

**ACTION PLAN FOR NATURAL HAZARD REDUCTION – SELECTION OF APPROPRIATE ACTIVITIES**

**CITY OF ANACORTES**

- 1. Preventive activities, such as zoning, storm water management regulations, building codes, and preservation of open space and the effectiveness of current regulatory and preventive standards and programs.**

<b>ACTIVITY</b>	<b>STAFF ASSIGNMENT &amp; SCHEDULE</b>	<b>FINANCING PLAN</b>
<b><i>Earthquake, Severe Storm, fire, Land Movement</i></b>		
Utilize the latest adopted state building code to insure adequate protection in construction against Earthquakes in Seismic Zone 3, Severe storms with Wind exposure C, Fire with fire Resistive construction Standards, and Land Movement with Grading Standards	<b>State Legislature</b> has adopted International Codes for implementation in 2004 <b>City Council</b> to adopt new state code - 2004	No financial impact
Utilize the latest adopted state fire code to insure adequate protection against fire in construction with standards for fire flow and through the annual Inspection of Commercial Structures	<b>State Legislature</b> has adopted International Codes for implementation in 2004 <b>City Council</b> to adopt new state code - 2004	No financial impact
<b><i>Flood</i></b>		
The 100 year Flood zones shall be regulated to protect human life, property and the public health and safety of the citizens of Anacortes; minimize the expenditure of public money; and maintain the city’s flood insurance eligibility while avoiding regulations which are unnecessarily restrictive or difficult to administer	<b>Planning and Building Department – On-going</b> Administration of model National Flood Insurance Program Ordinance	No financial impact
Manage storm water runoff to improve drainage, control storm water quantity, prevent localized flooding of streets and private property during storm events, and protect and enhance water quality. Increase focus on storm water quality.	<b>Public Works &amp; Street Department</b> -Administer Surface Water Management Code; <b>Update comprehensive Storm Water Plan – 6 year cycle</b>	Funded by Surface Water Utility fees, both new construction and monthly rates
Make investigations and corrective actions of problem storm drains, including sampling. Develop a program for operation and maintenance of storm drains, detention systems, ditches, and culverts.	<b>Public Works &amp; Street Departments – Ongoing</b> Administer Surface Water management code	Funded by Surface Water Utility fees, both new construction and monthly rates
<b><i>Flood, Landslide, Earthquake</i></b>		
Utilizing Best Available science to develop the Critical Areas title to protect, to the greatest extent practical, life, property and the environment from loss, injury and damage by pollution,	<b>Planning, Building and Public Works Departments – Ongoing</b> program and regulations are in place.	Funding integrated into each department’s budget, with dependence on grant funding.

erosion, flooding, landslides, strong ground motion, soil liquefaction, accelerated soil creep, settlement and subsidence, and other potential hazards, whether from natural causes or from human activity and related goals.		
Coordinate with Skagit county through arrangements such as interlocal agreements, joint programs, consistent standards, or regional boards or committees.	<b>Multi-jurisdictional All Natural Hazards Mitigation Planning project – 2003 first plan; Annual maintenance with five year update required</b>	Initial development funded by State/Federal Grant; follow-up funded locally.
Public Works implementation of drainage utility including improved maintenance and operations, a rate structure and public education element. Drainage Utility rate structure adopted in early 1999; annual inspection and maintenance requirements for all private facilities implemented; previous annual inspections limited to public facilities.	<b>Public Works Department – Ongoing</b>	Funded by Surface Water Utility fees, both new construction and monthly rates

**2. The plan reviews property protection actions, such as acquisition, retrofitting, and insurance.**

<b>ACTIVITY</b>	<b>STAFF ASSIGNMENT &amp; SCHEDULE</b>	<b>FINANCING PLAN</b>
<b><i>Landslide</i></b>		
Provide protection of steep slopes according to standards in the Critical Areas Ordinance.	<b>Planning, building &amp; Public Works Departments – Ongoing</b>	Planning, building & Public Works Departments – Ongoing
<b><i>Flooding</i></b>		
Regulations and policies reflect the existing shoreline. Nonstructural solutions to flood hazards shall be encouraged including restricting development in flood-prone areas and storm water runoff management	<b>Planning, building &amp; Public Works Departments – Ongoing</b>	Planning, building & Public Works Departments – Ongoing
The Building Official will develop a recording system for elevation certificates. Each elevation certificate is maintained by address and copies will be sent to FEMA on disk as requested. <i>Action:</i> Require, review, enter data in computer, and file certificates for all new development in flood zones.	<b>Building Department – Ongoing</b>	<b>Planning, building &amp; Public Works Departments – Ongoing</b>
The Planning director and the Building Official will continue to provide technical advice to property owners, contractors and design professionals.	<b>Building and Planning Departments</b>	Planning, building & Public Works Departments – Ongoing
<b><i>Earthquake, Severe Storm, Flooding</i></b>		
Provide 100-year flood protection for Water Treatment Plant; Provide Emergency Generator with capacity to operate plant.	<b>Public Works-- Long term project—2 to 5 years in duration</b>	Dependent on grant funding
Seismic upgrade of Municipal Building	<b>Parks Department – Long term – 3 year project</b>	Funding to be determined

Fire protection of Municipal Building	<b>Parks Department – Long term – 3 year project</b>	Funding to be determined
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**3. The plan reviews activities to protect the natural and beneficial functions of the flood zones, such as wetlands protection;**

<b>ACTIVITY</b>	<b>STAFF ASSIGNMENT &amp; SCHEDULE</b>	<b>FINANCING PLAN</b>
<b><i>Flooding</i></b>		
Protect and restore critical areas, plan for flood hazard mitigation, surface water management and pollution control, establishment and maintenance of green belts and conservation areas.	<b>Planning, Public Works, Building Departments – Ongoing</b>	Combination of funding including department budgets, grant funds, surface water utility.
Provide habitat for wildlife species, food fish, and saltwater fish in close proximity to an urban area, including Fidalgo Bay.	<b>Planning and Public Works Departments -- Ongoing</b>	Combination of funding including department budgets, grant funds, surface water utility.
Plan the stromwater management system to be consistent with policies regarding flooding, wetlands, land use and water quality.	<b>Public Works Department – Ongoing</b>	Surface Water Utility funds and department budgets.
Apply best management practices to reduce pollutant loading and minimize the effects of contaminated sediments on Fidalgo Bay, Guemes Channel and Burrows Bay.	<b>Planning, &amp; Public Works Departments – Ongoing</b>	Funding integrated into department budgets, grant funding
<b><i>Flooding, Earthquake, Landslide, Fire, Severe Storms</i></b>		
Encourage the retention of open space and development of recreational opportunities, conserve fish and wildlife habitat, increase access to natural resource lands and water, and develop parks. Integrate the concepts with natural functions such as drainage and topographic features.	<b>Planning, Parks Departments – Ongoing</b>	Parks Fund, general budgets.
Forest Lands fire protection plan	<b>Fire Department – Ongoing</b>	General Budget, Department Budget.

**4. The plan reviews emergency services activities**

<b>ACTIVITY</b>	<b>STAFF ASSIGNMENT &amp; SCHEDULE</b>	<b>FINANCING PLAN</b>
<b><i>Flooding, Tsunami, Earthquake</i></b>		
Develop and maintain a specific flood and tsunami warning and evacuation program for the City of Anacortes	<b>City Emergency Response Plan Committee – Time frame to be determined</b>	General Fund, other support to be determined
The transportation plan is designed to ensure the continued ability of the transportation system to function at a reasonable level of service throughout the urban service area and coordinate the links to the regional transportation system. Critical for evacuation.	<b>Planning and Public Works Departments -- Ongoing</b>	Funding integrated into department budgets with occasional grant funding support.

<b>ACTIVITY</b>	<b>STAFF ASSIGNMENT &amp; SCHEDULE</b>	<b>FINANCING PLAN</b>
Maintain Police, Fire, Wastewater Treatment Critical Facilities up to date with most current technology and standards to ensure operation during hazard events.	<b>City of Anacortes --- Ongoing</b>	Funding integrated into department budgets with occasional grant funding support.
Annual maintenance of the Emergency Response Plan to insure that all Critical Facilities including Nursing Homes, chemical storage facilities, schools, electric and communication substations have working emergency plan in place and that contacts are up to date.	<b>City Emergency Response Plan Committee – Annual Review and update every 3 years</b>	Funding integrated into department budgets.

**5. The plan reviews structural projects.**

<b>ACTIVITY</b>	<b>STAFF ASSIGNMENT &amp; SCHEDULE</b>	<b>FINANCING PLAN</b>
<b><i>Flooding</i></b>		
Structural Measures – Relocate the water treatment plant out of the flood plain with the intake structure to remain in the flood plain	<b>Public Works Department – Long term project with no estimated start date</b>	Variety of funding sources including grant fund, federal, state and local funds.
<b><i>Earthquake</i></b>		
Install isolation valves at water reservoirs; relocate portions of distribution system to protected areas.	<b>Public Works Department – Short term projects</b>	Variety of funding sources including grant fund, federal, state and local funds.
Seismic upgrade of municipal building, including analysis, design, and completion of work	<b>Parks Department – Short term project</b>	Variety of funding sources including grant fund, federal, state and local funds.
<b><i>All Hazards</i></b>		
Purchase and install emergency generator with capacity to operate water treatment plant.	<b>Public Works Department – Short term projects</b>	Variety of funding sources including grant fund, federal, state and local funds.
Construct water system inter-tie with Skagit County PUD. The inter-tie with Skagit County PUD will provide both utilities with capacity should either plant be out of service for a short period of time	<b>Public Works Department – Short term projects</b>	Variety of funding sources including grant fund, federal, state and local funds.
Install alternate fuel source for emergency generators at Fire Stations 1 and 2.	<b>Fire Department – Short Term Project</b>	General fund and grant funding.
Relocate overhead electrical wires underground at Fire Station 1 apparatus access and egress ramp.	<b>Fire Department – Short Term Project</b>	General fund and grant funding.
City Hall—Install emergency generator capable of operating entire building	<b>Parks Department- Short Term Project</b>	General Fund and grant funding.
City Hall—Upgrade fire protection systems. City hall is an 80 year old	<b>Parks Department- Short Term Project</b>	General Fund and grant funding.

ACTIVITY	STAFF ASSIGNMENT & SCHEDULE	FINANCING PLAN
building that houses several municipal functions. Upgrade of the building structural and fire protection systems to ensure continued function during and after any natural hazard event		

The City of Anacortes has been pro-active upgrading facilities to modern codes. Since 1985 the following new facilities have been constructed:

- Two fire stations
- Sewer treatment Plant
- Police/Court Bldg with EOC
- Library
- Water distribution system upgrades
- All schools modernized with seismic upgrades
- Hospital upgrades for seismic, fire safety and emergency care needs

Other mitigation strategies:

- Adopt and enforce building codes as adopted by the State of Washington
- Participation in the National Flood Insurance Program
- Compliance with the State of Washington Growth Management Act
- Implement a Disaster response plan
- Develop and implement a natural hazard awareness program