Chapter 5: Capability Assessment

The purpose of conducting the capability assessment is to identify the strengths and weaknesses of the Territory in terms of mitigating risks. The capability assessment serves as a critical component to designing an effective hazard mitigation strategy. It not only helps establish the goals and objectives for the Hazard Mitigation Plan, but it ensures that those goals and objectives are realistically achievable under local conditions.

The capability assessment looks at government departments, agencies, offices and authorities as well as several private organizations that are directly involved in hazard mitigation. With the isolation of American Samoa, its dependency on outside resources, and its repeated history and experience with natural disasters, many systems are in place to create a resilient island community, including community and hazard mitigation planning and implementation. Through this plan and support for hazard mitigation projects since 1988, American Samoa has mitigated threats to life and property and has built government capabilities and capacities.

5.1 Hazard Mitigation Council

The ability to mitigate risk in the Territory of American Samoa falls on the Hazard Mitigation Council and its member agencies. The Lieutenant Governor serves as the Governor’s Authorized Representative (GAR) and heads the American Samoa Hazard Mitigation Council. The offices and departments described below are members of the Hazard Mitigation Council.

5.1.1 Office of Disaster Assistance and Petroleum Management (ODAPM)

The Office of Disaster Assistance and Petroleum Management (ODAPM) was formerly known as the Territorial Office of Fiscal Reform (TOFR). According to an executive order dated September 8, 2014, TOFR has achieved its original goals and its responsibilities have shifted to warrant renaming of the agency. An article in Appendix D describes the responsibilities of ODAPM.

Lima Fiatoa, State Hazard Mitigation Officer (SHMO), works in ODAPM and has led the mitigation planning process since 2008. She also solicits and manages all mitigation grant-funding activities. The ODAPM staff managed all of the Hazard Mitigation Council Meetings and stakeholder meetings. ODAPM also manages updates to and applications of the Territorial Hazard Mitigation Plan. ODAPM manages the Pre-Disaster Mitigation Grant Program, administered by the Federal Emergency Management Agency (FEMA) as well and the post-disaster Hazard Mitigation Grant Program.

S12. Does the plan discuss the evaluation of the state’s hazard management policies, programs, capabilities, and funding sources to mitigate the hazards identified in the risk assessment? [44 CFR §201.4©(3)(ii)]
The American Samoa Department of Disaster Recovery (ASDRO) previously managed mitigation. The ASDRO executive order has expired. It was established by way of Executive Order No. 10-1997, an order to amend Executive Order No. 09-95; the American Samoa Disaster Recovery Office (ASDRO) was established as an agency of the Executive Branch of the American Samoa Government (ASG). The Office was managed under the direction of the Governor’s Authorized Representative (GAR) or otherwise directed by the Governor to carry out functions pertaining to response and recovery programs.

The Hazard Mitigation Council, the Office of Disaster Assistance and Petroleum Management (ODAPM) and the Department of Homeland Security are now responsible for administering the funds and facilitating the implementation of the mitigation projects.

5.1.2 American Samoa Department of Homeland Security (DHS)

The American Samoa Department of Homeland Security works to develop and update a Territorial Homeland Security Strategic Plan. The Plan states the goals, objectives and activities of projects and programs. The strategy is reviewed annually. This office is tasked with monitoring the progress of program and project management activities in accordance with the Territorial Homeland Security Strategy to gauge territorial-wide progress toward strategy implementation required for on-line reporting to the U.S. Department of Homeland Security (DHS) and Federal Emergency Management Agency (FEMA).

The Department of Homeland Security authorities and legal references include:

- Work with agencies of the American Samoa Government and the U.S. Department of Homeland Security and other federal agencies, to prevent terrorist attacks within American Samoa, reduce the vulnerability of American Samoa to terrorism, and minimize the damage, and assist in the recovery, from terrorist attacks that do occur with American Samoa;
- Act as the Single State Agency (SSA) of the American Samoa Government designated to provide the overall coordination and administration of efforts to be funded by the U.S. Department of Homeland Security;
- Be the lead agency in all efforts for the preparation of the Territory against natural or man-made disasters, and shall coordinate with federal agencies to secure and receive federal assistance in order to prepare for, or to recover from natural or man-made disasters;
- Develop a Territorial Homeland Security Operations Plan. This plan is to identify security and response weaknesses and prioritize specific homeland security projects and programs to address shortfalls and security lapses;
- Work with front-line first responders, government agencies, private sector and local communities in American Samoa to enhance security and the overall state of readiness in the territory;

• Identify and negotiate federal, state and community resources (human, financial, equipment) for the implementation of homeland security projects and programs;
• Ensure the appropriate expenditure of federal and local resources for the purposes of homeland security, drug and human trafficking enforcement and prevention;
• Monitor the implementation of homeland security programs and projects and reporting on the territorial state readiness to the Governor and the U.S. Department of Homeland Security;
• Record and store all vital records and statistics of the Territory of American Samoa to assure their safe keeping, accuracy and authenticity upon their proper issuance;
• Coordinate, consolidate and collaborate the efforts of its component agencies into a cogent whole that supports the overall purposes of all-hazard preparedness, response, detection, deterrence, prevention and enforcement;
• Carry out those functions and responsibilities as stated in Section 26.0106, A.S.C.A.;
• Execute the duties and responsibilities necessary to fulfill the American Samoa Government’s obligations and commitments to the: South Pacific Islands Criminal Intelligence Network (SPICIN), International Criminal Police Organization (INTERPOL), Federal Bureau of Investigation’s National Crime Information Center (FBI-NCIC), El Paso Intelligence Center (EPIC), National Law Enforcement Telecommunications System (NLETs), and other regional and international law enforcement programs;
• Gather intelligence information regarding drug trafficking and elements of organized crime and other illegal or suspect activities in the Territory and share the same with other law enforcement agencies in the Territory;
• Coordinate the flow of information between involved agencies on major criminal investigations involving narcotics, white collar crime, and corruption in government operations; and
• Coordinate information collection and sharing on drug and human trafficking and white collar crimes with federal, state, territorial and local law enforcement agencies which have similarly provided for the coordination of enhanced intelligence sharing, investigative efforts, training, and the increased competence and proficiency of law enforcement officers.178

Agencies under this department include:
• Office of Vital Statistics,
• Territorial Emergency Management Coordination Office (TEMCO),
• Territorial Office of Homeland Security (TOHS), and
• Office of Territorial and International Criminal Intelligence and Drug Enforcement (OTICIDE).

American Samoa DHS plays a crucial role in mitigation planning and implementation in American Samoa. The Director of ASDHS is an active participant on the Hazard Mitigation Council. The priority of the Director is protection of the Territory. For the development of the 2015 plan, the Director mentioned the lack of customs and immigration regulation in Manu’a as well as the tremendous challenge of

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monitoring the ocean waters. He also expressed concern over the poor condition of the road up Mt. Alava. It is dangerous to travel however multiple government communication assets are on the top of the mountain.

5.1.2.1 Territorial Emergency Management Coordinating Office (TEMCO)
The Territorial Emergency Management Coordinating Office (TEMCO) operates under the general supervision of the Director of the American Samoa Department of Homeland Security (ASDHS). The Disaster Assistance Coordinator (TEMCO Manager) reports to the Director of ASDHS. TEMCO is created under the American Samoa Code Annotated (ASCA) Section 26.0106 as a coordinating agency. Their purpose is to coordinate assistance, resource management, and emergency response and recovery efforts.

TEMCO is responsible for the development and revision of territory wide disaster plans. It is also responsible for the development, coordination, and updating the Disaster Assistance Plan (DAP), currently known as the Territorial Emergency Operations Plan (TEOP) with the American Samoa Government agencies and private sector. The office is responsible for the primary Emergency Operations Center (EOC), which serves as the central communications and command center for reporting emergencies and coordinating Territorial response activities. The office also operates and mans the 24/7 Center; a territory emergency communication center staffed 24 hours each day. They also review the TEOP and make necessary revisions annually.179

TEMCO administers and implements all Emergency Management Programs: Hazard Mitigation, Preparedness and Prevention, Response, and Recovery programs. TEMCO also manages the Emergency Management Performance Grant (EMPG), National Tsunami Hazard Mitigation Programs (NTHMP), Hazardous Materials Emergency Preparedness Grant Program (HMEGP), and Disaster Assistance programs. The Disaster Assistance programs include the Great American Samoa Shakeout, National Preparedness Month, and the National Cyber Security Month.

TEMCO maintains the territorial emergency shelter layer of the GIS database. This GIS layer works well with the PDM Shelter upgrade project to identify and record shelter parameters including roof wind ratings, accessibility, and power and water supply security and capacity. As TEMCO develops the in-house expertise required to manage a GIS database, other layers will be added to this maintenance task. The goal for TEMCO has been to become an active partner in the GIS users’ group and to help generate and manage critical spatial data for emergency management purposes.

5.1.3 American Samoa Power Authority (ASPA)
Territory of American Samoa Hazard Mitigation Plan

According to the ASPA website they are a “development-oriented public utility providing electricity, water, wastewater and solid waste service to over 60,000 residents of American Samoa. We install, operate and maintain American Samoa’s public utility infrastructure and offer our customers the highest quality services at affordable rates.”

“ASPA is both mandated by law and motivated by ideals of community service to operate as a viable and successful business entity of American Samoa Government. ASPA is directed by a five-member board of directors, and administered by a Chief Executive Officer. Members are nominated to the board by American Samoa’s Governor and confirmed by the Legislature of American Samoa Government.”

ASPA’s Anemometer Project/Wind Study is working to determine wind resources available on Tutuila. They have twelve anemometers, wind vanes and data loggers on the island. This is one example of how ASPA is working toward sustainability in the Territory.

ASPA actively supports mitigation planning in American Samoa by participating on the Hazard Mitigation Council and collaborating with multiple organizations on projects related to undergrounding utilities. The mitigation planning team met with ASPA in April and June 2014. Since 2011 their mitigation capabilities have increased. ASPA has expanded their radio ability, they are developing a Green Operations Building for water and wastewater, their staff is more proactive at seeking funding and they are using solar energy. ASPA representatives mentioned that the canneries put a huge drain on the water system because they pull water directly from the main line. It would help to build a storage tank for them to pull water from so island residents are not impacted by poor water pressure. The American Samoa Power Authority spends its funds on improving and hardening power, water, and wastewater systems. FEMA and the U.S. Highways Administration have also provided funding for shoreline protection and road and bridge hardening projects.

5.1.4 Samoan Affairs

The Department of Local Government, Office of Samoan Affairs is dedicated to promoting peace and harmony within the Territory, and to ensure that the village council’s actions are not in conflict with the Laws of the Territory. Most importantly, we remain faithfully in preserving, promoting, and enhancing the Samoan Culture and language. Samoan Affairs is a member of the Hazard Mitigation Council and involved in all aspects of hazard mitigation planning. They are often consulted regarding adherence to laws of the land and the Samoan way of life.

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5.1.5 American Samoa Department of Commerce (DOC)
The mission of the Department of Commerce (DOC) is “to improve the quality of life for individuals and communities through economic development and sustainable resource management.”\(^{184}\) The Department of Commerce houses the American Samoa Coastal Management Program, Project Notification and Review System (PNRS), National Marine Sanctuary of American Samoa and the Geographic Information System User Group.

Each of these divisions plays a role in disaster mitigation. The Department of Commerce, with its planning role, grants role, GIS role, permit review role, and coastal zone management role is a key player in the mitigation planning process for American Samoa. The Department of Commerce actively participates in the Hazard Mitigation Council and contributed data and other resources to this plan.

5.1.5.1 Project Notification and Review System\(^ {185}\)
The American Samoa Land Use Permitting Portal “is a compilation of data relating to land use from the Department of Commerce (DOC), Environmental Protection Agency (ASEPA), and the American Samoa Power Authority (ASPA). Board members on the Project Notification and Review System (PNRS) provided all data for this portal to help with permitting. Users are encouraged to use this data to visually verify existing setbacks and hazard zones when looking into possible development locations by clicking on different data layers. This data should be used in conjunction with the PNRS review process. This is the best available data, but it may not represent all recent changes. The development of the Land Use Permitting Portal was completed by the American Samoa Department of Commerce in partnership with the National Oceanic and Atmospheric Administration (NOAA) Pacific Services Center.”\(^ {186}\)

Specific information on potential areas for new growth was researched but no information was available. As the most suitable land is developed, pressure moves to develop on steeper, unstable slopes or in floodplains. As new development is likely to face some risk of future hazards due to lack of buildable area, more focus on hazard mitigation must be placed on strengthening the Permit Notification and Review System (PNRS) to quickly and accurately identify vulnerable land development requests and scenarios. For the Tualauta County and other population centers, flood control is an important mitigation solution, while landslide identification, mapping, education and control of building in landslide-prone areas in a preferred mitigation solution.

The Department of Commerce, under its statutory responsibility, is responsible for ensuring that changes in the planning and land use management systems adopted as part of this plan are implemented. These changes should be coordinated through the Hazard Mitigation Council. The Project

\(^ {186}\) American Samoa Department of Commerce GIS Web Portal. (20140 Retrieved September 30, 2014 from http://portal.gis.doc.as/LandUse/
Territory of American Samoa Hazard Mitigation Plan

Review and Notification System will continue to serve as the primary means for ensuring that future development does not increase the vulnerability of American Samoa to natural disasters.

PNRS is the primary land use management and regulation mechanism. It is coupled with other land use planning and permitting functions within the American Samoa Government. The PNRS is, however, the primary mechanism for mitigating the risk of natural hazards by controlling the location of new structures and avoiding development in the hazardous areas. It is also integrated with the administration of the building code and flood plain management regulations.

The PNRS Board meets twice a month and reviews major projects. The PNRS Board conducts site visits to these projects every Tuesday. Major projects usually require the review and approval of technical plans prior to full permit approval. The applicant provides these technical plans, which are reviewed by the agency given jurisdiction (e.g., DPW would review parking and drainage plans). The PNRS Board only reviews Land Use Permits classified as Major projects.

The PNRS Board is composed of representatives from agencies with land use and environmental management responsibilities in the Territory. Each agency plays a role in the PNRS review process and votes on projects based on their agency jurisdiction. In general, major development projects must be carefully planned and reviewed for environmental compliance prior to final approval. Technical information provided to the Board by the applicant must be complete. The list of member agencies and their responsibilities is shown in the table below.

Table 49 PNRS Board Members and their Responsibilities

<table>
<thead>
<tr>
<th>Agency</th>
<th>PNRS Function or Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Samoa Coastal Management Program within Department of Commerce (ASCMP/DOC)</td>
<td>Administrative Coordinating Agency for the PNRS process. The goal of the ASCMP is to preserve, protect, develop, and enhance coastal resources. Also lead agency for flood plain management.</td>
</tr>
<tr>
<td>The Department of Public Works (DPW)</td>
<td>Infrastructure requirements: traffic flow, parking, drainage, and building design. Reviews plans for major construction activities that involve major earthworks. Responsible for building code administration.</td>
</tr>
<tr>
<td>American Samoa Environmental Protection Agency (ASEPA)</td>
<td>Impacts on land, air, and water quality. Projects involving hazardous materials, chemicals, and pesticides must be approved by ASEPA.</td>
</tr>
<tr>
<td>American Samoa Historical Territory Office (ASHPO)</td>
<td>Documentation and review of ancient cultural and historic sites throughout American Samoa. Projects receiving federal funds must conduct a Section 106 review of historic findings at the site.</td>
</tr>
<tr>
<td>Department of Marine and Wildlife Resources (DMWR)</td>
<td>Protection of plant and animal habitats, especially endangered species. DMWR also reviews projects that may impact reef and fishery resources.</td>
</tr>
<tr>
<td>American Samoa Power Authority (ASPA)</td>
<td>Major utility provider. Reviews projects based on water distribution and resources, such as groundwater and wastewater treatment.</td>
</tr>
</tbody>
</table>
The PNRS has proven to be an effective way to restrict development in hazardous areas. The PNRS Board is composed of representatives from agencies with land use and environmental management responsibilities in the Territory, as listed in the table above. Locating hazard free building space in the Territory is challenging considering the small amount of flat land and the incredibly steep slopes. By improving the PNRS system, American Samoa has taken steps to improve the overall land use system. With a strategic planning process established, these subcommittees have continued to revise and improve the system since 2003.

The PNRS requires the collaboration of the agencies listed in the above table. In order for the agencies to effectively evaluate and issue permits, they must first obtain all of the appropriate information from the applicants. Should the applicant fail to include information, the entire process may be delayed for months. Therefore, the PNRS has developed a substantive packet of instructions for applicants that outline the process. PNRS has proven to be a very effective way to restrict development in hazardous areas, although, as discussed below, improvements are needed in the system.

The building code and its enforcement, the Project Notification and Review System, and the American Samoa Flood Plain Management Regulations are the primary ways in which the American Samoa Government prevents losses from future development. As described below, the three regulatory regimes function as an integrated system to mitigate damage to future development from floods, tropical cyclones including storm surge, landslides, tsunamis, earthquakes, and drought.

Building Code
The 2006 Uniform Building Code is used by engineering and design professionals in the Territory and by the Department of Public Works (DPW) in administering building and safety code regulation. An application for a land use permit from the Department of Commerce is required before a building permit application can be provided and issued by the Department of Commerce. Plans are submitted with the building permit and land use permit applications. The Architecture and Engineering Division of the DPW reviews the building permit application. As an example, under the 5% Initiative, ASDRO, with support from DPW, submitted an application for HMGP-1859-DR-AS for compliance with the 2006 Uniform Building Code. Ten or more separate inspections were required, including special inspections by an engineer, during the course of construction. FEMA Region 9 requested that an engineer and the SHMO provide some additional information for this application.
DPW officials believe that the existing building safety program has done much to reduce the risk of losses to government buildings, commercial structures, community buildings, and homes. However, improvements can be made and those endorsed by the Hazard Mitigation Council are included in a later section of this chapter.

Floodplain Management

As indicated above, the land use permit obtained through the PNRS is the mechanism for insuring compliance with the Floodplain Management Regulations. The Executive Orders that established the Floodplain Management Regulations require that a determination should be made based on whether a structure is in a Special Flood Hazard Area during the preliminary review of the Land Use Permit/Building Permit Application. The Floodplain Administrator determines the Base Flood Elevation for a proposed location and the Survey Branch of the Department of Public Works provides the applicant with a determination of the actual elevation of the construction site. When the applicant has received the Base Flood Elevation Determination and the determination of the actual elevation of the proposed construction site, a final plan may be prepared and submitted to the Floodplain Administrator for review prior to issuance of the Land Use Permit through the PNRS.

It is also the responsibility of the Floodplain Administrator to notify the community and applicable federal agencies prior to any alteration or relocation of a watercourse, to submit evidence of such notification to FEMA, and to require that the flood carrying capacity of the altered or relocated portion of said watercourse be maintained.

Under the floodplain management regulations, variances may be issued for new construction and substantial improvements being erected on a lot of one-half acre or less in size which is contiguous to, and surrounded by, lots with existing structures constructed below the base flood level. As the lot size increases beyond one-half acre, the technical justification required for issuing the variance must increase.

Variances may be issued for the reconstruction, rehabilitation, or restoration of “historic structures” upon a determination that the proposed repair or rehabilitation will not preclude the structure’s continued designation as a historic structure, and that the variance is the minimum necessary to preserve the historic character and design of the structure. Variances may be granted for new construction, substantial improvement, and other proposed new developments necessary for the
conduct of a “functionally dependent use” with certain restrictions. The structure or other development must be protected by methods that minimize flood damages during the base flood and create no additional threats to public safety. Variances are not granted within any designated floodway or floodway setback area if any increase in flood levels during the base flood discharge would result.

5.1.5.2 American Samoa Coastal Management Program

“The American Samoa Coastal Management Program (ASCMP) provides effective resource management for the protection, maintenance, enhancement, and restoration of natural and cultural resources for the Territory. Additionally, ASCMP is tasked with monitoring development within the framework of comprehensive land and resource use planning while simultaneously protecting the territory’s natural resources.”

“ASCMP plays a central role in promoting development while safeguarding the Territory’s natural resources. ASCMP is engaged at an inter-agency and inter-governmental level. ASCMP also works closely with members of the private sector and community to build stewardship and awareness in the territory. ASCMP Sections include Project Notification and Review System, Wetlands, Ocean Resources Management and Geographic Information Systems/IT.”

The planning team for this Hazard Mitigation Plan participated in the Section 309 Assessment and Strategy, FY 2016-2020, for the American Samoa Coastal Management Program (ASCMP). Every five years, NOAA provides a process under “Section 309” of the Coastal Zone Management Act for states and territories to carry out assessments to determine whether or not funding for “program enhancements” may be available. The 309 Assessment and Strategy included a review of the 2015 American Samoa Hazard Mitigation Plan. The 309 Assessment includes a strategy for ASCMP involvement in the implementation of the Hazard Mitigation Plan. To achieve the strategy, ASCMP will:

1. Incorporate representation from the Hazard Mitigation Council into the deliberations of the Permit Notification and Review System in an appropriate manner and incorporate representation from ASCMP into deliberations of the Hazard Mitigation Council. This will be done through revision of guidelines, creation of MOUs, and/or executive order, as necessary.
2. Review, approval and adoption of new PNRS permitting requirements and/or guidelines, as deemed necessary following an ASG-wide review of coastal hazard mitigation activities and assessments. Approval and adoption will be done following existing formal processes for changing PNRS permit requirements.
3. Creation of an inter-agency tracking procedure – via MOU – for tracking coastal hazard mitigation actions.

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5.1.5.2.1 Tutuila Hazard Assessment Tool (T-HAT)
The Tutuila Hazard Assessment Tool is part of the Department of Commerce, American Samoa Coastal Management Program. ASCMP personnel can display the T-HAT tool and procedures for applicants proposing an activity in an area. They can check vulnerability of land use after site inspections and guide development away from hazard prone areas.

5.1.5.3 Geographic Information System (GIS)
The Geographic Information Systems (GIS) and IT branch of the Department of Commerce provides in-house technical support along with GIS data, maps, and expertise for the Department of Commerce and for other government agencies. They maintain Digital Orthoimagery (DOI) and Land Use and Marine web portals. Both provide essential data and mapping for government users.

The GIS Branch leads the American Samoa GIS (Geographic Information System) Users group. This group was “first convened in February of 2001 as an informal grassroots effort among both public and private entities that have an interest in GIS development in the territory. The primary tenet for the group’s formation was the establishment of a forum for disseminating GIS information for collaboration and funding and decreasing data duplication. The group recognized that in order to make GIS development sustainable in American Samoa, local institutional capacity would need to be strengthened through training and education in Geographic Information Science.”

“The American Samoa GIS Users Group has a memorandum of understanding among their member agencies. The member agencies are “mutually interested in cooperative activities aimed at the development of the American Samoa Spatial Data Infrastructure,” which includes provisions for a territorial GIS dataset, metadata creation, and projection/datum scheme.

Member agencies include:
- American Samoa Department of Commerce,
- American Samoa Historic Preservation Office,
- American Samoa Community College,
- Department of Marine and Wildlife Resources,
- American Samoa Power Authority,
- National Park of American Samoa,
- Oregon State University – Davey Jones Locker Lab,
- USDA Forest Service, Forest Health Protection,
- Fagatele Bay National Marine Sanctuary,
- American Samoa Department of Public Works,
- American Samoa Telecommunications Authority,
- American Samoa EPA, and the
- Development Bank of American Samoa.

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190 American Samoa GIS Users Group Memorandum of Understanding
191 American Samoa GIS Users Group Memorandum of Understanding
The Department of Commerce maintains additional plans and resources for the Territory. Including the Territorial General Plan and the Community Development Block Grant.

5.1.5.4 Territorial General Plan and the Territorial Planning Commission

The Territorial Planning Commission “serves as an oversight body, on behalf of the Governor, to review and approve government plans in relation to the overall goals of the government. Plans cover agencies providing a comprehensive range of services and regulatory controls.”

The Territorial Planning Commission was statutorily created for the purpose of establishing a public review body that authorizes the territorial general plan program for American Samoa. This Commission is responsible to promote the general welfare of the territory’s citizens and create an orderly, healthy, and viable economic and living environment.

The Territorial General Plan is concerned particularly with industrial, commercial or agricultural development; with education, social services, housing, essential fire, water and electric utilities services, and with transportation, communications, recreation, conservation, and cultural services and with other relevant aspects of life in American Samoa.

The Territorial General Plan is an indicative policy agenda for the economic and social development of the Territory of American Samoa. The purpose of the plan is to promote a better quality of life for the Territory’s residents, protect the natural environment and preserve the Territory’s resources for the sustainable development of the islands.

Where master and comprehensive plans exist, e.g. the Port Master Plan of 1999, the Territorial General Plan endorses these plans and builds in policy to support their agenda and functions. In essence, the Territorial General Plan provides the overall policy agenda and serves as the umbrella under which future government development and functional or action plans will be formulated.

Goals of the Territorial General Plan

- Create clear vision of the future
- Focus on issues of primary concern
- Create cooperative coordinated system of development
- Identify strategic path & best use of funds
- Create capacity to implement programs
- Show how government directs/gauges progress

5.1.5.5 Community Development Block Grant

The American Samoa Government (ASG) Community Development Block Grant (CDBG) is one of three Community Planning and Development (CPD) programs funded by the U.S. Department of Housing and Urban Development (HUD). While the Office of the Governor oversees all CPD programs, the Department of Commerce (DOC) administers CDBG. The CDBG was designed to merge eight categorical grant programs, authorized by the Housing and Community Act of 1974. Since its inception, CDBG funds awarded to American Samoa have produced life-changing developments for numerous families and have provided various upgrades within the island community.

The CDBG program supports American Samoa’s economic growth. Its primary principle is to develop feasible urban communities by creating employment opportunities, provide decent housing and form suitable living environments. In reaching the main purpose, projects must be eligible, cannot be a prohibited activity, and must meet a National Objective. Plans must adhere to federal and local laws and regulations.

Following Hurricane Gita in 2018 and the Federal Disaster Declaration, the Territory of American Samoa was able to apply for and receive CDBG funds. The Territory used the 2015 Hazard Mitigation Plan and its list of mitigation projects to quickly apply for funding.

5.1.6 Department of Public Works (DPW)

The primary mission of the Department of Public Works (DPW) is “to provide high quality construction engineering, design, construction management, construction, maintenance, renovation, and repair services for ASG infrastructure, equipment and facilities throughout the Territory. Within this framework, the DPW endeavors to employ environmentally sound, culturally sensitive, socially responsible and cost-effective practices in all service areas, programs and projects. In carrying out this mission, the DPW maintains a high level of accountability through fiscal management and planning with emphasis on the development of American Samoa’s construction industry and improving construction capacity in the Territory. Employing the latest technology, management concepts, and training techniques, the Department offers reliable and effective civil engineering, architectural, construction, inspection and maintenance services that effectively extend the useful life of public assets and improves overall safety conditions for the general public.”

DPW is an active member of the Hazard Mitigation Council and assists in completing mitigation projects throughout the islands. The Planning Team met with DPW representatives in April and June 2014. They expressed a need for rock fall and landslide mitigation as well as soil stabilization projects. They adhere to the 2006 International Building Code. The June meeting included a discussion of the Tualauta Flood Control Project. The project has been funded but the Benefit Cost Analysis (BCA) needs to improve for FEMA to release funding. DPW is working on right-of-way modeling and updating the BCA.

193 http://www.asg-gov.net/PUBLIC%20WORKS.htm
5.1.7 American Samoa Environmental Protection Agency (ASEPA)

The mission of ASEPA is to “provide regulatory services to promote clean air, safe and clean drinking water and land free of pollutants in order to protect the environment and safeguard the quality of natural resources upon which life on our islands depends.”

“The ASEPA is one hundred percent funded by the U.S. EPA Region 9 through an EPA Consolidated Environmental Program Grant awarded on a fiscal year budget period. At present, the Consolidated Grant consists of the following categorical grant funding: Clean Water Act (CWA), Safe Drinking Water Act (SDWA), Resource Conservation and Recovery Act (RCRA), Clean Air Act (CAA), Federal Fungicide, Insecticide and Rodenticide Act (FFIRA), and the Beach Grant Act.”

The ASEPA building (shown at above) was awarded the LEED Platinum Green Building Certification. The LEED rating system, developed by the U.S. Green Building Council (USGBC), is the foremost program for buildings, homes and communities that are designed, constructed, maintained and operated for improved environmental and human health performance. ASEPA’s building is the first LEED-certified building in the South Pacific.

ASEPA programs related to emergency management, health, and safety are shown in the list below:

- AS-EPA Laboratory
- Piggeries
- Water quality
- Drinking water
- Climate Change

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• Land Use Permitting
• Hazardous Materials

The Water Quality Branch actively monitors surface runoff and contamination of streams and coastal beaches. The Drinking Water Branch seeks to protect the groundwater in American Samoa. The Climate Change Branch looks at sea level rise and other impacts to fresh water and the Territory’s ecosystem. ASEPA holds a seat on the Project Notification and Review System (PNRS) Board. ASEPA’s role here is to review potential building projects in terms of their impact to the environment. The Hazardous Materials Board regulates the importation, storage and disposal of hazardous materials in the Territory. An article from the Samoa News, included in Appendix D, describes ASPA’s position on water in Tualauta.

ASEPA did lift the boil water ban on parts of Tutuila from Pago Pago to Atu’u in August 2014.\textsuperscript{197} ASPA is drilling new groundwater wells, which should enable them to remove the Boil Water Notice (BWN) in the future. “Based on the yield from these new wells and the reduction in water losses, we will be able to remove the GUDI wells, which will result in the lifting of the BWN in these areas.”

ASEPA is an active member in the mitigation planning process through the PNRS and the Hazard Mitigation Council. ASEPA has in-house expertise and services to place additional emphasis and active participation in understanding and mitigating the ubiquitous landslide hazard throughout American Samoa due to its steep terrain. ASEPA has LIDAR coverage for the entire island, available to map in detail the landslide areas that need mitigation. Some landslides are natural, and some are created when the toe of stable landslides is cut to build houses and businesses. ASEPA manages an omnibus grant from EPA for water, wastewater, and energy, as well as water quality, clean drinking water grants and engineering to make drinking water more manageable.

ASEPA is a working member on the Governor’s Renewable Energy Committee. ASEPA’s goal is 100% sustainable energy for outer islands, and they are working with Stanford University and University of Hawaii geoscientists on ground water issues. Renewable energy will bring sustainability to these outer islands. Manu’a now has solar power as detailed in Chapter 2 Planning Profile.

ASEPA has identified multiple areas that if improved would reduce the impact of hazards to the Territory of American Samoa. ASEPA has a geological base map for the Territory. Below is a list of several other areas that need improvement, they all relate to landslides.

• Faga’alu Quarry Landslide Hospital Mitigation Project is proposed due to its threat to the valley with hospital. There is a cut slope 150 feet long and 30-40 feet high – it is an unsupported slope with a major reservoir upstream. This is an identified significant risk for the watershed.

• Update existing landslide risk maps, which are based on 1970 technology. Now LIDAR is available and in hand for landslide mapping. The ASEPA is working with University of Hilo volcanologists and groundwater experts (Dr. Don Johnson, UH Hilo). One thousand eight hundred buildings are in the high-risk landslide zones as shown on new LIDAR data.
• The Afono rockfall/landslide has occurred three times over the past year and is a major hazard.
• Lawsuit for the “crystal burger death”, 2003 flooding, several buildings involved. A house was built in a landslide area and the house collapsed during a landslide resulting in the death of a child.
• Up until 2008, the US Geological Survey monitored streams. There are now no rain gauges on Manua islands and on Tutuila.
• Surface water runoff in the Tualauta plain that could be mitigated through the Tualauta Flood Control Hazard Mitigation Grant Project.

5.1.8 American Samoa Historic Preservation Office (ASHPO)

The Historic Preservation Office was “established in response to the National Historic Preservation Act of 1966, the American Samoa Historic Preservation Office (ASHPO) identifies, evaluates, registers, interprets and protects American Samoa’s historic and cultural properties, from star mounds to shipwrecked vessels.

The ASHPO provides communities and preservation organizations with a variety of services and maintains an inventory of historic properties. It also reviews nominations to the National Register of Historic Places and oversees sites on that register. Under Section 106 of the National Historic Preservation Act, the ASHPO reviews all Federal undertakings for impacts on historic properties.

The mission statement for ASHPO is “it is the responsibility of the American Samoa Historic Preservation Officer to administer the Territorial Historic Preservation Program. American Samoa’s strong indigenous culture and traditional system of communal land ownership impose special conditions of cultural

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sensitivity upon such an endeavor. A primary concern of the ASHPO is to fulfill its responsibilities in a manner that recognizes and honors these inherent cultural conditions.”

ASHPO has multiple areas of responsibility. These include maintaining a list of historic properties, nominating these properties to the National Register of Historic Places, assisting other American Samoa Government agencies with carrying out their historic preservation responsibilities, they make sure historic properties are considered during all levels of planning and development and finally they provide public education and training regarding historic preservation.

ASHPO is a member of the Territorial Hazard Mitigation Council. The photo above shows a World War II installation. There are many throughout American Samoa and ASHPO maintains a list of these and other historical installations.

5.1.9 American Samoa Telecommunication Authority (ASTCA)
The U.S. Navy and the U.S. Department of Interior, originally built the local communications network in American Samoa. The American Samoa Government gave the responsibility of operations to ASTCA, when it inherited this network. “Because of American Samoa’s remote location, limited economy, and small population base, tier one-telephone companies have not been interested in providing local telecommunication services or originating long distance services in the Territory to date. To date, ASTCA remains the only telecommunications service provider with service covering all the inhabited islands of American Samoa, including the islands of Tutuila and Aunu’u, and the islands of Manu’a.”

ASTCA has continued to actively participate in the mitigation planning process by working the Department of Public Works and ASPA to underground vulnerable main telephone communications lines along common roadways with electric lines. Over 50% of all communications lines are now underground, significantly lessening damage during hurricanes and providing critical communications links for response and recovery.

ASTCA buildings are built to withstand hurricane winds and earthquakes. They would like to further harden these buildings by adding shutters to windows. They maintain two generators at each facility and rotate them weekly.

5.1.10 Department of Port Authority (DOP)
The Department of Port Authority (DOP) is represented on the Hazard Mitigation Council. Their mission states, “in partnership with the port users Port shall provide excellent service to its customers and the community and in doing so raise the standard of living of the Territory to that of a developed country in...”
a manner that protects our environment and maintains the best of our “Faa-samoa”. The DOP actively participated in the hazard mitigation planning process by attending all meetings and assisting with the distribution of the public preparedness survey.

5.1.11 Chamber of Commerce

The American Samoa Chamber of Commerce is an active member of the Hazard Mitigation Council. They represent multiple small businesses in the Territory. They also participate in the National Emergency Grant Program, From Tsunami to Renewal. The 2009 Tsunami eliminated one in eight jobs in American Samoa. The U.S. Department of Labor awarded American Samoa $25 million to support recovery including job growth.

5.2 Additional Government Plans, Programs and Policies

The American Samoa Government has several plans in place that could directly impact hazard mitigation. These plans will be reviewed in detail for the 2025 mitigation plan update. The plans include the following:

- Comprehensive Economic Development Strategy (CEDS)
- Economic Development Implementation Plan
- Tourism Master Plan
- American Samoa Ocean Plan
- Territorial General Plan (needs updating)

5.2.1 Emergency Alert System

The original Territory emergency alert system is a bell hanging from a tree, as shown above. These can be seen in all of the villages and near many churches. The Territory has worked consistently to upgrade this system to more advanced warning systems, also shown above.

The National Weather Service (NWS) has worked with TEMCO and DHS on all alert protocol and agency activation coordination. The NWS receives tsunami alerts from Pacific Tsunami Warning Center, Honolulu. American Samoa has improved its emergency alert system and been declared TsunamiReady as shown in the Samoa News article in Appendix D.

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There is an early alert system in place for the islands, including Manu’a, via NOAA Weather Radio (NWR). The NWS Office activates the NWR alarm for watches and warnings including tsunamis, hurricanes, flash flooding, etc. as well as a provision for Civil Emergency Messages such as Hazardous Spills. The NWS Office is operational 24/7. Alerts are also broadcast over the Emergency Alert System, which becomes activated via KKHJ radio station as the Local Primary Broadcast system. The NWR System was funded by a DHS grant of $250,000. Four hundred NOAA radios were purchased and distributed. The EAS system does weekly testing of the system as required by the FCC. The NWS is committed to maintaining the NWR system. The NWR program also includes observations, forecasts, and climate and outreach information such as hurricane preparedness activities.

The alert system was successfully tested during the May 2007 Pacific Wave Tsunami Exercise. The EAS system did a second alert test with all the schools. Every school and every village mayor have an NWR. Although some of the Manu’a Islands do have a strong signal, not all villages do. The NWS has identified weak signals and is working to improve them. The signal is good on the North Shore of Tutuila in pockets. There is movement to put a tower on Mount Olotele at 1617 feet. Also, the NWS may put a repeater on Manu’a depending upon coverage from the Olotele site.
5.2.2 Department of Public Safety (DPS)
The Department of Public Safety (DPS) has the responsibility to maintain law enforcement, fire and corrections on all levels in the Territory. Their mission is simply, “to serve and protect.” The Fire Department maintains four fire stations throughout Tutuila. They have sixty-four full-time firefighters who work on three shifts. They have 469 fire hydrants that are color-coded by pressure level. The department has three fire trucks so they only staff three of their fire stations. They respond to all disasters on island and are accompanied by DHS and Emergency Medical Services. They also actively participate in Shakeout drills and the Tsunami Ready program. They do outreach in each of the schools, which has helped to limit the number of kids playing with matches and causing fires. The majority of fires happen in the Western District due to the population density.

Hazardous materials on Tutuila present a problem to the Fire Department. Stockpiling propane tanks at “mom and pop” convenience stores present a danger. These tanks should be stored away from buildings and in limited quantities.

DPS does assist the Federal Aviation Administration (FAA) as needed but a formal Memorandum of Understanding (MOU) is not in place between the agencies. The DPS has considered forming a Community Emergency Response Team (CERT) Team but feels that volunteer activities are not enticing to American Samoans.

Limits of equipment and staff hinders their ability to respond quickly to all areas of Tutuila. An additional fire truck, and smaller agile fire trucks as well as a boat would help them respond faster and to more areas of the island. All roads and homes are not named or numbered which limits response time, but the dispatchers are adept at guiding the fire department to the scene of an emergency. The Planning Team mentioned the possibility of developing a CERT team, but American Samoans are not quick to join volunteer organizations like this.

5.2.3 American Samoa National Park Service
“American Samoa National Park opened in 1988 and is the only US National Park south of the equator. The National Park Service in American Samoa participated in the National Emergency Grant program and was one of the sites documented in the From Tsunami to Renewal project report and documentary video.”

The wildland fire management policies, of the National Park Service (NPS), support the NPS resource management goals. The overriding goals are to provide for firefighter and public safety and protection of natural and cultural resources, and protection of human developments from unwanted wildland fire and to perpetuate and conserve the cultural and natural resources of the NPS.

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The Wildland Fire Management Plan program focuses on guiding the decision-making process where safety, social, political, and resource values are evaluated, and appropriate management response strategies are identified for wildland fires. The park has chosen a fire suppression only policy.

The Plan is organized to combine the latest scientific knowledge, including regional and local studies, with policy direction from the National Park Service, the Department of the Interior, the Federal Wildland and Prescribed Fire Management Policy and Program Review (USDI/USDA1995), and other Federal Government level wildland fire policies to accomplish resource and fire management goals and objectives. The intent of the plan is to provide direction for rare wildland fire events.

This Plan is in compliance with the requirements found in the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA). These requirements ensure a prudent assessment and balance between a federal action and any potential effects of that action, leading to consensus between fire managers, agency resource specialists, and the public. Any constraints or limitations imposed on the fire management program are also included.

Pago Pago Bay Shoreside Development Plan
According to the Department of Parks and Recreation Pago Pago Bay Shoreside Development Plan, the shoreline revetment between Niuloa Point and Faga’alu Park was completed by the end of 2003. This project is a required portion of the reconstruction of the main highway leading toward the center of Pago Pago harbor. The road has been improved and the revetment installed between Faga’alu village and Breaker’s Point. There is no other road construction contemplated for the main highway.

Faga’alu Park requires the installation of revetment along its shoreline to prevent further erosion. The possibility of funding the installation of revetment, which would cost several hundred thousand dollars, is possible.

The June 2010 “NOAA American Samoa Tsunami-generated Marine Debris and Coral Damage Response Report” states in the executive summary, “the tsunami event pointed out areas for improvement in Federal response to future disaster events. It is important to comprehensively respond to and mitigate the impacts of disasters across inland, coastal, and in water environments.”

5.2.4 National Oceanic and Atmospheric Administration
National Oceanic and Atmospheric Administration (NOAA) programs provide for environmental management and mitigation programs that complement the natural hazards mitigation programs, preserving habitats and the Samoan way of life. NOAA maintains several programs in American Samoa including the Coral Reef Information System, the Fagatele Bay National Marine Sanctuary, and the American Samoa Observatory.
Territory of American Samoa Hazard Mitigation Plan

The Coral Reef Information System has attributed high population growth to the extensive “coastal disruptions, fishing pressure, loss of wetlands, soil erosion and coastal sedimentation, solid and hazardous waste disposal, and pollution.”

Fagatele Bay National Marine Sanctuary (sanctuary) was established by NOAA in 1986, “to protect and preserve an example of a pristine tropical marine habitat and coral reef terrace ecosystem of exceptional biological productivity.” Sanctuary regulations clarify that NOAA has primary responsibility for sanctuary management, and that the American Samoa Economic and Development Planning Office (now known as the American Samoa Department of Commerce or AS DOC) will assist NOAA in the administration of the sanctuary.

“As a territorial partner and co-manager, AS DOC provides a local alliance and support services to address territorial processes and coordination. AS DOC greatly assists sanctuary staff with joint efforts in outreach, constituency building and cooperation in the territory. Through the partnership with AS DOC, sanctuary staff are also able to coordinate efforts to reach out to local communities through the American Samoa Government’s Office of Samoan Affairs, whose staff serve as liaisons between the territorial government and local residents. The local alliance with AS DOC is critical since the Office of Natural Marine Sanctuaries (ONMS) and Fagatele Bay sanctuary staff place a high value on partnerships with sanctuary communities and maintain great respect for fa’a-Samoan Affairs, Fa’a-Samoan way of life, provides the cultural context for all sanctuary activities and functions. The foundation of Polynesia’s oldest culture, which dates back some 3,000 years, fa’a-Samoan values places great importance on the dignity and achievements of the group rather than on individual achievements. Sanctuary staff must work in a culturally appropriate manner with local communities, who may serve as sanctuary stewards and whose communally-owned lands adjacent to the sanctuary are managed by local matais (chiefs).”

“As managers of the natural resources at Fagatele Bay, there is little they can do in the face of natural disasters. The September 2009 tsunami that devastated much of the island’s shoreline is the latest example of nature’s power. However, the sanctuary’s role becomes vital in reducing human-caused impacts. Fagatele Bay is protected by regulations from destructive types of fishing including dynamite fishing and the traditional poison fishing (futu or ‘ava niukini). In addition, spearfishing and fixed nets are also prohibited, and all invertebrates-including the crown-of-thorns starfish—are protected. NOAA Office of Law Enforcement and local American Samoa Department of Marine and Wildlife Resources conservation officers share responsibility for enforcing the regulations at the sanctuary. Local landowners are also sanctuary enforcement partners – they are our eyes and ears at the site. Sanctuary

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management will continue to blend marine education, research and enforcement into an effective management package that preserves the natural and cultural resources of this special place for the Samoan community, visitors and the American people.²²¹

The American Samoa Observatory (SMO) was established in 1974 on a 26.7-acre site. Since its construction, it has survived two major hurricanes, an earthquake, and a tsunami with only minor damage. A staff of three operates the facility year-round. This observatory has the distinction of obtaining 30% of its daytime power from solar panels.

5.2.5 Environmental Protection Initiatives
The following four sections describe ongoing mitigation actions to improve the ecosystem, including a reduction of vessel groundings from storms in coral reef ecosystems, participation in the U.S. All Islands Coral Reef Initiative to protect coral reefs, the watershed protection and non-point pollution plans, and the Coastal Hazard Assessment and Management Program.

5.2.5.1 Vessel Grounding
During Hurricane Val, nine long-line fishing vessels in Pago Pago Harbor ran aground. Most of these vessels were abandoned. The vessels and their slow oil leaks contributed to harbor pollution and were a potential threat to navigation. They also damaged precious coral reef ecosystems and threatened ciguatera poisoning. After a decade of concentrated effort, American Samoa received assistance from the National Oceanic and Atmospheric Administration (NOAA) and the United Territories Coast Guard (USCG) to remove these vessels and their contaminants.

American Samoa supports activities to protect its coral reef health and to prevent such costly damage from vessel groundings in the future. The U.S. Flag Pacific Islands Vessel Grounding Workshops, held January and February 2002 in Honolulu and Guam for the U.S.-affiliated islands led to specific actions from the U.S. Coral Reef Task Force through NOAA, based on vessel grounding and removal experience in American Samoa. The experience in Pago Pago Harbor initiated a sequence of events that ultimately led to a draft resolution on grounded vessels by the U.S. Coral Reef Task Force (U.S. CRTF) at their August 2000 meeting in American Samoa. In response to that resolution, NOAA initiated actions to address the issue, including the use of legal mechanisms to remove grounded and abandoned vessels from coral reef ecosystems. For this hazard mitigation strategy, it is important to note that American Samoa has experienced extensive reef damage from storms and from vessel groundings and that the actions taken by the U.S. Coral Reef Task Force will help to minimize the impacts on coral reef ecosystems.

5.2.5.2 U.S. All Islands Coral Reef Initiative
American Samoa has participated in the U.S. All Islands Coral Reef Initiative since it was first initiated in 1994 to develop strategies for protecting coral reef ecosystems. Efforts in coordination with groups in

Hawaii, Guam, Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands came to be known as the “U.S. All Islands Coral Reef Initiative.” The Governor of American Samoa established the Coral Reef Advisory Group (CRAG) in 1999 to develop an American Samoa action strategy for the protection of coral reefs and coordination of coral reef protection activities involving federal and Territorial agencies and the private sector. All of the island jurisdictions participating in the U.S. Coral Reef Initiative recognized that coral reef ecosystems provide essential resources, contributing to commercial and subsistence economies, food security, recreation, and storm protection.

Hurricanes and storms have caused damage to the reefs directly by overturning coral heads and scouring reef areas with debris and indirectly by blanketing several reefs with sediments and solid waste from the land. As part of future landslide and debris management plans, it will be important to consider ways to remove marine debris from storms as recommended by FEMA debris management plans that address dealing with the lack of disposal sites and need for emergency landfill sites following a storm.

5.2.5.3 Watershed Protection
American Samoa has several initiatives that focus on watershed management and protection that will help reduce flooding:

- The Watershed Protection Plan of 1998 makes 311 recommendations, with the American Samoa Environmental Protection Agency mandated to “facilitate coordinated resource management efforts” within each of the territory’s 41 watersheds. Top priority watersheds not meeting EPA environmental standards are Nuuuli, Tafuna, Leone, Pago Pago, and Fagaalu.
- The Non-Point Source Pollution Control Plan was developed in 1995 by the American Samoa Coastal Management Program, in association with the American Samoa Environmental Protection Agency, to meet the requirements contained in Section 6217 of the Coastal Zone Amendments Reauthorization Act of 1990. Non-Point Source [NPS] pollution refers to pollution of waters that comes from a broad area rather than a specific location. It generally results from rainwater running off the land and is amplified by hydrologic modification projects, such as stream hardening and channeling. The NPS Control Plan provides management and design guidelines to agencies and private businesses.
- The U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) has conducted a number of activities to improve watershed management and assist in the application of appropriate agricultural methods. NRCS previously conducted a landslide risk assessment for American Samoa. They provide farmers with information and identify sources of relief for drought, storms, and other hazards. NRCS is currently working on watershed issues around Pago Pago Harbor by identifying methods to reduce flooding and prevent future devastating landslides.

5.2.5.4 Village Coastal Hazard Assessment and Mitigation Program
Most of the actual land use decisions that affect people happen in the traditional villages that still value the Samoan way of life. To help the leaders and people in villages better plan their communities in order to prevent impacts from disasters, the Department of Commerce Coastal Management Program
developed the Coastal Hazard Assessment and Management Program (CHAMP) at the village level. The program was voluntary and implemented in 11 villages throughout American Samoa. Village risk assessments were conducted, and mitigation plans and regulations were developed for each village. This was done in conjunction with the Territorial regulatory system and enabled people to take action at the community level to reduce the impacts of disasters with the backing of the Territorial government.

5.3 Land Use and Development

The legal framework for regulating development in areas subject to natural hazards is Public Law 21-35, the American Samoa Coastal Management Act (ASCMP). This law ensures that development is restricted in areas subject to natural hazards. The American Samoa Coastal Management Program Administrative Code gives the Department of Commerce, the agency that now contains the Coastal Management Program, responsibility to restrict development in areas subject to flooding, storm surge, tsunamis, landslides, and coastal erosion in order to minimize losses from these disasters.

The American Samoa Coastal Management Act (26.0202) mandates the establishment of a system of environmental review known as the Project Notification and Review System (PNRS). The Act includes development standards, procedures for the designation, planning and management of Special Management Areas, procedures for environmental assessments, and procedures for determination of federal consistency. The land use management system provides a mechanism for regulating unsafe building practices. It also mitigates the risk of natural hazards by monitoring the location of construction and avoiding development in hazardous areas.

Rules establishing and regulating development in Special Management Areas are explicitly aimed at reducing the impact of the natural hazards described in Chapter 4. The rules define and delineate Special Management Areas as:

"...Areas which, if development were permitted, might be subject to significant hazard due to storms, landslides, floods, erosion, settlement (subsidence), or saltwater intrusion..."

The ASCMP Administrative Rules establish an explicit coastal hazards policy to restrict development in hazardous areas. The policy on coastal hazards and shoreline development mandates (1) protection of life and property, (2) denial of projects, uses, or activities in coastal hazardous areas, (3) compliance with the American Samoa Flood Plain Management Regulations. The shoreline development provisions of the regulations restrict development in a 200-foot shoreline setback. The regulations also provide legal backing for Village Mitigation Ordinances established through agreements between the American Samoa Coastal Management Program, eight villages on Tutuila, and one village in the Manu’a Islands.

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A soil erosion policy in the Administrative rules explicitly targets restriction of development in areas subject to landslides. It permits projects, uses, or activities in areas with slopes of grades from 0-20%. It allows conditional use permits for development in areas with grades of 20-40% and mandates the denial of permits for projects, uses, or activities on slopes of greater than 40%.

Droughts are serious threats to the wellbeing of the people of American Samoa. Mitigation of the drought risk is addressed indirectly through general planning functions of the Department of Commerce conducted in conjunction with the Coastal Zone Management Act and the Project Notification and Review System. However, drought impacts are mitigated directly through the management of ground water resources by the American Samoa Power Authority; efforts to minimize agricultural losses by the Land Grant College extension program and the Department of Agriculture; and fire suppression efforts. Drought impacts are also mitigated through seasonal to inter-annual climate forecasts issued by the Pacific ENSO Application Center and the U.S. National Weather Service.

5.4 Using Funding to Mitigate Risk

The Territory of American Samoa has received FEMA Hazard Mitigation Grant Funding following major disaster declarations, as shown in the table below. They have used these funds to implement previously identified mitigation projects. They have also received Pre-Disaster Mitigation Grant funding for several projects such as the Fagaalu Flood Control Project to protect the LBJ Hospital from repetitive flooding. This included the Fagaalu Bridge and stream revetment projects shown in the picture at right. The Hazard Mitigation Council, the Office of Disaster Assistance and Petroleum Management (ODAPM) and the Department of Homeland Security are responsible for administering the funds and facilitating the implementation of the mitigation projects. The Territorial government, American Samoa Power Authority, U.S. Department of Transportation, the U.S. Army Corps of Engineers, the U.S. Department of the Interior, and other federal agencies have funded mitigation projects.

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Total Costs</th>
<th>Federal Share</th>
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<tbody>
<tr>
<td>Hurricane Ofa, 1990, DR-0855</td>
<td></td>
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<tr>
<td>2 Harden Tank Farm I</td>
<td>$500,000.00</td>
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<tr>
<td>3 Underground Power Lines II</td>
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<td>4 Underground Communication Lines II</td>
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## Territory of American Samoa Hazard Mitigation Plan

### Project Costs

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<td>20 Harden PEACESAT Earth Station</td>
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<td>22 Harden Ta’u-Faleasao Water Line</td>
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<td>29 Harden Fagatogo Fire Station</td>
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<td>33 Harden Am Samoa Library Building</td>
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<td>34 TEMCO-Fagatogo Stream Flood Control</td>
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#### Heavy Rainfall, Flooding, Landslides, 2003, DR-1473

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<td>5 TEMCO-Fagatogo Stream Flood Control</td>
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<td><strong>Heta Subtotal</strong></td>
<td><strong>$2,239,329.78</strong></td>
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<td><strong>Hurricane Olaf, 2005, DR-1582</strong></td>
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<tr>
<td>1 ASTCA Underground Lines Ili’ili</td>
<td>$375,064.44</td>
<td>$337,558.00</td>
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<td>2 Hardening Government Buildings Phase II</td>
<td>$288,233.33</td>
<td>$259,410.00</td>
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<td>3 State Multi-Hazard Planning Grant</td>
<td>$56,201.11</td>
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<td>M01 State Management Costs</td>
<td>$68,600.00</td>
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<td><strong>Olaf Subtotal</strong></td>
<td><strong>$788,098.88</strong></td>
<td><strong>$709,288.99</strong></td>
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<td><strong>Earthquake, Tsunami, 2009, DR-1859</strong></td>
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<td>1 HM Planning Update</td>
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<td>M01 State Management Costs</td>
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<td>#03 Futiga Underground</td>
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<td>#04 Leone Underground</td>
<td>$1,136,801.39</td>
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<td>#05 Matu’u Stream</td>
<td>$929,600.00</td>
<td>$836,640.00</td>
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<td>#07 Building Code Upgrade</td>
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<td><strong>Tsunami Subtotal</strong></td>
<td><strong>$5,192,563.65</strong></td>
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<td><strong>Flooding, Landslides, 2014, DR-4192</strong></td>
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<td>Red Cross Storm Shutters</td>
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<td>State Management Cost</td>
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<td><strong>Flooding Subtotal</strong></td>
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<td><strong>Tropical Storm Gita, 2018, DR-4357</strong></td>
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<td>Hazard Mitigation Planning</td>
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<td>5% Initiative – Outreach</td>
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<td><strong>Gita Subtotal</strong></td>
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<tr>
<td><strong>TOTAL</strong></td>
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**5.4.1 Post-Tsunami Funding**

To aid in the recovery from the September 29, 2009 tsunami, the U.S. Department of Labor awarded the island a $25 million National Emergency Grant (NEG).

“In the wake of a devastating tsunami that eliminated one in eight jobs in the territory overnight, American Samoa received the largest National Emergency Grant ever awarded by the
US Department of Labor – nearly $25M – to support the recovery process. Within weeks, despite severely compromised infrastructure, the Department of Human Resources (DHR) - the agency charged with planning and implementing the NEG initiative - launched a public jobs program. NEG program staff recruited and employed over 2,361 people in cleanup and recovery efforts at 65 work sites between November 2009 and April 2010. They launched the program without an existing one-stop career center or other key Department of Labor assets common to states on the US mainland and in the context of a village-level community leaders and faith-based organizations with limited prior experience managing employment and recovery efforts on the scale required in the wake of the tsunami.  

“In 2010, the NEG Program, following the NEG disaster grant requirements issued by the US Department of Labor, shifted its focus to longer term workforce development including training, education, and helping the over two thousand NEG temporary workers and hundreds of unemployed job-seekers affected by the tsunami transition to new jobs or education and training aimed at helping them build careers.”

“The project’s deliverable included:

• A thirty-five-minute video documentary about the tsunami and NEG project called “From Tsunami to Renewal.”
• A report detailing the context, program, lessons, and results to date of the American Samoa National Emergency Grant Program.
• Profiles of three NEG initiatives that demonstrated creative responses to documented need, engaged new partners, and generated excitement among “the public” - people with no direct connection to the NEG program.
• A website and project archive that includes links and/or downloadable documents or videos cited in the report; “Stories from the Community” - video interviews produced by the story gatherers in which islanders described their experiences during the tsunami; and other relevant documents and resources.”

The Office of Insular Affairs provided a substantial amount of financial assistance in fiscal year 2011 to assist American Samoa in a variety of areas ranging from infrastructure improvements to health care services.

• A total of $10.5 million in CIP funding was awarded to American Samoa to address a variety of infrastructure needs including $2.6 million to renovate and expand the Dialysis Unit at the LBJ Tropical Medical Center; $1.6 million to continue building classroom buildings at elementary schools; and $380,000 to complete the Petesa Happy Valley Village Road project.

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The American Samoa Power Authority was awarded $596,000 in Empowering Insular Community funding for energy efficiency and conservation projects including a program to provide florescent bulbs to Manu’a residents and a recycling rebate project.

$600,000 was awarded to fund the American Samoa Air Transport Market Study through the Technical Assistance Program (TAP). The study will be to quantify and document the market demand for expanded air cargo and passenger transportation services at the territory’s Pago Pago International Airport.

$400,000 was awarded to fund Lyndon B. Johnson Hospital for Practitioner training. The funds will be used to train LBJ practitioners, by 4 board-certified physicians, in order to improve healthcare services.

USDA Rural Development in American Samoa

Since 2009, USDA Rural Development has assisted over 186 homeowners with over $1.3 million in Home Improvement and Repair Loans and Grant Programs.

American Samoa’s “Communal” land tenure system has prevented Rural Development from utilizing its flagship Direct and Guaranteed Loan Program (502 Loan Program). Rural Development has been working with the Development Bank of American Samoa to develop a Memorandum of Understanding to provide “security” for homeownership loans.

In 2011, a $110,000 Community Facilities Grant was awarded to the LBJ Hospital for the purchase of much needed microbiology equipment.

Rural Development is currently working on a $1.5 million Community Facilities loan application received from a faith-based school project.

Business and Industry (B&I) Guaranteed Loan. In 2010, a $16.7 million B&I Guaranteed Loan was approved with the American Samoa Hawaii Cable, LLC (ASHC) and American Samoa Cable, LLC (ASC) for the purchase of fiber optic cable. In addition, Rural Development is in discussion with Tri-Marine Group, Inc. for a $30 million B&I Guaranteed Loan for a tuna cannery processing facility.

In 2010, The American Samoa Telecommunication Authority (ASTCA) received an $81 million grant and $10 million loan under the America Recovery and Reinvestment Act. This project is being administered by the USDA Rural Development, Rural Utility Service under the Broadband Initiative Program.

In 2009 American Samoa Power authority received 2 grants totaling $3.14 million in High Energy Cost Grants provided for rural communities with home energy costs that are over 275 percent of the national average.

5.5 National Flood Insurance Program

In 1991, the Governor promulgated the Territory of American Samoa Floodplain Management Regulations through Executive Order 02-1991, to meet requirements for participating in the National Flood Insurance Program (NFIP). The Executive Order adopted the 1991 Flood Insurance Rate Maps (FIRMs) and declared that no structure could be constructed, located, extended, converted, or altered without full compliance with the terms of the regulations contained in the Executive Order and other
applicable regulations. It also states that violators of these regulations may be subject to sanctions, both civil and criminal, according to Title 24, Chapter 05, and Title 26, Chapters 02 and 10 of the American Samoa Code Annotated. The Executive Order appointed the Office of Economic Development and Planning, now the Department of Commerce, to administer and implement the Floodplain Management Regulations.

Communal land ownership in American Samoa results in 75% of homes being owned free and clear and only 10% have a mortgage. This may explain why so few homeowners purchase flood insurance. Also, American Samoa does not have any licensed flood insurance agents on island so anyone interested in flood insurance must consult a broker from Hawaii or New Zealand.216

At the present time, American Samoa has 51 active NFIP policies. More details regarding these policies is included in the Risk Assessment.

5.6 Summary of Obstacles and Challenges
Overall, American Samoa has successfully mitigated risk for several decades through the development of the Hazard Mitigation Plan and the work of the Hazard Mitigation Council. The culture of American Samoa gives chiefs or matais power over land use decisions in their village. The chiefs hold this power for life and their decisions supersede those of government plans or programs. This presents a challenge to implementing policies in villages as it limits government authority. In addition, the local villages do not develop their own land use or mitigation plans.

Another challenge is the Jones Act which forbids the transport of goods or passengers between two places in the same country by a transport operator from another country. This is known as a cabotage law. This law limits the flights in and out of American Samoa and between its islands which directly impacts the economy, medical care and evacuations. FEMA’s Advance Evaluation Team Report following Hurricane Gita mentioned the negative impact this law has on American Samoa.

Through a series of disasters impacting American Samoa, including the 2009 earthquake and tsunami, this Hazard Mitigation Plan has provided the Territory with a mitigation planning and risk reduction program and process that has been cost effective in reducing losses and impacts to the Territory of American Samoa for thirty years – since the inception and passage of the FEMA Hazard Mitigation Program. The following table summarizes the mitigation capabilities of the organizations named above.

<table>
<thead>
<tr>
<th>Organization</th>
<th>Disaster Mitigation Capabilities</th>
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</thead>
<tbody>
<tr>
<td>American Samoa Government Offices</td>
<td></td>
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</tbody>
</table>

| **Office of Disaster Assistance and Petroleum Management (ODAPM) formerly the Territorial Office of Fiscal Reform (TOFR)** | Manages pre- and post-disaster mitigation funding grants. Responsible for assisting the Hazard Mitigation Council with the development of the Hazard Mitigation Plan. |

**American Samoa Government Agencies**

| **American Samoa Environmental Protection Agency (ASEPA)** | Responsible for protecting all environmental resources and operates the only laboratory in American Samoa used for environmental testing. Leader in the PNRS. Identifies multiple projects for flood reduction and erosion control. Manages several environmental management programs. |
| **Department of Port Authority (DOP)** | Active participant in Hazard Mitigation Council. Responsible for mitigating risks to all ports including Pago Pago Harbor, Port, Marina and Airport facilities. |

**American Samoa Government Authorities**

| **American Samoa Power Authority (ASPA)** | Active participant in Hazard Mitigation Council. Responsible for mitigating risk to systems for electricity, water, and wastewater and solid waste management. Implementing multiple mitigation projects to underground power. Improving the Satala Power Plant with mitigation dollars. Also responsible for water supply. Interested in quickly implementing the Tualauta Flood Control project. |
| **American Samoa Telecommunications Authority (ASTCA)** | Active participant in Hazard Mitigation Council. |

**American Samoa Government Departments**

| **Department of Commerce (DOC)** | Active participant in Hazard Mitigation Council. Maintains a GIS database actively used for mitigation. Maintain several mitigation programs including a new mapping program. Interested in benefits of NFIP. Also, an active PNRS member. Managed Coastal Management Program. |
| **Department of Homeland Security (DHS)** | Active participant in Hazard Mitigation Council. Collaborates closely with TOFR on Mitigation Plan development. Implements disaster preparedness education programs. Assist with implementation of mitigation plan. |
| **Samoan Affairs** | Samoan Affairs promotes Samoan culture. The Hazard Mitigation Council consults with Samoan Affairs as needed regarding actions impacting the Territory or specific villages. |
The National Park of American Samoa works to protect Samoan culture and natural resources. They are involved with preserving the natural habitat on Mt. Alava.

Active participant in Hazard Mitigation Council. Enforces the building code standards and permitting process. Works on major mitigation projects. Focused on landslide mitigation and undergrounding utilities.

Work on coastal zone management regulations. Collaborate closely with other agencies.

Land Use Planning is a critical part of mitigation planning in American Samoa. The strengths and weaknesses of the PNRS system play directly into the resilience of the Territory.

Ongoing mitigation activities undertaken by the Department of Public Works, the Department of Commerce, the American Samoa Power Authority, and other government agencies are funded by the American Samoa Government, the U.S. Department of the Interior, the Department of Housing and Urban Development, and a wide range of other federal agencies. Building Code administration is funded by the American Samoa Government through the Department of Public Works. The U.S. Department of the Interior and the Office of Insular Affairs has provided capital improvement program and operations support, as well as maintenance and improvement program support for the construction of new buildings and infrastructure and hardening of existing buildings and infrastructure.

The Hazard Mitigation Council has identified funding options for the mitigation measures. American Samoa must match FEMA mitigation grant funds with a 25 percent local match. The Hazard Mitigation Council identified five sources of matching funds that qualify for FEMA grants:

1. Housing and Urban Development funds can be converted to non-federal mitigation fund match.
2. Department of Interior Capital Improvement Project funds have been used in the past to match other federal grants and FEMA grants.
3. American Samoa Power Authority and American Samoa Telecommunications Authority private matching funds.
4. General funds from the American Samoa Government treasury.
5. In-kind labor on all projects.

American Samoa’s hazard management capability has grown through the repeated yearly engagements of the Hazard Mitigation Council and the management of major mitigation projects that have improved life safety and reduced property losses throughout the Territory. Since 2008, the Territory has committed funds and expertise to completing multiple hazard mitigation projects. American Samoa now
Territory of American Samoa Hazard Mitigation Plan

has over two decades of mitigation accomplishments and has expanded its local technical expertise via projects that have been managed technically, fiscally, and administratively in a competent and prudent manner. The Territory has added tsunami evacuation signs, tsunami sirens, evacuation and mass-care training and is now a Tsunami Ready community as awarded by FEMA.

The Territory's Post Disaster mitigation grants are monitored and maintained by the ODAPM. The SHMO works closely with the Hazard Mitigation Council as well as the Governor's Authorized Representative to monitor these grants. The Hazard Mitigation Council has successfully applied for and received numerous grants for hazard mitigation projects since 1990. These projects have been funded through the FEMA Hazard Mitigation Grant Program and the Pre-disaster Mitigation Grant Program. ASPA, ASTCA and the Department of Public Works have become agencies cognizant with the Pre-Disaster Mitigation Program and the Hazard Mitigation Grant Program processes. The Territorial Hazard Mitigation Council has proven to be an effective review and advisory body for the Hazard Mitigation Plan. The Council has met from one to as many as seven times a year to complete an annual thorough project review and prioritization of projects for funding. Nine departments, organizations and agencies have developed mitigation project worksheets for future funding.

The 2020 Mitigation Plan update process has identified ODAPM as the key administrative office for managing mitigation project funding programs. The Department of Commerce continues to administer and effectively regulate the land use planning system known as the Permit Notification and Review System, the flood mitigation programs, and the Coastal Zone Program. The PNRS review has been enhanced through the instituted Territorial Hazard Assessment Tool risk management system, which utilizes the GIS mapping products. The Department of Commerce maintains a full-time GIS Professional for data collection and analysis.

American Samoa has made strides in several areas of environmental management that contribute to the overall health of the island environment and reduce vulnerability to hazards addressed in this Plan. The American Samoa Government has planned and implemented formal programs, which improve watershed management, reduce pollution and debris, and protect reef ecosystems. Coral reefs provide protection to the islands from storms. Without their protection, damage resulting from storm surge and waves would be far greater. Healthy watersheds can reduce impacts from flooding and erosion. There are efforts underway to improve watershed management with the explicit goal of reducing flooding. In addition, the ASEPA is placing emphasis on the landslide mitigation problem. With new LIDAR data in hand for the islands and geotechnical resources available, landslide hazards will be further mapped and entered into the PNRS system for review and mitigation during future building.