City of Saint Paul, Alaska Local Hazard Mitigation Plan









October 12, 2022

The Honorable Jacob Merculief City of Saint Paul P.O. Box 901 Saint Paul, Alaska 99660

Dear Mayor Merculief:

The United States Department of Homeland Security's Federal Emergency Management Agency (FEMA) Region 10, approved the City of Saint Paul, Alaska Local Hazard Mitigation Plan effective October 11, 2022, through October 10, 2027, in accordance with the planning requirements of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), as amended, the National Flood Insurance Act of 1968, as amended, the Water Infrastructure Improvements for the Nation Act and Title 44 Code of Federal Regulations Part 201.

A FEMA-approved local mitigation plan is a condition of receiving certain non-emergency Stafford Act assistance and FEMA mitigation grants from the following programs:

- Hazard Mitigation Grant Program
- Building Resilient Infrastructure and Communities
- Flood Mitigation Assistance

FEMA individually evaluates all application requests for funding according to the specific eligibility requirements of the applicable program. Though a specific mitigation activity or project identified in the plan may meet the eligibility requirements, it may not automatically receive approval for FEMA funding under any of the programs.

Approved mitigation plans may be eligible for points under the National Flood Insurance Program's Community Rating System. For additional information regarding the Community Rating System, please visit: www.fema.gov/national-flood-insurance-program-community-rating-system or contact your local floodplain manager.

Over the next five years, we encourage your communities to follow the plan's schedule for monitoring and updating, and to develop further mitigation actions. To continue eligibility, jurisdictions must review, revise as appropriate, and resubmit the plan within five years of the original approval date.

Mayor Merculief October 12, 2022 Page 2

If you have questions regarding your plan's approval or FEMA's Mitigation Grant Programs, please contact, Erin Leader, State Mitigation Planner with Alaska Division of Homeland Security and Emergency Management, at (907) 428-7055, who coordinates and administers these efforts for local entities.

Sincerely,

Kristen Meyers, Director Mitigation Division

cc: Terry Murphy, Alaska Division of Homeland Security and Emergency Management



CITY OF SAINT PAUL

Alaska

RESOLUTION 22-15

A RESOLUTION ADOPTING THE UPDATED CITY OF SAINT PAUL, ALASKA LOCAL HAZARD MITIGATION PLAN

WHEREAS, the City of Saint Paul, Alaska recognizes the threat that local natural and man-made hazards pose to people and property, and;

WHEREAS, over past months, the City has worked with a consultant to assess risks posed by natural and man-made disasters and develop strategies to protect life and property in the community from future hazard events, and;

WHEREAS, hazards addressed in the plan include climate change, earthquake, hazardous materials, severe weather, tsunami, and other hazards, and;

WHEREAS, undertaking hazard mitigation projects before disasters occur will reduce the potential for harm to people and property and save taxpayer dollars, and;

WHEREAS, an adopted Local Hazard Mitigation Plan is required as a condition of future grant funding for mitigation projects, and;

WHEREAS, the updated City of Saint Paul, Alaska Local Hazard Mitigation Plan has been sent to the Alaska Division of Homeland Security and Emergency Management and the Federal Emergency Management Agency and it has received their approval, and;

WHEREAS, the City of Saint Paul will provide this resolution to the Alaska Division of Homeland Security and Emergency Management and the Federal Emergency Management Agency officials, and;

NOW, THEREFORE BE IT RESOLVED, that the Council of the City of Saint Paul does hereby adopt the City of Saint Paul, Alaska Local Hazard Mitigation Plan as attached.

PASSED AND ADOPTED BY APPROVAL OF THE COUNCIL OF THE CITY OF SAINT PAUL THIS 7^{TH} DAY OF OCTOBER, 2022 BY $\underline{5}$ IN FAVOR $\underline{0}$ OPPOSED AND $\underline{0}$ ABSTAIN.

ATTEST:

Monique Baker, City Clerk

Jacob N. Merculief, Mayor

CITY OF SAINT PAUL, ALASKA 2022 LOCAL HAZARD MITIGATION PLAN

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LIST OF ACRONYMS AND ABBREVIATIONS

°F degrees Fahrenheit

AECOM Technical Services, Inc. AVO Alaska Volcano Observatory

BCA Benefit-cost analysis

BRIC Building Resilient Infrastructure and Communities

CFR Code of Federal Regulations
COVID-19 coronavirus disease 2019

DMA 2000 Disaster Mitigation Act of 2000 EHS Extremely Hazardous Substance EMS Emergency Medical Services

FEMA Federal Emergency Management Agency

GIS Geographic Information System
HMA Hazard Mitigation Assistance
HMGP Hazard Mitigation Grant Program
LHMP Local Hazard Mitigation Plan

M Magnitude

NFIP National Flood Insurance Program

NOAA National Oceanographic and Atmospheric Administration

PGA Peak Ground Acceleration

SARS-CoV-2 severe acute respiratory syndrome coronavirus-2 SNAP Scenarios Network for Alaska + Arctic Planning

STAPLEE social, technical, administrative, political, legal, environmental, and economic

US United States

USGS United States Geological Survey

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1 Introduction

1.1 CITY OF SAINT PAUL, ALASKA OVERVIEW

The City of Saint Paul, Alaska (City of Saint Paul) is in the central Bering Sea in the Pribilof Islands. The main population center of the City of Saint Paul is on a narrow peninsula on the southern tip of Saint Paul Island, the largest of the four islands and main settlement in the Pribilof Islands (Figure 1). The city encompasses a total 295.5 square miles, with 40.3 square miles of land and 255.2 square miles of water.

The city was incorporated in 1971. According to local census data, the population of the City of Saint Paul is 357 (2022). The population of the City of Saint Paul is predominately Alaska Native. The City of Saint Paul is in the Aleutians West Census Area.

1.2 HAZARD MITIGATION PLANNING

As defined in Title 44 of the Code of Federal Regulations (CFR), Subpart M, Section 206.401, hazard mitigation is "any action taken to reduce or eliminate the long-term risk to human life and property from natural hazards." As such, hazard mitigation is any work to minimize the impacts of any type of hazard event before it occurs. Hazard mitigation aims to reduce losses from future disasters. It is a process that identifies and profiles hazards, analyzes the people and facilities at risk, and develops mitigation actions to reduce or eliminate hazard risk. The implementation of the mitigation actions—which include short- and long-term strategies that may involve planning, policy changes, programs, projects, and other activities—is the end result of this process.

Over the past two decades, local hazard mitigation planning has been driven by a federal law, known as the Disaster Mitigation Act of 2000 (DMA 2000). On October 30, 2000, Congress passed the DMA 2000 (Public Law 106-390), which amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988 (Title 42 of the US Code Section 5121 et seq.) by repealing the act's previous mitigation planning section (409) and replacing it with a new mitigation planning section (322). This new section emphasized the need for state, tribal, and local entities to closely coordinate mitigation planning and implementation efforts. This new section also provided the legal basis for the Federal Emergency Management Agency's (FEMA's) mitigation plan requirements for the Hazard Mitigation Assistance (HMA) grant programs.

1.3 2022 LOCAL HAZARD MITIGATION PLAN SYNOPSIS

To meet the requirements of the DMA 2000, the City of Saint Paul is updating its 2016 Local Hazard Mitigation Plan (LHMP). The goal of this planning process is to assess risks posed by hazards and to develop prioritized action plans to reduce risks in the City of Saint Paul. The 2022 LHMP is organized to follow FEMA's Local Mitigation Plan Review Tool (Appendix B), which demonstrates how hazard mitigation plans meet the DMA 2000 regulations. As such, specific planning elements of this review tool are in their appropriate plan sections.

The 2022 LHMP structure has been updated to include the following sections:

- **Section 1 Introduction** introduces the City of Saint Paul and provides information on hazard mitigation planning.
- **Section 2 Planning Process** includes an overview of the planning process, starting with a timeline. This section includes identification of planning team members and describes their involvement with the planning process. This section also includes details on stakeholder outreach,

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public involvement, and continued public involvement. It provides an overview of the existing plans and reports, details how those documents were incorporated into the 2022 LHMP and provides a plan update method and schedule. Supporting planning process documentation is provided in Appendix C.

- **Section 3 Hazard Identification** includes a description of each of the nine hazards addressed in this plan. Hazard figures are provided in Appendix A.
- Section 4 Risk Assessment includes hazard impact tables or descriptions for land area, population centers, and critical facilities. An overall summary of vulnerability for each hazard is also provided.
- Section 5 Mitigation Strategy includes a description of the City of Saint Paul's mitigation goals; potential mitigation actions and projects; and prioritization process. A capability assessment, prioritized action plan, and the process to integrate the 2022 LHMP into other planning mechanisms are also addressed.
- Section 6 Plan Review includes an overview of development changes that have occurred since the 2018 plan, the progress in local mitigation efforts, and changes in priorities for mitigation actions.
- Section 7 Plan Adoption includes information about the formal adoption.
- Section 8 Appendices include Appendix A (Figures), Appendix B (FEMA's Local Mitigation Plan Review Tool), and Appendix C (Planning Process).

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2 PLANNING PROCESS

This section addresses Element A of the Local Mitigation Plan Regulation Checklist.

Regulation Checklist - 44 CFR 201.6 Local Mitigation Plans

Element A: Planning Process

- A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1))
- A2. Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))
- A3. Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))
- A4. Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))
- A5. Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement $\S201.6(c)(4)(iii)$)
- A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement $\S 201.6(c)(4)(i)$)

2.1 OVERVIEW OF THE 2022 LHMP PLANNING PROCESS

The development of the 2022 LHMP was collaborative effort between the City of Saint Paul, AECOM Technical Services, Inc. (AECOM), and a planning team. The planning process officially kicked off in December 2021 and ended in September 2022. A timeline of the major planning tasks and milestones by month, including the three times the planning team met, is provided in Table 2-1. A list of the planning team members and how they contributed to the development of the plan is provided in Table 2-2. Planning team agendas are provided in Appendix B.

Table 2-1: LHMP Timeline

Date	Tasks	People Involved
December 2021	LHMP kick-off call Initial information collected: hazards to be profiled, critical facility information mapped	LHMP project manager, consultant, planning team
January 2022	Initial public outreach and stakeholder involvement Hazard profiles drafted	LHMP project manager, consultant, planning team
February 2022	Hazard figures created; hazard impact assessments drafted	consultant
April 2022	Draft mitigation actions developed	Consultant, LHMP project manager
May 2022	Second planning team meeting (draft mitigation actions reviewed)	LHMP project manager,
.,	Prioritization action plan developed Integration of LHMP into other planning documents determined	consultant, planning team

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Date Tasks **People Involved** LHMP project manager, May 2022 Internal Draft LHMP consultant, planning team Public Draft LHMP LHMP project manager, June 2022 consultant, public Follow-up public outreach and stakeholder involvement LHMP project manager, consultant, Alaska Division of Homeland September 2022 Final Draft LHMP Security and Emergency Management, FEMA Region X LHMP project manager, October 2022 Adoption of Final LHMP City of Saint Paul City Council, consultant

Table 2-1: LHMP Timeline

Table 2-2: Planning Team

Name	Department/Agency, Title	Contribution
Philip Zavadil	City of Saint Paul, Administration Department, City Manager, LHMP project manager	Served as the LHMP project manager. Led planning team meetings; reviewed and commented on hazard figures, risk assessment tables, mitigation strategies, and the Internal Draft LHMP.
Lynn Sterbenz	City of Saint Paul, Administration Department, Projects/Grants Specialist	Participated in planning team meetings and/or reviewed planning team documents; reviewed and commented on hazard figures, mitigation strategies, and the Internal Draft LHMP.
Michael Castro	City of Saint Paul, Department of Public Safety, Director of Public Safety/Chief of Police	Participated in planning team meetings and/or reviewed planning team documents; reviewed and commented on hazard figures, mitigation strategies, and the Internal Draft LHMP.

2.2 OPPORTUNITIES FOR STAKEHOLDERS

On January 6, 2022, the LHMP project manager reached out to stakeholders via email (Appendix C) about the 2022 LHMP and invited them to participate in the planning process. Stakeholders included Aleut Community of Saint Paul Island (President), Aleut Corporation (Shareholder Relations), Central Bering Sea's Fishermen's Association (Chief Operating Officer), Coastal Transportation, Inc. (Vice President), Lynden Air Cargo, National Oceanographic and Atmospheric Administration (NOAA) (Pribilof Islands Program Manager and Fur Seal Research Coordinator), Pribilof School District (Superintendent/K-12 principal), State of Alaska, Department of Homeland Security and Emergency Management (Hazard Mitigation Planner), State of Alaska, Department of Transportation and Public Facilities (Kodiak/Aleutian District Superintendent), TDX Corp (Chief Executive Office / Vice-Chairperson of the Board), Trident Seafoods (Western Alaska Operation Manager), and US Fish and Wildlife Service (Refuge Manager).

Comments were received from the Pribilof School District and Trident Seafoods in January 2022. The Superintendent / K-12 principal of the Pribilof School District requested clarification on school-based

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hazard planning; the planning team lead responded that the hazard mitigation plan is community-wide and not specific to the schools. The planning team lead also pointed out that the school gym has been identified in the plan as a potential shelter. The Western Alaska Operations Manager of Trident Seafoods suggested a mitigation strategy for shelters and supplies to be included in the plan. A copy of the email and a summary of comments received are provided in Appendix C.

The LHMP project manager reached out to the stakeholders again via email on June 24, 2022, inviting them to review and provide comments about the Public Draft LHMP. The Aleut Community of St. Paul Island requested an additional week to review the plan and then provided comments on July 22, 2022 related to a clarification of the status of their Tribal Hazard Mitigation Plan, and a correction on the federally-recognized name. Additional comments received related to a separate Local Emergency Planning Committee and their contributions on the LHMP. A copy of the emails and a summary of comments received are provided in Appendix C.

2.3 Public Involvement

The City of Saint Paul posted information about the 2022 LHMP kickoff in the City's February 2022 issue of Berings, the City's monthly emailed newsletter (Appendix C). No public comments were received.

Also, on June 24, 2022 the City of Saint Paul posted information about the Public Draft LHMP and comment period on the City's website, on the City's Facebook page, and at City Hall. Copies of the City of Saint Paul's newsletters and a summary of public comments received are provided in Appendix C. All newsletters can be found on the City's website.

2.4 REVIEW AND INCORPORATION OF EXISTING PLANS AND REPORTS

A list of the major relevant plans and reports reviewed and incorporated into the 2022 LHMP is provided in Table 2-3.

Plans and Reports Information to be Incorporated into the 2022 LHMP Aleut Community of St. Paul Island Tribal Government, 2020. Tribal Hazard Mitigation Plan compatibility and community-wide information Plan Baker, Monique, City Clerk, City of Saint Paul, Alaska. June 2022. City of Saint Paul Local City of Saint Paul overview Census. City of Saint Paul, 2016. Alaska Draft Hazard Mitigation actions Mitigation Plan Update City of Saint Paul, 2008. Alaska Local Multi-Mitigation actions Hazard Mitigation Plan Markon, C., S. Gray, M. Berman, L. Eerkes-Medrano, T. Hennessy, H. Huntington, J. Littell, M. McCammon, R. Thoman, and S. Climate change hazard profile; nature Trainor, 2018, Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II State of Alaska. 2018. State Hazard Mitigation Hazard profiles Plan

Table 2-3: Existing Plans and Reports

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Table 2-3: Existing Plans and Reports

Plans and Reports	Information to be Incorporated into the 2022 LHMP
Stabeno, P.J., Thoman, R.L., and Wood, K. 2019. Recent Warming in the Bering Sea and Its Impact on the Ecosystem. In NOAA Arctic Report Card; Update for 2019.	Climate change hazard profile; history (sea ice maximum extent)
State of Alaska, Department of Environmental Conservation Division of Spill Prevention and Response, 2007. Ten Year Statewide Summary Oil and Hazardous Substance Spill Data	Hazardous materials event hazard profile; history
State of Alaska, Division of Geological & Geophysical Surveys, 2020. Regional Tsunami Hazard Assessment for Communities of Bristol Bay and the Pribilof Islands, Alaska.	Tsunami hazard profile; location and extent/severity
State of Alaska, Division of Public Health, 2017. Alaska Facts and Figures: 1918 Pandemic Influenza Mortality in Alaska.	Infectious disease hazard; history
US Fish and Wildlife Service. 2019. 2019 Alaska seabird Die-off Fact Sheet.	Climate change hazard profile; extent/severity (impact on marine ecosystems)
US Army Corps of Engineers, 2007. Alaska Baseline Erosion Assessment, Erosion Information Paper – Saint Paul, Alaska	Erosion hazard; location and extent/severity

2.5 CONTINUED PUBLIC PARTICIPATION

A copy of the 2022 LHMP will remain available at the City's office and website along with contact information. The LHMP project manager will use the City of Saint Paul's monthly emailed newsletter to notify the public of, and seek input on, any changes or updates to the 2022 LHMP, including prioritized action plan and the 2027 LHMP kickoff.

2.6 PLAN UPDATE METHOD AND SCHEDULE

The 2022 LHMP will be monitored, evaluated, and updated by a subset of the planning team, specifically the LHMP project manager, specifically the city manager in the administration department. Should the 2022 LHMP project manager no longer be involved with the 2027 LHMP, the project manager and/or City Council will select a new LHMP project manager to oversee the annual reviews and plan update.

The LHMP project manager will get input from specific planning team members as needed. The LHMP project manager will complete the Annual Review Tracker every January and after any major disaster to ensure that the 2027 LHMP is relevant and effective in achieving the plan's goals. Annual review will be tracked in a table in this document (Table 2-4). FEMA-funded mitigation projects will continue to be tracked and reviewed using FEMA Mitigation Progress Report forms; progress summaries will be included in the Annual Review Tracker (Table 2-4) at the beginning of each year.

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Four years after the 2022 LHMP's adoption:

- The city manager or designee will complete the Annual Review Tracker.
- The city manager or designee will reconvene the planning team and update membership, if necessary.
- The city manager or designee will review Table 2-4, which provides annual summaries of the disasters that have occurred; new permanent information that becomes available; implementation measures; and public outreach and response to determine the hazards to be included in the next LHMP.
- The city manager or designee will develop a new work plan.
- The city manager or designee —with support from the planning team—will begin the plan update process, which is expected to take up to 6 months.

Table 2-4: Annual Review Tracker

Year	Disasters that Occurred	Mitigation Actions Implemented	New Relevant Studies/Reports to Include in 2022 LHMP	Public Outreach Conducted	Changes Made to 2022 LHMP
2023					
2024					
2025					
2026					

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3 HAZARD IDENTIFICATION AND RISK ASSESSMENT

This section addresses Element B of the Local Mitigation Plan Regulation Checklist.

Regulation Checklist - 44 CFR 201.6 Local Mitigation Plans

Element B: Hazard Identification and Risk Assessment

- B1. Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement § 201.6(c)(2)(ii))
- B2. Does the Plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement § 201.6(c)(2)(i))

Hazard identification consists of describing the nature of the hazard, disaster history, location, extent/severity, and probability of future events. Hazard identification profiles have been developed for each of the hazards addressed in Section 3.1 through Section 3.9. The hazards profiled for this LHMP are discussed in alphabetical order and not hazard classification. The order does not signify level of risk.

The City of Saint Paul is a remote island community accessible via sea and air. Of particular concern is the impact of hazards on shipments and deliveries of fuel and supplies which are delivered from outside the community. According to the Alaska Division of Community and Regional Affairs, The City of Saint Paul receives most perishable groceries from air. Cargo vessels from Seattle arrive approximately every six weeks carrying dry and frozen goods plus large items such as furniture, autos, construction materials, and personal orders.

3.1 CLIMATE CHANGE

Table 3-1: Climate Change

Profile	Description
Nature	Climate is defined as the average statistics of weather, which includes temperature, precipitation, and seasonal patterns in a particular region. Climate change refers to the long term and irrevocable shift in these weather-related patterns. The Fourth National Climate Assessment Report (2018) states that Earth's climate is now changing at a faster rate than at any time in the history of modern civilization, primarily due to human activities. The disruption in the climate is already impacting the way people live, the food they grow, their health, the wildlife, the availability of water, and much more. The impacts of global climate change are being felt today, from sea level rise and storm surge in coastal areas, increased riverine flooding and stormwater inundation; more frequent and
	prolonged higher temperatures (leading to heat events, wildfires, and permafrost thaw); and more severe and frequent extreme weather events. Changing climate conditions are more pronounced in the polar regions. Alaska is often identified as being at the forefront of climate change because it is warming faster than any other state and
	faces multiple issues associated with a changing climate.
Location	All of the City of Saint Paul is affected by increased temperatures and rainfall as a result of climate change. Along Saint Paul Island's coastline, sea level rise combined with a shift in the timing and extent of sea ice and storm surge have caused flooding and erosion. In addition, cliffs along the southeastern side of the island have been subject to erosion because the timing and extent of freezing temperatures that normally would help stabilize the cliffs has been altered.
History	The Fourth National Climate Change Assessment Report (2020) states that the impacts of climate change are already being felt today. The changes are due to the increased atmospheric concentrations of greenhouse gases since the industrial revolution (mid 1800s). Alaska has warmed twice as fast as the global average since the mid-twentieth century.
	The Alaska Climate Research Center observed a change of annual average daily temperature in the City of Saint Paul from 34.4°F from 1950-1960, to 36.7°F from 2010-2020 (a 7% increase). During that time period, Alaska Climate Research Center also observed an increase of annual precipitation from 23.7 inches to 26 inches (11% increase) in the City of Saint Paul.
Extent / Severity	The University of Alaska Fairbanks Scenarios Network for Alaska + Arctic Planning (SNAP) models climate data for mid-range global emissions. SNAP temperature models show that the City of Saint Paul will experience a temperature increase of 4.9 degrees Fahrenheit (°F) (12.9%) by the end of the century. Likewise, precipitation models show that for the same reporting period the City of Saint Paul will experience an average rainfall increase of 3.3 inches (13.7%). NOAA reported record low maximum sea-ice extent levels in 2018 and 2019 in the Bering Sea. The levels measured in 2018 and 2019 are less than half of the long-term mean (1980-2010).
	Climate change is a significant and lasting change in the statistical distribution of weather patterns over periods of time ranging from decades to millions of years. It may be a change in average weather conditions or in the distribution of weather around the average conditions (i.e., more or fewer extreme weather events).
Recurrence Probability	According to the National Aeronautics and Space Administration, "the current warming trend is of particular significance because most of it is extremely likely (i.e., greater than 95% probability) to be the result of human activity since the mid-twentieth century and proceeding at a rate that is unprecedented over decades to millennia." The National Aeronautics and Space Administration also states that "scientists have high confidence that global temperatures will continue to rise for decades to come, largely due to greenhouse gases produced by human activities.

3.2 EARTHQUAKE

Table 3-2: Earthquake

Profile	Description
	An earthquake is a sudden motion or trembling caused by a release of strain accumulated within or along the edge of Earth's tectonic plates. The effects of an earthquake can be felt far beyond the site of its occurrence. Earthquakes usually occur without warning and can cause massive damage and extensive casualties in a few seconds. Common effects of earthquakes are ground motion and shaking; surface fault ruptures; and ground failure. Ground motion is the vibration or shaking of the ground during an earthquake. When a fault ruptures, seismic waves radiate causing the ground to vibrate. The severity of the vibration increases with the amount of energy released and decreases with distance from the causative fault or epicenter. Soft soils can amplify ground motions. In addition to ground motion, several secondary hazards can occur from earthquakes, such as the following:
Nature	 Surface faulting, which is the differential movement of two sides of a fault at the Earth's surface. Displacement along faults—in terms of both length and width—varies but can be significant (e.g., up to 20 feet), as can the length of the surface rupture (e.g., up to 200 miles). Surface faulting can cause severe damage to linear structures including railways, highways, pipelines, tunnels, and dams. Liquefaction occurs when seismic waves pass through saturated granular soil, distorting its granular structure and causing some of the empty spaces between granules to collapse. Pore water pressure may also increase sufficiently to cause the soil to behave like a fluid for a brief period and cause deformations. Liquefaction causes lateral spreads (i.e., horizontal movements, typically 10 to 15 feet, but up to 100 feet), flow failures (i.e., massive flows of soil, typically hundreds of feet, but up to 12 miles), and loss of bearing strength (i.e., soil deformations causing structures to settle or tip). Liquefaction can cause severe damage to property. Landslides/debris flows occur as a result of horizontal seismic inertia forces induced in the slopes by the ground shaking. The most common earthquake-induced landslides include shallow, disrupted landslides such as rock falls, rockslides, and soil slides. Debris flows are created when surface soil on steep slopes becomes totally saturated with water. Once the soil liquefies, it loses the ability to hold together and can flow downhill at very high speeds, taking vegetation and/or structures with it. Slide risks increase after an earthquake during a wet winter. The two most common measures of earthquake intensity used in the US are the Modified Mercalli Intensity scale, which measures felt intensity; and peak ground acceleration (PGA), which measures instrumental intensity by quantifying how hard the earth shakes in a given location. Magnitude (M) is measured by the amplitude of the earthquake waves recorded on a seismograph using a log
Location	The Alaska Earthquake Center describes the central region of the Bering Sea as virtually aseismic, (lacking earthquake activity) and Alaska's Division of Geological and Geophysical Surveys does not have a fault mapped within several hundred miles of the Pribilof Islands (Figure 2). The closest mapped fault is the Alaska-Aleut Megathrust subduction zone fault, over 350 miles to the south. A large earthquake at this fault zone could be strong enough to impact Saint Paul Island. However, Saint Paul Island could also be impacted by earthquake swarms, or a series of earthquakes that is different from a typical mainshock-aftershock sequence and can occur in areas not typically associated with a fault line.

Table 3-2: Earthquake

Profile	Description
	The Alaska Earthquake Center lists three earthquakes that occurred in the Bering Sea from 1991 through 2021:
	1991: A M 6.5 earthquake in the Bering Sea was felt on Saint Paul Island, Pribilof Islands and at Adak, Andreanof Islands. It caused a small tsunami.
History	• 2010: Bering Sea Earthquakes (M 6.5 and 6.3) (approximately 330 miles from the City of Saint Paul)
	• 2015: Pribilof Island Swarm; more than 100 events were recorded with M between 2.8 and 5.4.
	No earthquakes over M 5.0 have occurred since the 2016 LHMP.
Extent / Severity	The strength of an earthquake's ground movement can be measured by PGA. PGA measures the rate in change of motion relative to the established rate of acceleration due to gravity (g = 980 centimeters per second). PGA is used to predict the risk of damage from future earthquakes by showing earthquake ground motions that have a specified probability (e.g., 10%, 5%, or 2%) of being exceeded in 50 years. The ground motion values are used for reference in construction design for earthquake resistance and can also be used to assess the relative hazard between sites when making economic and safety decisions.
	The current US Geological Survey seismicity model for Alaska was developed in 2007. For the City of Saint Paul, there is a 5% probability of an earthquake with a PGA of 6.35 occurring within 50 years, as shown in Figure 2. Based on this model, 100% of the City of Saint Paul is in a moderate perceived shaking zone.
Recurrence Probability	According to the US Geological Survey's Probabilistic Seismic Hazard Analysis Maps, there is a 5% probability of an earthquake resulting in moderate perceived shaking and exceeding 6.35 PGA in the next 50 years in the City of Saint Paul (Figure 2).

3.3 Erosion

Table 3-3: Erosion

Profile	Description
	Erosion is the wearing and transportation of land. Erosion is typically gradual land loss through wind or water scour. In developed regions, erosion undermines buildings and infrastructure. Erosion can be experienced from coastal, riverine, or wind sources. Erosion forces are embodied in waves, currents, and winds; surface and groundwater flow; and freeze-thaw cycles may also play a role. Not all of these forces may be present at any particular location. In the US, Alaska is unique because of how permafrost thaw interacts with flooding and erosion to exacerbate the impacts of these hazards. Frozen ground can disintegrate under the compounding influences of permafrost thaw, flooding, and erosion in an escalating feedback loop that can result in damage that is much greater than would be expected from the individual processes alone. Coastal erosion is a common term used to describe the retreat of the shoreline along the ocean. It
Nature	describes the attrition of land resulting in loss of beach; shoreline; or dune material from natural activity or human influences and rarely causes death or injury. However, erosion can cause property destruction, prohibit development, and impact community infrastructure. Erosion can occur rapidly as the result of floods, storms, or other event; or slowly as the result of long-term environmental changes such as melting permafrost. Erosion is a natural process, but its effects can be easily exacerbated by human activity.
	Coastal erosion can occur from rapid short-term daily, seasonal, or annual natural events such as waves, storm surge, wind, coastal storms, and flooding; or from human activities including boat wakes and dredging. The most dramatic erosion often occurs during storms, particularly because the highest energy waves are generated under storm conditions.
	Coastal erosion occurs over the area from roughly the top of the shore into the nearshore region to about 30 feet water depth. It is measured as the rate of change in the position or horizontal displacement of a shoreline over a period of time. Bluff recession is the most visible aspect of coastal erosion because of the dramatic change it causes to the landscape. As a result, this aspect of coastal erosion usually receives the most attention.
	Coastal erosion may also be due to multi-year impacts and long-term climatic change such as sealevel rise; lack of sediment supply; subsidence; or long-term human factors such as aquifer depletion or the construction of shore protection structures and dams. Attempts to control erosion using shoreline protective measures such as groins, jetties, seawalls, or revetments can lead to increased erosion.
Location	There are three areas identified by the City of Saint Paul as heavily impacted by coastal erosion, shown in Figure 3: adjacent to one of the cemeteries in the southeast area near Lukanin Bay, on Southwest Point Road approximately 3 miles west of the population center near Southwest Bay, and on Northeast Point Road about 12 miles northeast of the City of Saint Paul.
History	The City of Saint Paul is periodically eroded by high tides, storm surges, wind, and waves. Warming weather related to climate change makes cliffs less stable during periods of strong wind or waves and leading to more severe erosion. No major erosion events have occurred.
Extent / Severity	The statewide threat assessment conducted by the Denali Commission in 2019 placed the City of Saint Paul in erosion severity group 2, defined as an area where the threat of erosion not expected to detrimentally impact critical infrastructure, but the community is still vulnerable to the threat and more research and data collection are needed. According to the Army Corps of Engineers in 2007 and in reference to a community survey, the rate of erosion estimated in the City of Saint Paul is 2.5 feet per year.
Recurrence Probability	The community should expect erosion to continue at the current estimated rate of approximately 2.5 feet per year. As the temperature continues to be warmer, erosion will accelerate as coastal landforms that have not frozen and stabilized become for frequently exposed to strong storms.

3.4 HAZARDOUS MATERIALS EVENT—AMMONIA

Table 3-4: Hazardous Materials Event —Ammonia

Profile	Description
	Hazardous materials are substances that may have negative effects on health or the environment. Exposure to hazardous materials may cause injury, illness, or death. Effects may be felt over seconds, minutes, or hours (short term); or not emerge until days, weeks, or even years after exposure (long term). In addition, some substances are harmful after single exposures of short duration, while others require long episodes of exposure or repeated exposure over time to create harm.
	Hazardous materials that pose the greatest risk for causing catastrophic emergencies, as identified by the Environmental Protection Agency, are classified as Extremely Hazardous Substances (EHSs). Releases of EHSs and other hazardous substances can occur at facilities or during transport.
Nature	In addition to accidental, human-caused hazardous material events, natural phenomena may cause the release of hazardous materials and complicate response activities. Earthquakes pose a particular risk because they can damage or destroy facilities containing hazardous substances. The threat of any hazardous material event may be amplified by restricted access; reduced fire suppression and spill containment capability; and even complete cutoff of response personnel and equipment.
	Hazardous materials events or releases can also cause a host of secondary effects, depending on the nature and size of the incident.
	The Environmental Protection Agency lists ammonia as an EHS. Ammonia is used as a refrigerant at commercial fishery facilities in the City of Saint Paul. Ammonia is a toxic gas under ambient conditions.
Location	Ammonia (an EHS) is stored in tanks at the Trident Seafoods Saint Paul Plant Seafood Processing Facility in the City of Saint Paul (Figure 4).
History	According to the Alaska Department of Environmental Conservation, during the period between 2001 and 2022, there were 18 ammonia spills in the City of Saint Paul, the largest of which was 1,600 pounds released from Trident Seafoods in 2013. The most recent was a small release from Trident Seafoods in February 2022.
Extent / Severity	Releases of ammonia have the potential for harmful health effects on workers and the public, including burning of the eyes, nose, throat, and respiratory tract and can result in blindness, lung damage, or death. Of particular concern is the location of the ammonia tanks in close proximity to tanks storing fuel in the City of Saint Paul, a combined event could result in a significant and dangerous explosion.
Recurrence Probability	On average, ammonia spills occur in the City of Saint Paul once per year based on records from 2001 through 2022. The number per year is highly variable with a range of 0 to 7 spills per year. If this pattern were to continue, the City of Saint Paul could experience a range of spills from 0 to less than 10 per year.

3.5 INFECTIOUS DISEASE

Table 3-5: Infectious Disease

Profile	Description
	A disease is a pathological condition of a part, organ, or system of a living organism resulting from various causes (e.g., infection or exposure to toxins) and characterized by an identifiable group of signs or symptoms. The major concern here is an epidemic, when a disease affects a disproportionally large number of individuals within a population, community, or region at the same time, or pandemic that affects the world. Infectious diseases are diseases caused by a pathogen that enters the body, triggering development of an infection. Such pathogens may include bacteria, viruses, fungi, or parasites. Infectious diseases can have a range of causes and are often contagious or communicable, meaning they can
Nature	be passed from person to person. They can be transmitted through numerous modes, including direct contact (person-to-person, animal-to-person, or mother-to-unborn child), insect bites, food and water contamination, or airborne inhalation. Many infectious diseases can make the body vulnerable to secondary infections, which are caused by other organisms taking advantage of an already weakened immune system.
Nature	According to the Global Health Council, over 9.5 million people die each year from infectious diseases. Although progress has been made to control or eradicate many infectious diseases, humans remain vulnerable to many new emerging organisms (such as the coronavirus disease 2019 [COVID-19] caused by severe acute respiratory syndrome coronavirus-2 [SARS-CoV-2]) a novel coronavirus discovered in 2019). In addition, previously recognized pathogens can evolve to become resistant to available antibiotics and other treatments. For example, malaria, tuberculosis, and bacterial pneumonias are appearing in new forms that are resistant to drug treatments. The spread of infectious diseases also increases with population growth and the ease of travel.
	The State of Alaska Department of Health and Social Services, Division of Public Health has established a list of 19 infectious diseases requiring healthcare providers to report immediately and 49 additional infectious diseases with routine reporting (i.e., within 2 working days). These diseases are those of public interest by reason of their communicability, severity, or frequency.
Location	The entire City of Saint Paul is susceptible to infectious diseases.
History	 Notable historical outbreaks, epidemics, and pandemics in Alaska include: 1918 to 1919: The influenza pandemic resulted in 1,113 deaths during the 2-year pandemic period (population of Alaska was almost 58,000 people in 1917). Half of all deaths in Alaska during that time period were attributable to influenza. 1925 Diphtheria epidemic, Nome (approximately 540 miles from the City of Saint Paul). 1957, 1968, and 2009: Influenza pandemics. 2019 to present: COVID-19 pandemic, first confirmed in Alaska in March 2020. As of May 18, 2022, there have been 249,522 confirmed total cases and 1,252 deaths related to COVID-19 in Alaska. In the Aleutian-West Census Area, which includes the Pribilof Islands where the City of Saint Paul is located, there were 874 total cases as of May 18, 2022.

Table 3-5: Infectious Disease

Profile	Description			
Extent / Severity	Each infectious disease has a different pathogenicity, which can affect the probability of occurrence and the extent of occurrence. In addition, infectious diseases are affected by factors such as environmental changes; human behavior and demographics; and technological advancement. According to the Mayo Clinic, most infectious diseases only have minor complications; however, some can be life threatening.			
	When a disease affects a greater portion of the population than would normally be expected, it is called either an outbreak (if limited in geography) or an epidemic. An epidemic that spreads across countries or continents is called a pandemic. Depending on the organism, outbreaks, epidemics, or pandemics may be considered public health emergencies that require timely implementation of appropriate control measures. Such emergencies are commonly addressed through quarantine and immunization.			
Recurrence Probability	The probability and magnitude of an infectious disease occurrence is difficult to evaluate due to the wide variation in disease characteristics, such as rate of spread; morbidity and mortality; detection and response time; and the availability of vaccines and other forms of prevention.			

3.6 SEVERE WEATHER

Table 3-6: Severe Weather

Profile	Description			
	Severe weather occurs throughout Alaska with extremes including thunderstorms; lightning; hail; heavy and drifting snow; freezing rain/ice storm; extreme cold; and high winds. Severe weather events can include the following:			
Nature	 A winter storm is an event in which the main types of precipitation are snow, sleet, or freezing rain and be accompanied by high winds, cold temperatures, and storm surge. A winter storm can range from a moderate snow over a few hours, to blizzard conditions with blinding wind-driven snow that lasts several days. Some winter storms may be large enough to affect several states, while others may affect only a single community. In more temperate continental climates (such as Southeast Alaska) these storms are not necessarily restricted to the winter season and may occur in the late autumn and early spring as well. Heavy snow and rain occur frequently in coastal areas, and snowfall can accumulate 4 inches or more in 12 hours or less. Freezing rain and ice storms occur when rain or drizzle freezes on surfaces and can cause damage to powerlines, pipelines, and other infrastructure. Extreme cold varies according to normal regional climate. Alaska's extreme cold usually involves temperatures between -20°F to -50°F. Excessive cold may accompany winter storms, occur after storms, or can occur without storm activity. High winds in Alaska can equal hurricane force but fall under a different classification because they are not cyclonic nor possess other hurricane characteristics. Strong winds occasionally occur over the interior due to strong pressure differences, especially where influenced by mountainous terrain; however, the windiest places in Alaska are generally along the coastlines. Thunderstorms typically last 20 to 30 minutes and can produce hazards including lightning; heavy rain; snow; updrafts and downdrafts; aircraft turbulence and icing; damaging hail; high winds; and flash flooding. Thunderstorms are generally associated with warmer summer months but can occur in the winter. They are relatively uncommon and do not occur uniformly over the State. There have been observations of an increase in thunderstorm activity in certain areas. Li			
Location	Severe weather can affect all of the City of Saint Paul. The low lying and exposed shoreline is most vulnerable to storm surge caused by coastal storms while the higher elevations are most vulnerable to lightning strikes caused by thunderstorms.			
History	The City of Saint Paul is in the southwest maritime climate zone, which is characterized by persistently overcast skies, high winds, and frequent cyclonic storms. Due to its location in the Bering Sea, the island experiences cool weather year-round and a narrow range of average temperatures varying from 19°F to 51°F. Heavy fog is common during the summer months. According to NOAA's Storm Events Database, there were 50 severe weather events between 2010 and 2020 including 38 blizzards and 12 high wind events in the Pribilof Islands. The island averaged 5 events per year with 2012 as the busiest year with 18 recorded storm events.			
Extent / Severity	Severe weather in the City of Saint Paul can bring winds gusting over 100 knots (115 miles per hour), high surf with the possibility of over 50-foot waves, and blizzards conditions.			

Table 3-6: Severe Weather

Profile	Description		
Recurrence Probability	The City of Saint Paul frequently experiences severe weather events and will continue to experience several events per year. Based on historical events, the City of Saint Paul will likely experience five severe weather events a year. However, climate change may alter the previously experienced trends with a shift toward more severe weather events, or more events occurring as heavy rain and fewer heavy snow events.		

3.7 TSUNAMI

Table 3-7: Tsunami

Profile	Description			
	A tsunami is a series of traveling ocean waves of extremely long length, generated by disturbances associated primarily with earthquakes occurring below or near the ocean floor. Subduction zone earthquakes at plate boundaries often cause tsunamis. However, tsunamis can also be generated by submarine landslides, sub-marine volcanic eruptions, the collapse of volcanic edifices, and—in very rare instances—large meteorite impacts in the ocean. In the deep ocean, a tsunami may have a length from wave crest to wave crest of 100 miles or more, but a wave height of only a few feet or less. Therefore, the wave period can be up to several hours and wavelengths can exceed several hundred miles. Tsunamis are unlike typical wind-generated swells on the ocean, which might have a period of about 10 seconds and a wavelength of up to 300 feet.			
	Tsunamis not only affect beaches that are open to the ocean, but also bay mouths, tidal flats, and the shores of large coastal rivers. Tsunami waves can also diffract around land masses. Because tsunamis are not symmetrical, the waves may be much stronger in one direction than another depending on the nature of the source and the surrounding geography. However, tsunamis propagate outward from their source; therefore, coasts in the shadow of affected land masses are safer.			
Nature	Secondary hazards can occur from tsunamis, such as:			
	 Erosion or scouring of stream banks, roadway embankments, foundations, footings for bridge piers, and other features. Impact damage to structures, roads, bridges, culverts, and other features from high-velocity flow and from debris carried by floodwaters; debris may also accumulate on bridge piers and in culverts, increasing loads on these features or causing overtopping or backwater effects. Release of sewage and hazardous or toxic materials when wastewater treatment plants are inundated, storage tanks are damaged, and pipelines are severed. Flood waters can pose health risks such as contaminated water and food supplies. Loss of shelter leaves people vulnerable to insect exposure, heat, and other environmental hazards. The majority of deaths associated with tsunamis are related to drownings, but traumatic injuries are also a primary concern. Injuries such as broken limbs and head injuries can be caused by the physical impact of people being washed into debris such as houses, trees, and other stationary items. As the water recedes, the strong suction of debris being pulled into largely populated areas can cause further injuries and undermine buildings and services. 			
Location	The City of Saint Paul's location within the Bering Sea makes it vulnerable to tectonic tsunamis as well as underwater landslide-generated tsunamis. The Alaska-Aleutian subduction zone has the highest potential to generate tsunamis in Alaska. According to the Alaska Division of Geological and Geophysical Surveys, a tsunami generated by an earthquake on the Alaska-Aleutian subduction zone would have a relatively low amplitude in the western part of the Bering Sea where the City of Saint Paul is situated. The actively eroding edge of the Bering Sea shelf is approximately 64 miles from the City of Saint Paul at its closest point. This feature has unstable sediment on steep underwater slopes that can be triggered by earthquake-induced shaking and other events such as severe weather or a volcanic eruption. In the population center, areas most at risk include those along the approximately 5 miles of waterfront (Figure 5).			

Table 3-7: Tsunami

Profile	Description		
	According to NOAA's National Centers for Environmental Information / World Data Service Global Historical Tsunami Database, reports of tsunami inundation are rare but do exist for scattered locations around the Bering Sea:		
History	1872. An earthquake originating at Fox Islands (in the Aleutian chain approximately 270 miles from the City of Saint Paul) resulted in a tsunami. Maximum water height of 0.75 feet was recorded in the City of Saint Paul.		
	• 1991. A small tsunami was generated from a M 6.5 earthquake in the Bering Sea.		
	No tsunamis have occurred since the 2016 LHMP. The most recent tsunami advisory for Saint Paul was in 2021 following the Chignik Earthquake (M 8.1); however, it was canceled.		
Extent / Severity	According to the Alaska Division of Geological and Geophysical Surveys, the maximum value of a tectonic-sourced tsunami runup is 52.5 feet at along the southern shore of Saint Paul Island. Modeling was also done for landslide-generated tsunamis; however, the results were inconclusive with highly variable amplitudes based on how location-specific the wave generation is related to the landslide event. The extent and severity of a tsunami also relates to the amount of time the community has to evacuate. A tsunami generated by a nearby earthquake or landslide represents "near-field" hazard, meaning people may have minutes; however, the—rather than hours—to reach safety.		
Recurrence Probability	The source of tsunamis that could potentially impact the City of Saint Paul include an earthquake at the Alaska-Aleutian subduction zone, an earthquake outside of a major fault line, or an underwater landslide. The underwater landslide can be triggered by an earthquake, volcanic eruption, or severe weather. Each of these triggers has a different recurrence probability making it nearly impossible to calculate an overall recurrence probability of a tsunami. Given the frequency of past occurrences, the City of Saint Paul could experience tsunami inundation every 100 years.		

3.8 VOLCANO

Table 3-8: Volcano

Profile	Description		
	A volcano is a vent or opening in the earth's crust from which molten lava (magma), pyroclastic materials, and volcanic gases are expelled onto the surface. The vent may be visible as a small bowl-shaped depression at the summit of a cone or shield-shaped mountain. Through a series of cracks within and beneath the volcano, the vent connects to one or more linked storage areas of molten or partially molten rock.		
	There are four general volcano types:		
	Lava domes, which are formed when lava erupts and accumulates near the vent.		
	• Cinder cones, which are shaped and formed by cinders, ash, and other fragmented material accumulations that originate from an eruption.		
	• Shield volcanoes, which are broad, gently sloping volcanic cones with a flat dome shape that usually encompass several tens or hundreds of square miles, built from overlapping and inter-fingering basaltic lava flows.		
	Composite or stratovolcanoes are typically steep-sided large dimensional symmetrical cones built from alternating lava, volcanic ash, cinder, and block layers; most composite volcanoes have a crater at the summit containing a central vent or a clustered group of vents.		
Nature	There are three types of volcanic eruptions, described below. Some volcanoes may exhibit only one type of eruption during an event, while others may display an entire sequence of all three types in one event.		
	 Magmatic eruptions are the most well-observed eruptions. Magmatic eruptions produce juvenile clasts (composed fragments) during explosive decompression from gas releases. Magnetic eruption subtypes include: Hawaiian, Strombolian, Vulcanian, Peléan, and Plinian. Phreatomagmatic eruptions are volcanic eruptions resulting from the interaction between magma and water. Grain deposits from phreatomagmatic explosion involving high water to magma ratios are extremely fine-grained and distinctly poorly sorted, while deposits resulting from low water to magma ratios are commonly coarse and relatively well-sorted. Phreatomagmatic eruption subtypes include: Surtseyan, Submarine, and Subglacial. Phreatic eruptions are steam-blast eruptions. These eruptions occur when cold ground or surface water come into contact with hot rock or magma. Phreatic eruptions blast out steam, water, ash, volcanic bombs, and volcanic blocks, but no new magma. 		
	Other hazards potentially caused a volcanic eruption include:		
	Volcanic Ashfall		
	Lava FlowsLahars (Debris Flows)		
	Lahars (Debris Flows)Volcanic Gas		
	Pyroclastic Surges or Flows		
	Volcanic Landslides		

Table 3-8: Volcano

Profile	Description
	According to the Alaska Volcano Observatory (AVO), most of Saint Paul Island consists of coalescing small volcanoes, each composed of a central cinder cone and surrounding lava flows that were active in historic records. Active volcanoes from the Aleutian chain and farther distances may impact the City of Saint Paul depending on the direction the ash plume is carried by air currents. Active volcanoes around Saint Paul Island are shown in Figure 6.
	Bering Sea Volcanoes:
	 Saint George Volcanic Field: The lavas are older than those on nearby Saint Paul, and the original volcanic topography has been subdued by weathering and later redefined by faulting, uplift, and glaciation; 45 miles from the City of Saint Paul.
	Nunivak Island: Inactive volcano in the eastern Bering Sea, approximately 230 miles from Saint Paul.
	 Amak: Small, young volcano in the Bering Sea north of the main Aleutian volcanic front. Most recent activity from 1796. Approximately 300 miles from the City of Saint Paul. Bogoslof Island: The largest of a cluster of small, low-lying islands composing the emergent summit of a large submarine stratovolcano slightly north of the main Aleutian volcanic front. Most recent activity 2016; approximately 240 miles from the City of Saint Paul.
	Aleutian Volcanoes on AVO Alert List (Advisory or Watch):
Location	 Pavlof Volcano: is a snow- and ice-covered stratovolcano on the southwestern end of the Alaska Peninsula. With over 40 historic eruptions, it is one of the most consistently active volcanoes in the Aleutian arc. Approximately 345 miles from the City of Saint Paul. Great Sitkin Volcano: is a basaltic andesite volcano that occupies most of the northern half of Great Sitkin Island, a member of the Andreanof Islands group in the central Aleutian Islands.
	The most recent significant eruption in 1974 produced at least one ash cloud that likely exceeded an altitude of 25,000 feet above sea level. Approximately 430 miles from the City of Saint Paul.
	Semisopochnoi Volcano: occupies the largest, young volcanic island in the western Aleutians. The volcano is dominated by a 5-mile) diameter caldera that contains a small lake and a number of post-caldera cones and craters. The last known eruption of Semisopochnoi occurred in 1987, probably from Sugarloaf Peak on the south coast of the island, but details are lacking. Approximately 550 miles from the City of Saint Paul.
	 Davidof Volcano: is a mostly submerged stratovolcano in the Rat Islands group in the western Aleutian Islands. There are no known historical eruptions from Davidof. Approximately 570 miles from the City of Saint Paul.
	Southwestern Aleutian Basin (Russia) Volcanoes on AVO Alert List (Advisory or Watch):
	 Shiveluch, approximately 1,075 miles from the City of Saint Paul Bezymianny, approximately 1,120 miles from the City of Saint Paul Karymsky, approximately 1,190 miles from the City of Saint Paul

Table 3-8: Volcano

Profile	Description			
	AVO Lists the following recent eruptions for Saint Paul Island:			
	1943: A very uncertain possible eruption account of a submarine eruption offshore of Saint Paul Island in the Pribilof Island is contained in Lyman Ellsworth's 1952 memoir, titled "Guys on Ice."			
	Carbon dating of lava flows on Saint Paul Island estimate the following historic eruptions:			
	 Fox Hill, 3230 (± 40 years) years before present Bogoslof Hill, 40,000 (± 20,000 years) years before present Hutchinson Hill, 80,000 (± 50,000 years) years before present 			
	 Cone Hill Complex, start 180,000 (±40,000 years) stop 120,000 (±40,000 years) years before present Crater Hill, 360,000 (±80,000 years) years before present 			
History	AVO and the Smithsonian Institution's Glocab Volcanism Program lists the following most recent eruptions that occurred since the 2016 LHMP Plan in the Aleutian Chain and Southwestern Aleutian Basin:			
	 2022 Sheveluch (lava dome in summit crater expanding as of May 13, 2022) 2022 Bezymianny (effusive eruption with lava dome descending from crater and steam and ash emissions from April 8-15, 2022) 			
	 2022 Karymsky (explosions generating ash plumes as high as 19,700 feet on May 12, 2022) 2022 Pavlof (eruption on vent of Pavlof's upper east flank ongoing as of May 17, 2022) 			
	2022 Great Sitkin (minor advancement of lava dome in summit crater flowing downslope at two locations as of May 17, 2022)			
	2022 Semisopochnoi (low-level eruptive activity as of May 17, 2022)			
	Volcanoes within 50 miles of Saint Paul Island are unmonitored and considered inactive. However, some volcanoes can remain dormant for hundreds or thousands of years between eruptions; therefore, the greatest risk caused by volcanic activity is not always apparent or known.			
Extent / Severity	Volcanic eruptions in the active Aleutian area have created: fragmented rock flows, lava flows, landslides, and mudflows; falling ash and drifting clouds of fine volcanic ash that has caused severe damage to both the built and natural environment hundreds of miles from the eruption location; and volcanic deposits which have created new landforms. Eruptions can last weeks or longer.			
Recurrence Probability	The probability of trace amounts of ashfall (1/32 inch) coming from a distant eruption that could impact the City of Saint Paul either directly (from damages and health issues of the ash) or indirectly (from disruptions in air travel and supply delivery) is approximately once per year (or, equal to the overall probability of a volcanic eruption occurring in Alaska).			

3.9 WILDFIRE

Table 3-9: Wildfire

Profile	Description		
	A wildfire—sometimes referred to as a wildland fire—is a fire in an area of combustible vegetation occurring in rural areas. Wildfires can be caused by human activities (e.g., unattended burns, campfires, or off-road vehicles without spark-arresting muffles); or by natural events, such as lightning, drought, or infestation. Wildfires can be classified as forest, urban, tundra, or interface or intermix fires, and prescribed burns. The following three factors contribute significantly to wildfire behavior and can be used to identify wildfire hazard areas:		
Nature	 Topography describes slope increases, which influences wildfire spread rate increases. South-facing slopes are also subject to more solar radiation, making them drier and thereby intensifying wildfire behavior. However, ridge tops may mark the end of wildfire spread because fire spreads more slowly or may even be unable to spread downhill. Fuel is the type and condition of vegetation that plays a significant role in wildfire spread occurrence. Certain plant types are more susceptible to burning or will burn with greater intensity. Dense or overgrown vegetation increases the amount of combustible material available as fire fuel (referred to as the "fuel load"). The living-to-dead plant matter ratio is also important. Certain climate changes may increase wildfire risk significantly during prolonged drought periods as both living and dead plant matter moisture content decreases. Both the horizontal and vertical fuel load continuity is also an important factor. Weather is the most variable factor affecting wildfire behavior. Temperature, humidity, wind, and lightning can affect ignition opportunities and fire spread rate. Extreme weather—such as high temperatures and low humidity—can lead to extreme wildfire activity. Climate change increases fire to vegetation ignition susceptibility due to longer dry seasons. By contrast, cooling and higher humidity often signal reduced wildfire occurrence and easier containment. Indirect wildfire effects can be catastrophic. In addition to stripping the land of vegetation and destroying forest resources, large intense fires can harm the soil, waterways, and the land itself. Soil exposed to intense heat may lose its capability to absorb moisture and support life. Exposed soils erode quickly and exacerbate river and stream siltation thereby increasing flood potential, harming aquatic life and degrading water quality. Vegetation-stripped lands are more susceptible 		
Location	to increased debris flow hazards. Saint Paul Island is susceptible to grass-fuel fires across most of the island and structural fires in the population center.		
History	The Alaska Interagency Coordination Center does not have records for fires on Saint Paul Island The community reported five fires occurring between 2003 and 2022. • 2003: 1 fire • 2004: 1 fire • 2014: 1 fire • 2020: 2 fires		
Extent / Severity	As shown in Figure 7, a wildfire susceptibility model using best available Light Detection and Ranging (Lidar) and 2011 National Land Cover Database data show that most of the island (71% of the total area) is in a moderate wildfire risk area factoring in the low grassy vegetation and slope. Some portions of the interior of the island have a very high fire risk.		
Recurrence Probability	Based on the community-reported rate of fires, the recurrence probability is relatively low at an average of two to three fires per decade.		

4 RISK ASSESSMENT

This section addresses Element B of the Local Mitigation Plan Regulation Checklist.

Regulation Checklist - 44 CFR 201.6 Local Mitigation Plans

Element B: Hazard Identification and Risk Assessment

B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement $\S 201.6(c)(2)(ii)$)

B4. Does the Plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))

4.1 HAZARD IMPACT

A hazard impact assessment predicts the current or expected impact of a hazard on a community or given area. The analysis provides quantitative data that may be used to identify and prioritize potential mitigation measures by allowing communities to focus attention on areas with the greatest risk of damage.

For the 2022 LHMP, a conservative exposure-level analysis was conducted to assess the risks associated with the identified hazards. Due to a combination of a lack of adequate information and methodology, a semi-quantitative hazard impact assessment has only been prepared for the following hazards: earthquake, erosion, hazardous material event (ammonia spill), tsunami, volcano, and wildfire. Climate change, infectious disease, and severe weather impact the entire community and have been included qualitatively in the hazard assessments below.

For the 2022 LHMP, hazard impact assessments were prepared for the City of Saint Paul's land area, population center, and critical facilities (Table 4-1). A land area of 27, 934 acres (43.6 square miles) was determined using geographic information system (GIS). The population center (i.e., a geographic point that describes a center point of the city's population) of 240 acres (0.4 square miles) was also determined using GIS. The critical facilities include a list of facilities that provide services and functions essential to the City of Saint Paul, especially during and after a disaster. Common types of critical facilities include fire stations; police stations; hospitals; schools; water and wastewater systems; and utilities. Critical facilities may also include places that can be used for sheltering or staging purposes, such as community centers and libraries. Critical facilities may also include large public gathering spots and places of worship. For the 2022 LHMP, a list of 50 critical facilities and private critical facilities was collected from the City of Saint Paul (Figure 8 through Figure 10). Critical facilities were geocoded to a location and the resulting geographic features were used for hazard impact assessment. Facility-specific information was given to the City and will be kept on file.

The overall results of the hazard assessments are provided below. This analysis is a simplified assessment of the potential effects of the hazards on land area (Table 4-2), population center (Table 4-3), and critical facilities (Table 4-4) at risk, without consideration of the probability or level of damage. In addition, elevation data were not available; therefore, additional analysis will need to be conducted to develop a more accurate understanding of hazard vulnerabilities.

Table 4-1: Total Land Area, Population Center and Critical Facilities

Category	Number (Acres)
Land Area	27,934.84
Population Center	240.18
Critical Facilities	50

Table 4-2: Total Acres of Land in a Hazard Area

Hazard Area	Acres	Percent of Total Acres
Climate Change	27,934.84	100
Earthquake	•	
Weak-Light	0	0
Moderate	27,934.84	100
Strong-Severe	0	0
Erosion	6.98	0.02
Hazardous Materials Event (Ammonia)		
First Level Isolation (200 ft)	288	0.01
Second Level Isolation (0.5 mi)	214.75	0.77
Third Level Isolation (1.5 mi)	1,281.87	4.59
Infectious Diseases	27,934.84	100
Severe Weather	27,934.84	100
Tsunami	538.22	1.93
Volcano	•	
Low	27,934.84	100
Low-Moderate/Moderate	0	0
High	0	0
Wildfire	•	
Moderate Fuel Rank	20,051.89	71.78
High Fuel Rank	7,681.35	27.50
Very High Fuel Rank	201.60	0.72
Extreme Fuel Rank	0	0

Table 4-3: Total Number of Acres of Population Center in a Hazard Area

Hazard Area	Acres	Percent of Total Acres
Climate Change	240.18	100
Earthquake		·
Weak-Light	0	0
Moderate	240.18	100
Strong-Severe	0	0
Erosion	0.06	0.02
Hazardous Materials Event (Ammonia)		
First Level Isolation (200 ft)	2.88	1.2
Second Level Isolation (0.5 mi)	143.13	59.59
Third Level Isolation (1.5 mi)	240.18	100
Infectious Diseases	240.18	100
Severe Weather	240.18	100
Tsunami	130.61	54.38
Volcano		
Low	240.18	100
Low-Moderate/Moderate	0	0
High	0	0
Wildfire		
Moderate Fuel Rank	225.02	93.69
High Fuel Rank	15.16	6.31
Very High Fuel Rank	0	0
Extreme Fuel Rank	0	0

Table 4-4: Total Number of Critical Facilities in a Hazard Area

Hazard Area	Number	Percent of Total Facilities
Climate Change	50	100
Earthquake		
Weak-Light	0	0
Moderate	50	100
Strong-Severe	0	0
Erosion	1	2

Table 4-4: Total Number of Critical Facilities in a Hazard Area

Hazard Area	Number	Percent of Total Facilities
Hazardous Materials Event (Ammonia)		
First Level Isolation (200 ft)	1	2
Second Level Isolation (0.5 mi)	30	60
Third Level Isolation (1.5 mi)	37	74
Infectious Diseases	50	100
Severe Weather	50	100
Tsunami	24	48
Volcano		
Low	50	100
Moderate	0	0
High	0	0
Wildfire		
Moderate Fuel Rank	45	90
High Fuel Rank	5	10
Very High Fuel Rank	0	0
Extreme Fuel Rank	0	0

4.2 OVERALL SUMMARY OF VULNERABILITY

A list of the key issues, or overall summary of vulnerability, for each hazard profiled in the 2022 LHMP is provided in Table 4-5.

Table 4-5: Overall Summary of Vulnerability

Hazard	Vulnerability
Climate Change	The City of Saint Paul is vulnerable to climate change related to changes in temperature and precipitation and associated climate change impacts. All of the City of Saint Paul is impacted by climate change. In low-lying coastal areas, facilities and other structures are vulnerable to inundation and storm surge associated with sea level rise. Elevated water levels and warmer ground temperatures will also exacerbate erosion problems.
	Climate change will impact the City of Saint Paul in many ways, including changes to distribution of species in the Bering Sea and associated impacts to subsistence food gathering and tourism; increases in the hazardous conditions for hunting and fishing; impacts to the fishing industry; and more frequent and destructive storm surges threatening harbor infrastructure and potentially more flooding and/or erosion farther inland.

Table 4-5: Overall Summary of Vulnerability

Table 4-5: Overall Summary of Vulnerability				
Hazard	Vulnerability			
Earthquake	All of the City of Saint Paul is vulnerable to ground shaking from an earthquake and the entire community is in an area of moderate perceived ground shaking hazard. For City of Saint Paul residents, moderate shaking potential can cause light damage to buildings, especially those that are not built to withstand earthquakes.			
Erosion	The coastal areas of Saint Paul Island are most vulnerable to erosion. In particular, the cemetery near Lukanin Bay on Southwest Point Road and Northeast Point Road. Erosion causing damage to roads would restrict access on the island. These three main areas of erosion represent less than 1% of the total land area in the population center, and directly impacting one critical facility (the cemetery). The primary impact from erosion is loss of land for transportation and access on the			
	island, impacts to development, and restriction of subsistence activities. Important natural and cultural sites could be impacted such as the community's cemetery and seabird nesting cliffs. Risk of injury could occur from unstable banks or other structures that might collapse under the weight of a person or vehicle.			
Hazardous Materials Event: Ammonia	Releases of hazardous materials such as ammonia have the potential for harmful health effects on workers and the public. The Centers for Disease Control and Prevention lists isolation buffer areas for spill response and prevention in order to protect workers and residents. Approximately 3 acres (or about 1% of the total land area in the population center) are included in the first level isolation area. The second and third level isolation areas are 0.5 miles from the spill site and 1.5 miles, respectively; this equates to 143 acres and 240 acres, or 60% and 100% of the total land area of the main population center.			
	Depending on the severity of the event, spills can cause fire, injury, human health problems, and environmental damage. Of particular concern in the City of Saint Paul is the location of the Trident Seafoods ammonia tanks in close proximity to tanks storing fuel. A combined event could result in a significant and dangerous explosion.			
	All of the City of Saint Paul is vulnerable to infectious diseases. People who have weakened immune systems are particularly vulnerable to infectious diseases. Others who may be disproportionately affected by infectious diseases include the young, elderly, and people with inadequate access to healthcare. In addition, pregnant women and people who care for small children are generally at higher risk for acquiring infectious diseases.			
Infectious Disease	Infectious disease impacts in the City of Saint Paul will likely include:			
	 Physical: morbidity, mortality, and indirect health impacts Psychosocial: social isolation, stress, mental health, substance use, and violence Socioeconomic: loss of wages and work, unemployment, small business strain, housing, and basic living needs Institutional/structural: health system burden, social safety net strain, and health and social inequalities. 			
	The City of Saint Paul frequently experiences severe weather that impacts the entire community with high winds, storm surges, thunderstorms producing lightning, and blizzard conditions.			
Severe Weather	A major storm can last for several days and be accompanied by high winds, freezing rain or sleet, heavy snowfall, and cold temperatures. A storm may damage harbor infrastructure, wind turbines, water supply storage, and lead to dangerous driving and maritime conditions.			

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Table 4-5: Overall Summary of Vulnerability

Hazard	Vulnerability
Tsunami	The City of Saint Paul's location within the Bering Sea makes it vulnerable to tectonic tsunamis as well as underwater landslide-generated tsunamis. Based on the modeling for tectonic tsunami scenarios completed by Alaska Division of Geological and Geophysical Surveys, approximately 140 acres or 54% of the total land area in the population center are vulnerable to tsunami. This includes a total of 24 critical facilities along the waterfront and in low-lying areas. While tsunami wave heights may not be large, there is potential for a tsunami to cause localized flooding, damage to harbor infrastructure, or injuries by knocking people down.
Volcano	All of the City of Saint Paul is vulnerable to volcanoes. While the volcanoes on Saint Paul Island are considered inactive, there is a possibility of an eruption in communities outside of the Pribilof Islands that could impact the City of Saint Paul through ashfall and possibly disruption of services. Although unlikely, even a small ashfall event in the City of Saint Paul can cause respiratory problems, eye problems, and skin irritation for humans. The community could experience a variety of impacts such as property damage; structural damage from ash loading; transportation interruptions; impacts to commercial fisheries; mass casualties of fish and seabirds; wind energy production impacts; and water supply contamination. Ashfall events outside of the City of Saint Paul could also result in disruptions of critical supply delivery of food and fuel.
Wildfire	A wildfire susceptibility model using best available Lidar and 2011 National Land Cover Database data shows that most of Saint Paul Island (71% of the total area) is in a moderate wildfire risk area factoring in the low grassy vegetation and slope. Only 27% of the total land area is located within a high wildfire risk area (4 critical facilities), and less than 1% is in a very high wildfire risk area (no critical facilities). Wildfires are not only capable of burning down vegetation, homes, critical facilities, and infrastructure, but they can also cause loss of life to humans and animals, soil erosion, debris flows, air pollution, serious health problems, and restriction of access to recreational areas.

4.3 NATIONAL FLOOD INSURANCE PROGRAM INSURED STRUCTURES

The City of Saint Paul is not mapped to a Flood Insurance Rate Map and therefore does not participate in the National Flood Insurance Program (NFIP). Localized flood issues are managed by the City of Saint Paul public works director.

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5 MITIGATION STRATEGY

This section addresses Element C of the Local Mitigation Plan Regulation Checklist.

Regulation Checklist - 44 CFR 201.6 Local Mitigation Plans

Element C: Mitigation Strategy

- C1. Does the Plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement § 201.6(c)(3))
- C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement § 201.6(c)(3)(i))
- C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))
- C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))
- C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))
- C6. Does the Plan describe a process by which local governments will integrate the requirements of the mitigation plan into other planning mechanisms, such as comprehensive or capital improvement plans, when appropriate? (Requirement §201.6(c)(4)(ii))

5.1 AUTHORITIES, POLICIES, PROGRAMS, AND RESOURCES

The City of Saint Paul's existing authorities, policies, programs, and resources available for hazard mitigation are provided in Table 5-1 (human and technical resources), Table 5-2 (financial resources), and Table 5-3 (planning and policy resources). The ways in which the City is looking to expand and improve on its hazard mitigation authorities, policies, programs, and resources are provided in Table 5-4.

Table 5-1: Human and Technical Resources for Hazard Mitigation

Staff/Personnel	Department/Agency	Principal Activities Related to Hazard Mitigation
City Council and Mayor	City of Saint Paul	Responsible for legislative function of the City such as establishing policy, passing local ordinances, voting appropriations, and developing an overall vision.
City Manager	Administration Department, City of Saint Paul	Chief executive office responsible for executing the policies set by the City Council and administering the government of the City. The city manager is responsible for emergency preparedness and services.
Fire Chief	City of Saint Paul, Saint Paul Island Volunteer Fire Department	Dedicated to protecting life and property through public safety education, fire prevention, and fire suppression.
Chief of Police	City of Saint Paul, Department of Public Safety	Conduct preventive patrols of the community, attend community events, provide assistance to the community when requested, perform traffic control, conduct criminal investigations, and serve the community as Emergency Medical Service (EMS) / first responders (below).
EMS	Saint Paul Island Emergency Medical Services	Serves the resident population of Saint Paul Island as well as the fishing fleet in the central Bering Sea.
Projects/Grants Specialist	Administration Department, City of Saint Paul	Responsible for grants administration, including research, proposals, reporting, reimbursements, documentation and compliance. Responsible for various projects including website content and updates, policy and procedural documents, resolutions, newsletters, public education and outreach.
City Clerk/COVID-19 Administration Department, City of Saint Paul		Responsible for COVID-19 communication and distribution of supplies and resources, including quarantine units.
Harbormaster Public Safety Department, City of Saint Paul		Responsible for patrolling the harbor and flagging violations of marine and health laws.
Public Works Director	Public Works Department, City of Saint Paul	Maintains and operates the water/wastewater systems, landfill, bulk fuel, and other facilities servicing the City of Saint Paul.

Notes:

The City of Saint Paul does not have a Planning Department

Table 5-2: Financial Resources for Hazard Mitigation

Туре	Source	Purpose	Amount
General Fund	City of Saint Paul	Program operations and specific projects.	Variable
Lease Revenues	Dockage and Wharfage Revenues	Revenue bonds are used to finance capital projects that: 1) have an identified budgetary stream for repayment (e.g., specified fees, tax receipts); 2) generate project revenue but rely on a broader pledge of general fund revenues to reduce borrowing costs; or 3) finance the acquisition and installation of equipment for the local jurisdiction's general governmental purposes.	Variable
Renewable Energy Fund	Alaska Energy Authority	Provides funding for the development of qualifying and competitively selected renewable energy projects in Alaska. The program is designed to produce cost-effective renewable energy for both heat and power. For fiscal year 2019, \$11 million has been allocated by the governor to fund the Renewable Energy Fund. This program runs through 2023.	Project-specific
HMA: Hazard Mitigation Grant Program (HMGP)	FEMA	Supports pre- and post-disaster mitigation plans and projects. Available to communities in Alaska after a presidentially declared disaster has occurred in Alaska.	Project-specific
		Focuses on reducing the nation's risk by funding public infrastructure projects that increase a community's resilience before a disaster affects an area.	Project-specific
Homeland Security Preparedness Technical Assistance Program	Preparedness Technical Homeland Security four homeland security mission areas (i.e., prevention, protection, response,		Project-specific
Assistance to Firefighters Grant Program	Provides equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards. Available to fire departments and nonaffiliated emergency medical services providers.		Project-specific
Community Action for a Renewed Environment	US Environmental Protection Agency	Through financial and technical assistance, this program offers an innovative way for a community to organize and take action to reduce toxic pollution (e.g., stormwater) in its local environment. Through this program, a community creates a partnership that implements solutions to reduce releases of toxic pollutants and minimize exposure to them.	Project-specific

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Table 5-2: Financial Resources for Hazard Mitigation

Type	Source	Purpose	Amount
Community Block Grant Program Entitlement Communities Grants	US Department of Housing and Urban Development	Acquisition of real property; relocation and demolition; rehabilitation of residential and nonresidential structures; construction of public facilities and improvements, such as water and sewer facilities, streets, neighborhood centers; and the conversion of school buildings for eligible purposes.	Project-specific
Rural Development US Department of Agriculture		Committed to helping improve the economy and quality of life in rural America. Program helps to extend access to clean, reliable water and waste disposal systems for households and businesses.	Project-specific
Village Safe Water	Alaska Department of Environmental Conservation	Working with rural communities to develop sustainable water and sanitation facilities.	Project-specific
American Rescue Plan, Economic Development Administration	US Economic Development Administration	Funding to assist communities nationwide in their efforts to accelerate economic recovery from the coronavirus pandemic and building local economies that will be resilient to future economic shocks.	Project-specific

Table 5-3: Planning and Policy Resources for Hazard Mitigation

Name	Description	Hazards Addressed	Emergency Management
Ataqan Akun Community Plan, 1995	Update of previous Saint Paul Comprehensive Plan written to be based on the values of the community. Policies are outlines for all key sectors of the community including cultural, land, economic development, water sand shoreline, parks and recreation, transportation, utilities, environmental protection.	All	Mitigation, Preparedness, Response
City of Saint Paul Strategic Plan: 2021- 2023	The plan identifies the City's Mission, Vision, Values, and Guiding Principles. The Strategic Plan also identifies goals to improve staff capacity and expertise, improve citizen understanding of city finances and functions, and make Saint Paul Island a safer place to live; to improve City processes and replace/update related equipment and software; construct new, improve, and adequately maintain vital community facilities; and diversity the City's economic portfolio.	All	Response, Recovery
Saint Paul Island Comprehensiv e Economic Development Strategy: 2017-2022	Presents economic development goals to support the economic vision for Saint Paul ("An Aleut community of healthy, resilient people working together to sustain a strong fishing-based economy"). Used for community based and regionally driven economic planning with strategies and implementation plan; important part of US Department of Commerce Economic Development Administration programs.	All	Recovery
City of Saint Paul, Alaska, 2017-2021 Capital Improvement Plan	Identifies capital projects and equipment purchases, provides a planning schedule, and identifies options for financing the plan.	All	Mitigation, Preparedness

Table 5-4: Ability to Expand Resources

Capability	Type/Description	Expansion
Financial	HMA funding	Apply for BRIC and HMGP funding as it becomes available. The focus should be on projects that mitigate critical infrastructure, provide protection for disadvantaged areas, and address climate change.
Planning and Policy	Climate Action Plan	Develop a Climate Action Plan to reduce or continue to greenhouse emissions through a series of local transportation, land use, building energy, water, waste, and green infrastructure programs and policies.
Planning and Policy Emergency Operations Plan		Develop an Emergency Operations Plan to organize structures, roles, and responsibilities and protocols for providing emergency response and short-term recovery.

CapabilityType/DescriptionExpansionPlanning and PolicyCommunity Hazard
Communications
Education PlanDevelop a Community Hazard Communications Education
Plan to organize structures, roles, and responsibilities and
protocols for communicating hazards to the community.Planning and PolicyPlanning and Zoning
OrdinancesModify City planning and zoning ordinances to limit
development in hazardous areas.

Table 5-4: Ability to Expand Resources

5.2 NATIONAL FLOOD INSURANCE PROGRAM PARTICIPATION

The City of Saint Paul is not mapped to a Flood Insurance Rate Map and therefore does not participate in the NFIP. Localized flood issues are managed by the City of Saint Paul public works director.

5.3 MITIGATION GOALS

Mitigation goals are defined as general guidelines that explain what an agency wants to achieve in terms of hazard and loss prevention. Goal statements are typically long-range, policy-oriented statements representing a community-wide vision. FEMA's 2022 BRIC priorities are the basis for the three goals (Table 5-5) for the 2022 LHMP.

Goal # Description

1 Enhance climate protection and adaptation efforts

2 Create a healthy and safe community

3 Protect critical facilities and infrastructure against hazards

Table 5-5: Mitigation Goals

5.4 RECOMMENDED MITIGATION ACTIONS

Mitigation actions help achieve the goals of the LHMP. The recommended mitigation actions provided in Table 5-6 include: education and awareness; structure and infrastructure projects; preparedness and response; local plans and regulations; and floodplain management (which includes preventive, property protection, natural resource protection, structural projects, and public information). This list addresses every hazard profiled in this plan and is based on the plan's risk assessment as well as lessons learned from recent disasters. The list addresses hazards that impact the critical facilities shown in Figures 8-10 and takes into consideration the built environment. It was developed using FEMA success stories and best management practices; FEMA job aids; local and regional plans and reports; and input from planning team members, and sustainability practitioners.

Table 5-6: Recommended Mitigation Actions

No.	Project Name	Hazard Mitigated	Project Description	Type of Development	BCA Considerations ¹
1	Emergency Warming and Feeding Shelter(s)	All	Implement Red Cross recommendations for emergency shelter(s); ensure adequate supplies for use during severe cold or if there is a disruption in the shipment or delivery or supplies.	New	1, 6, 7, 9, 10
2	Emergency Operations Plans	All	Complete Emergency Operations Plan, Continuity of Operations Plan, and Evacuation Plan	New	1, 2, 4, 6, 10
3	Community Hazard Communications Education Plan	All	Develop and implement a Community Hazard Communications Education Plan.	New	1, 4, 6, 10
4	Modify Planning and Zoning Ordinances	All	Modify City planning and zoning ordinances to limit development in hazardous areas.	New	1, 3, 6, 10
5	Assessment of Vulnerable Population	All	Conduct an assessment of the vulnerable individuals in our community that would need assistance during a hazard event.	New	1, 2, 6, 10
6	Emergency Sirens	All	Acquire and install two additional emergency sirens with voice message capabilities to service the areas in the community that are not currently covered by existing sirens (two existing sirens to be installed Summer 2022).	New and Existing	1, 4, 6, 10
7	Food Security	All	Construct community greenhouses to provide for locally grown fruits and vegetables; ensure structures are built to withstand severe weather and are not at risk of damage from tsunami, storm surge, or other hazards.	New	1, 2, 6, 7, 9
8	Enclosure and Automatic Functionality for Existing Generator	All	Install enclosure and to protect emergency generator at City Hall; also retrofit existing generator for automatic load bank capability.	Existing	1, 6, 7, 9, 10
9	Generators	All	Purchase and install emergency generators for the school, public works building, fire station, water wells, and motor pool buildings.	New and Existing	1, 6, 7, 9
10	Fuel Storage	All	Determine and secure enough fuel storage for generators to use. Develop contingency plans for obtaining generator fuel.	Existing	1, 6, 7, 9

Table 5-6: Recommended Mitigation Actions

No.	Project Name	Hazard Mitigated	Project Description	Type of Development	BCA Considerations ¹
11	Mutual Aid Agreements	All	Develop mutual aid agreements with governmental and nongovernmental entities operating on Saint Paul Island.	New and Existing	1, 2, 3, 5, 6, 10
12	Cultural and Natural Resource Protection	Climate Change	Establish cultural and natural resource protection regulations for tundra, cliff, wetlands, and other areas of cultural and ecological importance for protection of local ecology, subsistence food gathering, and tourism.	Existing	1, 6, 10
13	Water Storage	Drought, Earthquake	Determine and secure enough water storage for periods of drought including backup water supply if infrastructure is damaged in natural disaster.	New and Existing	1, 6, 7, 9
14	Reduce Structural Vulnerability	Earthquake and Tsunami	Elevate, add seismic retrofits, and/or other measures to reduce structural vulnerability to earthquake and tsunami damage.	Existing	1, 3, 6, 7, 9
15	Shoreline Stabilization near Critical Roads	Erosion	Implement shoreline stabilization to protect critical transportation routes at risk of severe damage from erosion (e.g., Southwest Point Road, Northeast Point Road, and others as identified by the community).	New and Existing	1, 3, 6, 7, 9
16	Cliff Stabilization at Cemetery	Erosion	Implement cliff stabilization projects at cemetery; coordinate with Aleut Community of Saint Paul Island Tribal Government for funding and implementation of this project.	Existing	1, 5
17	Relocate Ammonia Storage Tanks	Hazardous Materials – Ammonia	Work with Trident Seafoods to identify location and perform design and construction to relocate ammonia storage tanks	Existing	1, 3, 5, 6, 7, 8
18	Integrate Spill Notification with City Emergency Notification System	Hazardous Materials – Ammonia	Trident Seafoods' internal spill notification needs to be communicated with City of Saint Paul for community-wide dissemination on emergency notification system.	Existing	1, 4, 5, 6, 10
19	Training of On-Site Staff for Ammonia Leak Response	Hazardous Materials – Ammonia	Train Trident employees and City of Saint Paul volunteer firefighter department on appropriate response to an ammonia leak.	Existing	1, 4, 5, 6, 10

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Table 5-6: Recommended Mitigation Actions

No.	Project Name	Hazard Mitigated	Project Description	Type of Development	BCA Considerations ¹
20	Increase Quarantine Units and Provide Supplies to Quarantine Units	Infectious Disease	Increase the number of quarantine units available for infectious disease-related uses and ensure adequate medical and other supplies available for each unit.	New and Existing	1, 7, 9
21	Protect Critical Facilities from Storm Surge	Severe Weather – Storm Surge	Identify and reduce flood and erosion damage and protect critical facilities in areas prone to storm surge, such as the pond near the school and ball field as well as breakwater and harbor facilities.	New and Existing	1, 3, 7, 8
22	Search and Rescue Equipment and Training	Severe Weather – Storm Surge, Tsunami	Purchase search and rescue vessel, water rescue equipment, and provide search and rescue training for personnel.	New	1, 2, 6, 10
23	Protect Wind Turbines from Lightning Strikes	Severe Weather – Lightning	Identify and retrofit wind turbines with protective devices for lightning strikes.	Existing	1, 2, 3, 7, 9
24	Wind Protection	Severe Weather	Reinforce critical facilities and homes against high winds.	Existing	1, 3, 7, 9
25	Tsunami Warning and Evacuation	Tsunami	Replace and/or install new evacuation route signs.	New and Existing	1, 4, 10
26	Protect Power Plant	Tsunami	Protect power plant from possible tsunami impacts.	Existing	1, 3, 7, 9
27	Tsunami Inundation Study	Tsunami	Prepare a Tsunami Inundation Study with inundation maps specific to Pribilof Islands that includes scenarios covering underwater landslides and earthquake faults.	New	1, 4, 10
28	Expand and Upgrade Fire Facilities and Equipment	Wildfire	Expand and upgrade facilities and equipment for volunteer fire program including trucks, water storage, and fire hydrants.	Existing	1, 2, 7, 9
29	Training for Volunteer First Responders	Wildfire	Provide training for volunteer fire and EMS personnel.	Existing	1, 2, 7, 9

Notes:

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¹The considerations for the benefit-cost analysis (BCA) were based on experience and best judgment, including benefits of losses avoided and qualitative benefits such as quality of life and natural and beneficial functions of ecosystems. Considerations include: 1) creates safer communities, 2) speeds up recovery, 3) lessens financial impacts, 4) increases public awareness, 5) strengthens community partnerships, 6) addresses priority hazards and/or multiple hazards, 7) capital expenditures, 8) costs for environmental planning, design, and review, 9) maintenance costs, and/or 10) project life expectancy.

5.5 PRIORITIZED ACTION PLAN

A prioritized action plan is an itemized list of recommended mitigation actions that a community/agency hopes to put into practice to reduce its risks and vulnerabilities.

For the 2022 LHMP, the planning team created a two-tier prioritization process based on the following:

- High-priority mitigation actions are those that address hazards of immediate concern and are also cost-effective (positive cost-benefit ratio) and have an identified funding source.
- Medium-priority mitigation actions are those that address hazards that are not of immediate concern and/or those that are of immediate concern but are not cost effective or do not have an identified funding source.
- Low-priority mitigation strategies are those that while still of concern, are not of immediate concern for this LHMP update. Low-priority mitigation strategies are important to the community and valuable to achieve, however, require longer periods of planning and implementation time and/or the achievement of other strategies first upon which to build for the long-term. Additionally, low-priority mitigation strategies may require significant funding.

The City of Saint Paul determined all of the hazards and threats of immediate concern based on the 2022 LHMP's hazard profiles, risk assessment, and capability assessment: climate change; earthquake; erosion; hazardous materials event—ammonia; infectious disease; severe weather; tsunami; volcano; and wildfire.

The results of the above prioritization process are provided in Table 5-7. Despite differences in ranking, the City of Saint Paul determined each potential project as important to mitigating hazards and therefore all mitigation projects regardless of priority have been included in the final action plan. For each high priority mitigation action listed, potential funding sources; responsible departments or agencies; and implementation timelines have been identified. This information has also been provided for medium and low priority mitigation strategies (if available).

Potential Funding No. **Priority Project Name** Responsibility **Timing** Source **Emergency Warming** State Hazard Mayor and City and Feeding **High Priority** Mitigation Grant 0 to 5 years Council; City Manager Shelter(s) Program (HMGP) Emergency Mayor and City 2 **High Priority HMGP** 0 to 5 years Council; City Manager **Operations Plans** Community Hazard Mayor and City Communications 3 **High Priority** 0 to 5 years **HMGP** Council; City Manager **Education Plan** Modify Planning and Mayor and City More than 4 Low Priority City **Zoning Ordinances** Council; City Manager 10 years Assessment of 5 to 10 Medium Mayor and City 5 Vulnerable Not identified **Priority** Council; City Manager years Population **Emergency Warning** Medium Mayor and City 5 to 10 6 **HMGP Priority** Council; City Manager System years

Table 5-7: Prioritized Action Plan

Table 5-7: Prioritized Action Plan

No.	Project Name	Priority	Potential Funding Source	Responsibility	Timing
7	Food Security	High Priority	USDA Community Facilities	Mayor and City Council; City Manager	0 to 5 years
8	Enclosure and Automatic Functionality for Existing Generator	High Priority	HMGP	Mayor and City Council; City Manager	0 to 5 years
9	Generators	Medium Priority	HMGP	Mayor and City Council; City Manager	5 to 10 years
10	Fuel Storage	Low Priority	Not identified	Mayor and City Council; City Manager	More than 10 years
11	Mutual Aid Agreements	High Priority	HMGP	Mayor and City Council; City Manager	0 to 5 years
12	Cultural and Natural Resource Protection	Low Priority	Not identified	Mayor and City Council; City Manager	More than 10 years
13	Water Storage	High Priority	Community Block Grant Program Entitlement Communities Grants	Mayor and City Council; City Manager	0 to 5 years
14	Reduce Structural Vulnerability	Low Priority	Not identified	Mayor and City Council; City Manager	More than 10 years
15	Shoreline Stabilization near Critical Roads	Medium Priority	Not identified	Mayor and City Council; City Manager	5 to 10 years
16	Cliff Stabilization at Cemetery	Medium Priority	Not identified	Mayor and City Council; City Manager	5 to 10 years
17	Relocate Ammonia Storage Tanks	High Priority	Community Block Grant Program Entitlement Communities Grants	Mayor and City Council; City Manager	0 to 5 years
18	Integrate Spill Notification with City Emergency Notification System	High Priority	Assistance to Firefighters Grant Program	Mayor and City Council; City Manager; Fire Chief	0 to 5 years
19	Training of On-Site Staff for Ammonia Leak Response	High Priority	Assistance to Firefighters Grant Program	Mayor and City Council; City Manager; Fire Chief	0 to 5 years
20	Increase Quarantine Units and Provide Supplies to Quarantine Units	Low Priority	Not identified	Mayor and City Council; City Manager	More than 10 years

Table 5-7: Prioritized Action Plan

No.	Project Name	Priority	Potential Funding Source	Responsibility	Timing
21	Protect Critical Facilities from Storm Surge	High Priority	HMGP	Mayor and City Council; City Manager	0 to 5 years
22	Search and Rescue Equipment and Training	Medium Priority	FEMA	Mayor and City Council; City Manager; Director of Public Safety	5 to 10 years
23	Protect Wind Turbines from Lightning Strikes	Medium Priority	Not identified	Mayor and City Council; City Manager	5 to 10 years
24	Wind Protection	Low Priority	Not identified	Mayor and City Council; City Manager	More than 10 years
25	Protect Power Plant	Low Priority	Not identified	Mayor and City Council; City Manager	More than 10 years
26	Tsunami Inundation Study	Low Priority	Not identified	Mayor and City Council; City Manager	More than 10 years
27	Expand and Upgrade Fire Facilities and Equipment	Medium Priority	USDA Community Facilities; FEMA	Mayor and City Council; City Manager; Director of Public Safety	5 to 10 years
28	Training for Volunteer First Responders	High Priority	FEMA	Mayor and City Council; City Manager; Director of Public Safety	0 to 5 years

5.6 PLAN INTEGRATION

Information about how the 2022 LHMP will be integrated into the City of Saint Paul's relevant plans and programs moving forward is provided in Table 5-8.

Table 5-8: Integration of 2022 LHMP

LHMP Section	Existing Plan/Policy/Program	Process/Timeframe
Section 3—Hazard Identification	Ataqan Akun Community Plan	Update of the Ataqan Akun Community Plan to address hazards in the LHMP that are not currently included in the Ataqan Akun Community Plan.

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Table 5-8: Integration of 2022 LHMP

LHMP Section	Existing Plan/Policy/Program	Process/Timeframe
Section 5— Mitigation Strategy	City of Saint Paul, Alaska 2017- 2021 Capital Improvement Plan	Incorporate the mitigation actions provided in Table 5-6 into the Capital Improvement Plan by further studying and evaluating the underlying problems or if studies exist that outline potential solutions. Begin the design stage to develop a plan for each identified project, the actions to be taken, engineering and construction required, schedule, and estimated costs.

6 PLAN REVIEW, EVALUATION, AND IMPLEMENTATION

This section addresses Element D of the Local Mitigation Plan Regulation Checklist.

Regulation Checklist - 44 CFR 201.6 Local Mitigation Plans

Element D: Plan Review, Evaluation and Implementation

- D1. Was the plan revised to reflect changes in development? (Requirement § 201.6(d)(3))
- D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement § 201.6(d)(3))
- D3. Was the plan revised to reflect changes in priorities? (Requirement § 201.6(d)(3))

6.1 CHANGES IN DEVELOPMENT

The 2016 LHMP was updated to reflect the following changes that affect development:

- New vessel repair building located on the waterfront in previously developed area. New vessel building does not increase community vulnerability from the hazards profiled.
- New housing units 167A, 167B, 168A, 168B, 169A, 169B Colonel Fouke were constructed in the population center but do not increase community vulnerability from the hazards profiled.

6.2 PROGRESS IN LOCAL MITIGATION EFFORTS

The City of Saint Paul reviewed its 2016 LHMP's mitigation strategy and documented progress made toward each local mitigation effort, provided in Table 6-1. Mitigation actions that had not be implemented were considered for the 2022 LHMP (Table 5-6).

Table 6-1: Progress in Local Mitigation Efforts

Action #	Action	Status
MH 1	Provide outreach activities to educate and promote recognizing and mitigating all natural and human-made hazards that affect the city and the Aleut Community of Saint Paul Island (tribe)	Ongoing, mitigation action included in the 2022 LHMP.
MH 2	Cross-reference mitigation goals and actions with other city and tribal planning mechanisms and projects.	Deferred, included in Plan Integration section of 2022 LHMP, and will not be included the 2022 LHMP as a Mitigation Strategy.
MH 3	Develop construction activities that reduce possibility of losses from all natural and human-made hazards that affect the city and tribe.	Ongoing, mitigation action modified and included in the 2022 LHMP.
EQ 4	Reduce structural vulnerability to earthquake damage	Deferred, mitigation action modified and included in the 2022 LHMP.
FL 5	Reduce flood and erosion damage and loss possibly.	Deferred, mitigation action modified and included in the 2022 LHMP.

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Action # Action Status Ongoing, new emergency sirens to be installed July 2022, mitigation action SW 6 Reduce structural vulnerability to severe weather damage. modified and included in the 2022 LHMP. Ongoing, new emergency sirens to be Reduce vulnerability, damage, or loss of structures from installed July 2022, mitigation action **TS** 7 tsunami or seiche. modified and included in the 2022 LHMP.

Table 6-1: Progress in Local Mitigation Efforts

6.3 CHANGES IN PRIORITIES

The 2016 LHMP's mitigation strategy was prioritized using the STAPLEE (social, technical, administrative, political, legal, environmental, and economic) method, which FEMA recommended (FEMA 386-9) as a prioritization method in the early to mid-2000s. While the STAPLEE method has been replaced in the 2022 LHMP by a more streamlined prioritization process, the priorities (listed below) have not changed:

- To build a culture and practice of disaster resilience by addressing hazards of immediate concern, a mitigation project must have social support.
- To be implemented in a timely manner, a mitigation project must be economically feasible and have an identified funding source.

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7 PLAN ADOPTION

This section addresses Element E of the Local Mitigation Plan Regulation Checklist.

Regulation Checklist - 44 CFR 201.6 Local Mitigation Plans

Element E: Plan Adoption

- E1. Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement $\S 201.6(c)(5)$)
- E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption? (Requirement $\S 201.6(c)(5)$)

7.1 FORMAL ADOPTION

The 2022 LHMP was formally adopted on October 7, 2022 by the City of Saint Paul City Council. A copy of the adoption resolution in on file with the community and the Alaska Division of Homeland Security and Emergency Management.

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8 APPENDICES

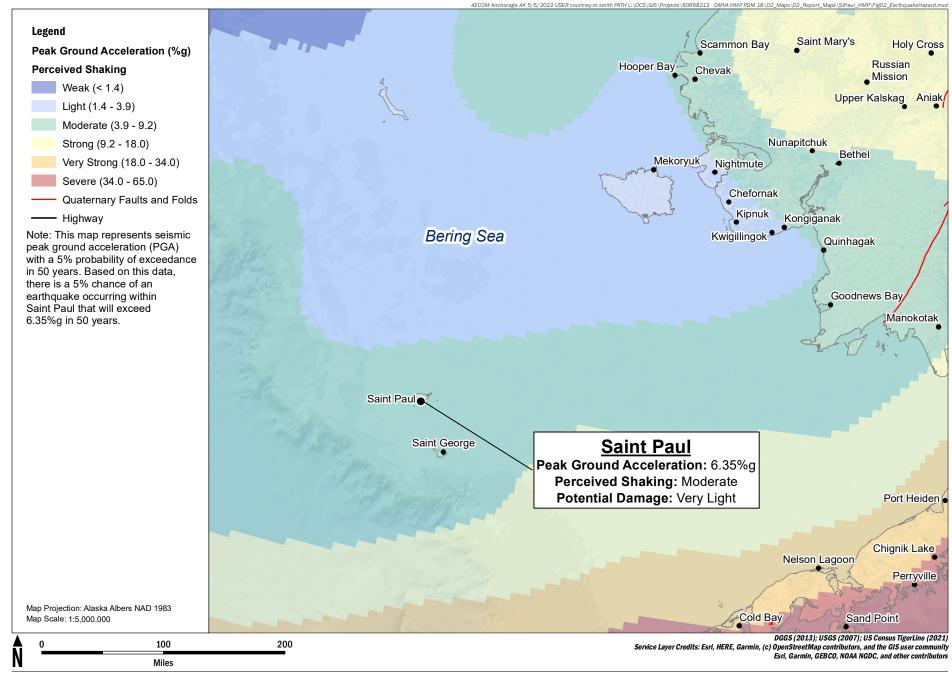
2022 PAGE | 8-1

APPENDIX A—FIGURES

City of St. Paul City 2022 Local Hazard Mitigation Plan

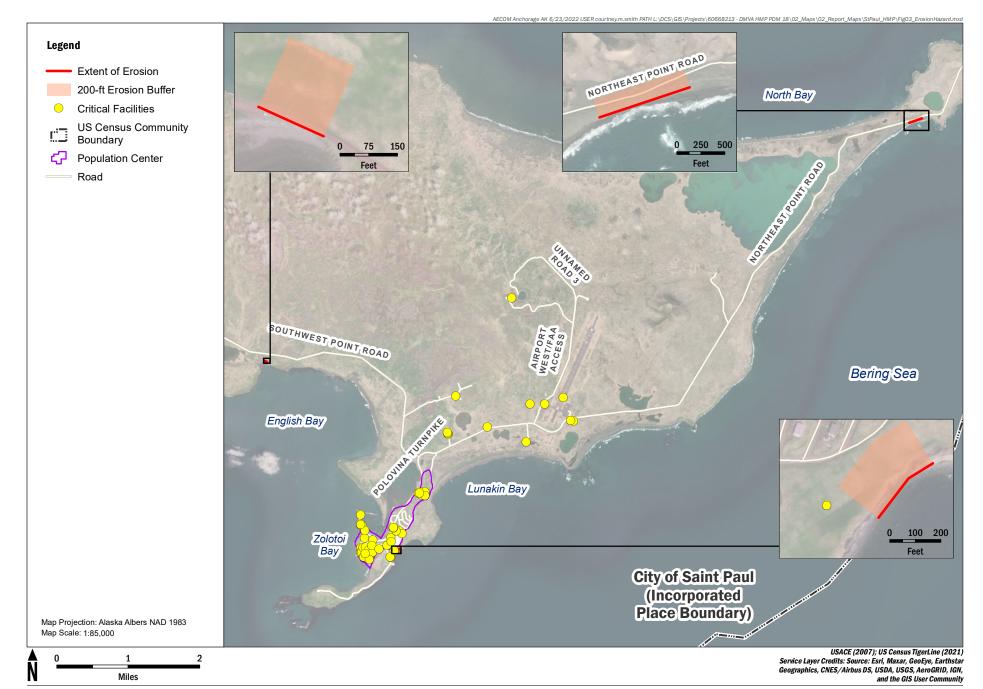
2.5 Miles US Census TigerLine (2021) Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

OVERVIEW MAP



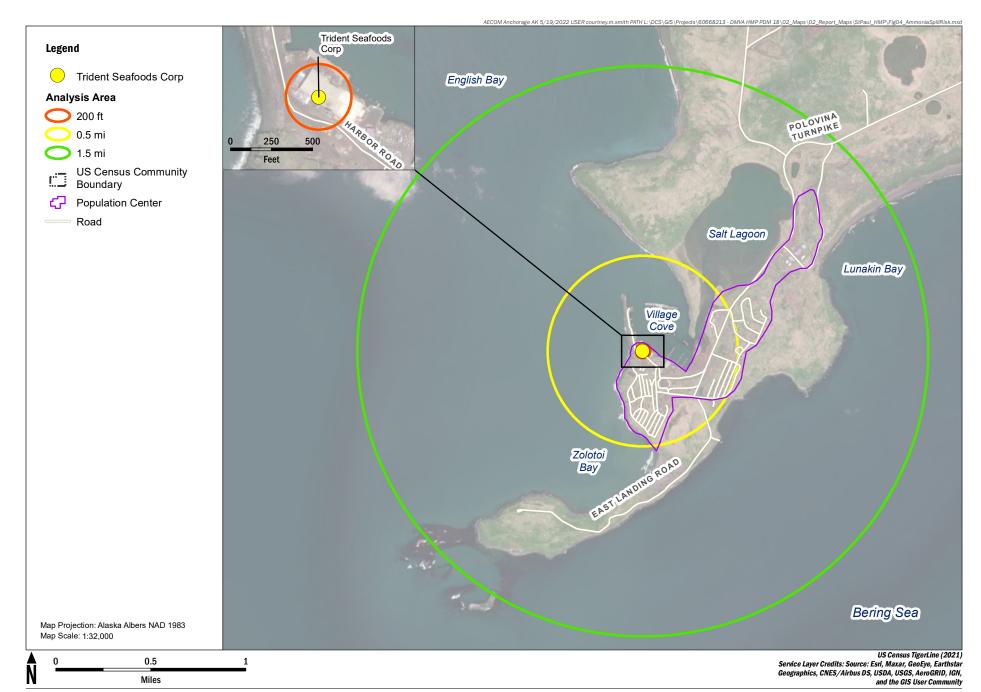
City of Saint Paul 2022 Local Hazard Mitigation Plan

EARTHQUAKE HAZARD AREAS



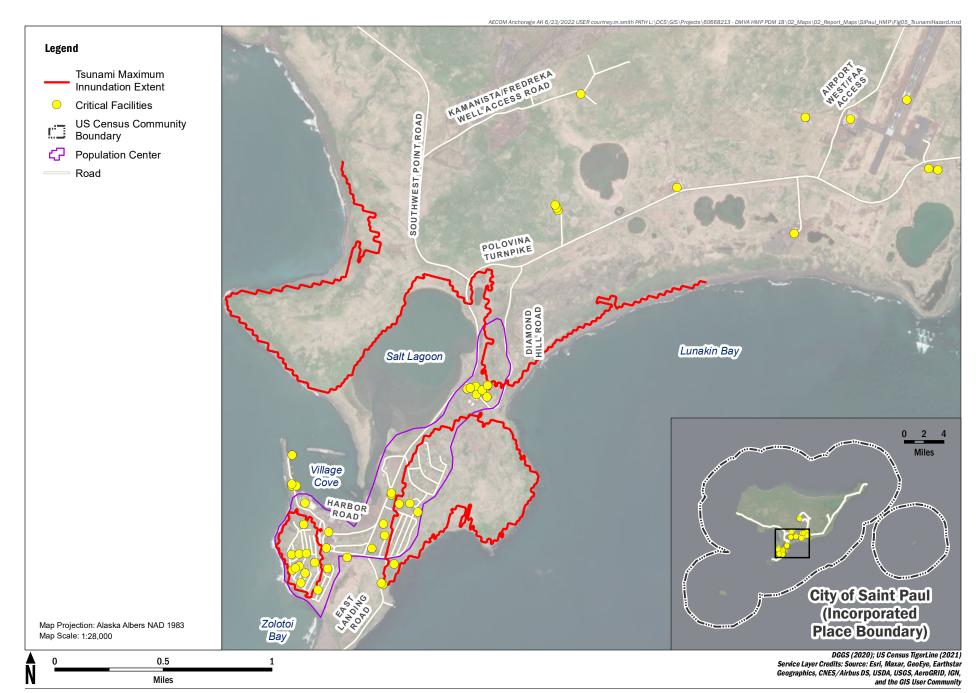
AECOMCity of Saint Paul 2022
Local Hazard Mitigation Plan

EROSION HAZARD AREAS



City of Saint Paul 2022 Local Hazard Mitigation Plan

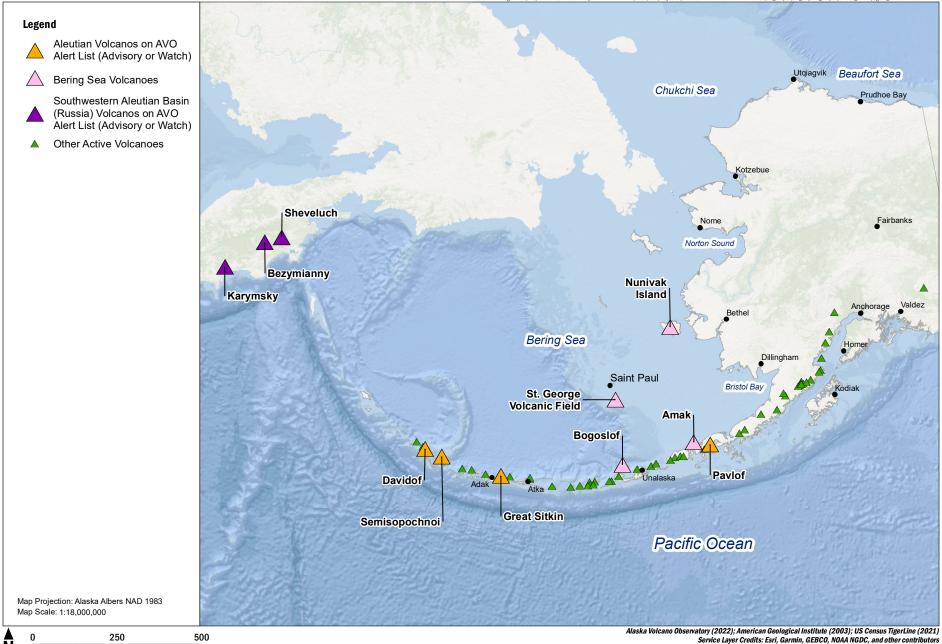
AMMONIA SPILL RISK



A=COM

City of Saint Paul 2022 Local Hazard Mitigation Plan

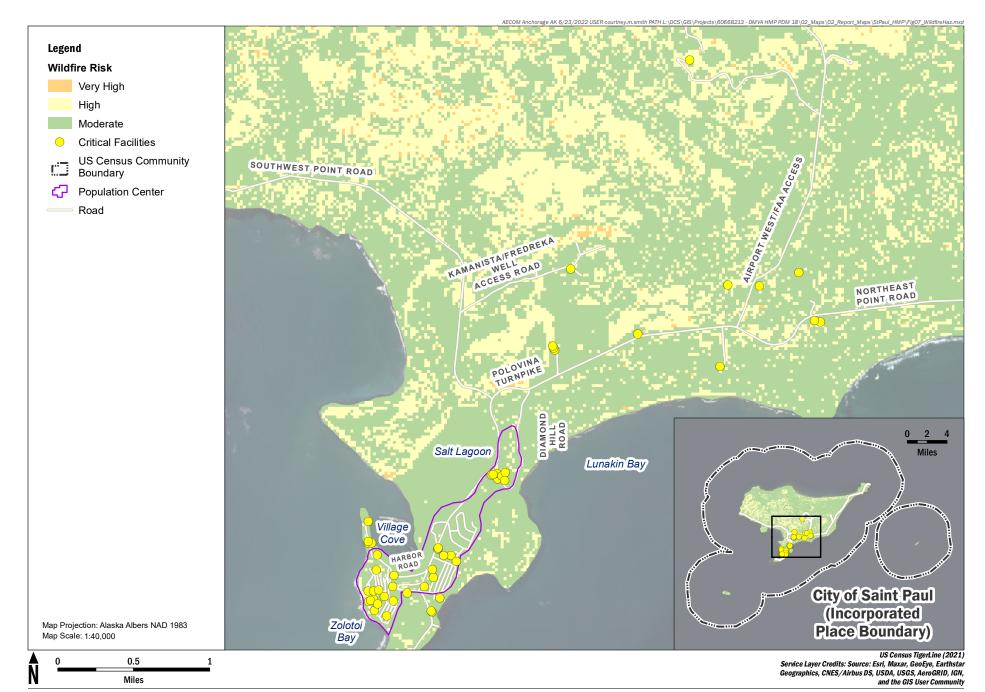
TSUNAMI HAZARD AREAS



City of Saint Paul 2022 Local Hazard Mitigation Plan

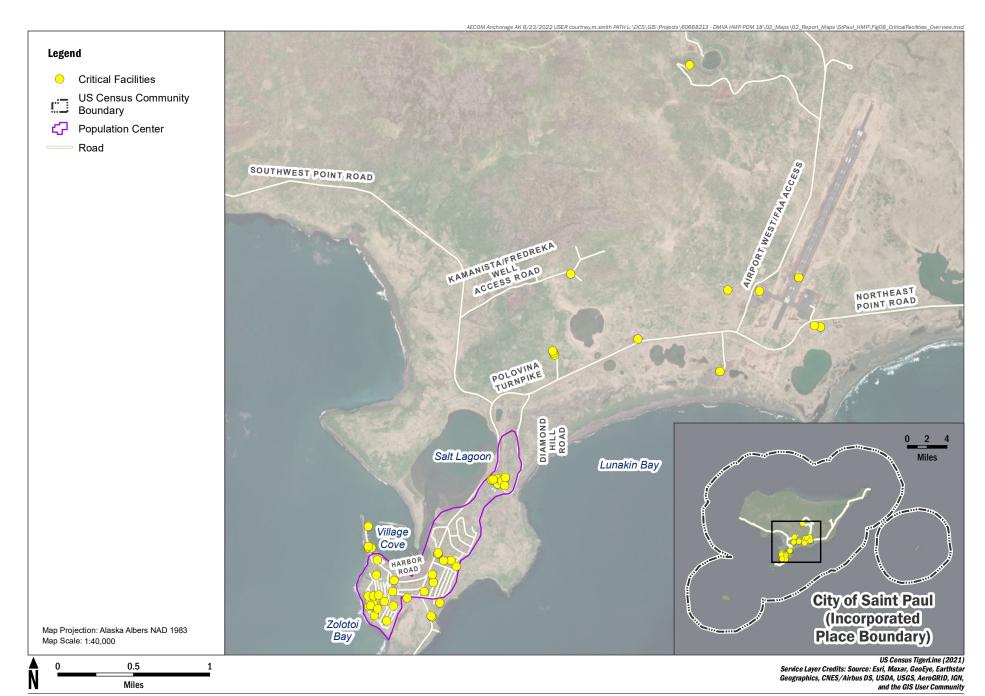
Miles

ACTIVE VOLCANOS



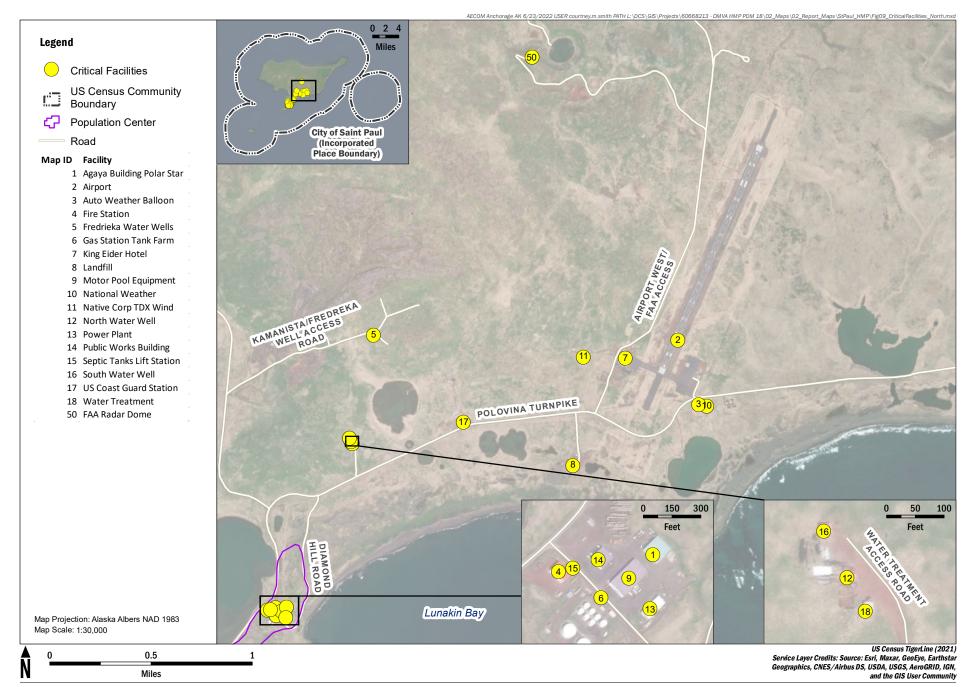
City of Saint Paul 2022 Local Hazard Mitigation Plan

WILDFIRE HAZARD AREAS



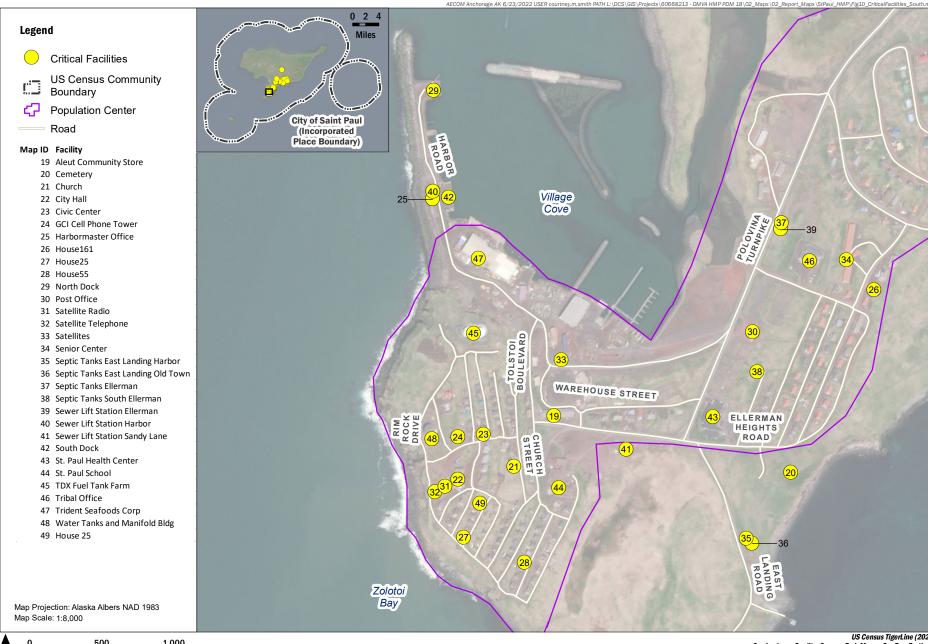
City of Saint Paul 2022 Local Hazard Mitigation Plan

CRITICAL FACILITIES OVERVIEW



City of Saint Paul 2022 Local Hazard Mitigation Plan

CRITICAL FACILITIES (NORTH)



0 500 1,000 Feet US Census TigerLine (2021)
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar
Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN,
and the GIS User Community

AECOM

City of Saint Paul 2022 Local Hazard Mitigation Plan

CRITICAL FACILITIES (SOUTH)

APPENDIX B—FEMA REVIEW TOOL

LOCAL MITIGATION PLAN REVIEW TOOL +HHPD

The Local Mitigation Plan Review Tool demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The <u>Regulation Checklist</u> provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The <u>Plan Assessment</u> identifies the plan's strengths as well as documents areas for future improvement.
- The Multi-jurisdiction Summary Sheet is an optional worksheet that can be used to document how each jurisdiction met the requirements of each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

2022 City of Saint Paul, AK Local

Date of Plan:

September 2022

Title of Plan:

Hazard	Mitigatio	n Plan Update	
Local Point of Contact:		Address:	
Philip Zavadil			
Title:			
City Manager			
Agency:			
City of Saint Paul			
Phone Number:		E-Mail:	
907-341-3994		pazavadil@stpau	<u>lak.com</u>
State Reviewer:	Title:		Date:
Erin M. Leaders	EMS II,	/Planner	1 st Review 07/27/2022
			2 nd Review 09/22/2022
FEMA Reviewer:	Title:		Date:
Danielle Curtis	CERC P	lanner	9/8/2022
John McCandless	FEMA I	Mitigation Planner	9/16/2022
	2 /2 /2 2		
Date Received in FEMA Region 10	8/9/20	22	
Plan Not Approved			
Plan Approvable Pending Adoption 9/26/20		022	
Plan Approved			

Jurisdiction:

City of Saint Paul

SECTION 1: REGULATION CHECKLIST

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the Plan by Element/sub-element and to determine if each requirement has been 'Met' or 'Not Met.' The 'Required Revisions' summary at the bottom of each Element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is 'Not Met.' Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in this *Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST Regulation (44 CFR § 201.6 Local Mitigation Plans)	Location in Plan (section and/or	Met	Not Met
ELEMENT A. PLANNING PROCESS			
A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1))	Sec 2.1/pp. 2-1 –2-2 (PDF 10-11)	х	
A2. Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))	Sec 2.2/pp. 2-2–2-3 (PDF 11-12), PDF p. 66 (Appendix C)	х	
A3. Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))	Sec. 2.1/pp. 2-1 (PDF 10), Sec 2.3/pp. 2-3 (PDF p. 12)	Х	
A4. Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))	Sec 2.4/pp. 2-3 –2-4 (PDF 12-13)	х	
A5. Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))	Sec 2.5/pp. 2-4 (PDF 13)	Х	
A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))	Sec 2.6/pp. 2-4 –2-5 (PDF 13-14)	х	
ELEMENT A: REQUIRED REVISIONS			

ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSES	SSMENT		
B1. Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement §201.6(c)(2)(i))	pp.3-2 – 3-16	Х	
B2. Does the Plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))	pp.3-2 – 3-16	Х	
B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))	Sec 4.1/pp. 4-1 –4-4 (PDF 31-34) Sec 4.2/ pp. 4-4 –4-6 (PDF 34-36)	х	
B4. Does the Plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))	Sec 4.3/pp. 4-6 (PDF p. 36)	Х	

ELEMENT B: REQUIRED REVISIONS

ELEMENT C. MITIGATION STRATEGY			
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	Sec 5.1/pp. 5-1 –5-6 (PDF 37-42)	х	
C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))	Sec 5.2/pp. 5-6 (PDF 42)	Х	
C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))	Sec 5.3/pp. 5-6 (PDF 42)	Х	
C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))	Sec 5.4/pp. 5-6 –5-9 (PDF 42-45)	х	
C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))	Sec 5.4/pp. 5-6 –5-9 (PDF 42-45) Sec 5.5/pp. 5-10 –5-12 (PDF 46-48), Sec. 6.3/pp. 6-2 (PDF p. 51)	х	
C6. Does the Plan describe a process by which local governments will integrate the requirements of the mitigation plan into other planning mechanisms, such as comprehensive or capital improvement plans, when appropriate? (Requirement §201.6(c)(4)(ii))	Sec 5.6/pp. 5-12 –5-13 (PDF 48-49)	x	

ELEMENT C: REQUIRED REVISIONS

AECOM Response: Table 5-6 (Recommended Mitigation Actions) has been expanded to include a list of benefit-cost considerations for each mitigation action that were taken into account during the prioritization process.

FEMA concurs, Element met. JNA 9/26/2022.

ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLI updates only)	EMENTATION (applicable	to plan	
D1. Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3))	Sec 6.1/pp. 6-1 (PDF 50)	х	
D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3))	Sec 6.2/pp. 6-1 -6-2 (PDF 50-51)	х	
D3. Was the plan revised to reflect changes in priorities? (Requirement §201.6(d)(3))	Sec 5.5/pp. 5-10 –5-12 (PDF 46-48), Sec. 6.3/pp. 6-2 (PDF 51)	х	

ELEMENT D: REQUIRED REVISIONS

ELEMENT E. PLAN ADOPTION

E1. Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))	Sec 7.1/pp. 7-1 (PDF 52)	Х
E2. For multi-jurisdictional plans, has each jurisdiction	NA	
requesting approval of the plan documented formal plan adoption? (Requirement §201.6(c)(5))		

ELEMENT E: REQUIRED REVISIONS

E1 Met. The Plan was formally adopted by the City Council on October 7, 2022 by resolution. A copy of the resolution was included in the final version of the LHMP for publication and distribution.

ALL DAM RISKS - HIGH HAZARD POTENTIAL DAMS

HHPD1. Did the plan describe the incorporation of existing plans, studies, reports and technical information for HHPDs?				
HHPD1-a. Does the plan describe how the local government worked with local dam owners and/or the state dam safety agency?	NA			
HHPD1-b. Does the plan incorporate information shared by the state and/or local dam owners?	NA			
HHPD2. Did the plan address HHPDs in the risk assessment?				
HHPD2-a. Does the plan describe the risks and vulnerabilities to and from HHPDs?	NA			
HHPD2-b. Does the plan document the limitations and describe how to address deficiencies?	NA			

HHPD3. Did the plan include mitigation goals to reduce long-term vulnerabilities from HHPDs?

HHPD3-a. Does the plan address how to reduce vulnerabilities to	NA		
and from HHPDs as part of its own goals or with other long-term			
strategies?			
HHPD3-b. Does the plan link proposed actions to reducing long-	NA		
term vulnerabilities that are consistent with its goals?			
HHPD4. Did the plan include actions that address HHPDs and price	oritize mitigation actions to	o reduce	
vulnerabilities from HHPDs?			
HHPD4-a. Does the plan describe specific actions to address	NA		
HHPDs?			
HHPD4-b. Does the plan describe the criteria used to prioritize	NA		
actions related to HHPDs?			
HHPD4-c. Does the plan identify the position, office, department	NA		
or agency responsible for implementing and administering the			
action to mitigate hazards to or from HHPDs?			
HHPD Required Revisions			
ELEMENT F. ADDITIONAL STATE REQUIREMENTS (OPT	IONAL FOR STATE REV	/IEWER	S
ONLY; NOT TO BE COMPLETED BY FEMA)			
F1.			
F2.			
ELEMENT F: REQUIRED REVISIONS			

SECTION 2: PLAN ASSESSMENT

INSTRUCTIONS: The purpose of the Plan Assessment is to offer the local community more comprehensive feedback to the community on the quality and utility of the plan in a narrative format. The audience for the Plan Assessment is not only the plan developer/local community planner, but also elected officials, local departments and agencies, and others involved in implementing the Local Mitigation Plan. The Plan Assessment must be completed by FEMA. The Assessment is an opportunity for FEMA to provide feedback and information to the community on: 1) suggested improvements to the Plan; 2) specific sections in the Plan where the community has gone above and beyond minimum requirements; 3) recommendations for plan implementation; and 4) ongoing partnership(s) and information on other FEMA programs, specifically Risk MAP and Hazard Mitigation Assistance programs. The Plan Assessment is divided into two sections:

- 1. Plan Strengths and Opportunities for Improvement
- 2. Resources for Implementing Your Approved Plan

Plan Strengths and Opportunities for Improvement is organized according to the plan Elements listed in the Regulation Checklist. Each Element includes a series of italicized bulleted items that are suggested topics for consideration while evaluating plans, but it is not intended to be a comprehensive list. FEMA Mitigation Planners are not required to answer each bullet item and should use them as a guide to paraphrase their own written assessment (2-3 sentences) of each Element.

The Plan Assessment must not reiterate the required revisions from the Regulation Checklist or be regulatory in nature and should be open-ended and to provide the community with suggestions for improvements or recommended revisions. The recommended revisions are suggestions for improvement and are not required to be made for the Plan to meet Federal regulatory requirements. The italicized text should be deleted once FEMA has added comments regarding strengths of the plan and potential improvements for future plan revisions. It is recommended that the Plan Assessment be a short synopsis of the overall strengths and weaknesses of the Plan (no longer than two pages), rather than a complete recap section by section.

Resources for Implementing Your Approved Plan provides a place for FEMA to offer information, data sources and general suggestions on the plan implementation and maintenance process. Information on other possible sources of assistance including, but not limited to, existing publications, grant funding or training opportunities, can be provided. States may add state and local resources, if available.

A. Plan Strengths and Opportunities for Improvement

This section provides a discussion of the strengths of the plan document and identifies areas where these could be improved beyond minimum requirements.

Element A: Planning Process

Plan Strengths:

- There is a clear timeline of the planning process and a record of planning team contributions.
- Multiple communication and engagement platforms were used. They included email, website and a newsletter.

Opportunities for Improvement:

 Consider alternative ways to engage the public and solicit more feedback in the future.

Element B: Hazard Identification and Risk Assessment

Plan Strengths:

- There is an organized risk assessment table for each hazard.
- There is strong consideration of climate change impacts and vulnerabilities.

Opportunities for Improvement:

- Include more figures to communicate risk to the public such as tables, charts, maps and photos.
- Identify any data gaps that can be filled as new data become available. This task can be incorporated into the plan review and evaluation process.

Element C: Mitigation Strategy

Plan Strengths:

- The plan addresses opportunity. It also addresses ability to expand on resources and capabilities.
- There is a diversity of mitigation actions and types. These stress a relationship to new and existing development.

Opportunities for Improvement:

Include estimated project costs in mitigation action discussion and prioritization.
 This will help discuss feasibility and potential funding sources.

Element D: Plan Update, Evaluation, and Implementation (Plan Updates Only)

Plan Strengths:

 The plan describes changes in development that may affect community vulnerability. Assessing future conditions supports a long-term vision for resilience.

Opportunities for Improvement:

• Consider potential challenges to executing the plan and how to address them. This may include local capabilities, geography, or if other resources are available. This will help proactively monitor the mitigation strategy and evaluate its effectiveness.

B. Resources for Implementing Your Approved Plan

Ideas may be offered on moving the mitigation plan forward and continuing the relationship with key mitigation stakeholders such as the following:

- What FEMA assistance (funding) programs are available (for example, Hazard Mitigation Assistance (HMA)) to the jurisdiction(s) to assist with implementing the mitigation actions?
- What other Federal programs (National Flood Insurance Program (NFIP), Community Rating System (CRS), Risk MAP, etc.) may provide assistance for mitigation activities?
- What publications, technical guidance or other resources are available to the jurisdiction(s) relevant to the identified mitigation actions?
- Are there upcoming trainings/workshops (Benefit-Cost Analysis (BCA), HMA, etc.) to assist the jurisdictions(s)?
- What mitigation actions can be funded by other Federal agencies (for example, U.S. Forest Service, National Oceanic and Atmospheric Administration (NOAA), Environmental Protection Agency (EPA) Smart Growth, Housing and Urban Development (HUD) Sustainable Communities, etc.) and/or state and local agencies?

FEMA's 2022-2026 FEMA Strategic Plan

FEMA's 2022-2026 FEMA Strategic Plan outlines a bold vision and three ambitious goals designed to address key challenges the agency faces during a pivotal moment in the field of emergency management.

Goal 1: Instill equity as a foundation of emergency management

Goal 2: Lead whole of community in climate resilience

Goal 3: Promote and sustain a ready FEMA and prepared nation

2022-2026 FEMA Strategic Plan

https://www.fema.gov/sites/default/files/documents/fema 2022-2026-strategic-plan.pdf

Training

The FEMA Emergency Management Institute Mitigation Curriculum provides training for Federal, State, local, and tribal governments that are working to eliminate or reduce the long-term risk to human life and property posed by earthquakes, floods, tornadoes, dam failures, landslides, hurricanes, and other natural hazards.

FEMA Emergency Management Institute Mitigation Curriculum https://training.fema.gov/is/searchisbycurriculum.aspx?keywords=mitigation

Funding

The Resource List for the BRIC Grant Program provides a list of resources and information on key elements of the Building Resilient Infrastructure and Communities (BRIC) program.

Resource List for the BRIC Grant Program https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities/resources

The Region 10 Mitigation Funding Opportunity Guides provide state, tribes, and local officials with a wide range of application development resources for hazard mitigation grants.

Region 10 Mitigation Funding Opportunity Guides https://www.fema.gov/about/organization/region-10/mitigation-funding-opportunity-guides

The Planning Related Activities Using Hazard Mitigation Planning Grant Program 7-Percent Funding

factsheet provides information on Planning related activities from the Hazard Mitigation Grant Program (HMGP). State, Tribal, and/or local governments may use planning-related funding to reduce risk and include hazard mitigation with planning. Take a look at this guide for information on what types of mitigation activities may help you implement your projects.

Planning Related Activities Using Hazard Mitigation Planning Grant Program 7-Percent Funding

https://www.fema.gov/node/planning-related-activities-using-hazard-mitigation-planning-grant-program-7-percent-funding

Rehabilitation of High Hazard Potential Dams (HHPD) provides technical, planning, design, and construction assistance in the form of grants for rehabilitation of eligible high hazard potential dams. High Hazard Potential is a classification standard for any dam whose failure or misoperation will cause loss of human life and significant property destruction.

Rehabilitation Of High Hazard Potential Dam (HHPD) Grant Program https://www.fema.gov/emergency-managers/risk-management/dam-safety/rehabilitation-high-hazard-potential-dams

Your mitigation strategy may include eligible projects to be funded through FEMA's hazard mitigation grant programs (BRIC, Hazard Mitigation Grant Program, Flood Mitigation Assistance). Contact your State Hazard Mitigation Officer, Terry Murphy, at terry.murphy@alaska.gov, for more information.

Plan Integration

The Region 10 Coffee Break Webinar on Integrating Natural Hazard Mitigation into Comprehensive Planning is a resource specific to Region 10 states and provides examples of how communities are integrating natural hazard mitigation strategies into comprehensive planning.

Integrating Natural Hazard Mitigation Plans into Local Planning - YouTube (#11 in the series)

https://www.youtube.com/watch?v=6LBSCe48oZw

The whole series includes 12 webinars focused in Mitigation planning.

Natural Hazards Mitigation Planning Coffee Break Series - YouTube https://www.youtube.com/playlist?list=PLayUpGk-iyXUJpJtYflC5aFUqi2jkdBCm

Plan Integration: Linking Local Planning Efforts is a step-by-step guide to help communities review local plans for possible integration and improve alignment efforts, including interagency coordination.

Plan Integration: Linking Local Planning Efforts https://www.fema.gov/sites/default/files/2020-06/fema-plan-integration 7-1-2015.pdf

The Mitigation Planning and Community Rating System Bulletin provides an overview of how to bring together planning efforts between the Community Rating System and hazard mitigation plans.

Mitigation Planning and the Community Rating System: Key Topics Bulletin https://www.fema.gov/sites/default/files/2020-06/fema-mitigation-planning-and-the-community-rating-system-key-topics-bulletin 10-1-2018.pdf

Climate Mapping for Resilience and Adaptation (CMRA) integrates information from across the federal government to help people consider their local exposure to climate-related hazards. People working in community organizations or for local, Tribal, state, or Federal governments can use the site to help them develop equitable climate resilience plans to protect people, property, and infrastructure. The site also points users to Federal grant funds for climate resilience projects, including those available through the Bipartisan Infrastructure Law.

Climate Mapping for Resilience and Adaptation https://resilience.climate.gov/

Mitigation Ideas/Best Practice

The Region 10 Seismic Mitigation Showcase Guides highlight mitigation successes in earthquake and tsunami mitigation by documenting specific locations and communities, the decision-making process, path to funding, and how partnerships were developed.

Region 10 Seismic Mitigation Showcase Guides https://www.fema.gov/about/organization/region-10/seismic-mitigation-showcase-guides

The Mitigation Ideas: A Resource for Reducing Risk from Natural Hazards resource presents ideas for how to mitigate the impacts of different natural hazards, from drought and sea level rise, to severe winter weather and wildfire. The document also includes ideas for actions that communities can take to reduce risk to multiple hazards, such as incorporating a hazard risk assessment into the local development review process.

Mitigation Ideas

https://www.fema.gov/sites/default/files/2020-06/fema-mitigation-ideas 02-13-2013.pdf

The Local Mitigation Planning Handbook provides guidance to local governments on developing or updating hazard mitigation plans to meet and go above the requirements.

Local Mitigation Planning Handbook

https://www.fema.gov/sites/default/files/2020-06/fema-local-mitigation-planning-handbook 03-2013.pdf

The FEMA Region 10 Risk Mapping, Analysis, and Planning program (Risk MAP) releases a monthly newsletter that includes information about upcoming events and training opportunities, as well as hazard and risk related news from around the Region. If you would like to receive future newsletters, email rxnewsletter@starr-team.com and ask to be included. Past newsletters can be viewed at https://starr-team.com and ask to be included.

team.com/starr/RegionalWorkspaces/RegionX/Pages/default.aspx.

Planning for Post-Disaster Redevelopment includes guidance on how to integrate risk reduction strategies into existing local plans, policies, codes, and programs for community development or redevelopment patterns.

Planning for Post-Disaster Redevelopment https://www.fema.gov/sites/default/files/2020-07/post-disaster-redevelopment-planning.pdf

The National Fire Adapted Communities Learning Network exists to support and connect people and communities working on wildfire resilience. It offers community-based leaders resources, tools and connections to reduce their wildfire risk and increase community resilience.

National Fire Adapted Communities Learning Network https://fireadaptednetwork.org/about/

APPENDIX C—PLANNING PROCESS









2022 City of St. Paul Local Hazard Mitigation Plan Update

Our community is launching an effort known as the 2022 Saint Paul Island Local Hazard Mitigation Plan Update. Over the next few months, we will work with a consultant to assess risks posed by natural disasters and develop strategies to protect life and property in Saint Paul Island from future hazard events.

Examples of hazards that will be addressed in our plan include the following: erosion, severe weather (including storm surge), earthquakes, and climate change.

This is an update to the *City of St. Paul's 2016 Local Hazard Mitigation Plan Update*. Once our plan is completed and approved by FEMA, our community will be eligible again to apply for and receive certain types of nonemergency disaster assistance, including funding for mitigation projects identified in our plan.

For more information, please visit: https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning

To learn more about our plan, please contact Phillip Zavadil at pazavadil@stpaulak.com.

We will provide an update once a draft plan is developed.

To: Saint Paul Boxholders Saint Paul Island, Alaska 99660

Revenue Update

The revenue streams flowing into Saint Paul Island will be severely impacted by the collapse of the crab stocks. Based on current projections, the City is expected to experience an 87% drop in direct city tax revenues, from \$3.3 million in 2021 to \$422,000 in 2022, resulting from the loss of crab not being delivered to Saint Paul Island for processing and the associated taxes. The State of Alaska will be sharing with the communities their share of fishery taxes (3% is assessed by the State of which half is shared with the City) later in 2022, which will attenuate the impacts. This amount is roughly projected to be \$1,590,848. After this takes place, the City's revenues are still projected to be at minus 52% in relation to 2021. The City will basically be kept afloat next year by the taxes shared by the State of Alaska. In 2023, however, the situation will likely look very grim. The 52% reduction in tax revenues in 2022, is projected to be followed up with an additional 69% reduction in 2023.

Additionally, due to the collapse of the crab stocks the City expects an estimated 70% reduction in dockage and wharfage revenues at the City docks which is projected to be \$82,413 in 2022. The City expects the same 70% reduction in marine fuel and package stock revenue which is projected to be

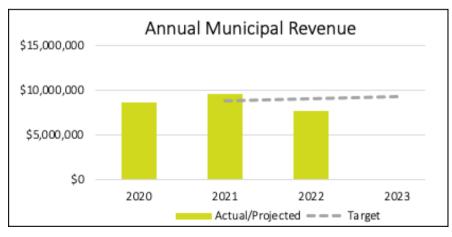
\$45,500 in 2022. Although these figures may appear minimal, they are important to the overall revenues of a small community such as Saint Paul Island.

Over the mid to long term, should this status persist, it will impact municipal services, the City's ability to pay debts and obligations, and its ability to finance or provide local matches to future harbor and other infrastructure projects, necessary to maintain Saint Paul Island's participation in the Bering Sea fisheries.

While the City's goal in the coming economic downturn is to maintain essential and critical municipal services (public safety, electricity, water, sewer, refuse, roads, heating fuel) for residents and businesses, this will be challenged due to the severe reduction in revenues along with increasing costs which include:

- Personnel costs are expected to increase a minimum of 6%;
- Health insurance is expected to increase 12%;
- Property, auto, and liability insurance coverage increased 16%;
- Shipping costs have increased due to the ongoing pandemic, and;
- Fuel costs are expected to increase with the price of oil rising.

Annual Municipal Revenue						
	2020	2021	2022	2023		
Actual/Projected	\$8,640,730	\$9,615,053	\$7,698,353			
Target		\$8,813,545	\$9,033,883	\$9,259,730		



In response to reduced revenues and increasing costs; the City plans to:

- Leave two positions unfilled this next year;
- Put a freeze on any merit increases;
- Defer any major maintenance to public facilities;
- Not invest in much needed capital purchases, and;
- Evaluate sewer rate increases to residents and businesses.

Employee Turnover Update

This past year was a rough year for the City in regards to employees that separated employment with the City. The City's employee turnover rate for 2021 was 59.5%. The target turnover rate was 10%. A total of 24 employees separated employment from the City in 2021. Eight or 20% of employees separated employment with the City due to the COVID-19 vaccine policy.

Annual employee turnover rate						
	2020	2021	2022	2023		
Actual	30.5%	59.5%				
Target		10%	10%	10%		

Annual Employee Turnover Rate 60% 3.0% 50% 25% 40% 20% 30% 1 596 20% 10% 10% 2020 2021 2022 2023 Actual --- Target

This year we will be working with our employees on individual development plans to outline training and development opportunities for exiting employees with the goal of increase employee retention.

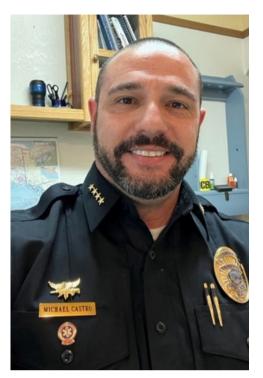
The City of Saint Paul is an exciting, progressive place to work. The City offers wonderful pay and benefits. Come join our team. We are currently trying to fill the following positions: Mechanic, Electrician, and Dispatcher. For more information employment opportunities with the City go to www.stpaulak.com.







EMPLOYEE PROFILE: Chief Castro



My name is Michael Castro and I am excited and honored to be your new director of public safety and chief of police. I have been actively involved in public safety since 1996 where I began training as a fire rescue explorer/cadet with three agencies.

After high school I was a volunteer firefighter while attending my EMT and paramedic training. In 2002 I started my professional career with Miami-Dade Fire Rescue. I continued my training and specialized in dive rescue and technical rescue. I became a rescue specialist in 2004 on the FEMA FL-TF1 Urban Search and Rescue Team. I then started teaching Advanced Cardiac Life Support and Emergency Response to Terrorism at the University of Miami School of Medicine part time. In 2007 I was promoted to the rank of lieutenant. In 2012 I began to attend and acquire law enforcement related certifications and attended the police academy in 2014. In 2018 I decided that I would retire from MDFR to pursue my other love of law enforcement full time where I felt I could make more of an impact in the community.

I have an immense passion for serving our community and keeping it safe. I look forward to earning the respect and overall acceptance of the community I now call home.

EMPLOYEE PROFILE: Sergeant Sotelo

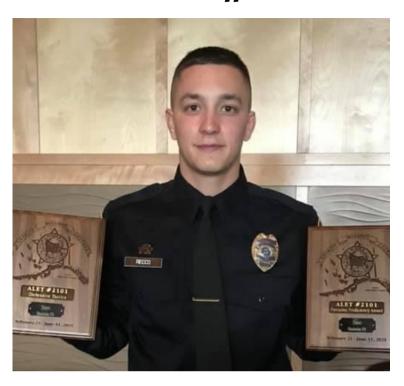


My name is Ann Sotelo. I am from California and moved to Alaska in 2016. I began my career as a police officer when I was hired for the Unalaska Department of Public Safety in May 2017. I always wanted to have a career in law enforcement in order to help fight human trafficking. I began my career as a police officer as my stepping stool to get some of the experience in investigating crimes. I love being a police officer because it is a challenging career that makes you keep on learning every day.

As hobbies I like to read about health, finance, police related topics, and self-help books.

I initially came to Saint Paul for a limited amount of time on a contract basis in order to assist while employed by the Unalaska Department of Public Safety. I liked the small community here. I felt very welcomed. I wanted to be a part of the change for this community and its Public Safety Department. I saw the opportunity of growth and the ability to steer this department into a good direction. I am very fortunate and happy to be given the opportunity to be part of a positive change.

EMPLOYEE PROFILE: Officer Recco



I'm Tony Recco. I am from Lyndonville, New York, a small farm community. I then went to Edinboro University where I wrestled and graduated with an Exercise Science degree.

I decided to move across the country to Alaska and become a police officer. I worked for City of Unalaska before I joined City of St. Paul, a great community that has been very welcoming. A few hobbies of mine are hunting and mixed martial arts training.

EMPLOYEE PROFILE: Officer Carter



My name is Clint Carter. I was born and raised in Provo, Utah. I joined the Marine Corps straight out of high school. I completed two combat deployments to Afghanistan. During my time in Afghanistan I grew extremely attached to the local community and the amazing people and culture within it.

After my time in the military I still had a strong want to serve, so law enforcement was an easy decision. As a law enforcement officer I have found that I am drawn to small communities. When I discovered the opportunity of Saint Paul Island I quickly realized it's a small community with a rich and very unique culture. I am also an avid sportsman so being on Saint Paul Island seemed to be a perfect fit.



City of Saint Paul Now Providing COVID-19 Testing

The drive-up site is located at the City Hall outside the Public Safety entrance. Contact Public Safety at 907-546-3133 to schedule a COVID test. Once your appointment is scheduled you can pre-register at: https://www.simplereport.gov/register/2JPT7

Testing Schedule

Rapid Tests:

- Monday Friday | 6 8 pm
- Saturday and Sunday | 1–4 pm

Proctored Antigen Tests:

• Monday – Friday | 1:30 – 4 pm

Rapid and PCR tests are available at the Saint Paul Health Center. Contact the Health Center at 907-546-8300 to schedule an appointment.

Want up-to-date information about the City's response to COVID-19?

Check out the COVID
Dashboard at:
https://covid19.stpaulak.com



Phillip A. Zavadil <pazavadil@stpaulak.com>

Sent: Thursday, January 6, 2022 9:53 AM

To: Jacob Merculief; President; cjnaulty@aleut.com; Chris Mandregan; Phillip Lestenkof;

Ray Melovidov; Dean Fasnacht; John Bruce; Michael Williams; Steve Delehanty; Angela Bourdukofsky; Don Reid; erin.leaders@alaska.gov; Sarah.Walker@bia.gov; Mark Hughes; Elliot Strong; Bell, Steve J (DOT); Kessler, Lyle E CDR; Viola Yatchmeneff; Dial Hoang - NOAA

Federal; Chris Woodruff; Jason Bourdukofsky; Lestenkof, Vivian - Saint Paul Island, AK

Roeland, Kim

Subject: [EXTERNAL] Saint Paul Island Local Mitigation Plan Update

The City of Saint. Paul is kicking off the 2022 St. Paul Local Hazard Mitigation Plan (LHMP) Update process. LHMPs are pre-disaster plans that are focused on reducing the impacts of disasters before they occur. In addition, governments that prepare LHMPs are eligible for certain types of FEMA funding.

The 2022 LHMP update process will take place over the next several months. This is an update to the City of St. Paul's 2016 Local Hazard Mitigation Plan Update. Examples of hazards addressed in the plan include: fire, severe weather, erosion, ground failure, earthquake, tsunami, and climate change.

To learn more about hazard mitigation planning, please visit: https://www.fema.gov/hazard-mitigation-planning.

If you would like to participate in our plan update process, please contact me.

We will send out a follow-up email when our Public Draft is available for review and comment.

Phil

From:

Cc:

Txin qaĝaasakuqing ~ Thank you



Phillip A. Zavadil, City Manager City of Saint Paul PO Box 901 950 Gorbatch Street Saint Paul Island, Alaska 99660 907-546-3113 (Office) 907-546-3188 (Fax) 907-546-4179 (Cell) pazavadil@stpaulak.com www.stpaulak.com





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From: Phillip A. Zavadil <pazavadil@stpaulak.com>

Sent: Thursday, January 6, 2022 10:32 AM

To: John Bruce; Angela Bourdukofsky; Jacob Merculief; Bell, Steve J (DOT); Elliot Strong; Lestenkof,

Vivian - Saint Paul Island, AK; Dial Hoang - NOAA Federal; Dean Fasnacht; Phillip Lestenkof; Viola Yatchmeneff; Jason Bourdukofsky; Michael Williams; Don Reid; cjnaulty@aleut.com; Steve Delehanty; Chris Mandregan; Ray Melovidov; erin.leaders@alaska.gov; Chris Woodruff; Kessler,

Lyle E CDR; President; Sarah.Walker@bia.gov; Mark Hughes

Cc: Roeland, Kim

Subject: [EXTERNAL] Re: Saint Paul Island Local Mitigation Plan Update

Per my original email "We will send out a follow-up email when our Public Draft is available for review and comment". We do not have a draft ready yet.

From: John Bruce < brucej@pribilofsd.org >

Date: Thursday, January 6, 2022 at 9:19 AM

To: Angela Bourdukofsky <abourdukofsky@aleutcorp.com>, jacob <jacob@stpaulak.com>, "Bell, Steve J (DOT)"

< <steve.bell@alaska.gov >, Elliot Strong < elliot@coastaltransportation.com >, "Lestenkof, Vivian - Saint Paul Island, AK"

<<u>vivian.lestenkof@usps.gov</u>>, Dial Hoang - NOAA Federal <<u>dial.hoang@noaa.gov</u>>, Dean Fasnacht

<dfasnacht@tridentseafoods.com>, Phillip Lestenkof lestenkof@cbsfa.com>, Viola Yatchmeneff

<<u>viola.yatchmeneff@ahaak.org</u>>, Jason Bourdukofsky <<u>jason@tdxnet.com</u>>, Michael Williams <<u>michael.williams@noaa.gov</u>>, Don Reid <dreid@lynden.com> Charlene Maulty <cinaulty@aleut.com> Steve Delehanty <steve_delehanty@fws.gov> Chris

 $Don \ Reid < \underline{dreid@lynden.com} >, \ Charlene \ Naulty < \underline{cjnaulty@aleut.com} >, \ Steve \ Delehanty < \underline{steve_delehanty@fws.gov} >, \ Chris \ Mandregan < \underline{chrism@tdxcorp.com} >, \ Ray \ Melovidov < \underline{raymelovidov@cbsfa.com} >, \ Phillip \ Zavadil < \underline{pazavadil@stpaulak.com} >, \ Phillip \ Zavadil < \underline{paza$

"erin.leaders@alaska.gov" <erin.leaders@alaska.gov>, Chris Woodruff <cwoodruff@tdxservices.com>, "Kessler, Lyle E CDR" <lyle.e.kessler@uscq.mil>, Amos Philemonoff cpresident@aleut.com>, "Sarah.Walker@bia.gov" <sarah.walker@bia.gov>,

Mark Hughes <mhughes@petrostar.com>

Cc: "Roeland, Kim" <kim.roeland@aecom.com>

Subject: Re: Saint Paul Island Local Mitigation Plan Update

Phil,

Not quite what I was looking for. What do I need to do to get a copy of this, even if it is the old one (preferably digital if possible)? Its 1 thing to put it in a plan. If the plan states we are supposed to have certain things on hand to be prepared, then I don't want it questioned why certain things aren't here if we ever have to use the plan. Something spelled out a little better with the building would be nice. Send me a copy.

Thanks,

John Bruce
Superintendent/K-12 Principal
Pribilof School District
CP: (907) 371-5052
EM: brucej@pribilofsd.org
"Home of the Sea Parrots"

On January 6, 2022 at 9:14:02 AM, Phillip A. Zavadil (pazavadil@stpaulak.com) wrote:

Depends on the hazard, need, if school is in session, and many other factors.

From: John Bruce <brucej@pribilofsd.org>

Date: Thursday, January 6, 2022 at 9:11 AM

To: Angela Bourdukofsky abourdukofsky@aleutcorp.com, Amos Philemonoff president@aleut.com,

"Bell, Steve J (DOT)" <steve.bell@alaska.gov>, Elliot Strong <elliot@coastaltransportation.com>,

"Lestenkof, Vivian - Saint Paul Island, AK" <vivian.lestenkof@usps.gov>, Dial Hoang - NOAA Federal

<a href="mailto:<dial.hoang@noaa.gov"><dial.hoang@noaa.gov, Dean Fasnacht <dial.hoang@noaa.gov, Phillip Lestenkof

<plestenkof@cbsfa.com>, Viola Yatchmeneff <viola.yatchmeneff@ahaak.org>, Jason Bourdukofsky

<jason@tdxnet.com>, Michael Williams <michael.williams@noaa.gov>, Don Reid <dreid@lynden.com>,

Charlene Naulty <cinaulty@aleut.com>, Steve Delehanty <steve_delehanty@fws.gov>, Chris Mandregan

<chrism@tdxcorp.com>, Ray Melovidov <raymelovidov@cbsfa.com>, Phillip Zavadil

<pazavadil@stpaulak.com>, "erin.leaders@alaska.gov" <erin.leaders@alaska.gov>, Chris Woodruff

<cwoodruff@tdxservices.com>, "Kessler, Lyle E CDR" <lyle.e.kessler@uscg.mil>,

"Sarah.Walker@bia.gov" <sarah.walker@bia.gov>, Mark Hughes <mhughes@petrostar.com>, jacob

<jacob@stpaulak.com>

Cc: "Roeland, Kim" < kim.roeland@aecom.com>

Subject: Re: Saint Paul Island Local Mitigation Plan Update

Phil.

In regards to the gym - for which emergency situations specifically? I was left nothing down here by Brett on any of this stuff.

Thanks,

John Bruce
Superintendent/K-12 Principal
Pribilof School District
CP: (907) 371-5052
EM: brucej@pribilofsd.org
"Home of the Sea Parrots"

On January 6, 2022 at 9:09:04 AM, Phillip A. Zavadil (pazavadil@stpaulak.com) wrote:

This plan has been a community wide plan not focusing specifically on the school. That said, the school gym is identified as one of the potential shelters in the community.

From: John Bruce < brucej@pribilofsd.org > Date: Thursday, January 6, 2022 at 9:04 AM

To: Angela Bourdukofsky <abourdukofsky@aleutcorp.com>, Chris Woodruff <cwoodruff@tdxservices.com>, "Bell, Steve J (DOT)" <steve.bell@alaska.gov>, Elliot Strong <elliot@coastaltransportation.com>, "Lestenkof, Vivian - Saint Paul Island, AK" <vivian.lestenkof@usps.gov>, Dial Hoang - NOAA Federal <dial.hoang@noaa.gov>, Dean Fasnacht <dfasnacht@tridentseafoods.com>, Phillip Lestenkof <ple>plestenkof@cbsfa.com>, Viola Yatchmeneff <viola.yatchmeneff@ahaak.org>, Jason Bourdukofsky <jason@tdxnet.com>, Michael Williams <michael.williams@noaa.gov>, Don Reid <dreid@lynden.com>, Charlene Naulty <cjnaulty@aleut.com>, Steve Delehanty <steve_delehanty@fws.gov>, Chris Mandregan <chrism@tdxcorp.com>, Ray Melovidov <raymelovidov@cbsfa.com>, Phillip Zavadil <pazavadil@stpaulak.com>, "erin.leaders@alaska.gov" <erin.leaders@alaska.gov>, "Sarah.Walker@bia.gov" <sarah.walker@bia.gov>, "Kessler, Lyle E CDR" <lylee.kessler@uscg.mil>, Mark Hughes <mhughes@petrostar.com>, jacob <jacob@stpaulak.com>, Amos Philemonoff president@aleut.com>

Cc: "Roeland, Kim" < kim.roeland@aecom.com>

Subject: Re: Saint Paul Island Local Mitigation Plan Update

Phil,

In the past, has this included any school-based plans as part of what you turn in?

Thanks,

John Bruce Superintendent/K-12 Principal Pribilof School District CP: (907) 371-5052 EM: brucej@pribilofsd.org "Home of the Sea Parrots"

On January 6, 2022 at 8:52:33 AM, Phillip A. Zavadil (pazavadil@stpaulak.com) wrote:

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Phil

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Phillip A. Zavadil, City Manager City of Saint Paul PO Box 901 950 Gorbatch Street Saint Paul Island, Alaska 99660 907-546-3113 (Office) 907-546-3188 (Fax) 907-546-4179 (Cell) pazavadil@stpaulak.com www.stpaulak.com







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From: Dean Fasnacht <dfasnacht@TridentSeafoods.com>

Sent: Thursday, January 6, 2022 10:48 AM

To: John Bruce; Angela Bourdukofsky; Jacob Merculief; Bell, Steve J (DOT); Elliot Strong; Lestenkof,

Vivian - Saint Paul Island, AK; Dial Hoang - NOAA Federal; Phillip Lestenkof; Viola Yatchmeneff; Jason Bourdukofsky; Michael Williams; Don Reid; cjnaulty@aleut.com; Steve Delehanty; Chris Mandregan; Ray Melovidov; Phillip A. Zavadil; erin.leaders@alaska.gov; Chris Woodruff; Kessler,

Lyle E CDR; President; Sarah.Walker@bia.gov; Mark Hughes

Cc: Roeland, Kim

Subject: [EXTERNAL] RE: Saint Paul Island Local Mitigation Plan Update

One thing we should consider adding to this plan if not already added. Is a mobile container that is preloaded full of Water, blankets, food so it can be moved in a matter of minutes in case of emergency. If needed move to the top of the hill.

From: John Bruce < brucej@pribilofsd.org>

Sent: Thursday, January 6, 2022 9:19 AM

To: Angela Bourdukofsky abourdukofsky@aleutcorp.com; Jacob Merculief jacob@stpaulak.com; Bell, Steve J (DOT)

 $<\!\!\underline{steve.bell@alaska.gov}\!\!>; Elliot Strong <\!\!\underline{elliot@coastaltransportation.com}\!\!>; Lestenkof, Vivian - Saint Paul Island, AK$

<<u>vivian.lestenkof@usps.gov</u>>; Dial Hoang - NOAA Federal <<u>dial.hoang@noaa.gov</u>>; Dean Fasnacht

<<u>dfasnacht@TridentSeafoods.com</u>>; Phillip Lestenkof <<u>plestenkof@cbsfa.com</u>>; Viola Yatchmeneff <<u>viola.yatchmeneff@ahaak.org</u>>;

Jason Bourdukofsky <<u>jason@tdxnet.com</u>>; Michael Williams <<u>michael.williams@noaa.gov</u>>; Don Reid <<u>dreid@lynden.com</u>>; cjnaulty@aleut.com; Steve_Delehanty <<u>steve_delehanty@fws.gov</u>>; Chris Mandregan <<u>chrism@tdxcorp.com</u>>; Ray Melovidov

<a href="mailto-state-belleriality<a href="mailto-state-belleria

<cwoodruff@tdxservices.com>; Kessler, Lyle E CDR <lyle.e.kessler@uscg.mil>; President president@aleut.com>;

Sarah.Walker@bia.gov; Mark Hughes <mhughes@petrostar.com>

Cc: Roeland, Kim < kim.roeland@aecom.com >

Subject: Re: Saint Paul Island Local Mitigation Plan Update

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John Bruce Superintendent/K-12 Principal Pribilof School District CP: (907) 371-5052

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Depends on the hazard, need, if school is in session, and many other factors.

From: John Bruce < brucej@pribilofsd.org >

Date: Thursday, January 6, 2022 at 9:11 AM

"Bell, Steve J (DOT)" <steve.bell@alaska.gov>, Elliot Strong <elliot@coastaltransportation.com>,

"Lestenkof, Vivian - Saint Paul Island, AK" <vivian.lestenkof@usps.gov>, Dial Hoang - NOAA Federal

<dial.hoang@noaa.gov>, Dean Fasnacht <dfasnacht@tridentseafoods.com>, Phillip Lestenkof

<plestenkof@cbsfa.com>, Viola Yatchmeneff <viola.yatchmeneff@ahaak.org>, Jason Bourdukofsky

<jason@tdxnet.com>, Michael Williams <michael.williams@noaa.gov>, Don Reid <dreid@lynden.com>,

Charlene Naulty <cinaulty@aleut.com>, Steve Delehanty <steve_delehanty@fws.gov>, Chris Mandregan

<<u>chrism@tdxcorp.com</u>>, Ray Melovidov <<u>raymelovidov@cbsfa.com</u>>, Phillip Zavadil

<pazavadil@stpaulak.com>, "erin.leaders@alaska.gov" <erin.leaders@alaska.gov>, Chris Woodruff

<cwoodruff@tdxservices.com>, "Kessler, Lyle E CDR" <lyle.e.kessler@uscq.mil>,

"<u>Sarah.Walker@bia.gov</u>" <<u>sarah.walker@bia.gov</u>>, Mark Hughes <<u>mhughes@petrostar.com</u>>, jacob <<u>jacob@stpaulak.com</u>>

Cc: "Roeland, Kim" < kim.roeland@aecom.com>

Subject: Re: Saint Paul Island Local Mitigation Plan Update

Phil,

In regards to the gym - for which emergency situations specifically? I was left nothing down here by Brett on any of this stuff.

Thanks.

John Bruce Superintendent/K-12 Principal Pribilof School District CP: (907) 371-5052 EM: brucej@pribilofsd.org "Home of the Sea Parrots"

On January 6, 2022 at 9:09:04 AM, Phillip A. Zavadil (pazavadil@stpaulak.com) wrote:

This plan has been a community wide plan not focusing specifically on the school. That said, the school gym is identified as one of the potential shelters in the community.

From: John Bruce < brucej@pribilofsd.org > Date: Thursday, January 6, 2022 at 9:04 AM

To: Angela Bourdukofsky <about state of the control of the control

<jacob@stpaulak.com>, Amos Philemonoff president@aleut.com>

Cc: "Roeland, Kim" < kim.roeland@aecom.com >

Subject: Re: Saint Paul Island Local Mitigation Plan Update

Phil,

In the past, has this included any school-based plans as part of what you turn in?

Thanks,

John Bruce Superintendent/K-12 Principal Pribilof School District CP: (907) 371-5052 EM: brucej@pribilofsd.org "Home of the Sea Parrots"

On January 6, 2022 at 8:52:33 AM, Phillip A. Zavadil (pazavadil@stpaulak.com) wrote:

The City of Saint. Paul is kicking off the 2022 St. Paul Local Hazard Mitigation Plan (LHMP) Update process. LHMPs are pre-disaster plans that are focused on reducing the impacts of disasters before they occur. In addition, governments that prepare LHMPs are eligible for certain types of FEMA funding.

The 2022 LHMP update process will take place over the next several months. This is an update to the City of St. Paul's 2016 Local Hazard Mitigation Plan Update. Examples of hazards addressed in the plan include: fire, severe weather, erosion, ground failure, earthquake, tsunami, and climate change.

To learn more about hazard mitigation planning, please visit: https://www.fema.gov/hazard-mitigation-planning.

If you would like to participate in our plan update process, please contact me.

We will send out a follow-up email when our Public Draft is available for review and comment.

Phil

Txin qaĝaasakuqing ~ Thank you



Phillip A. Zavadil, City Manager
City of Saint Paul
PO Box 901 950 Gorbatch Street
Saint Paul Island, Alaska 99660
907-546-3113 (Office) 907-546-3188 (Fax) 907-546-4179 (Cell)
pazavadil@stpaulak.com www.stpaulak.com







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From: Phillip A. Zavadil <pazavadil@stpaulak.com>

Sent: Friday, June 24, 2022 12:14 PM

To: Michael Baldwin; Phillip Lestenkof; Ray Melovidov; Chris Mandregan; Jason

Bourdukofsky; Dennis Bourdukofsky; President; Charlene Naulty; pnbaker@aleut.com; Viola Yatchmeneff; Angela Bourdukofsky; Jacob Merculief; Bell, Steve J (DOT); Elliot Strong; Lestenkof, Vivian - Saint Paul Island, AK; Dean Fasnacht; Michael Williams; Steve Delehanty;

erin.leaders@alaska.gov; Don Reid; Ellis, Lucas B (DEC); Ken Spedden

Lynn Sterbenz; Monique Baker; Michael Castro; Evans, Jessica; Roeland, Kim

[EXTERNAL] City of Saint Paul Local Mitigation Plan Update

Draft_SaintPaul_LHMP[1].pdf

The City of Saint Paul has completed a public draft of the 2022 City of Saint Paul Local Hazard Mitigation Plan Update. Over past few months, we have worked with a consultant to assess risks posed by natural disasters and develop strategies to protect life and property in the City of Saint Paul from future hazard events.

This is an update to the City of Saint Paul's 2016 Local Hazard Mitigation Plan Update. Hazards addressed in our plan include the following: climate change, earthquake, erosion, hazardous material event (ammonia spill), infectious disease, severe weather, tsunami, volcano, and wildfire.

To learn more about hazard mitigation planning, please visit: https://www.fema.gov/hazard-mitigation-planning.

A the attached plan is available to review until July 8, 2022.

Phil

Cc:

Subject: Attachments:

Txin qaĝaasakuqing ~ Thank you



Phillip A. Zavadil, City Manager City of Saint Paul PO Box 901 950 Gorbatch Street Saint Paul Island, Alaska 99660 907-341-3994 (Office) 1-866-570-9745 (Fax) 907-546-4179 (Cell) pazavadil@stpaulak.com www.stpaulak.com







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From: Lynn Sterbenz <sterbenz@stpaulak.com>

Sent: Sunday, July 24, 2022 2:52 PM

To: Roeland, Kim

Cc: Phillip A. Zavadil; Michael Castro

Subject: [EXTERNAL] Comments/Feedback received on City of Saint Paul draft LHMP

Kim,

Late in the evening on Friday July 22, we received the following emailed comments from the Aleut Community of Saint Paul Island.

I thanked them for their comments. I told them that the first two comments were fairly easy to make in our draft plan, but that the third and fourth comments I would leave to you and Phillip to craft responses to. I have asked them to provide me with the date(s) that their Tribal HMP was approved by the State of Alaska and FEMA. You may be able to look that up on your end.

From my experience in emergency management in WA state, it is my understanding that --while the name is misleading --Local Emergency Planning Committees (LEPCs) are intended to serve as a resource and develop emergency response plans specifically for hazardous materials only. And while it is important that the City and Tribe integrate hazardous materials planning and response into our own emergency management operations plans and hazard mitigation plans, the LEPC would not be held responsible for updating the LHMP.

Sincerely,

Lynn Sterbenz, Projects/Grants Specialist

City of Saint Paul PO Box 901 / 950 Gorbatch Street Saint Paul Island, Alaska 99660 (360) 929-6132 (Cell) www.stpaulak.com

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From: Charlene Naulty <cinaulty@aleut.com>

Sent: Friday, July 22, 2022 9:04 PM

To: Lynn Sterbenz < lsterbenz@stpaulak.com>

Cc: pnbaker@aleut.com <pnbaker@aleut.com>; Phillip A. Zavadil <pazavadil@stpaulak.com>

Subject: [EXTERNAL] Re: City of Saint Paul LHMP - time extension

We only have a few comments

- 1. Our plan isn't draft it is an approved plan
- 2. We are not a tribal group, we are the federally recognized tribe of Saint Paul Island, Alaska.
- 3. What happened to the LEPC as a planning committee? Would they not be helping keep the plan up to date? There is a very big portion about collaboration in these plans
- 4. Only City employees are listed as the planners and some of the mitigation efforts belong with the tribe but we aren't listed as being on the team. In our plan we added the City of St. Paul and all of the appropriate entities based on work they do within the community. As it is the plan looks like only the City is doing all of the work.

Let me know if you want to meet to talk about our comments.

Charlene Naulty, Director Aleut Community of St. Paul Island

On Jul 22, 2022, at 1:54 PM, Lynn Sterbenz sterbenz@stpaulak.com> wrote:

Patrick and Charlene,

Do you anticipate providing your comments/feedback to the City's draft LHMP by the close of business today? Just a friendly reminder that today is the last day of the extension that was granted to ACSPI.

Sincerely, Lynn Sterbenz, Projects/Grants Specialist

City of Saint Paul PO Box 901 / 950 Gorbatch Street Saint Paul Island, Alaska 99660 (360) 929-6132 (Cell) www.stpaulak.com

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From: Lynn Sterbenz sterbenz@stpaulak.com>

Sent: Wednesday, July 13, 2022 5:01 PM

To: pnbaker@aleut.com; Charlene Naulty <cinaulty@aleut.com

Cc: Phillip A. Zavadil < <u>pazavadil@stpaulak.com</u>> Subject: City of Saint Paul LHMP - time extension

Patrick and Charlene,

Per our conversation today, I requested a time extension for the ACSPI Tribal Government to submit feedback on the City's draft Local Hazard Mitigation Plan. The State contractor we are working with agreed to give you to Friday, July 22.

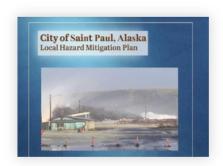
Looking forward to receiving your comments.

Sincerely, Lynn Sterbenz, Projects/Grants Specialist

City of Saint Paul PO Box 901 / 950 Gorbatch Street Saint Paul Island, Alaska 99660 (360) 929-6132 (Cell) www.stpaulak.com

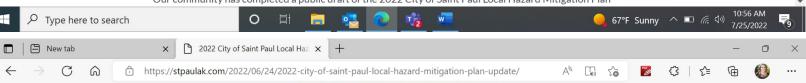
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Download & Review the Draft 2022 Saint Paul Local Hazard Mitigation Plan

Our community has completed a public draft of the 2022 City of Saint Paul Local Hazard Mitigation Plan



Our community has completed a public draft of the 2022 City of Saint Paul Local Hazard Mitigation Plan Update. Over past few months, we have worked with a consultant to assess risks posed by natural disasters and develop strategies to protect life and property in the City of Saint Paul from future hazard events.

Hazards addressed in our plan include the following: climate change, earthquake, erosion, hazardous material event (ammonia spill), infectious disease, severe weather, tsunami, volcano, and wildfire.

Once our plan is finalized and approved by FEMA, our community will be eligible to apply for and receive certain types of nonemergency disaster assistance, including funding for mitigation projects identified in our

To learn more about hazard mitigation planning, please visit: https://www.fema.gov/emergencymanagers/risk-management/hazard-mitigation-planning

A copy of our plan is available to review until July 8. Community members are invited to comment on this draft until that time. To obtain a copy of the plan as well as provide comments, contact Phillip Zavadil: pazavadil@stpaulak.com.

