will assist the community to prepare for and develop the ability to recover from emergency events.	CD 2. The level of community preparedness as measured by the annual Colmar Brunton Ministry of Civil Defence survey.	3% fully prepared and 14% prepared at home in 2008	2009/10	Annual increase from baseline set in 2008.
			2010/11	
			2011/12	
			2013 - 19	
	CD 3. Percentage of households who have taken steps to prepare themselves or their household for natural or manmade hazards or disasters, as measured by the Environmental Awareness survey.	56% in 2007/08	2009/10	Maintain or improve on previous year's result.
			2010/11	
			2011/12	
			2013 - 19	
We will work with community groups and regional agencies to prepare for a co-ordinated response to and recovery from regional civil defence emergency events.	THIS IS A NEW MEASURE CD 4. Assessment of ARC performance in national exercises demonstrates a consistent improvement from the baseline set by exercise Ruaumoko, conducted in 2008.	2008 exercise* <i>*report not quantitative</i>	2009/10	Improve on level of performance set in 2008.
			2010/11	
			2011/12	
			2013 - 19	

## What this will cost

### Financial assumptions

- The income jointly received from the CDEM will cover the costs of the CDEMG projects.
- The financial forecasts assume that the current activities will continue to grow at current trends.
- That there will be no regional civil defence emergencies.

### Activity prospective cost of services statement for year ending 30 June - dollars in thousands

Civil defence emergency management	Plan 2010	Forecast 2011	Forecast 2012	Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2018	Forecast 2019
Revenue	1,051	1,078	1,139	1,179	1,122	1,158	1,196	1,239	1,280	1,324
Expenditure	752	762	750	754	824	831	846	860	881	899
Net cost of services	(299)	(316)	(389)	(425)	(298)	(327)	(350)	(379)	(399)	(425)
Reserves	299	316	389	425	298	327	350	379	399	425
Rating requirement	-	-	-	-	-	-	-	-	-	-





## LTCCP Activity 3: The Harbourmaster

### What we plan to deliver

We will continue to operate a maritime safety management plan as part of the New Zealand Port and Harbour Safety Code development. The code ensures Council recognise all risks and they are mitigated so that maritime areas are used in a safe and efficient way.

We also provide for the allocation, monitoring and review of moorings within mooring management areas. The

Harbourmaster also maintains an operational capacity to respond effectively to marine oil spills.

The ARC completed a review of mooring fees as part of the last annual process following public consultation with mooring owners, lessees and affected parties over adjusting the fees. Council has agreed to adjustments in 2009/10 and 2010/11. A schedule of fees can be obtained by contact the ARC directly or on the ARC website, [www.arc.govt.nz](http://www.arc.govt.nz).

Levels of service	Performance measures	Baseline	Targets	
We will maintain navigational safety, consistent with appropriate risk assessments, as required by the Marine Port and Harbour Safety Code.	HA 1. Percentage of significant incidents risk assessed against the level of acceptance identified by the Risk Assessment – Port and Harbour Safety Code.	100% in 2007/08	2009/10	100% of incidents assessed
			2010/11	100% of incidents assessed
			2011/12	100% of incidents assessed
			2013 - 19	100% of incidents assessed
	HA 2. Harbour users and stakeholders are satisfied with harbour management.	55% in 2006/07	2009/10	At least 50%
			2010/11	At least 50%
			2011/12	At least 50%
			2013 - 19	At least 50%
We will deliver effective regional marine oil spill response that meets the requirements of the Maritime Transport Act and the New Zealand Marine Oil Spill Response Strategy.	HA 3. Percentage of oil spills that are responded to effectively and on time.	100% in 2007/08	2009/10	100%
			2010/11	100%
			2011/12	100%
			2013 - 19	100%
We will effectively and efficiently manage the region's moorings to ensure navigational safety and to meet the needs of the boating community.	HA 4. Percentage of mooring users who are aware of the ARC's role in mooring management.	68% in 2006/07	2009/10	At least 70%
			2010/11	At least 70%
			2011/12	At least 70%
			2013 - 19	At least 70%

## What this will cost

### Financial assumptions

- Moorings and mooring areas within the region continue to grow and consolidate to meet the demands of expanding recreational boating numbers
- The ARC continues to be the lead agency at the Tier II level of oil spill response in the Auckland region.

### Activity prospective cost of services statement for year ending 30 June - dollars in thousands

Harbourmaster	Plan 2010	Forecast 2011	Forecast 2012	Forecast 2013	Forecast 2014	Forecast 2015	Forecast 2016	Forecast 2017	Forecast 2018	Forecast 2019
Revenue	836	921	951	981	1,012	1,039	1,070	1,105	1,138	1,172
Expenditure	1,586	1,618	1,646	1,721	1,724	1,760	1,803	1,834	1,923	1,935
Net cost of services	750	697	695	740	712	721	733	729	785	763
Reserves	(67)	(67)	(37)	(20)	(13)	(12)	(15)	(16)	(19)	(14)
Rating requirement	683	630	658	720	699	709	718	713	766	749

