

The background of the slide is a photograph of a rural landscape that has been significantly flooded. In the foreground, there is a body of water reflecting the sky. In the middle ground, a white water tower stands prominently on a small island of land. Surrounding the water tower and other small structures are trees, some of which are bare, suggesting a late autumn or winter setting. The background is filled with more trees and a hazy sky. The overall tone of the image is somber and highlights the impact of flooding on the community.

Chehalis Basin Strategy Community Flood Assistance & Resilience (CFAR) Program

Chehalis Basin Board Meeting

November 4, 2020

Potential Goals

1. Provide technical and financial assistance to local communities and landowners to protect lives and property from river flooding and channel migration.
2. Reduce direct economic damages to property, including buildings and their contents, and associated indirect adverse impacts on people, businesses and communities in the basin.
3. Encourage compatible human uses, economic activities, and improved habitat conditions in flood-prone and channel migration areas.
4. Develop criteria to prioritize state investments throughout the basin in a way that considers local government readiness and landowner willingness; potential benefits to areas not otherwise protected by large-scale flood damage reduction elements of the strategy; and consistency with ecosystem restoration goals included within the Aquatic Species Restoration Plan.
5. Undertake activities in a coordinated, cost-effective and environmentally-sensitive manner.

Assumptions

- Program is both preventative and corrective
- Projects are voluntary
- Structures that are dilapidated or deemed unfit for human habitation by local codes are not eligible for structure retrofit funding (may be eligible for acquisition funding)
- Accessory structures will not be mitigated, but are eligible for technical assistance
- OCB will monitor and revise the program as needed, with input from property owners, local governments, and the Chehalis Basin Board.
- OCB may establish different criteria for the first year(s) of the program.

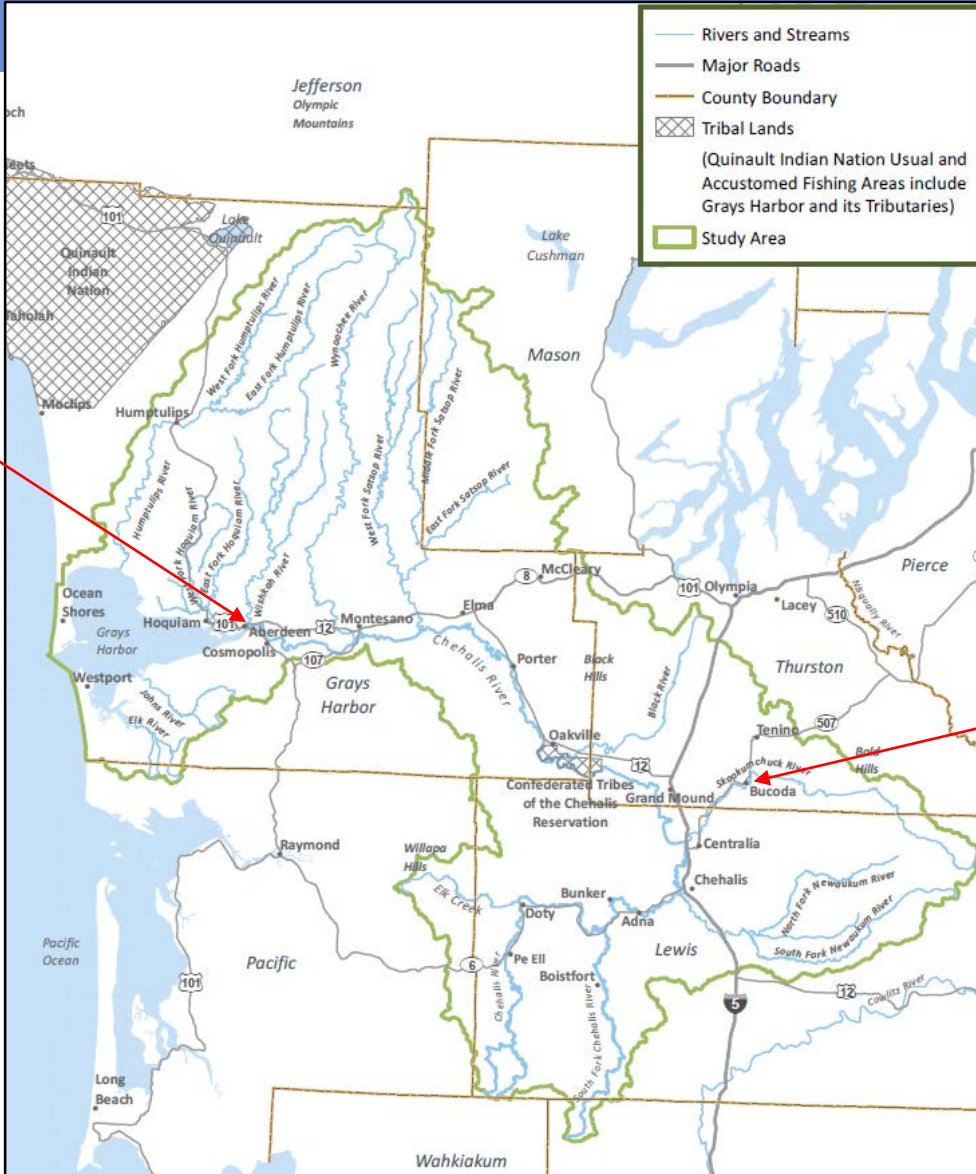
Assumptions

- Properties protected by other actions under consideration as part of the Strategy are not priorities for project funding (eligible for technical assistance)
- Property owners commit to maintain flood insurance if a structure remains in the floodplain
- Property owners contribution: funds or in-kind work
- Protection levels will account for future flood levels resulting from climate change
- Consideration of bank stabilization will be part of the next phase (21-23 biennium)
- CFAR funding will address community assets (churches, municipal buildings, etc.) in addition to homes and businesses

Interim solicitation metrics

- Requests for technical support – 4
- Requests for technical assistance – 12
- Early opportunities
 - Bucoda structure retrofits – 15 potentially interested property owners
 - Aberdeen elevation certificate pilot – 93 structures

Early Opportunity Projects (EOP)



City of Aberdeen

Town of Bucoda

Aberdeen Elevation Certificate EOP

Objective: To help residents and businesses use elevation data to protect buildings from flood damage and lower flood insurance premiums.

Approach: With the City, we have selected two pilot neighborhoods that will not be protected by the proposed North Shore Levee. The project will include explanatory materials and one-on-one discussions with residents.

Phase 1: provide estimated elevation information for buildings in pilot neighborhoods.

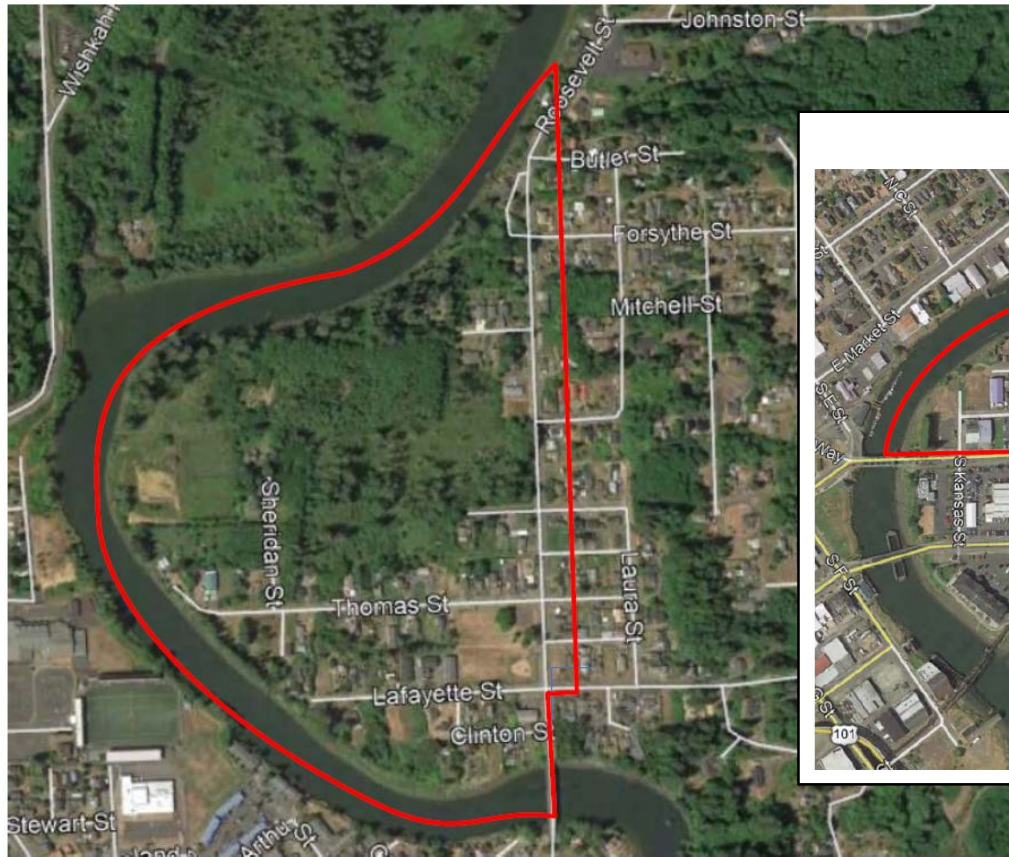
Phase 2: Complete Elevation Certificates, at owner's request.



Elevation project on Young Street in Aberdeen

Aberdeen Elevation Certificate EOP

North Aberdeen



East Aberdeen



Aberdeen Elevation Certificate EOP

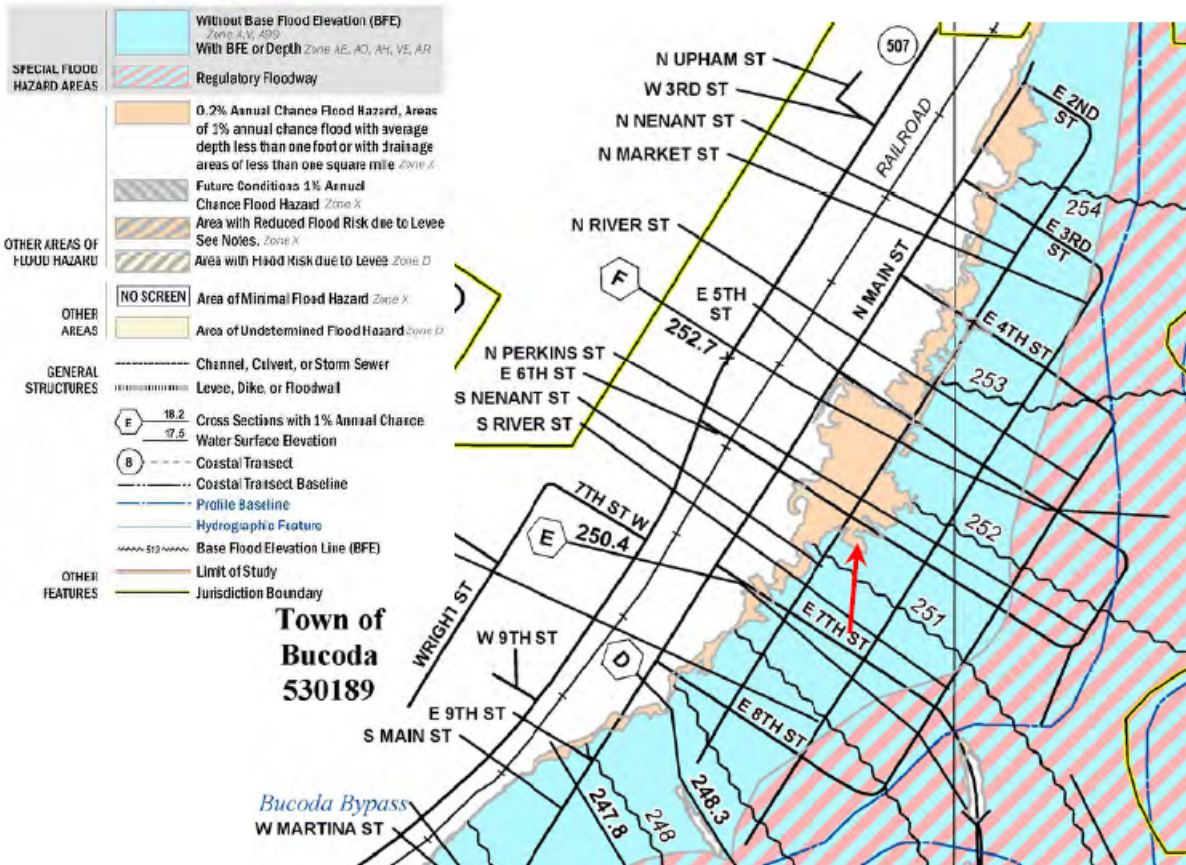
POTENTIAL MEASURABLE OUTCOMES

- Was knowledge helpful/useful to residents and businesses in terms of understanding true flood risk?
- Was there an insurance benefit?
- Do residents and businesses implement the recommended flood damage reduction measures?
- Do residents and businesses feel they are better educated about living in a floodplain?

Bucoda Home Retrofit EOP

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTPS://MSC.FEMA.GOV](https://msc.fema.gov)



Bucoda Home Retrofit EOP

North side



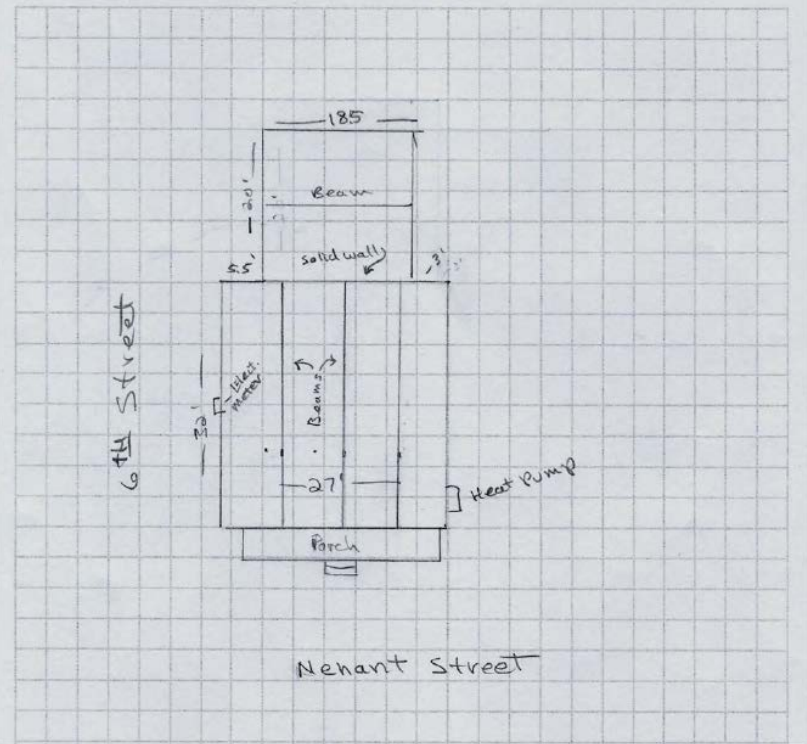
South side



Building Dimensions

Address: 102 S Nenant
1 square = 4 feet

North ↗



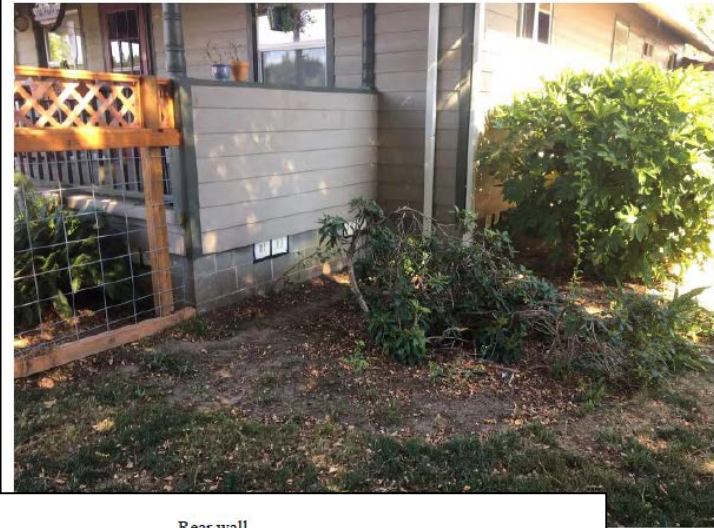
Bucoda Home Retrofit EOP

Front view



1996 high water line is $\frac{3}{4}$ way up the white exhaust vent in photo

South side

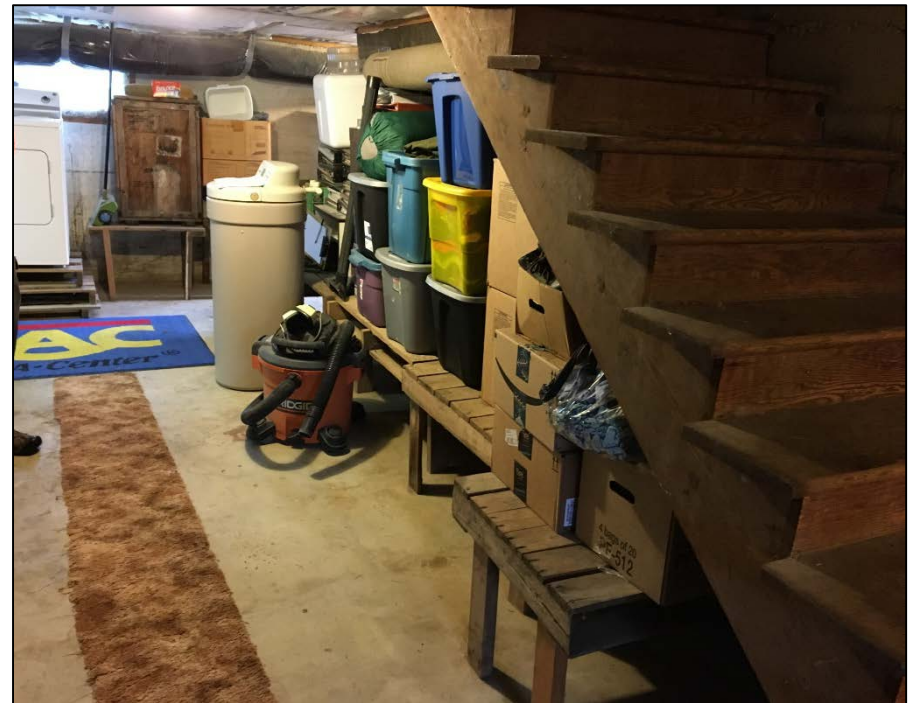


Rear wall



The garage is 2 feet below the floor of the main building. I have drywall and minimal insulation. The outlets are above the counters.

Case Study



*"By, on and in the Newaukum
River"*

Questions?

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