

**TRANSPORTATION AND GROWTH MANAGEMENT PROGRAM
2016 GRANT APPLICATION COVER SHEET**

APPLICATIONS DUE 4:00 PM, June 10, 2016

Type of Grant:	Category 2	ODOT Region (1-5):	Region 2
Primary Applicant Jurisdiction:	Clatsop County		
Project Title:	Tsunami Evacuation Facility Improvement Plan		
Mailing Address:	800 Exchange Street, Suite 100		
City/Zip:	Astoria	97103	
Contact Person:	Heather Hansen		
Telephone/Email:	(503) 325-8611	hhansen@co.clatsop.or.us	

	MATCH	
	YES	NO
Other Local Jurisdictions involved in the project:	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>

Summary Description of Project: This section must be completed. Do not refer to text within the application form. In no more than 1000 characters, describe the purpose of your project and the expected outcomes.

Tsunami evacuation facility planning and development greatly enhances a community's resilience efforts by concentrating on life safety. An evacuation facility improvement plan not only establishes evacuation routes but also provides for development of infrastructure needed to facilitate and improve effective evacuation. Clatsop County proposes to develop and adopt a Tsunami Evacuation Facilities Improvement Plan using DLCD's "Preparing for a Cascadia Subduction Zone Tsunami: A Land Use Guide for Oregon Coastal Communities" as the framework. The plan will address these of considerations related to evacuation needs and infrastructure. It will: (1) Assess the risk and vulnerability; (2) Analyze existing evacuation facilities and improvement needs; (3) Identify, evaluate, and prioritize needed evacuation facility improvements; (4) Develop financing options for an evacuation facility plan.

2016 TGM Grant Application Cover Sheet

Jurisdiction: Clatsop County

Project Title: Tsunami Evacuation Facility Improvement Plan

Budget Breakdown (Based on your response to Award Criterion 3)

TASK	TGM FUNDS REQUESTED	
	GRANTEE	CONSULTANT
1. Public Involvement/Community Engagement	\$5,000.00	\$10,000.00
2. Assess Tsunami Risk & Vulnerability	\$1,000.00	\$1,000.00
3. Analyze Existing Evacuation Facilities	\$5,000.00	\$25,000.00
4. Identify, Evaluate and Prioritize Needed Evacuation Facility Improvements	\$5,000.00	\$25,000.00
5. Develop Options for an Evacuation Facility Financing and Regulatory Strategy	\$1,000.00	\$5,000.00
6. Develop an Adoption-Ready Tsunami Evacuation Facility Plan	\$5,000.00	\$10,000.00
Total TGM Funds Requested:	\$22,000.00	\$76,000.00
		\$98,000.00

Minimum Match Requirement - 12% of the Total Project Budget:	\$13,363.64
Match to be Provided:	\$14,000.00

Type of Match to be Provided:

2016 TGM Grant Application Cover Sheet

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Eligibility Requirements

The following three eligibility requirements are reviewed on a pass/fail basis. Applications found to not meet each of these requirements will not be scored against the award criteria and will not be awarded a grant.

1. Clear Transportation Relationship

A proposed project must have a clear transportation relationship and produce transportation benefits. A project must entail analysis, evaluation of alternative scenarios, development of implementation measures, and public involvement that results in a transportation plan, land use plan, or other product that addresses a transportation problem, need, opportunity, or issue of local or regional importance. 1000 character limit.

Well-planned evacuation facilities for a local tsunami provide a safe route out of tsunami hazard areas, as well as locations for assembly and shelter. Prior to the local tsunami event, those same facilities can be used by the community for bicycle and pedestrian routes, parks, and other community amenities. The key steps in the process include: (1) Public Involvement/Community Engagement; (2) Assess Tsunami Risk and Vulnerability; (3) Analyze of Existing Evacuation Facilities; (4) Identify, Evaluate, and Prioritize Evacuation Facility Improvements; (5) Develop Options for Evacuation Facility Financing and Regulatory Strategy; and (6) Develop an Adoption-Ready Tsunami Evacuation Facilities Improvement Plan.

2. Adoption of Products to meet Project Objectives

A proposed project must include preparation of an adoption-ready product or products that directly address the project objectives, such as a transportation system plan, comprehensive plan amendment, land use plan, code amendment, implementation program, or intergovernmental agreement. Projects that will primarily do outreach, research, study an issue, compile data, or prepare maps are not eligible. Projects are expected to include adoption hearings or will be part of a larger project to be adopted. 800 character limit.

The plan will be adopted as a refinement to the Transportation System Plan (TSP). The plan is already identified in the county's recently adopted TSP as a high priority project. The TSP citizen advisory committee recognized the need for the plan in order to prioritize funding for evacuation facilities.

3. Support of Local Officials

A proposed project must clearly demonstrate that local officials understand the purpose of the grant application and support the project objectives. A letter or resolution of support from the governing body of the applying jurisdiction (e.g. City Council, Board of Commissioners) must be submitted with the application to meet this requirement. 500 character limit.

Attached is a Resolution and Order from the Clatsop County Board of Commissioners indicating support and authorization for the grant application to develop the plan.

2016 TGM Grant Application Cover Sheet

Jurisdiction: Clatsop County

Project Title: Tsunami Evacuation Facility Improvement Plan

Certifications

This application was prepared by staff of the primary applicant or staff of one of the involved jurisdictions.

This application was prepared by the following compensated consultant:

Consultant Name:

Consultants may prepare the jurisdiction's application. However, uncompensated consultants are not eligible to participate in the project itself. Consultants who are paid to prepare the application may be eligible to participate in the project. Contact [Cindy Lesmeister](#) at 503-986-4349 if you have questions.

I understand that, if used, consultant selection will follow the policies and requirements of the ODOT Procurement Office: <http://www.oregon.gov/ODOT/CS/OPO>

Applicant Title:

Printed Name:

Authorized Signature*:

*Please only include the authorized signature on the mailed hard copy. **DO NOT submit a printed, signed, and scanned version electronically.**

I have mailed in a hard copy of my application with authorized signature.



TRANSPORTATION AND GROWTH MANAGEMENT (TGM) 2016 GRANT APPLICATION FORM

Instructions: See the [Grant Application Packet](#) for how to respond to each of the Award Criteria

Completed Grant Application Form must not exceed 8 pages, less attachments. Excess pages will be discarded.

Examples of successful applications and help to develop a project approach and budget estimate are available on the TGM Grants page: <http://www.oregon.gov/LCD/TGM/Pages/grants.aspx>.

The answer fields below will expand as you type.

ORGANIZATION NAME Clatsop County	PHONE (503) 325-8611
CONTACT PERSON NAME AND TITLE Heather Hansen, Community Development Director	CONTACT PERSON E-MAIL hhansen@co.clatsop.or.us
PROJECT TITLE Tsunami Evacuation Facility Improvement Plan	

Award Criteria

Applications may receive a total of 110 points.

- Up to 100 points are based on an applicant’s written responses to five award criteria.
- Up to 10 bonus points may be awarded for **Project Innovation**: *the application must demonstrate that the project will be innovative in subject matter, approach, or expected outcomes.* Do not write a separate response about how your project meets this criterion; scorers will award points based on the entirety of the application. By the nature of the criterion, most projects will not receive any points.

Projects are selected primarily based on scores for the TGM award criteria; also considered are the grant amounts requested, the estimated amounts TGM believes may be required for a project, the amount of grant dollars available for award within an ODOT region, and the balance of grant dollars between Category 1 and Category 2 projects. A scoring consideration is ensuring a fair distribution of grant funds to smaller or economically distressed communities.

1. Proposed Project Addresses a Need and Supports TGM Objectives Up to 40 points

The project clearly and effectively addresses a local or regional transportation or transportation-related land use issue, problem, need, or opportunity and will achieve one or more of the TGM objectives (as listed on pages 3-4 of the Application Packet).

A. *Provide transportation choices: The main purpose of the tsunami evacuation facility improvement plan is to identify and prioritize needed facilities so the system is safe and integrated for the evacuation of residents and visitors from tsunami hazard areas during the time of Cascadia Subduction Zone earthquake event. Lifeline routes and alternative routes will also be identified,*

which will provide access to and from the area for the transport of goods and services post-event. Prior to the event the community can use the evacuation facilities as bike and pedestrian routes, parks, and other community amenities.

- B. Create communities: This project literally creates more livable communities by planning for and prioritizing an evacuation facility system that will enable earthquake survivors to escape the tsunami hazard zone in a timely manner. The evacuation routes will be well located to connect the tsunami hazard areas to assembly areas, which are currently be assessed by the County's Emergency Manager with the support of a NOAA grant. As noted above many of the evacuation routes will be multi-purpose by providing bike and pedestrian routes pre-event.*
- C. Support economic vitality: A well-planned evacuation system will include Lifeline Routes that are intended to be functional after a local earthquake and tsunami thereby enabling the transport of goods and services both before and after the event.*
- D. Save public and private costs: Development can continue to occur consistent with the current zoning as long as safe evacuation routes - both vertical and horizontal - are planned and developed. The need for an integrated tsunami evacuation facility system is immediate since we do not know when the event will occur, but the odds increase each year. The facilities planned for tsunami evacuation will fulfill multiple objectives and serve multiple transportation modes.*
- E. Promote Environmental Stewardship: Given that the majority of the facilities will be used a bike and pedestrian routes, the plan will promote energy efficiency and reduce air pollution and greenhouse gases.*

2. Proposed Project is Timely and Urgent

Up to 25 points

The application demonstrates timeliness and urgency. The project is needed now to:

- address pressing local transportation and land use issues;
- make amendments to local plans or regulations necessitated by changes in federal regulations, state requirements, or regional plans;
- make amendments to local plans or regulations necessitated by changes that were not anticipated in previous plans including growth or lack of growth, changes in land use patterns, or changes in available funding;
- build on, complement, or take a necessary step toward completing or implementing other high priority community initiatives, including supporting a Governor's Regional Solutions Team priority; or
- resolve transportation- or land use-related issues affecting the project readiness of local, regional, or state transportation projects for which funding is expected to be obligated within the near future.

According to the results of a comprehensive 13-year analysis of the Cascadia Subduction Zone by geologists at Oregon State University, there is a 40 percent chance of a major earthquake on the Oregon Coast in the next 50 years (Goldfinger, C., Nelson, C.H., Morey, A.E., Johnson, J.E., Patton, J.R., Karabanov, E., Gutiérrez-Pastor, J., Eriksson, A.T., Gràcia, E., Dunhill, G., Enkin, R.J., Dallimore, A., and Vallier, T., 2012, Turbidite event history—Methods and implications for Holocene paleoseismicity of the Cascadia subduction zone: U.S. Geological Survey Professional Paper 1661–F, 170 p.). While these odds are based on the known frequency

of historical event, they are very sobering in any case. The message being TIME IS OF THE ESSENCE!

This project will build upon and help implement recent county efforts such as:

- *County Transportation System Plan (TSP): This project was identified as a high priority in the recently adopted (Nov, 2015) Clatsop County TSP because the Project Advisory Committee recognized that the plan is needed in order to prioritize funding for the needed evacuation facility improvements.*
- *Emergency Management Grants: The County Emergency Management Division has been successful in obtaining grant for “You Are Here” Signs at pedestrian beach access points, heavy pedestrian routes and walkways. Also, the Emergency Management Division has obtained a grant to assess the Tsunami Assembly Areas throughout the County.*
- *Natural Hazards Mitigation Plan, which includes a lot of stakeholder involvement route planning, hazard identification, and mitigation alternatives.*
- *Tsunami Hazard Overlay Zone (THO): Clatsop County conducted a planning process to create and implement a hazard overlay across the tsunami inundation zones within the County. Through the vast public outreach of the zoning amendment process, the County learned that evacuation facilities were the highest stated priority by those who provided testimony, as well as additional education to create awareness for the risk. While a decision on the overlay zone was tabled by the Board, but it was clear that an evacuation facilities is highly supported.*

3. Proposed Project Approach is Reasonable

Up to 20 points

The application demonstrates a clear approach to achieving the expected outcome and results in consideration for adoption. Where substantial coordination with other local, regional, and state planning efforts occurs (or will need to occur), the mechanisms and responsibilities for the coordination are clear.

The county proposes to use Chapter 6 of DLCD’S “Preparing for a Cascadia Subduction Zone Tsunami: A Land Use Guide for Oregon Coastal Communities” as the framework for the work plan for implementing this project. The guidebook was developed by DLCD staff with a tremendous amount of input from community stakeholders. Chapter 6- Tsunami Evacuation Facilities Improvement Planning -includes all the tasks, action steps, and outcomes in developing and implementing the plan. Clatsop County is likely to be the first use the guidebook to implement a tsunami facility improvement plan.

In developing the facility plan, the staff project team will include, at a minimum, the Emergency Management Manager, Public Works Director/County Engineer, Community Development Director, ODOT and DLCD Regional Representatives. The committee will coordinate closely with other members of the county’s Natural Hazard Mitigation Plan committee, which is comprised of local City Planners, Fire Chiefs. The project will build on the two most recent public involvement efforts from the TSP and THO projects that garnered a large volume of comments and public input.

4. Proposed Project has Community Support

Up to 5 points

The application demonstrates that there is local support for the project objectives, a commitment to participate, and a desire to implement the expected outcome.

The Clatsop County TSP, which had excellent community stakeholder input through its Project Advisory Committee and multiple open houses, identified this project as a high priority because they recognized that the plan is needed in order to prioritize funding for the evacuation facility improvements. The project is identified in the adopted TSP as "X04-Tsunami Hazard Planning" under the Planning Projects and Other Transportation Modes category.

LIST ATTACHED LETTERS OF SUPPORT
1. Oregon State Department of Parks and Recreation
2. Surf Pines Neighborhood Association
3. Click here to enter text.
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5. Proposed Project Sponsor Readiness and Capacity

10 Points

The application demonstrates that the local government is ready and able to begin the project within the TGM timetable and that there is local commitment and capability to manage the project considering the complexity of the project, the size of the jurisdiction, and performance on previous TGM projects. Where substantial coordination with other local, regional, and state planning efforts will need to occur, all of the partners are ready and able to begin the project within the TGM timetable.

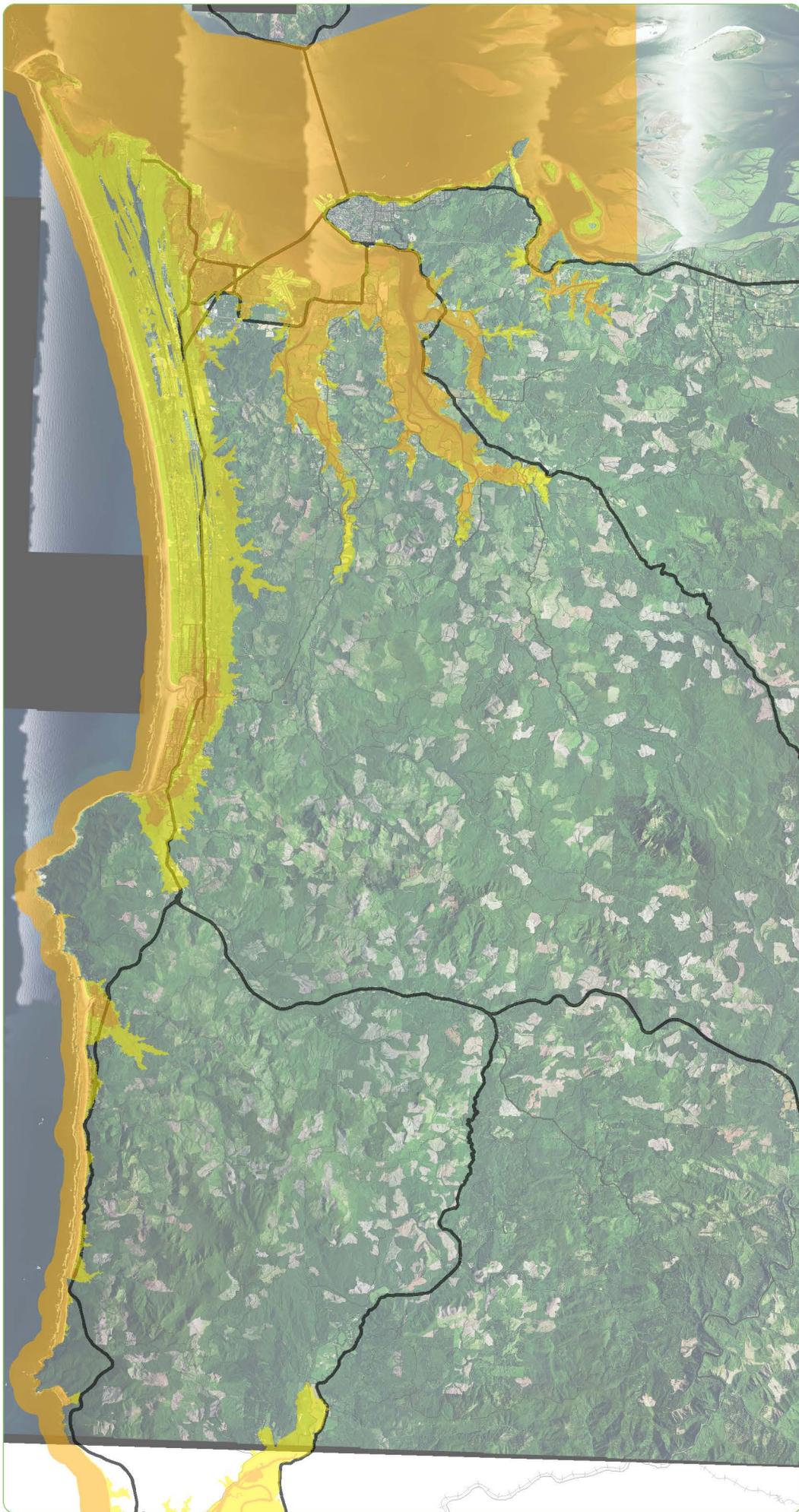
The County will be ready to begin work by October 2016. The Community Development Director, Heather Hansen, will serve as the project manager, and will coordinate closely with the County's Emergency Manager and Public Works Director, as well as other key community stakeholders.

Ms. Hansen managed a recent TGM-funded Category 2 project for the City of Albany- South Albany Area Plan (SAAP). The SAAP represented a culmination of a 1.5 year planning project that represents the community vision for about 2,000 acres in South Albany, the city's largest undeveloped area. The project involved managing a stakeholder committee, project advisory committee, and interdepartmental project management team, as well as coordinating work with a large consultant team. The Albany City Council adopted the SAAP on February 13, 2013, and amended the Albany Comprehensive Plan, Zoning Map and the Albany Development Code.

This project will also coordinate closely with other jurisdictions where evacuation facilities need to be continuous (Gearhart and Fort Stevens), as well as with the Natural Hazard Mitigation Plan process and committee.

- Transportation and Growth Management Program -

Cascadia Subduction Zone Tsunami Evacuation Facilities Improvement Plan



Evacuation Zone

- Distant Tsunami Evacuation Zone
- Local Tsunami Evacuation Zone



Map Author: Alejandro Bancke - GIS/Project Planner
Date Saved: 6/8/2016 @ 1:13:43 PM
Location: J:\BANCKE\TGM\COUNTY_CLATSOP_Map_TGM.mxd



Disclaimer: This data was produced using Clatsop County GIS data. The data is maintained by Clatsop County to support its governmental activities. Clatsop County is not responsible for any map errors, possible misuse, or misinterpretation.

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IN THE BOARD OF COUNTY COMMISSIONERS
FOR CLATSOP COUNTY, OREGON

IN THE MATTER OF APPLYING) RESOLUTION
FOR A TRANSPORTATION AND) AND ORDER
GROWTH MANAGEMENT GRANT)

WHEREAS, Clatsop County Public Works and Community Development
Departments seek to apply for a grant to receive technical assistance to prepare a
Tsunami Evacuation Facility Improvement Plan through the State of Oregon
Transportation and Growth Management (TGM) Program, and

WHEREAS, given the potential risk to life and property in the event of a distant
or local tsunami, receiving funding to assist in preparing for such an event would be of
substantial benefit to the citizens and visitors to Clatsop County.

NOW THEREFORE, IT IS RESOLVED that the Board of Clatsop County
Commissioners authorizes application for the TGM grant by the Clatsop County Public
Works and Community Development Departments, for the purpose of developing a
Tsunami Facility Evacuation Facility Improvement Plan.

DATED this 25th day of May, 2016

BOARD OF COUNTY COMMISSIONERS
FOR CLATSOP COUNTY, OREGON



Scott Lee, Chairperson



Oregon

John A. Kitzhaber, MD, Governor

Parks and Recreation Department

Fort Stevens State Park
100 Peter Iredale Rd
Hammond, OR 97121-9712
(503) 861-3170
Historic Museum
(503) 861-2000
Camping Information
(503) 861-1671
Fax (503) 861-1672



Nature
History
Discovery

Cindy Lesmeister
Transportation and Growth Management Program
ODOT Mill Creek Building
555 13th Street NE
Suite #2
Salem, Oregon 97301

Dear Transportation and Growth Management Program Coordinator,

Oregon's Parks and Recreation Department (OPRD) understands that our coastal areas are subject to catastrophic hazards such as tsunamis, earthquakes. These hazards are generated by being located in close proximity to the Cascadia Subduction Zone. Present geologic records show that the largest Cascadia Subduction Zone earthquakes and associated tsunamis occur on average every 500 – 700 years, with the last such event occurring in 1700. This geologic risk threatens the Oregon coast and it is imperative for coastal communities to immediately make appropriate preparations that will help secure life and property.

Tsunami evacuation route planning and development will likely provide the most initial value in a community's resilience effort as it concentrates on life safety. Clatsop County will be focusing on establishing evacuation routes, but also providing for development of infrastructure that is needed to facilitate and improve effective evacuation. Not only is it the mission of OPRD to "provide and protect outstanding natural, scenic, cultural, historic, and recreational sites for the enjoyment and education of present and future generations", but it is also important to offer a safer experience for visitors, by planning improvements to tsunami evacuation facilities.

It is with great pleasure that the OPRD support Clatsop County in its efforts to be awarded a TGM grant that will help to improve the region's resiliency by developing a Tsunami Evacuation Facilities Improvement Plan and would like to offer this letter of support as Clatsop County proceeds with the application process.

Sincerely,

Teri Wing
North Coast
District Manager
Oregon Parks and Recreation Dept.





Surf Pines Association
33317 Surf Pines Lane
Warrenton, OR 97146



June 6, 2016

Cindy Lesmeister
Transportation and Growth Management Program
ODOT Mill Creek Building
555 13th Street NE
Suite #2
Salem, Oregon 97301

Dear Transportation and Growth Management Program Coordinator,

Surf Pines was unincorporated land with a few developed farms located near /along the Pacific Ocean. During the depression in the 1930s, the Civilian Conservation Corp planted thousands of shore pines (*pinus contortus*) and beach grass to stabilize the dunes. Surf Pines was then developed beginning in the 1950s. There are currently 380 homeowners who comprise the Surf Pines Homeowners Association. Until the Coastal Gale of 2007, rows and rows of shore pines towered in Surf Pines. The Coastal Gale was a chance for residents to see up close some of the damage that Mother Nature can unleash. Residents also understand that living along the 'Ring of Fire' and so close to the ocean can also bring the risk of earthquakes and tsunamis.

The potentiality of an earthquake/tsunami occurring in our region is simply a question of when. To better the area's resiliency in the face of a tsunami, would be to plan and develop evacuation routes. Surf Pines residents are particularly concerned about their ability to evacuate given that we will be isolated on the north by the presumed failure of the Sunset Beach Road bridge and to the south by the road structure's convergence with Neacoxie Creek and the water presumed to increase from Sunset Lake.

Clatsop County will focus on establishing evacuation routes, but also providing for development of infrastructure that is needed to facilitate and improve effective evacuation. Developing this plan will help to create redundancy in the system while also planning for the safety of those who live and recreate along Oregon's northern coast.

Please accept this letter of support as Clatsop County pursues funding from the Transportation and Growth Management Program. The deliverable to be created by the grant funding will help improve the region's resiliency by developing a Tsunami Evacuation Facilities Improvement Plan, creating a safer environment for all of those in this area.

Sincerely,

Susan Holloway
President, Surf Pines Homeowners Association

RACIAL AND ETHNIC IMPACT STATEMENT

This form is used for informational purposes only and must be included with the grant application.

Chapter 600 of the 2013 Oregon Laws require applicants to include with each grant application a racial and ethnic impact statement. The statement provides information as to the disproportionate or unique impact the proposed policies or programs may have on minority persons¹ in the State of Oregon if the grant is awarded to a corporation or other legal entity other than natural persons.

1. The proposed grant project policies or programs could have a disproportionate or unique positive impact on the following minority persons:

Indicate all that apply:

- Women
 Persons with Disabilities
 African-Americans
 Hispanics
 Asians or Pacific Islanders
 American Indians
 Alaskan Natives

2. The proposed grant project policies or programs could have a disproportionate or unique negative impact on the following minority persons:

Indicate all that apply:

- Women
 Persons with Disabilities
 African-Americans
 Hispanics
 Asians or Pacific Islanders
 American Indians
 Alaskan Natives

3. The proposed grant project policies or programs will have no disproportionate or unique impact on minority persons.

If you checked numbers 1 or 2 above, on a separate sheet of paper, provide the rationale for the existence of policies or programs having a disproportionate or unique impact on minority persons in this state. Further provide evidence of consultation with representative(s) of the affected minority persons.

I HEREBY CERTIFY on this 9th day of June, 2016, the information contained on this form and any attachment is complete and accurate to the best of my knowledge.

Michael J Summers

Signature

Printed Name: Michael J Summers

Title: Clatsop County PW Director

¹ "Minority persons" are defined in SB 463 (2013 Regular Session) as women, persons with disabilities (as defined in ORS 174.107), African-Americans, Hispanics, Asians or Pacific Islanders, American Indians and Alaskan Natives.