

Snohomish County Natural Hazards Mitigation Plan Progress Report

Reporting Period:

July 2007 to August 2008

Summary Overview of the plan's progress

The performance period for the SCNHMP became effective on April 27, 2005, with the final approval of the plan by FEMA region X. The initial performance period for this plan is 5 years, with the anticipated update to the plan to occur before April 27th, 2010. As of this reporting period, the performance period for this plan is considered to be 60% complete. The SCNHMP has identified 216 hazard mitigation initiatives to be implemented by 40 planning partners to mitigate the potential impacts of nine natural hazards. As of the reporting period the following overall progress can be reported:

116 out of 216 initiatives (54%) reported on-going action towards completion.

33 out of 216 initiatives (16%) were reported as being complete as of this reporting period.

67 out of 216 initiatives (31%) reported no action taken as of this reporting period

Background: The Snohomish County Natural Hazards Mitigation Plan (SCNHMP) was prepared by a coalition partnership of local government planning partners within Snohomish County pursuant to the Disaster Mitigation Act of 2000. This act required state and local governments to develop hazard mitigation plans as a condition for federal grant assistance. Over a 17 month period from September of 2003 to February of 2005, this partnership organized resources, assessed the risks to natural hazards within the planning area, developed planning goals and objectives, reviewed mitigation alternatives, and developed an action plan to address the probable impacts from natural hazards within Snohomish County. By completing this process, all participating planning partners achieved compliance with the parameters of the Disaster Mitigation Act, and thus leveraged hazard mitigation grant funding opportunities afforded under the Robert T. Stafford Act. Copies of the plan are available to the public throughout the Snohomish County Library system and it can be viewed on-line at:

http://www1.co.snohomish.wa.us/Departments/Public_Works/Divisions/SWM/Work_Areas/River_Flooding/Planning/Countywide

Purpose: The purpose of this report is to provide all governing bodies within the Snohomish County partnership, and the citizens of Snohomish County an annual update on the implementation of the action plan(s) identified in the Snohomish County Natural Hazard Mitigation Plan. This report has been prepared by the Snohomish County planning team and was reviewed and confirmed by the SCNHMP Steering Committee in accordance Chapter 7.2, Part 2 of Volume I, adopted by all Coalition partners during May of 2005. The Steering Committee reviewed and approved this progress report at their annual meeting held August 21, 2008. The objective of this annual evaluation is to ensure that there is a continuing and responsive planning process that will keep the SCNHMP dynamic and responsive to the needs and capabilities of the coalition partnership. This report will discuss the following:

- I.) **Natural Hazard Events that have occurred within the last year**
- II.) **Changes in risk exposure within the planning area**
- III.) **Review of the action plan(s)**
- IV.) **Changes in capability within the planning Area that could impact plan implementation**
- V.) **Recommendations for changes/enhancement**

The SCHNMP Steering Committee: The development of the SCNHMP was overseen by a steering committee that was made up of planning partners and stakeholders within the planning area. This oversight committee operated under a set of ground rules that they helped to establish and that were supported by the Coalition Partnership. It was determined through the SCNHMP development process that a Steering committee will remain as a viable body to oversee the maintenance aspects of the SCNHMP as established in Chapter 7.2, Part 2 of Volume I. This body will remain as organized in the established ground rules, but will be dynamic in its membership. It is anticipated that there will be turn-over in this membership annually that will be monitored via the progress reporting mechanism. It is also anticipated the Steering Committees role in overall plan implementation will be dynamic, based on the needs of the partnership. At a minimum, the Steering Committee will provide technical review and oversight on the development of the annual progress report. For this reporting period, the Steering Committee Membership is as indicated in table PR-1.

TABLE PR-1.
STEERING COMMITTEE MEMBERS

| Name | Title | Jurisdiction/Agency | Representing |
|---------------------------|----------------------------------|--|--------------------|
| Mike Ganz, Chair | Fire Chief | Camano Island/Stanwood Fire | Coalition Partner |
| Steve Thomsen, Vice-Chair | Director Dept. of Public Works | Snohomish County | Coalition Partner |
| Robin Gordon | Emergency Program Manager | Snohomish County, Department of emergency Management | Stakeholder |
| Diane Boyd | | County Resident | Citizen |
| Dennis Fenstermaker | Fire Chief | Darrington Fire District #24, City of Darrington | Coalition Partner |
| Chuck Steele | Floodplain Management Specialist | Washington Dept. Of Ecology | Agency/Stakeholder |
| Richard Gilmore | | Silver Lake Water and Sewer District | Coalition Partner |
| Paul Reasoner | | Marshland Flood Control District | Coalition Partner |
| Tamara Doherty | Deputy Director | Snohomish County Dept. of Emergency Management | Coalition Partner |
| | | | |
| | | | |

I.) Natural Hazard Events within the Planning Area

During the reporting period, there was one Presidential declared event that impacted the planning area. DR-1734 was for the flood events and severe winter storms that occurred during December 2007. The following is a brief discussion of how these events impacted the planning area:

DR-1734-On December 1, 2007, a rather cold air mass was in place over Washington State that was being maintained by a northerly jet stream plunging southward from Alaska and Canada. The series of storms was a result of a gradual transition from the influence of the northerly jet to a westerly jet, which was originating in the subtropics north of Hawaii. Thus, the first system that moved on shore on Saturday was rather cool and resulted in lowland snow. The second system, which was somewhat warmer and wetter, moved onshore late Saturday and early Sunday generating significant mountain snow and increasing lowland rain. The last of the three systems, which struck the Washington coast early Monday, was also the most powerful. It brought tremendous ocean waves and fierce winds to the coast, and torrential rain to both the lowlands and mountain areas on the Olympic Peninsula and in the Cascade Mountains. According to river flood gage data from the National Weather Service, floods of record occurred on the Chehalis River at Centralia, Grand Mound, and Porter.

Snohomish County experienced mostly urban flooding during this event and was deemed eligible for both Public Assistance and Individual Assistance by WAEMD.

II.) Changes in Risk exposure within the Planning Area

The SCNHMP addressed the probable impact for the following natural hazard events within Snohomish County:

- Avalanche
- Dam Failure
- Earthquake
- Flood
- Landslides and other Mass Movements
- Severe Weather
- Tsunami/Seich
- Volcano
- Wildland Fire

During the reporting period, there was no occurrence of any natural hazard event within the planning area that would alter or change the probability of occurrence, or ranking of risk for the natural hazards addressed by the SCNHMP. It should be noted that the occurrence of the flood/landslide events within the reporting period is consistent with the probability of occurrence assigned to these events in the development in the initial plan.

III.) Review of the Action Plan

This section will review the action plan of each planning partner and determine the status of each initiative. The following action plan matrix will provide the following information:

- Brief summary of the initiative
- Time Line
- Priority
- Status

Reviewers of this report should refer to Volume II of the SCNHMP for more detailed descriptions of each initiative and the prioritization process. Under the “status” section of the following section, each planning partner will provide the following comments with regards to each initiative:

- Was any element of the initiative carried out during the reporting period?
- If no action was completed, why?
- Is the timeline for implementation for the initiative still appropriate?
- If the initiative was completed, does it need to be changed or removed from the action plan?

The following matrix will illustrate the time line and priority that was assigned to each initiative by each Coalition Partner during the plan development process. The definitions for the timeline and priorities are as follows:

Time Line

- “***Short term***” = Project can be implemented in 1 to 5 years
- “***Long Term***” = Project implementation will take 5 years or greater to complete

Priority

- ***High Priority***—A project that meets multiple objectives (i.e., multiple hazards), benefits exceeds cost, has funding secured or is eligible for grants from the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation Grant Program (PDM), and can be completed in 1 to 5 years (i.e., short term project) once project is funded.
- ***Medium Priority***—A project that meets goals and objectives, benefits exceeds costs, funding has not been secured and HMGP or PDM grant funding is questionable, and can be completed in 1 to 5 years once project is funded.
- ***Low Priority***—Any project that will mitigate the risk of a hazard, benefits exceed costs, funding has not been secured and project is not eligible for HMGP or PDM grant funding, and time line for completion is considered long term (1 to 10 years).

TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-------------------------------|--|------------|----------|--|---------------------------|
| Countywide Initiatives | | | | | |
| CW-1 | Provide coordination and technical assistance in the application for grant funding that includes assistance in cost vs. benefit analysis for grant eligible projects | Short Term | High | Snohomish County provided technical and grant application assistance to Index, Fire District 5, and the City of Stanwood and the City of Arlington. | O |
| CW-2 | Provide countywide updates to the HIVA that utilizes best available science and technology as new hazard specific data becomes available (i.e.: Avalanche, Tsunami, Landslide) | Short Term | Medium | No actions were implemented under this task during the reporting period. The Science and technology in this field has not advanced to the point to where the current HIVA would be considered obsolete. Elements of this task are more likely to occur at the plan update phase, or as funding opportunities develop. Time line and priority remain as assigned. | X |
| CW-3 | County to assume lead role in the update/re-study of floodplains as a <i>Cooperating Technical Partner (CTP)</i> with FEMA for all Coalition Partners. | Short Term | High | County completed data collection and modeling of update of Skykomish River floodplain as a CTP; presently under FEMA review. County review of DFIRM's process remains underway. | O |
| CW-4 | Provide basin specific floodplain information in the form of an informational brochure to all Coalition Partners annually for dissemination to county floodplain residents and identified repetitive loss areas. This outreach project will be designed according to the CRS criteria for outreach projects. | Short Term | High | Produced and distributed Snohomish County Flood Safety Bulletin brochure in October 2007 to Coalition Partners and to County floodplain residents. Preparing to update this informational brochure for distribution to all Coalition Partners and homeowners in SFHA's in 2008. Time line and priority remain as assigned. | O |
| CW-5 | Sponsor and maintain a natural hazards informational website. | Short term | High | Snohomish County Natural Hazards Mitigation Plan and Annual Progress Reports are provided to the public via Snohomish County website: www.snoco.org/Departments/Public_Works/Division_s/SWM/Work_Areas/River_Flooding/Planning/Count | O |

Completion status legend:

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| | | | | ywide/natural_hazards_plan.htm . DEM is working to create a mitigation specific website as well. | |
| CW-6 | Coordinating with all Coalition Partners, WRIA's and other Stakeholders within the County, seek the acquisition of high risk parcels that could provide significant open space benefits such as the attenuation of the impacts of natural hazards and beneficial environmental functions such as enhancement of habitat for threatened or endangered species. | Long term | Medium | Snohomish County acquired and continues to acquire property at high risk for flooding along the Skykomish River in the Skyview Tracts subdivision near Sultan. These acquired parcels will be maintained as open space that will provide attenuation of flooding impacts and will provide beneficial environmental functions for endangered Chinook Salmon and Steelhead along the Skykomish River. The County and all planning partners continue to target properties for key acquisitions in the future. Time line and priority remain as assigned. | O |
| CW-7 | The SCNHMP Steering Committee. | Short Term | High | The Steering Committee did remain as a viable body and was primarily responsible for the development, overview and approval of this report. It is anticipated that this body's role will be enhanced over the next reporting period to provide technical oversight and coordination of grant applications within the planning area in addition to overseeing the development of the NHMP Update. Time line and priority remain as assigned. | O |
| City of Arlington | | Point of Contact | | Mr. Bill Blake Email: bblake@ci.arlington.wa.us | |
| A-1 | Conduct a seismic study of the City of Arlington fire stations and retrofit or relocate facilities if necessary | Short term | High | The study is complete. Station 48 is going to begin construction soon with an estimated completion date of Fall 2009. Station 46 will be upgraded as well by Fall of 2009. | O |
| A-2 | Adopt and continue to implement the Utility | Short Term | High | Sewer and Water plans operational, stormwater plan | O |

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|-------------------|---|------------|----------|--|---------------------------|
| | Comprehensive Plan | | | still in development. Time line and priority remain as assigned. | |
| A-3 | Increase the capacity of culverts at Jensen Business Park and create wetlands. | Short Term | High | Wetland was created to reduce flooding risk; culverts will still need to be replaced. Looking for funding source to replace the culverts. Time line and priority remain as assigned. | O |
| A-4 | Enhance and update Snohomish County Hazard Inventory and Vulnerability Analysis (HIVA) as it pertains to Arlington. | Short Term | Medium | Will work with Sno. Co. DEM, Surface Water and ACE to gather information in regards to changes in the River system as well as other hazards and insert them into the Co. HIVA during the next scheduled update. Time line and priority remain as assigned. | O |
| A-5 | Ensure redundancy in communication and data for all critical facilities by upgrading generators | Short Term | Medium | Station 47 received a permanent generator via an AFG grant. Applied for generator for Station 46 via AFG grant 07. Have a portable generator to run the phone system at the PW facility if needed or it can be taken where the need is the greatest (fueling stations etc.). Police and Council Chambers have a generator that can run up to 5 days to maintain Continuity of Government. Time line and priority remain as assigned. | ✓ |
| A-6 | Seismic retrofit older homes in the Arlington Old Town Area. | Long Term | Medium | This is a private landowner issue, but City building department will encourage retrofit if a hazardous situation is recognized | O |
| A-7 | Work to enhance and maintain the Johnson Levy. | Short term | Medium | Corps of Engineers has visited site and verbally approved repair action, awaiting a Hazard Mitigation grant opportunity to complete the work. Time line and priority remain as assigned. | O |
| A-8 | Join Community Rating System | Long Term | Low | We will contact FEMA to set up a time for a CRS interview/meeting. We will then work to address any deficiencies necessary to get the City within the | O |

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|---------------------------|--|------------------|----------|--|---------------------------|
| | | | | parameters needed to be able to join the CRS. Time line and priority remain as assigned. | |
| Town of Darrington | | Point of Contact | | Mr. Dennis Fenstermaker, Fire Chief 360-436-1338Email: dfenstermaker.firedist24@hotmail.com | |
| D-1 | Construct 2nd water storage facility to increase fire flow capabilities and storage capacity. | Short Term | High | Construction of 2 nd water storage facility is complete. | ✓ |
| D-2 | Ensure that water system is available and critical facilities are by obtaining generators. | Short Term | High | Generator purchased and waiting for funding to intall. | O |
| D-3 | Create evacuation routes for the community in the event of a volcano. | Short Term | High | Routes identified. Requested and waiting to receive evacuation route signage from the County. Timeline and priority remain as assigned. | O |
| D-4 | Enhance and improve Zoning and Development Standards to include regulations that will mitigate or reduce exposure/vulnerability to natural hazards | Short Term | High | See D-7. Shoreline plan meets major needs of the Town of Darrington. Timeline and priority remain as assigned. | O |
| D-5 | Create a partnership with fire district, school district and the sheriff's department to develop an emergency plan of action | Short Term | High | Partnership meets every month. Timeline and priority remain as assigned. | O |
| D-6 | Create or enhance public information programs that will promote preparedness and mitigation of risk from Natural hazards. | Short Term | Medium | Conducts a CERT class for the community each year. Timeline and priority remain as assigned. | O |
| D-7 | Create and maintain the Shoreline Management Plan | Short Term | Medium | Plan complete, submitted to Dept. of Ecology for final approval. Timeline and priority remain as assigned. | O |
| D-8 | Join Community Rating System | Long Term | Medium | No action reported on this initiative during this reporting period. The initiative is still considered to be long term, with medium priority. | X |

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|------------------------------|---|------------------|--|--|---------------------------|
| City of Goldbar | | Point of Contact | Mr. John Light, Director of Public Works 360-793-1101 Email: j.light.goldbar@verizon.net | | |
| GB-1 | Feasibility Study on what to do about Gold Bar Dike | Short Term | Low | The dike has been reinforced in danger area. | ✓ |
| GB-2 | Set up Surface Water Utility for Drainage | Short Term | High | Planning commission is working on rate study. Timeline and priority remain as assigned. | O |
| GB-3 | Develop and implement a public information/education strategy on preparedness and mitigation of natural hazards | Short Term | High | Council member Woods is working on preparedness. Timeline and priority remain as assigned. | O |
| GB-4 | Replace wood stove water reservoir #3 with new reservoir built to seismic code. | Short Term | High | We have CDBG grant for \$250,000. Working to obtain USDA grant for around \$1,400,000 for project. Timeline and priority remain as assigned. | O |
| GB-5 | Seismic retrofit of vulnerable water transmission mains. | Long Term | Medium | Plan to be included in water comprehensive plan update. Timeline and priority remain as assigned. The transmission mains can now be isolated at the May Creek Bridge located on 1 st Ave. | O |
| GB-6 | Adopt the Snohomish County Skykomish River Comprehensive Floodplain Management Plan | Short Term | High | No progress to report on this initiative at this time. Time line and priority remain the same. | X |
| GB-7 | Join Community Rating System (CRS) | Long Term | Medium | No progress to report on this initiative at this time. Time line and priority remain the same. | X |
| GB-8 | "GIS" capability at the City of Gold Bar Level | Long Term | Low | In the process of upgrading the city computer system. This will be added in the near future. | O |
| City of Granite Falls | | Point of Contact | Mr. Lyle Romack, Mayor or Lotta Hines 360-691-6441; FAX 360-691-6441 Email: lyleromack@cityofgranitefalls.com or lottahines@cityofgranitefalls.com | | |

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| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|----------------------|--|------------------|---|---|---------------------------|
| GF-1 | Determine structural vulnerability of older structures on NEHRP D and E soils and seismic retrofit. | Long Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| GF-2 | Replace or retrofit vulnerable critical utility infrastructure | Long Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| GF-3 | Educate the public on vegetation management practices to reduce risk to homes. | Short Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| GF-4 | Maintain and clear storm drains and culverts | Short Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| GF-5 | Promote open space uses in identified high hazard areas by use of setbacks, greenways and environmentally sensitive areas. | Short Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| GF-6 | Promote non-structural retrofitting for structures on NEHRP D and E soils | Long Term | Low | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| GF-7 | Educate the public on fire prevention and policy by: a) Restricting hazardous activities during high risk times and b) Encouraging residents to store water on-site and clear defensible space along structures c) Manage fuel loads through Controlled burns or harvesting. | Short Term | Low | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| Town of Index | | Point of Contact | Ms. Lisa Stowe, Clerk, Treasurer 360-793-2488 Email: index@premier1.net | | |
| I-1 | Acquisition of land and removal of flood-prone structures or elevation of structures | Long Term | High | No land in flood prone areas has come up for acquisition. Riprap has been repaired again; Index has applied for a hazard mitigation grant. Time line and priority remain as assigned. | O |

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|-------------------|--|------------|----------|---|---------------------------|
| I-2 | Control land use in flood prone areas by: a) creating zoning setback provisions; b) designating greenways or open spaces to minimize stream bank erosion and; c) providing additional buffering against the effects of overflows. | Long Term | High | Index is currently beginning the update process for the Comprehensive Plan, which will be followed by updating the Critical Areas Ordinance to further protect these areas. Priority and timeline remain as assigned. | O |
| I-3 | Re-vegetate along the riverbanks to reduce erosion, re-direct water flows and strengthen current armoring. | Long Term | High | The Town continues to allow natural vegetation to come back. Pruning, mowing, etc., is limited in these areas. Time line and priority remain as assigned. | O |
| I-4 | Educate the public on fire prevention and policy by: a) Restricting hazardous activities during high risk times and b) Encouraging residents to store water on-site and clear defensible space along structures c) Manage fuel loads through Controlled burns or harvesting. | Short Term | Medium | The Snohomish County Fire Department located in Index handles the fire prevention and education aspects of this for the Town. They also regulate burn bans and permits. The annual Index newsletter that goes out to all residents carries information on water management and fire prevention, and this information is available at the Town Hall. Index has not yet researched managing fuel loads for areas around Town. That will need interagency involvement as the lands that have high fuel loads are owned by the State Parks and the Forest Service. Time line and priority remain as assigned. | O |
| I-5 | Retrofit existing structures on NEHRP D and E soils | Long Term | Medium | No progress at this time. Time line and priority remain as assigned. | X |
| I-6 | Promote non-structural retrofitting for structures on NEHRP D and E soils | Short Term | Medium | No progress at this time. Time line and priority remain as assigned. | X |
| I-7 | Continue participation in and seek class improvement in CRS | Short Term | Low | Index has successfully completed requirements to improve flood insurance ratings, resulting in a change from Class 8 to Class 6 and reduction of insurance premiums for residents. Time line and priority | O |

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|-----------------------------|--|------------------|---|---|---------------------------|
| | | | | remain as assigned. | |
| City of Lake Stevens | | Point of Contact | Mr. Dave Ostergaard, Public Works Director 425-334-1012 Email: dostergaard@ci.lake-stevens.wa.us | | |
| LS-1 | Provide back-up power generation for critical infrastructure and facilities. | Long Term | High | Police Department has a small generator for the phone system and computers only. | O |
| LS-2 | Manage city-owned vegetation by trimming trees back from city property near or next to privately owned property. | Short Term | High | Completed with ongoing maintenance being performed. | ✓ |
| LS-3 | Maintain city drainage facilities by developing a vegetation management program. | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| LS-4 | Develop a Regional Stormwater Plan and construct a regional stormwater detention facility. | Long Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| LS-5 | Upgrade stormwater drainage infrastructure in areas of urban flooding. | Long Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| LS-6 | Join Community Rating System | Long Term | Low | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| City of Marysville | | Point of Contact | Ms. Kari Chennault, Program Engineer Surface Water 360-651-5100 Email: kchennault@ci.marysville.wa.us | | |
| Ma-1 | Construct a Regional Detention Pond. | Short Term | High | Completed construction of first regional pond (October 2004); design and construction of a second regional detention pond occurred during the reporting period. This action is considered complete. | ✓ |

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| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-----------------------|---|------------------|---|---|---------------------------|
| Ma-2 | Upgrade and expand wastewater treatment plant to current seismic design standards | Short Term | High | This project was completed during first report period. | ✓ |
| Ma-3 | Construct the North End 240 Zone Reservoir | Short Term | High | Completion of this project occurred during the reporting period. | ✓ |
| Ma-4 | Create the North Marysville Master Drainage Basin Plan | Short Term | High | This project was completed during first report period. | ✓ |
| Ma-5 | Enhance and update Snohomish County Hazard Inventory and Vulnerability Analysis (HIVA) as it pertains to Marysville | Short Term | High <i>Medium</i> | No progress to report on this initiative at this time. Time line and priority remain the same. | X |
| Ma-6 | Enhance and improve Development Standards to include regulations that will mitigate or reduce exposure/vulnerability to natural hazards | Short Term | Medium | Updated Critical Area ordinance in May 2005. This initiative is considered to be complete. | ✓ |
| Ma-7 | Create or enhance public information programs that will promote preparedness and mitigation of risk earthquakes | Short Term | Medium | Progress was made towards creation of this public information during the reporting period. However no implementation of the outreach occurred. Time line and priority remain as assigned. | O |
| Ma-8 | Update Shoreline Management Ordinance | Short Term | Medium | Completion of the update to the shorelines management ordinance occurred during the reporting period. This task is considered to be complete. | ✓ |
| Ma-9 | Join Community Rating System | Long Term | Low | No progress to report on this initiative at this time. Time line and priority remain the same. | X |
| City of Monroe | | Point of Contact | Mr. Brad Feilberg, City Engineer 360-863-4540 Email: bfeilberg@ci.monroe.wa.us | | |
| Mo-1 | Implement policies and recommendations of the Snohomish River Comprehensive Flood Control Management Plan as they pertain to | Short Term | High | All policies and recommendations pertaining to the City of Monroe have been implemented. | ✓ |

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| | the City of Monroe | | | | |
| Mo-2 | Acquire/relocate the Monroe Motel repetitive Loss property | Short Term | High | Property owner not interested in selling. | X |
| Mo-3 | Construct Floodwall around Terrace Street Apartments Building | Short Term | High | No funding available. | X |
| Mo-4 | Enhance and update Snohomish County Hazard Inventory and Vulnerability Analysis (HIVA) as it pertains to Monroe | Short Term | High | Work in progress, expected completion December 2008. | O |
| Mo-5 | Enhance and improve Development Standards to include regulations that will mitigate or reduce exposure/vulnerability to natural hazards | Short Term | Medium | Completed and adopted critical area regulations. | ✓ |
| Mo-6 | Seismic retrofit of approximately 149,000 LF of vulnerable water mains. | Long Term | Medium | Completed replacement of 2,000 feet of water main. Time line and priority remain as assigned | O |
| Mo-7 | Create or enhance public information programs that will promote preparedness and mitigation of risk from Natural hazards. | Short Term | Medium | Presented preparedness information at two community events. Time line and priority remain as assigned | O |
| Mo-8 | Update Shorelines Master Plan | Short Term | Medium | Completed and adopted 10/23/2007. | ✓ |
| City of Snohomish | | Point of Contact | Mr. George Perillo, Emergency Management Coordinator Email: perillo@ci.snohomish.wa.us | | |
| So-1 | Determine vulnerable critical city facilities and seismic retrofit these facilities. | Long Term | High | The City is in the progress of determining those facilities in need of seismic retrofit. This is still in the identification and feasibility phase of this initiative. Time line and priority remain as assigned. | O |

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|-------------------|---|-----------------------------------|----------|---|---------------------------|
| So-2 | Determine vulnerable sewer and water infrastructure and replace or harden. | Long Term | High | The City is in the progress of determining those facilities in need of retrofit. This is still in the identification and feasibility phase of this initiative. Time line and priority remain as assigned. | O |
| So-3 | Stabilize slope and prevent erosion along waterfront area by creating constructing a trail. | Short Term | High | Completion of this initiative occurred during the reporting period. | ✓ |
| So-4 | Construct a water line inter-tie in order to create redundant source of water supply. | Long Term | High | South pressure zone completed, north pressure zone to be looked at in 2009. | O |
| So-5 | Institute low impact development techniques in vulnerable areas. | Short Term On-going | Medium | The city continues to consider LID techniques based on feasibility and capability for all new development. The time line for this initiative should be considered "on-going", and the priority remains as assigned. | O |
| So-6 | Construct a pump station to convey combine sewer overflows along the Snohomish River. | Long Term | Medium | In progress; scheduled for 2009 construction. | O |
| So-7 | Create or enhance public information programs that will promote preparedness and mitigation of risk from Natural hazards. | Short Term | Medium | In Progress. Time line and priority remain as assigned. | O |
| So-8 | Promote non-structural retrofitting of private property. | Short Term | Medium | No action on this initiative completed during the reporting period. Time-line and priority remain as assigned. | X |
| So-9 | Develop a map of critical routes through the city. | Long Term | Medium | Done | ✓ |
| So-10 | Create and maintain a partnership with Washington State Department of Transportation (WSDOT) to ensure Highway 2 and 9 bridges are seismically retrofitted and maintained | Long Term | Medium | None of the bridges belong to the City of Snohomish. WSDOT has been informed of the need for upgrade. Time line and priority remain as assigned. | O |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-------------------------|---|------------------------------------|--|--|---------------------------|
| So-11 | Join the Community Rating System | Short Term Long Term | Low | No action on this initiative completed during the reporting period. Time-line has been changed as indicated. | X |
| City of Stanwood | | Point of Contact | Mr. Mike Ganz, Fire Chief 360-629-3008 Email: m ganz@camanofire.com | | |
| St-1 | Relocate City Hall/Police Station out of floodplain and seismic risk zones | Short Term | High | Plans are being made to build new City Hall/Police Station in City of Stanwood. While a specific location has not been selected, the city will use both location and architectural design to mitigate the seismic and flood risks. The City EOC is located in seismically sound fire station built in 2003 and is located out of flood plain to maintain continuity of government during disasters. Time line and priority remain as assigned. | O |
| St-2 | Enhance flood threat recognition system on Stillaguamish River to allow for phase warning capability. | Long Term | Medium | The City participates with the county flood warning center – a regional early warning center, and will continue to look for additional warning options along with continued participation in the county program. | O |
| St-3 | Update Emergency Response plan to include “phase” warning protocol | Short Term | Medium | A new Emergency Operations Plan (EOP) for City of Stanwood has been drafted incorporating a phased warning and activation protocol for City EOC. Time line and priority remain as assigned. | O |
| St-4 | Create a Public Information/education strategy on preparedness/mitigation of natural hazards. | Short Term | High | A Public Information Annex to the EOP has been drafted. Map Your Neighborhood and CERT programs, Community Disaster and Pan Flu Task Force have been developed to educate and improve preparedness level of local citizens. Mayor held a Preparedness Public Forum Jan. 07. Time line and priority remain as assigned. | O |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-----------------------|--|------------------|--|---|---------------------------|
| St-5 | Update Emergency Operations Center to increase capability and redundancy. | Short Term | High | The EOC plan and capability expansion efforts are currently in progress. ICS and incident status boards have been purchased. Time line and priority remain as assigned. | O |
| St-6 | Seismic Retrofit of water distribution system | Long Term | Medium | Ongoing water main replacement per Stanwood Water Comprehensive Plan. Annual PVC and concrete asbestos pipe replacements are on-going as funds permit (up to \$100,000 per year projected to last 8-15 years). Time line and priority remain as assigned. | O |
| St-7 | Implement recommendations in the Stillaguamish Comprehensive Flood Hazard Management Plan where appropriate to the City of Stanwood. | Long Term | High | Ongoing work with Snohomish County Surface Water in regards to SCFHMP. Time line and priority remain as assigned. | O |
| St-8 | 8. Join the Community Rating System | Long Term | Medium | City is a member of NFIP and will receive a Community Assistance Visit (CAV) in September. Following a CAV the city will complete the CRS checklist with Insurance Services Office assistance and request CRS enrollment. | O |
| St-9 | 9. Join the NOAA "Tsunami Ready" program | Long Term | Medium | City is in the process of inventorying existing warning assets and completing hazard specific plans needed to comply with national Weather Service Storm/Tsunami Ready programs. Time line and priority remain as assigned. | O |
| City of Sultan | | Point of Contact | Ms. Deborah Knight, City Administrator 360-793-2231 Email: deborah.knoight@ci.sultan.wa.us | | |
| Su-1 | Implement policies and recommendations identified in the City of Sultan | Short Term | High | Aided citizens with ICC claims, two elevated, three others are a work in progress. Time line and priority remain as assigned. | O |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-------------------|--|------------|----------|--|---------------------------|
| | Comprehensive Floodplain Management and Repetitive Flood Loss Plans | | | | |
| Su-2 | Acquire, relocate or retrofit identified repetitive flood loss properties | Short Term | High | Bought out and demolished single family resident 101 Main Street. Purchasing SFR at 105 2 nd St (2008). Demolition scheduled for 2008. Time line and priority remain as assigned. | O |
| Su-3 | Provide the citizens of Sultan access to “web-based” information on natural hazards. | Short Term | High | Have listed all elevations certificates on interactive FIRM on City web-site. Time line and priority remain as assigned. | O |
| Su-4 | Relocate Police Station out floodplain and Seismic vulnerable soils areas of Town. Possible Joint Facility with Fire Station | Long Term | High | Fire department is moved police has not. The City will continue to pursue a joint facility. Time line and priority remain as assigned. | O |
| Su-5 | Update, enhance and adopt the City’s Emergency response Plan based on the most current information and to include identification of multi-hazard evacuation routes | Short Term | High | Created evacuation route map and included in the City’s emergency Operations Plan as an update. Time line and priority remain as assigned. | O |
| Su-6 | Create an alternate evacuation Route out of Sultan (Clay Hill) | Long Term | Medium | Created evacuation route map and included in the City’s emergency Operations Plan as an update. Time line and priority remain as assigned. | O |
| Su-7 | Promote flood insurance and the accurate rating of flood insurance by providing certified elevation data on all structures in the floodplain | Long Term | Medium | Preparedness flyer created and sent to all floodplain residents. This flyer included information and promotion of Flood Insurance per CRS guidelines. | O |
| Su-8 | Enhance ongoing outreach programs to include information on preparedness for and mitigation of the impacts of all natural hazards that impact the city of Sultan. | Short Term | Medium | Preparedness flyer created and sent to all floodplain residents. | O |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-------------------------|--|------------------|--|---|---------------------------|
| Su-9 | Seismic retrofit of vulnerable water mains within Sultan | Short Term | Medium | No action was taken on this initiative during the reporting period primarily due to the lack of funding. Time line and priority remain as assigned. | X |
| Su-10 | Promote mitigation of private property within Sultan by providing incentive, and seeking alternative ways to fund mitigation efforts within Sultan | Long Term | Medium | Made grant application for buy-out of 105 2nd Street. Providing assistance to private property owners with ICC claims. Time line and priority remain as assigned. | O |
| Su-11 | Continue to participate in the Community Rating System with emphasis on improving classification and premium discount | Long Term | Medium | ISO rating increased to 7 for CRS grade. Made application to ISO for better CRS grade, may get to 6 rating, 20% premium reduction. Time line and priority remain as assigned. | O |
| Snohomish County | | Point of Contact | Ms. Robin Gordon, Emergency Program Manager 425-388-5071 Email: robin.gordon@co.snohomish.wa.us | | |
| SC-1 | Implement recommendations identified in the Snohomish, Stillaguamish River and other adopted Comprehensive Flood Hazard Management Plans. | Short Term | High | Continued to implement additional acquisitions at Skyview Tracts along Skykomish River. Maintained CRS classification 5 rating. Received a FEMA PDM grant to elevate 4 Repetitive Loss structures in the French Slough area along the Snohomish River. Time line and priority remain as assigned. | O |
| SC-2 | Seismic Retrofit of Snohomish County Courthouse complex. This includes 4 buildings. | Long Term | Medium | Began discussions with committee regarding retrofit of Carnegie Library Building. Other grant funding was made available through the WA State Historical Society & other grants. No further discussions on other county buildings at this time. Time line and priority remain as assigned. | O |
| SC-3 | Retrofit seismic and flood vulnerable buildings (including grandstands) on the | Long Term | High | Seismic retrofit of rabbit barn and repaired retrofit of grandstands at Evergreen State Fairgrounds (post 2001 earthquake). Reported complete in 2006 | ✓ |

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|-------------------|---|------------|----------|--|---------------------------|
| | Evergreen State Fairgrounds and at McCollum Park. | | | update. | |
| SC-4 | Retrofit seismically vulnerable buildings, including the YMCA, at the Paine Field Airport | Long Term | High | Implemented seismic upgrade to water tank (standpipe); joint project with Mukilteo Water District completed in 2006. Feasibility study underway for retrofit of gym (YMCA). Time line and priority remain as assigned. | O |
| SC-5 | Seek to include appropriate regulatory standards, through ongoing critical areas ordinance and growth management ordinance updates. | Short Term | High | Adopted Critical Areas Ordinance update to complete Growth Management Ordinance updates. Time line and priority remain as assigned. | O |
| SC-6 | Join the Community Rating System | Short Term | High | Maintained CRS Classification of 5. This action considered to be completed. | ✓ |
| SC-7 | Join NOAA's "Storm Ready" and "Tsunami Ready" programs | Short Term | High | Maintained National Weather Service "Storm Ready" designation. This action considered to be completed. | ✓ |
| SC-8 | Inform and educate the public on hazard mitigation and preparedness via a County operated website | Short Term | High | DEM hazard mitigation website design is underway. Maintained River Flood Warning Program via County website (www.floods.surfacewater.info). Time line and priority remain as assigned. | O |
| SC-9 | Acquire, relocate, or retrofit repetitive flood loss properties and those at risk to channel migration | Long Term | High | Received a FEMA PDM grant to elevate 4 Repetitive Loss structures minimum of 1 foot above the BFE. Completing project to elevate 1 Repetitive Loss structure along the Stillaguamish River under an HMGP grant. Time line and priority remain as assigned. | O |
| SC-10 | Develop and disseminate annually a floodplain resident informational brochure. | Short Term | Low | Updated "Snohomish County Flood Safety Bulletin" and distributed to floodplain residents (7400) and SCNHMP Coalition Members in October 2007. Time line and priority remain as assigned. | O |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-------------------|---|------------|----------|---|---------------------------|
| SC-11 | Integrate goals, objectives and initiatives of the Snohomish County Natural Hazards Mitigation Plan into existing regulations and programs where appropriate. | Short Term | Medium | Snohomish County Comprehensive Plan Update (2005) integrated many of the goals, objectives, and initiatives of the SCNHMP. The Critical Areas Ordinance, adopted in 2007, also incorporated goals, objectives, and initiatives of the SCNHMP. Time line and priority remain as assigned. | O |
| SC-12 | Relocate County owned critical facilities out of identified high hazard risk zones. | Long Term | Medium | Relocated a County owned Public Works field equipment operations and maintenance facility to a more strategic location. | O |
| SC-13 | Enhance the Flood Warning System on major rivers within Snohomish County | Long Term | Low | Received a NOAA grant to enhance the Flood Warning System to upgrade and expand the system. Upgrade and expansion underway. Added a new flood warning gage on the Pilchuck River. Time line and priority remain as assigned. | O |
| SC-14 | Update and enhance Snohomish County Emergency Response plan to include “phase” warning along major rivers. | Long Term | Medium | Update remains underway. Time line and priority remain as assigned. | O |
| SC-15 | Retrofit vulnerable road and bridge facilities, especially those known to access isolated populations. | Long Term | Medium | Three additional bridge replacement projects have been completed, replaced and rebuilt to current seismic and flood standards, in 2008. They are 1.) Swanson Road Bridge #80; 2.) Woods Creek Bridge #445; and 3.) May Creek Bridge in the City of Gold Bar.? We also completed emergency scour repair to Blue Bridge #538. Bridge replacement projects currently in construction include Sauk River Bridge #414 and May Creek Bridge #572. Swamp Creek Bridge #600 is also scheduled to be replaced later on this year. Time line and priority remain as assigned. | O |

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ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|--|---|------------------|---|---|---------------------------|
| SC-16 | Enhance and update HIVA utilizing best available technology to include Tsunami zones and landslide zones. | Long Term | Medium | County climate change study is underway and is intended for inclusion during the update phase. No additional actions were implemented under this task during the reporting period. This task is more likely to occur at the plan update phase, or as funding opportunities develop. Time line and priority remain as assigned | O |
| SC-17 | Develop a Continuity of Operations Plan (COOP) | Short Term | High | Development is underway by Dept. of Emergency Management and all other County Departments at this time. Time line and priority remain as assigned. | O |
| SC-18 | Seek land acquisition opportunities for open space use and preservation in areas of high vulnerability due to multiple risk exposure. | Short Term | High | Implementing land acquisition opportunities for open space use and preservation at Skyview tracts along the Skykomish River. Time line and priority remain as assigned. | O |
| SC-19 | Support programs such as “Tree Watch” that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc | Short Term | Medium | No actions were implemented under this task during the reporting period. Time line and priority remain as assigned. | X |
| SC-20 | Perform feasibility study on incentive options to promote hazard mitigation of private property. | Short Term | Low | No actions were implemented under this task during the reporting period. Time line and priority remain as assigned. | X |
| SC-21 | Promote disclosure of known natural hazards to prospective buyers | Long Term | Medium | No actions were implemented under this task during the reporting period. Time line and priority remain as assigned. | X |
| SC-22 | Implement high priority projects identified in the Drainage Needs Report | Long Term | High | Implemented approximately 43% of projects or a total of 95 projects, identified in the Drainage Needs Report. Time line and priority remain as assigned. | O |
| Snohomish County Fire District #1 | | Point of Contact | Mr. Steve Sherman, Deputy Chief of Prevention 425-551-1232 | | |

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ACTION PLAN MATRIX

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|--|--|------------------|---|---|---------------------------|
| | | | Email: ssherman@firedistrict1.org | | |
| FD1-1 | Purchase emergency generators for all fire stations to assure no interruption in service post hazard incident | Short Term | Medium | All fire stations now have emergency generators. This initiative is now considered complete. | ✓ |
| FD1-2 | Structural Seismic retrofit of Fire stations #21, #22 and #23. | Short Term | Medium | Station 21 is under construction. Stations #22 and #23 scheduled for replacement. Time line and priority remain as assigned. | O |
| FD1-3 | Enhance existing public education program to include preparedness for and the mitigation of the impacts of natural hazards. | Short Term | High | CERT program is active. Two classes per year with up to 20 students per class. Improve County wide partnerships with DEM, Everett, and ESCA. Time line and priority remain as assigned. | O |
| Monroe Fire District #3 | | Point of Contact | Mr. Michael Hill, Captain 360-794-7666 e-mail: mhill@monroefire.org | | |
| FD3-1 | Non Structural seismic retrofit of Fire Stations | Short Term | Medium | Assessment made of offices and storage areas. No actions taken to retrofit at this time. | O |
| FD3-2 | Support County wide initiatives of the SCNHMP | Long Term | High | District continues to support the SCNHMP and it's planning process by participating in the planning process. The time line and priority remain as assigned. | O |
| FD3-3 | Study to determine seismic stability of training tower | Short Term | Medium | Repairs made to exterior of tower. Still need to look at stability of structure. Timeline and priority remain as assigned. | O |
| FD3-4 | Enhance existing Public education program to address preparedness for and the mitigation of the impacts from natural hazards | Short Term | High | Participate actively with City of Monroe in CERT training for community. Timeline and priority remain as assigned. | O |
| Snohomish County Fire District #4 | | Point of Contact | Mr. Mark Collins 360-568-2141 | | |

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ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|--|---|------------------|---|--|---------------------------|
| | | | Email: mcollins@snohomishfire.org | | |
| FD4-1 | Install and update earthquake bracing and sheer walls in all stations. | Short Term | Medium | No action was taken on this initiative during the reporting period due to the lack of funding. The District is seeking funding for this initiative via alternative means. The time line and priority remain as assigned. | X |
| FD4-2 | Support the County-wide Mitigation strategies of the SCNHMP. | Short Term | High | District continues to support the SCNHMP and its planning process by participating in the planning process. The time line and priority remain as assigned. | O |
| FD4-3 | Enhance existing public education program to include preparedness for and the mitigation of the impacts of natural hazards. | Short Term | High | Completed – SCFD4 will continue to provide ongoing CERT and other hazard mitigation training programs to the citizens and Snohomish School District 201 students and staff. | ✓ |
| Snohomish County Fire District #5 | | Point of Contact | Mr. Ron Bertholf or Mr. Merlin Halverson, Fire Chief 360-793-1179 Email: r.bertholf@snofire5.org or m.halverson@snofire5.org | | |
| FD5-1 | Replace/relocate Headquarters Fire Station out of flood/earthquake susceptible risk zones. | Short Term | High | Property has been purchased. Meets all flood and seismic requirements. Time line and priority remain as assigned. | O |
| FD5-2 | Build a VHF regional emergency radio system | Short Term | Medium | VHF frequency licensed through FCC. Time line and priority remain as assigned. | O |
| FD5-3 | Replace and expand the dam collapse warning system. | Long Term | Medium | Continuing negotiations with the PUD for replacement of the existing system. Time line and priority remain as assigned. | O |
| FD5-4 | Create Dam Failure Emergency Action Plan. | Short Term | High | School evacuation routes and plans complete. Annual drills ongoing. Evacuation routes and signage for general population in process. Time line and priority remain as assigned. | O |

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|---|--|------------------|---|--|---------------------------|
| FD5-5 | Purchase equipment specifically suited to flood/earthquake rescue and Wildland interface firefighting such as: portable water storage for hauled water operations, portable pumps and generators. | Short Term | Medium | New Tender purchased adding 1000 gallons of additional capacity and improved reliability and safety. Time line and priority remain as assigned. | O |
| Snohomish County Fire District #7 | | Point of Contact | Ms. Janet Jaeger 360-668-5357 Email: jjaeger@firedistrict7.com | | |
| FD7-1 | Create an education program for the people, focusing on risk education for hazards and public assistance programs. | Short Term | High | Action on this initiative was completed during the reporting period by holding CERT classes and the Fire District has hired a public safety educator. Waiting for a rehire; CERT program is continuing. The time line and priority remain as assigned. | O |
| FD7-2 | Work with the water districts to develop an updated hydrant system, focusing on areas lacking in hydrants, such as: Sunset Rd., Strumme Rd. to 161st, Elliott Rd, High Bridge Rd., and the Crystal Lake community. | Long Term | Medium | This project progressed due to the growth and construction in the area. Hydrants and water mains have been installed in the new housing developments. Hydrant and water mains are mandatory by code for new developments. Water District has no plans to extend water mains and hydrants into existing developments at this time. The time line and priority remain as assigned. | O |
| Snohomish County Fire District # 14 (Merged with Fire District # 18 into North County Regional Fire Authority) | | Point of Contact | Chief Dale Fulfs 360-652-1246 Email: dfulfs@northcountyfireems.com | | |
| FD14-1 | Seismic Retrofit Station 96 | Short Term | Medium | No progresses at this time due to lack of funding. The priority on this initiative has been changed to medium until such a time a funding source can be identified | X |

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| FD14-2 | Support County-wide initiatives of SCNHMP | Short Term | High | District continues to support SCNHMP and its planning process by participating in the planning process. The time line and priority for this initiative remain as assigned. | O |
| Snohomish County Fire District #17 | | Point of Contact | Mr. Rick Hjelle 360-691-5553 Email: scfpd17@aol.com | | |
| FD17-1 | Replace 100 year old, un-reinforced masonry section of Headquarters fire station. | Long Term | Medium | No progress to report on this initiative at this time due to lack of funding. Time line and priority remain the same. | X |
| FD17-2 | Purchase emergency generator for headquarters fire station/Community EOC. | Short Term | High | No progress to report on this initiative at this time due to lack of funding. Time line and priority remain the same. | X |
| FD17-3 | Create a Public education program focusing on risk and preparedness education for natural hazards and public assistance programs. | Short Term | High | No progress to report on this initiative at this time due to lack of funding. Time line and priority remain the same. | X |
| Snohomish County Fire District # 18 (Merged with Fire District # 18 into North County Regional Fire Authority) | | Point of Contact | Chief Dale Fulfs 360-652-1246 Email: dfulfs@northcountyfireems.com | | |
| FD18-1 | Construct water tower in extreme urban wild land interface area of District. | Short Term | Medium | No progresses at this time due to lack of funding. The priority on this initiative has been changed to medium until such a time a funding source can be identified | X |
| FD18-2 | Promote and support the “Fire Wise” program within district and seek District Certification | Long Term | Medium | Fire District 18 continues to promote the “Fire-Wise” program within the district. Firewise certification has not yet been obtained due to limited resources. The District will continue to pursue certification in the near future. The priority and time-line for this | O |

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|---|---|------------------|--|--|---------------------------|
| | | | | initiative remain as assigned. | |
| Snohomish county Fire District #19 | | Point of Contact | Mr. Keith Strotz 360-652-8277 Email: kstrotz@firedistrict.com | | |
| FD19-1 | Retrofit District Facilities for earthquake. | Short Term | High | On going, no advancement to date. The time line and priority remain the same. | O |
| FD19-2 | Flood proof station #95 | Short Term | High | On going, no advancement to date. The time line and priority remain the same. | O |
| FD19-3 | Support the County-Wide mitigation Initiatives of the SCNHMP | Short Term | High | The district continues to support SCNHMP and its planning process. The time line and priority remain the same. | O |
| Snohomish County Fire District #21 | | Point of Contact | Mr. Scott Hillis 360-435-3311 Email: shillis@ci.arlington.wa.us | | |
| FD21-1 | Water source containment (Water Tanks) in identified vulnerable portions of the District (urban-wild land interface areas). | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| FD21-2 | Public education on fire prevention, and creation of defensible spaces in interface areas. | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| Snohomish County Fire District #24 | | Point of Contact | Dennis Fenstermaker 360-436-1338 Email: dfenstermaker.firedist24@hotmail.com | | |
| FD24-1 | Retrofit fire station from severe weather storms. | Short Term | High | General maintenance is conducted; however no action on the retrofit occurred during the reporting period. Time line and priority remain as assigned. | X |
| FD24-2 | Retrofit fire station from forest fires. | Long Term | Medium | General maintenance is conducted; however no action on the retrofit occurred during the reporting period. Time line and priority remain as assigned. | X |

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|---|---|------------------|--|---|---------------------------|
| Snohomish County Fire District #25 | | Point of Contact | Chief Baker 360-435-9513 Email: osofire@glacierview.net Mail: 21824 State Route 530 NE, Arlington, WA 98223 | | |
| FD25-1 | Fire hall seismic retrofit | Long Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| Snohomish County Fire District #26 | | Point of Contact | Mr. Eric Andrews (or Ms. Wendy Enyart) 360-793-1335 (or 425-327-1705) Email: andrews@snofire26.org (or wenvart@snofire26.org) | | |
| FD26-1 | Seismic Retrofit of Station 53 | Short Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| FD26-2 | Emergency generator for Station 53 | Short Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| FD26-3 | Food/Lodging up to 200 people | Short Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| Snohomish County Fire District #27 | | Point of Contact | Mr. Mike Worthy 425-743-1877 Email: scfpd27@hatisland.com | | |
| FD27-1 | Seismic retrofit of Station | Short Term | High | No action was taken on this initiative during the reporting period primarily due to the lack of funding. Time line and priority remain as assigned. | X |
| FD27-2 | Replace existing “patchwork” water lines in District covered area to 6” | Long term | High | Limited work has been conducted on the water system. Time line and priority remain as assigned. | O |
| Snohomish County Fire District 28 | | Point of Contact | Mr. Ernie Walters 360-793-0866 Email: fire28@premier1.net | | |
| FD28-1 | Place above-ground Utilities Underground | Long Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |

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|--|---|------------------|---|--|---------------------------|
| FD28-2 | Flood-Proof Generator Room | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| FD28-3 | Purchase additional satellite phones | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| FD28-4 | Support County-wide initiatives of the SCNHMP | Short Term | High | District continues to support the SCNHMP and its planning process by participating in the planning process. The time line and priority remain as assigned. | O |
| Alderwood Water/Wastewater District | | Point of Contact | Mr. Arden Blackledge 425-743-4605 Email: ablackledge@alderwoodwater.com | | |
| AW-1 | Sewer Structure Seismic Reinforcement | Short Term | High | No progress was made during the past reporting period; however the project is in planning. Time line and priority remain as assigned. | O |
| AW-2 | Sewer Lift Station Seismic Retrofit | Short Term | High | Requires a complete replacement, which design should be complete by end of the year. Time line and priority remain as assigned. | O |
| Cross Valley Water District | | Point of Contact | Mr. Gary Hajek 360-668-6766 Email: gary@crossvalleywater.net | | |
| CV-1 | Relocation of water mains out of floodway and erosion prone areas | Short Term | High | Work has begun on Phase I of this relocation project. Bids to be opened August 29, 2008. This remains a high priority, short term project. | O |
| CV-2 | Seismic upgrades/retrofits to vulnerable District facilities | Long Term | High | Planning in progress | O |
| CV-3 | Purchase Emergency Generators | Short Term | Medium | No progress was made during the past reporting period. | X |

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| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|---|--|------------------------------------|--|--|---------------------------|
| CV-4 | Purchase 800 MHz Radios | Short Term | Medium | No progress was made during the past reporting period. | X |
| Highland Water District | | Point of Contact | Mr. Bob Shonka 360-794-6900 Email: bobshonka@seanet.com | | |
| HWD-1 | Reservoir #2 seismic retrofit | Short Term Long-Term | High Medium | Not Completed. Priority and time-line have been changes as indicated. | X |
| HWD-2 | Booster Station #2 seismic retrofit | Long Term | High Medium | Not Completed. Priority has been changed as indicated. | X |
| HWD-3 | Seismic retrofit of 20,000 lineal feet of AC Water mains | Long Term | Medium | Not Completed. Priority and time-line remain as assigned. | X |
| HWD-4 | Install district telemetry system. | Long Term | Medium | Not Completed. Priority and time-line remain as assigned. | X |
| Mukilteo Water District and Wastewater District (Formerly Mukilteo Water District) | | Point of Contact | Mr. Rick Matthews 425-355-3355 Email: rickm@mukilteowater.org | | |
| MWWD-1 | Merge Mukilteo Water District with Olympus Terrace Sewer District | Short Term | High | Merge complete. New District name is now Mukilteo Water and Wastewater District | ✓ |
| MWWD-2 | Repair/replacement of trunk sewer line, rehabilitation of creek bed & slopes, & development of high flow storm water bypass line within Big Gulch in order to protect sewer trunk line and treatment plant infrastructure. | Short Term | High | Project divided into 4 segments. Segment #1 nearing completion, #2 was re-damaged in December 2007 event, #2 and #3 December Storm Damage Repair contract awarded August 2008, #4 in re-design. Main sewer line, redundant sewer, and hi-flow storm water bypass being installed. Time line and priority remain as assigned. | O |
| MWWD-3 | Research/Repair/Re-locate existing Sanitary | Short Term | High | Reliable access to existing L.S. lost during December | O |

Completion status legend:

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-------------------|--|------------|----------|---|---------------------------|
| | Sewer Lift Station #5 and provide permanent access. Existing location/access subject to flooding and landslides. | | | 2007 storm event. District in process of planning and negotiating alternatives and solutions. | |
| MWWD-4 | Repair/Replace terminal 720 LF of 24" diameter existing sewer outfall pipe from WWTP. Project will address earthquake and land mass movement. | Short Term | High | District in process of pre-design and permitting research. | O |
| MWWD-5 | Develop and adopt an Emergency Response Plan to provide emergency access and protect the WWTP from Flooding Events. | Short Term | High | District Staff in process of plan development for submittal in September of 2008 | O |
| MWWD-6 | Revise existing standards and specifications to address Natural Hazard Events effects on access and maintenance of District assets/infrastructure. | Short Term | High | Action on-going at this time. | O |
| MWWD-7 | Reservoir No. 4 Seismic and Security Improvements | Short Term | High | Completed | ✓ |
| MWWD-8 | 86th Place Water Main | Short Term | High | Completed | ✓ |
| MWWD-9 | Reservoir Security and Roof Vent Improvements | Short Term | High | Roof Vents Completed. Security On-Going. Time line and priority remain as assigned. | O |
| MWWD-10 | Reservoir Seismic Improvements | Long Term | High | Completed | ✓ |
| MWWD-11 | Master Meter Check Valve | Short Term | High | Completed | ✓ |
| MWWD-12 | New Smoke/Fire Detectors | Short Term | High | Action On-Going. Time line and priority remain as assigned. | O |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|-----------------------------------|---|------------------|--|---|---------------------------|
| MWWD-13 | Fixture Restraint of Electrical/SCADA Equipment. | Short Term | Medium | Action On-Going. Time line and priority remain as assigned. | O |
| Silver Lake Water District | | Point of Contact | Mr. Richard Gilmore 425-337-3647 Email: rkgilmore@slwsd.com | | |
| SL-1 | IT Redundancy—To be incorporated in our proposed new office facilities scheduled for September 2005 | Short Term | High | Completed. | ✓ |
| SL-2 | Isolation Valves in Earthquake Sensitive Areas—Locations to be determined as other District projects in the vicinity allow the efficient and effective installation of valves to improve District redundancy of service options and reduce vulnerability by decreasing the size of isolation zones. | Short Term | High | On-going, some 12-inch line isolation valves added in this past year. The District will continue to consider this goal and install valves where appropriate with new construction opportunities. Time line and priority remain as assigned. | O |
| SL-3 | Trailer Mounted Emergency High Head Sewage Pump—This facility would serve as a redundant component to our system emergency operation mode for generator operational mode and allow bypass from gravity facilities around main failures due to landslides or other natural hazard events. | Short Term | High | District is incorporating this equipment in our next 5-year CIP. Not yet purchased. The pump trailer unit is currently planned for purchase within one year. Time line and priority remain as assigned. | O |
| SL-4 | Seismic Valve Operators—These facilities would adapt existing valves at our reservoir sites to close on earthquake events containing water reserves until distribution damage can be evaluated. | Short Term | Medium | New reservoir now on line included this equipment, two remaining reservoirs to be upgraded at future undetermined date. Time line and priority remain as assigned. | O |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|------------------------------------|--|------------------|--|--|---------------------------|
| Darrington School District | | Point of Contact | Larry Johnson 360-436-1323 (ext 182) Email: Johnsonl@dsd.k12.wa.us | | |
| DSD-1 | Replace existing LAN frame stand with platform that will give seismic protection to existing equipment. | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| DSD-2 | Install computer monitor lasso straps to keep monitors from falling in seismic event to protect both equipment and students. | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| DSD-3 | Purchase and install generator to sub panel so when there is a loss of power we can use phones, email, to communicate. This will also allow us to keep students warm and feed when there is an extended state waiting for guardians. | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| DSD-4 | To replace hard sewer pipe with flex pipe to three portables to prevent breakage in the event of an earthquake | Long Term | Medium | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| Monroe School District #103 | | Point of Contact | Mr. Ralph Yingling 360-804-2679. Email: yinglingr@monroe.wednet.edu | | |
| MSD-1 | Lightning protection | Short Term | High Medium | No progress on this initiative during the reporting period. | X |
| MSD-2 | Freeze proof cooling towers & fire systems | Short Term | High | Glycol has been added to cooling towers. | ✓ |
| MSD-3 | Seismic retrofits at older facilities including: computer racks, hardware, and equipment; gas valves and fire suppression systems; remove brick chimney systems (2). | Short Term | High Medium | No progress on this initiative during the reporting. | X |

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TABLE PR-2.
ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|---|---|------------------|---|---|---------------------------|
| MSD-4 | Wildfire buffer zones around select sites | Short Term | High Medium | No progress on this initiative during the reporting period. | X |
| MSD-5 | Purchase property and relocate bus garage and fleet | Long Term | Low | No progress on this initiative during the reporting period due to lack of funding. Time | X |
| MSD-6 | Replace 1916 Administration Building in lieu of seismic upgrade | Long Term | Low | No progress on this initiative during the reporting period due to lack of funding. Time | X |
| Northshore Parks & Recreation Service Area | | Point of Contact | Cheri Rondeau Administrative Assistant NORTHSHORE SENIOR CENTER 10201 East Riverside Drive Bothell, WA 98011-3708 425-487-2441 cherir@seniorservices.org | | |
| NS-1 | Prepare and implement a public information strategy focusing on preparedness and response to impacts of natural hazards. Media to be considered are printed media and internet. | Short Term | High | We have offered Emergency Preparedness classes which are listed in our quarterly newsletter mailed to over 5,000 members and community contacts and is also available on-line at our web site. We have recently begun sending a monthly e-Newsletter which could provide pertinent preparedness tips from time to time. | O |
| NS-2 | Prepare an emergency response plan to address impacts from natural hazards. | Short Term | High | We are listed as a warm shelter with the American Red Cross. We have had discussions with the City of Bothell regarding emergency preparedness; however, a response plan is still an on-going project. | O |
| Sultan School District #311 | | Point of Contact | Ms. Marianne Naslund 360-793-9822 Email: mnaslund@sultan.k12.wa.us | | |
| SSD-1 | Update existing audible early warning device | Short Term | High | No action on this initiative during the reporting | X |

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| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|--|---|------------------|---|---|---------------------------|
| | with remote voice override capability. To be utilized for early warning for all hazards, most notably flooding and dam failure. | | | period. Time line and priority remain as assigned. | |
| SSD-2 | Non-structural seismic retrofit of school buildings. | Short Term | High | No action on this initiative during the reporting period. Time line and priority remain as assigned. | X |
| Olympus Terrace Sewer District (Merged with Mukilteo Water District and is changed to Mukilteo Water and Wastewater District) | | Point of Contact | Mr. Greg Bradley 425-353-6637 Email: gbradley@olympusterrace.com | | |
| OT-1 | Repair/replacement of trunk sewer line, rehabilitation of creek bed & slopes, & development of high flow storm water by-pass line within Big Gulch in order to protect sewer trunk line and treatment plant infrastructure. | Short Term | High | See Mukilteo Water and Wastewater District MWWD # 2. | O |
| OT-2 | Critical facilities evaluation. Prioritization of hazard mitigation opportunities to protect critical District infrastructure (less Big Gulch, treatment plant, sewer trunk line within Gulch. Cost of study is estimated at approximately \$125,000. | Short Term | | Postponed pending merge with Mukilteo Water District. See Mukilteo Water and Wastewater District. | O |
| Snohomish County Dike District #2 | | Point of Contact | Ms. Ruth Brandal 425-334-7403 Email: Bisondalen@yahoo.com | | |
| DD2-1 | Re-sloping Dikes | Short Term | High | South end of district has construction of overtopping section underway. Contractors to begin re-sloping work at north end by late summer 07. Time line and priority remain as assigned. | O |

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| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|---|--|------------------------------------|---|---|---------------------------|
| DD2-2 | Sunnyside Pump Station | Short Term Long-term | High Low | Pump station has been abandoned as not fiscally feasible. The time line should be changed to long – term, and priority to low pending identification of feasible alternative. | X |
| DD2-3 | Explore feasibility of restructuring District into flood control District or Dike and Drainage | Short Term | High | No progress on this initiative completed during the reporting period. Time line and priority remain as assigned. | X |
| DD2-4 | Build 3 access roads to Dike | Short Term | High | All 3 roads are under construction summer 07. Time line and priority remain as assigned. | ✓ |
| Marshland Flood Control District | | Point of Contact | Mr. Paul Reasoner 360-568-6044; FAX 360-568-3785 Email: None Address: P.O. Box 85, Snohomish, WA 98291-0085 | | |
| MFCD-1 | Structural retrofit of pump plant and dam | Long Term | High | No progress on this initiative completed during the reporting period. Time line and priority remain as assigned. | X |
| Stillaguamish Flood Control District | | Point of Contact | Mr. Chuck Hazelton 360-652-9233 Email: chaz@snohomish.net | | |
| SFCD-1 | Construct a flood control spillway on existing levee system | Long Term | Medium | Completed construction of flood control spillway on existing levee system. | ✓ |
| French Slough Flood Control District | | Point of Contact | Mr. Neil Wheeler 360-568-5383 Email: neilwheeler@comcast.net | | |
| FS-1 | Repair and maintain existing dikes | Short Term | Medium | FSFC obtained permits to repair damages to dikes from the November 2006 flood event. | O |
| FS-2 | Seismic retrofit study of pump plant | Long Term | Low | Implementation of this initiative has been canceled after review of District priorities. | X |
| FS-3 | Acquisition within Pilchuck Trailer Park | Long Term | Low | Implementation of this initiative has been delayed due to lack of landowner interest. Time-line and | X |

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ACTION PLAN MATRIX

| Action Identifier | Initiative Description | Time Line | Priority | Status | Completion Status (X,O,✓) |
|---|---|------------------|--|---|---------------------------|
| | | | | priority remain as assigned. | |
| FS-4 | Pursue settlement of dike easement issues with landowners | Short Term | Medium | Ongoing with residents along the Pilchuck Trailer Park. | O |
| Snohomish County Health District | | Point of Contact | Mr. Donald Peterson 425-339-8696 Email: don.peterson@shd.snohomish.wa.gov | | |
| SHD-1 | Structural Seismic Retrofit of owned Health District facilities | Long Term | Medium | Not started – pending funding. The time line and priority remain as assigned. | O |
| SHD-2 | Non-Structural Seismic retrofit of District facilities | Short Term | High | This action was completed. | ✓ |

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IV.) Changes within the Planning area that may impact implementation of the plan

During the reporting period, there were no significant changes within the planning area that would have a profound impact on the implementation of the plan. All technical, regulatory and financial capabilities identified by the Coalition Partnership during the plan's development remain consistently in place throughout the planning area.

As mentioned in the progress report for the last reporting period, oversight of the SCNHMP implementation continues to transition over to Snohomish County Department of Emergency Management (DEM). This effort will include monitoring the plan's progress, coordination within the partnership on hazard mitigation activities and all phases of emergency management. DEM will continue to be supported by the Surface Water Management Division of the Department of Public Works and other county agencies as deemed appropriate. The DEM designated SPOC is:

Ms. Robin Gordon

Emergency Program Manager
Snohomish County Dept. of Emergency Management
3509 109th St. SW
Everett, WA 98204
425-388-5071 Cell: 425-508-7685
Fax: 425-423-9152
robin.gordon@co.snohomish.wa.us

V.) Recommendations for Changes or Enhancements

Based on the review of this report by the SCNHMP Steering Committee, the following recommendations will be noted for future updates or revisions to the plan.

Consider expanding the planning partnership to include Island County.

Include in the plan a funding matrix that illustrates the various mitigation grant programs (FEMA and non-FEMA) and the types of projects they will fund.

Enhance the one-on-one technical assistance to all planning partners through DEM mitigation programs.

Need to clearly identify benefits of being a planning partner and convey these benefits to all partners as the partnership prepares to update the SCNHMP.

Need to enhance the definition of planning partner "participation" to clearly identify the duties and responsibilities of each planning partner through the plan update process as well as progress reporting process.

Enhance the mitigation catalog such that it illustrates example projects that are applicable to the various planning partner types in the partnership. For example, what are examples of good, cost effective projects for Fire Districts, Water Districts, School Districts, etc.

Public review notice: *The contents of this report are considered to be public knowledge and have been prepared for total public disclosure. Copies of the report have been provided to: The governing bodies of all planning partners, the local media outlets, and posted on the Snohomish County website. Any questions or comments regarding the contents of this report should be directed to:*

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