

# Chehalis River Basin Flood Authority

*Reducing Flood Damage and  
Restoring Aquatic Species*

City of Montesano

January 14, 2025

# 2007 Storm

- \$938M Basin-wide damage, \$300M lost economic activity (WA).



**Exit 77 (I-5) in Chehalis**  
STEVE RINGMAN / SEATTLE TIMES



**City of Centralia**  
STEVE RINGMAN / SEATTLE TIMES



↑  
← **Photos Source:** LEWIS COUNTY,  
DIVISION OF EMERGENCY  
MANAGEMENT

2 of 25



**State Route 6,  
West of Adna**  
MIKE  
SALSBURY /  
AP

# Today's Presentation

- “Flood Authority”

- #1 -- Local Projects

- #2 -- Flood Warning System

- “Chehalis River Basin Flood Control Zone District”

- #3 -- Proposed Flow-through Dam for Flood Control



**CHEHALIS  
RIVER BASIN**  
FLOOD CONTROL  
ZONE DISTRICT



Office of  
Chehalis Basin

Chehalis Basin  
Board

<https://chehalisbasinstrategy.com/>

# Chehalis River Basin Flood Authority

- **Formed** in 2008
- **Focused on** flood hazard mitigation
- **Decision-making**
  - ❑ informed by science
  - ❑ protective of Basin residents/communities
  - ❑ environmentally appropriate
- **Jurisdictions** represented (see [inter-local agreement](#))
  - Grays Harbor County (2008)
    - City of Aberdeen (2008)
    - City of Cosmopolis (2011)
    - City of Hoquiam (2017)
    - City of Montesano (2008)
    - City of Oakville (2008)
  - Lewis County (2008)
    - City of Centralia (2008)
    - City of Chehalis (2008)
    - City of Napavine (2011)
    - Town of Pe Ell (2008)



- Thurston County (2008)
  - Town of Bucoda (2008)

***Help local communities identify, develop, implement  
local flood hazard reduction solutions.***

# Local Projects (#1)

1. Reduce flood damage.
2. Protect people, property, infrastructure.
3. Improve readiness, response, resiliency.
  - *Drinking Water* (Boistfort, Bucoda, Montesano).
  - *Wastewater* (Montesano, Pe Ell).
  - *Emergency Response* (Grays Harbor County, Chehalis-Centralia Airport).
  - *Regional Economic Infrastructure* (Montesano, Port of Chehalis, Port of Grays Harbor).
  - *Community Protection* (Aberdeen, Adna, Bucoda, Centralia, Chehalis, Chehalis Tribe, Hoquiam, Oakville).
  - *Flood Warning* (Basin-wide).

## State Capital Budget:

2012-13 -- \$ 5.0M

2013-15 -- \$10.7M

2015-17 -- \$15.7M

2017-19 -- \$ 9.6M

2019-21 -- \$ 6.3M

2021-23 -- \$ 4.1M

2023-25 -- \$ 3.6M

**\$55.0M**

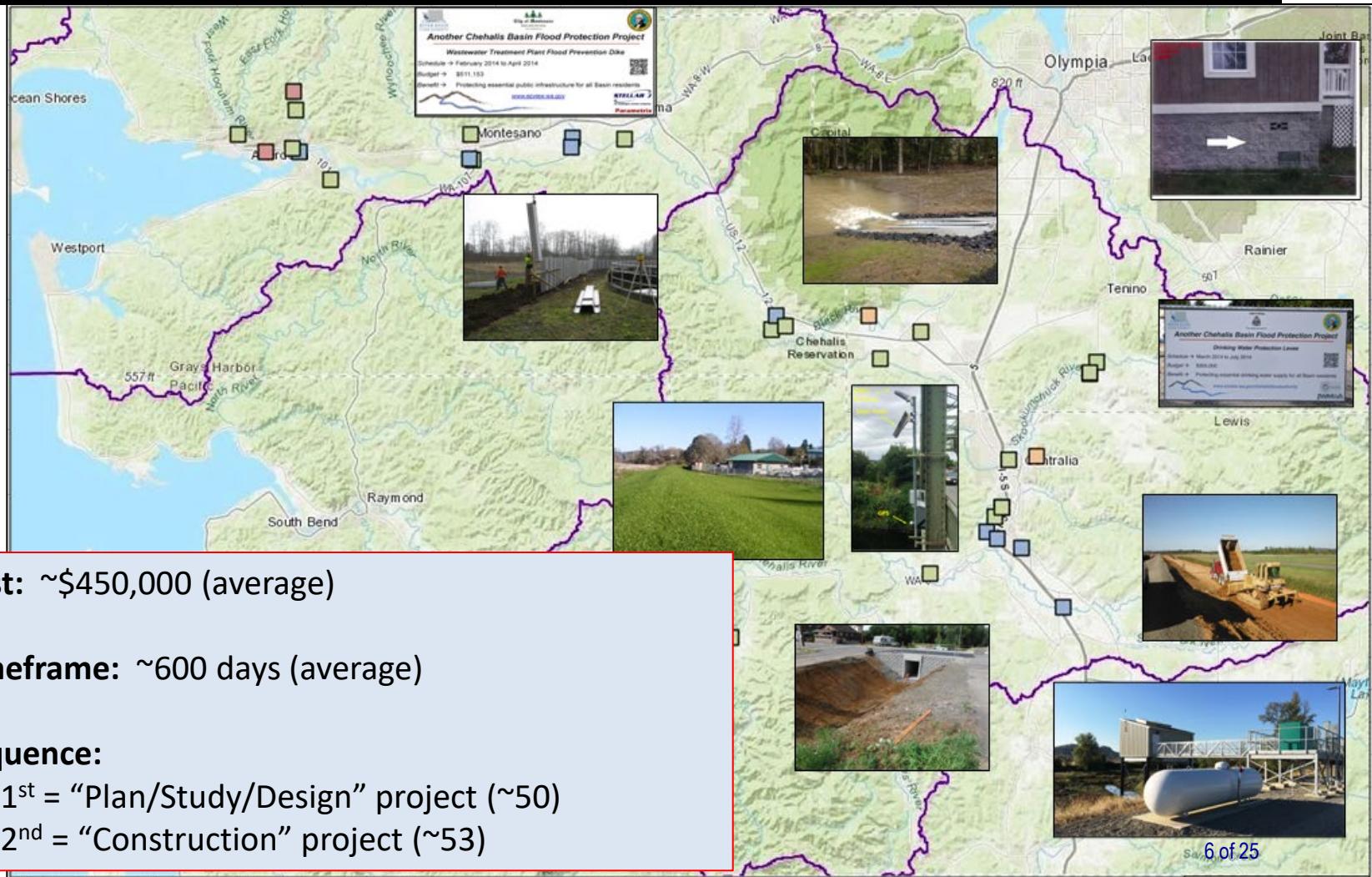
**2025-27 -- \$ 3.0M**

**to**

**\$13.0M**

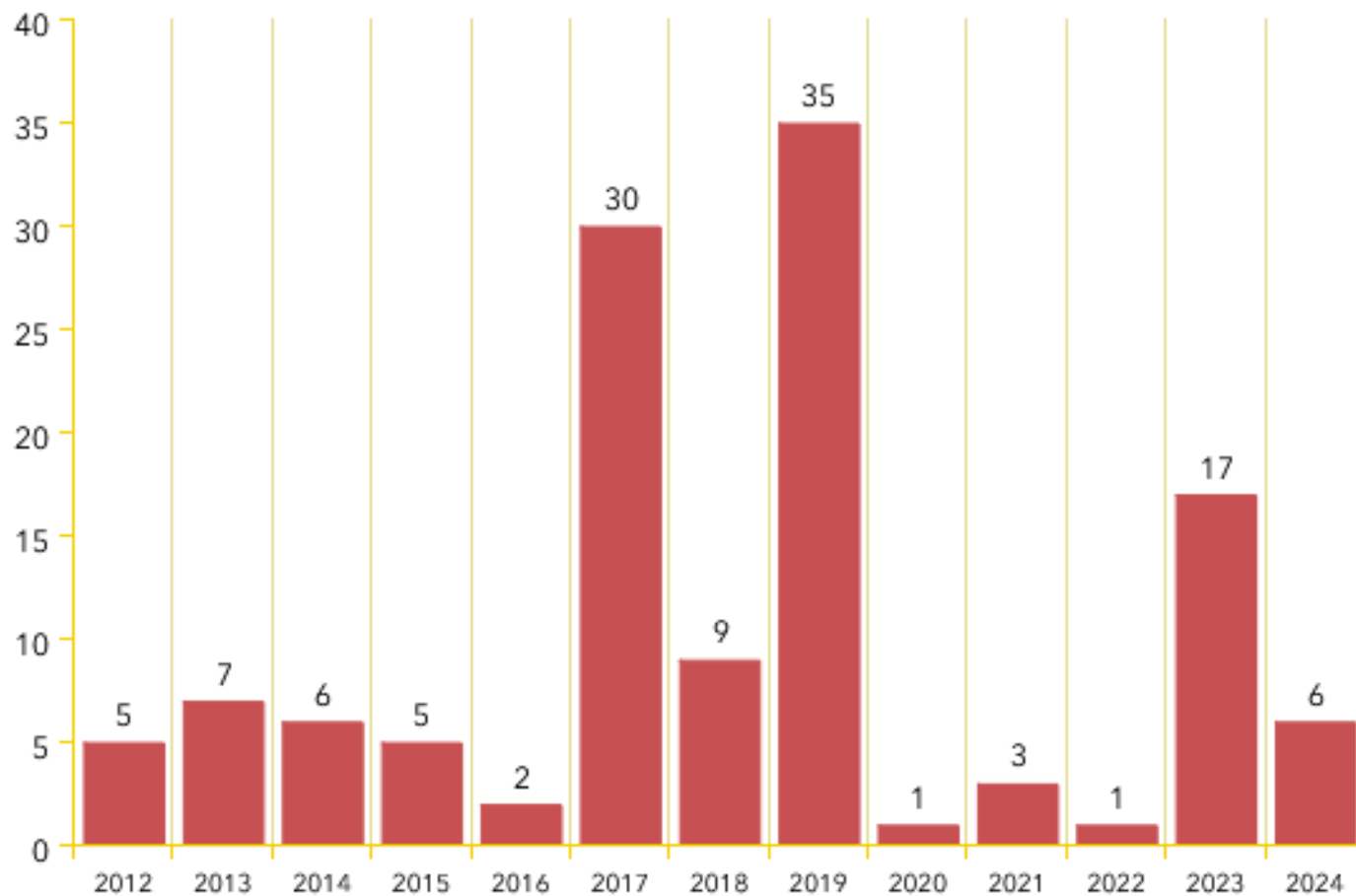


# Local Projects (100+ Projects Completed 2012-23)



# Local Projects (100+ Projects Completed 2012-23)

Projects Completed by Year



# Local Projects (Pe Ell, 2014)



- ✓ Project = Design/construct 900' dike (between Chehalis river and WWTP).
- ✓ Cost = \$521,000.
- ✓ Photos = [Here](#).
- ✓ Website = [Here](#).



## Local Projects (Boistfort Valley)

- ✓ Construct pre-sedimentation pond to settle-out flood-generated sediment before entering water treatment plant.
- ✓ Sediment choked-out treatment plant in 2007 for 6 months and drinking water had to be trucked in.
- ✓ \$332,350
- ✓ More prepared now.



# Local Projects (Chehalis-Centralia Airport, 2017)



- ✓ Completed -- Fall 2017.
- ✓ Cost -- \$1.14M.
- ✓ January 2022 Flood Event – Pumped 518.4M gallons over many days to keep levee dry.
- ✓ ROI (2018) -- Protects \$45M in assets, ensures \$9M in annual tax revenue.

Read More -- [Here](#).



← Previous  
WWII-era  
pump



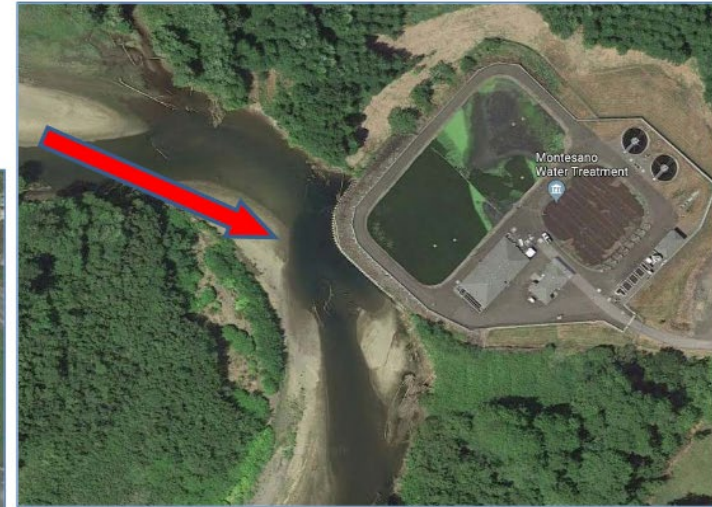
# Local Projects (Montesano, 2017-2020)

- ✓ Protect WWTP from on-coming Wynoochee river using 220+ “log-jacks.”
- ✓ \$2 million (for “log-jacks”).
- ✓ Small cost compared to WWTP relocation and environmental cleanup (in event of WWTP breaching).

**Project End**



<https://www.google.com/maps/@46.9678637,-123.6077821,197m/data=!3m1!1e3>



**Project Start**

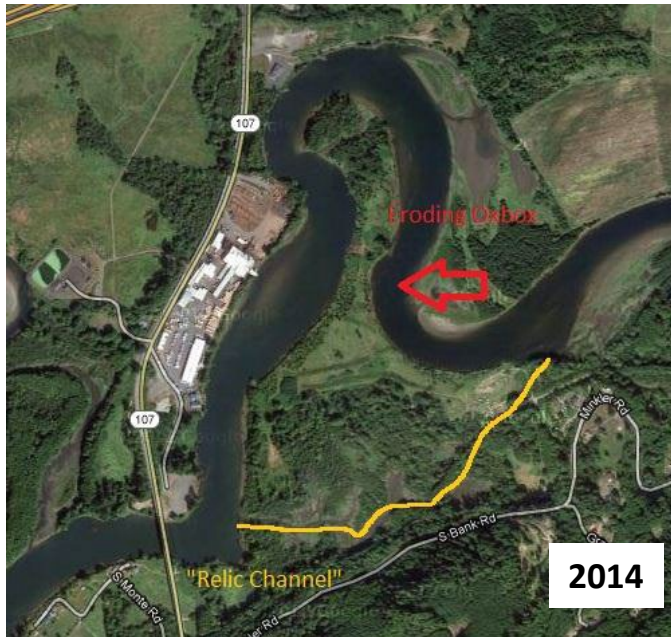


Governor Inslee and Mayor Samuel stand overlooking the Wynoochee River.

July 7, 2022 →



# Local Projects (Montesano, 2012-15)



- ✓ ~\$6M protection against Chehalis River
- ✓ Funding pooled/shared.



# Local Projects (Cosmopolis, 2015-2018)

## Mill Creek Multi-Objective Implementation Plan:

- ✓ Part I = Reconstruct Mill Creek Dam (done).
- ✓ Phase II project = Address 4,500' of Mill Creek flow, culverts, and flood water evacuation (under development).

Read 5-24-2024 news article [here](#)



**Another Chehalis Basin Flood Protection Project**

**Mill Creek Dam Improvement Project**

Schedule → October 2015 to July 2017

Budget → \$3,082,000

Benefit → Protecting and restoring essential Community flood control assets

[www.ezview.wa.gov/chehalisfloodauthority](http://www.ezview.wa.gov/chehalisfloodauthority)



City of Cosmopolis, Sep 29, 2018




AGAIN, Voted  
It's You that makes us better.  
**BEST BANK**  
& BEST PLACE TO GET A LOAN  
Thanks!

News Sports Life Opinion Weather Obituaries Print Editions Contests Classifieds All Sections

### NEWS

## New Mill Creek Dam ribbon cutting Saturday in Cosmopolis

September 28, 2018 7:00 pm



FILE PHOTO Cosmopolis Mayor Frank Chestnut (left) will officiate a ribbon cutting ceremony for the new Mill Creek Dam Saturday at noon.

<https://www.thedailyworld.com/news/new-mill-creek-dam-ribbon-cutting-saturday-in-cosmopolis/>



- ✓ 8 pump stations.
- ✓ \$50M cost.
- ✓ \$30M to date (58%).
- ✓ \$12M request (24%).

- 2,735 acres
- 4,583 parcels
- 232 businesses
- \$1.1B assessed value

## EXAMPLE

### 10th St Pump Station

## Local Projects (Hoquiam, 2024)

**PUMP STATION FENCING WITH PRIVACY SLATS**



**PUMP STATION FENCING AND DISCHARGE PIPES INSTALLED**



**PROPELLER PUMP MOTORS INSTALLED**



**PUMPS AND DISCHARGE PIPE FLEX COUPLERS**





## Local Projects (Bucoda, 2016)

**ELEVATION CERTIFICATE**  
U.S. DEPARTMENT OF HOMELAND SECURITY  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
National Flood Insurance Program

OMB No. 1560-0008  
Expiration Date: July 31, 2015

**SECTION A - PROPERTY INFORMATION**

A1. Building Owner's Name: **Colleen M. Tee**

A2. Building Name: **Bucoda Christian Assembly**

A3. Building Address: **301 N. Market Street**

A4. City: **Bucoda** State: **WA**

A5. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.):  
Tax Parcel No. **6180030000**

A6. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): **Residential**

A7. Latitude/Longitude (Lat. **46.0282° N**, Long. **122.0282° W**, Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A8. Elevation at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A9. Building Diagram Number: **8**

A10. For a building with a crawlspace or enclosure:  
a) Square footage of crawlspace or enclosure: **550** sq ft  
b) No. of permanent flood openings in the crawlspace or enclosure within 1.0 foot above adjacent grade: **4**  
c) Total net area of flood openings in A10.b: **312** sq in  
d) Engineered flood openings? ☒ Yes ☐ No

A11. For a building with an attached garage:  
a) Square footage of attached garage: **50** sq ft  
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: **0**  
c) Total net area of flood openings in A10.b: **312** sq in  
d) Engineered flood openings? ☒ Yes ☐ No

**SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION**

B1. FIRM Community Name and Community Number: **BUCODA, WA 330100**

B2. FIRM Date: **10/16/2012**

B3. FIRM Edition: **AE**

B4. Map/Panel Number: **E**

B5. FIRM Index Date: **09/02/1981**

B6. Flood Zone(s): **AE**

B7. Base Flood Elevation (Zone AE only): **255.0'**

B8. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in item B7:  
☐ FIRM Profile ☒ FIRM ☐ Community Determined ☐ Other Source: \_\_\_\_\_

B9. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No

Designation Date: **09/02/1981** ☐ FIRM ☐ OPA

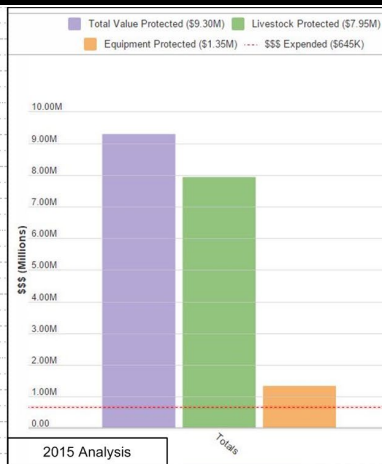
**SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)**

C1. Building elevations are based on: ☐ Construction Drawings\* ☐ Building Under Construction\* ☒ Personal Construction

\* A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones AE, AH, AI, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, A101, A102, A103, A104, A105, A106, A107, A108, A109, A110, A111, A112, A113, A114, A115, A116, A117, A118, A119, A120, A121, A122, A123, A124, A125, A126, A127, A128, A129, A130, A131, A132, A133, A134, A135, A136, A137, A138, A139, A140, A141, A142, A143, A144, A145, A146, A147, A148, A149, A150, A151, A152, A153, A154, A155, A156, A157, A158, A159, A160, A161, A162, A163, A164, A165, A166, A167, A168, A169, A170, A171, A172, A173, A174, A175, A176, A177, A178, A179, 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# Local Projects (Farm Pads)



1. Save lives, livelihoods.
2. Protects people, animals, equipment.
3. 26 locations throughout Basin.
4. <2 years to design, permit, construct.
5. 14:1 return-on-investment.
6. Benefit whole basin.
7. Reusable.
8. Testimonials → <http://arcb.org/2b632Ai>.

- ★ → Complete
- ☆ → Underway



## Farm Pads, Evacuation Routes (2012-19)

[www.ezview.wa.gov/chehalisfloodauthority](http://www.ezview.wa.gov/chehalisfloodauthority)

Contact: Scott Boettcher; Staff, Chehalis River Basin Flood Authority; 360/480-6600; [scottb@sbgh-partners.com](mailto:scottb@sbgh-partners.com)



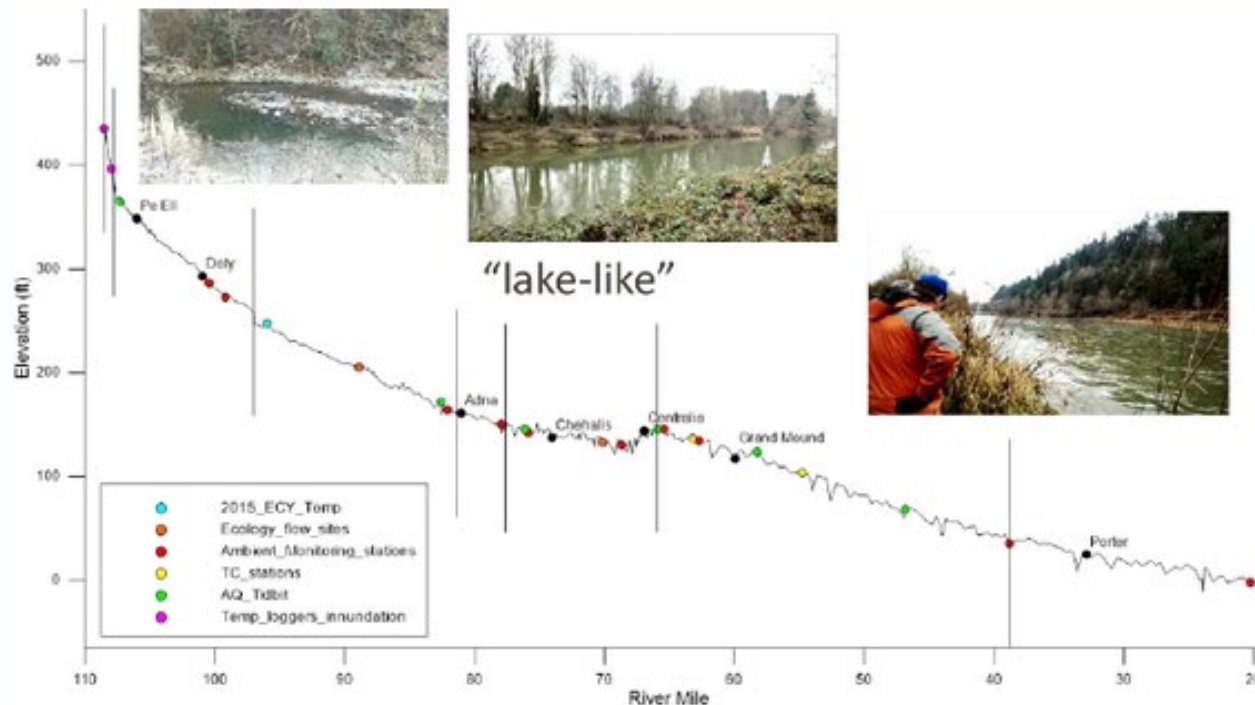
10/17/2019

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# Local Projects (Geographically-Based)



## Basin Geography

- ☐ Upper = Steep, narrow, fast flowing.
- ☒ Middle = Flat, “lake like”, slow to drain.
- ☐ Lower = Flat, coastal, difficult to drain.

Shah, Mohammad. (2021). inland water-dynamics and ecology. [10.5772/intechopen.87463](https://doi.org/10.5772/intechopen.87463).

## Local Projects (Mid-Basin -- Geographically-Based)

### South City of Chehalis & Port of Chehalis



Geographic flooding strategy with sequenced investments:

- ✓ Increase flood storage
- ✓ Reduce flood levels
- ✓ Minimize damage, monetary losses

Mar 6<sup>th</sup> = Community workshop (VL  
Community Building, 2-6 PM)



# Flood Warning System (#2)

- ✓ **Developed** with State Capital Budget \$.
- ✓ **Maintained** with local \$.

[www.chehalisriverflood.com](http://www.chehalisriverflood.com)

https://chehalis.rain.com 67%

**The Chehalis River Basin Flood Warning System**  
Be Aware; Be Prepared: Flood Season is here!

Sign Up Now to receive 2023-24 email high water alerts - The Chehalis Basin Flood Warning System sends automatic email alerts about rising floodwaters.

To sign up for email alerts, click the icon below:

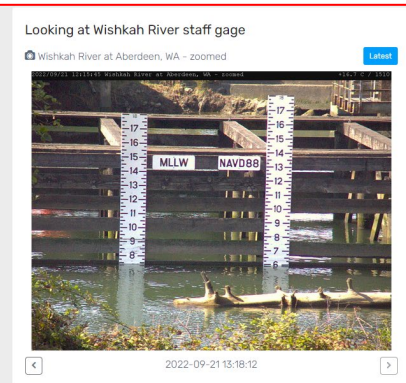
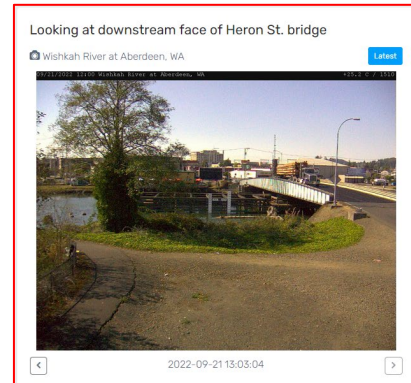
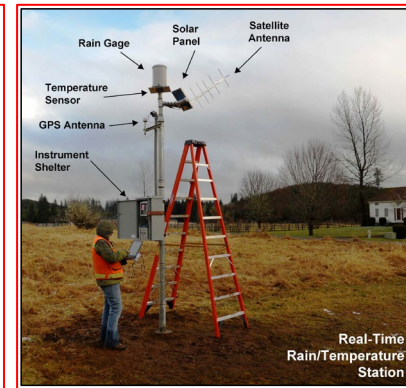
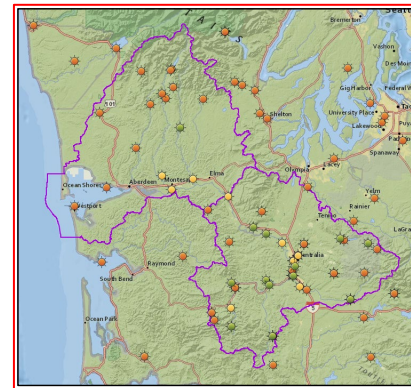
Questions?  
Contact Cheryl Vincent at [cvincent@westconsultants.com](mailto:cvincent@westconsultants.com) and Jennifer McAdoo at [jennifer.mcadoo@icf.com](mailto:jennifer.mcadoo@icf.com).

Para leer esta información en español, haga clic aquí

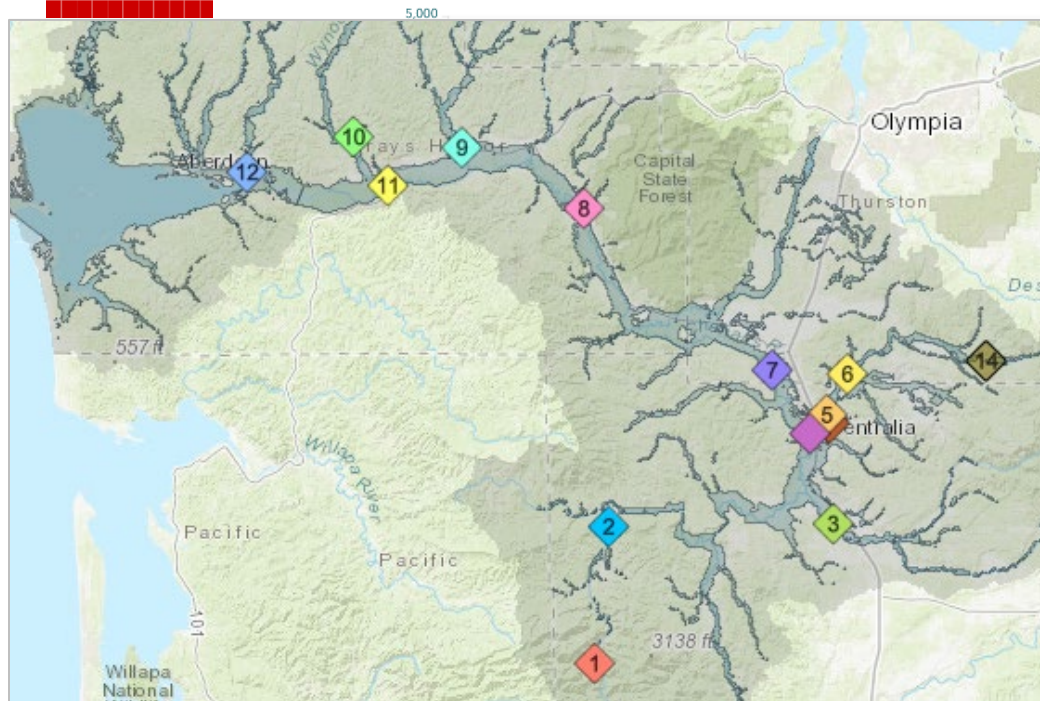
Click here on the image above to visit our Interactive ArcGIS Dashboard!

**Chehalis River Basin Forecasting Tools**

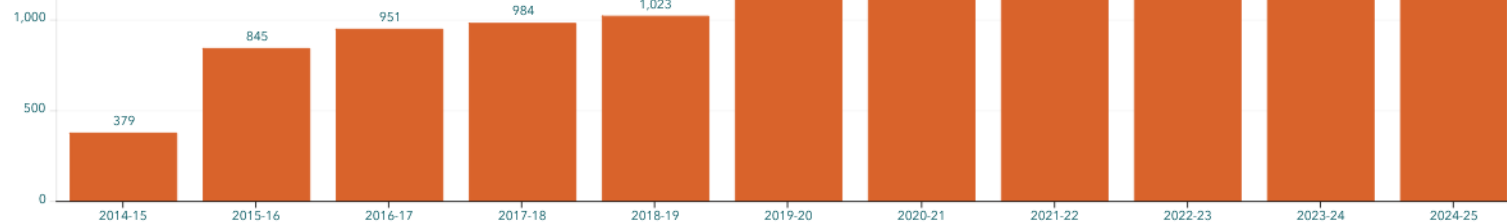
- Chehalis River (and tributaries) Dashboard
- Weather Forecast
- Rainfall Forecast
- Radar Rainfall
- River Forecast
- Flood Maps
- Atmospheric Rivers
- King Tides Calendar
- Seasonal Precipitation and Temperature Forecasts



# Flood Warning System (Alert Sign-Ups)



Sign-up for  
email high water  
alerts [here](#).





# Proposed Flow-Through Dam for Flood Control (#3)

1. Move through unobstructed
  - ✓ Water
  - ✓ Fish
  - ✓ Sediment
2. Delivers top-to-bottom benefit, Pe Ell to Cosmopolis.
3. See recent presentation [here](#).



[www.chehalisriverbasinfczd.com](http://www.chehalisriverbasinfczd.com)

# Chehalis Basin Strategy

## State Law

“The primary purpose of the office is to aggressively pursue implementation of an integrated strategy and administer funding for long-term flood damage reduction and aquatic species restoration in the Chehalis river basin.” ([RCW 43.21A.730](#))



Office of Chehalis  
Basin

Chehalis Basin  
Board

<https://chehalisbasinstrategy.com/>

## Chehalis Basin Board

Community leaders, Chehalis and  
Quinault tribal representatives,  
local and state government liaisons

Appoints 3  
member



## Office of Chehalis Basin

Small team within the WA  
Department of Ecology

## “Network of Partners”

Organizations and local  
entities who turn ideas into  
shovel-ready reality

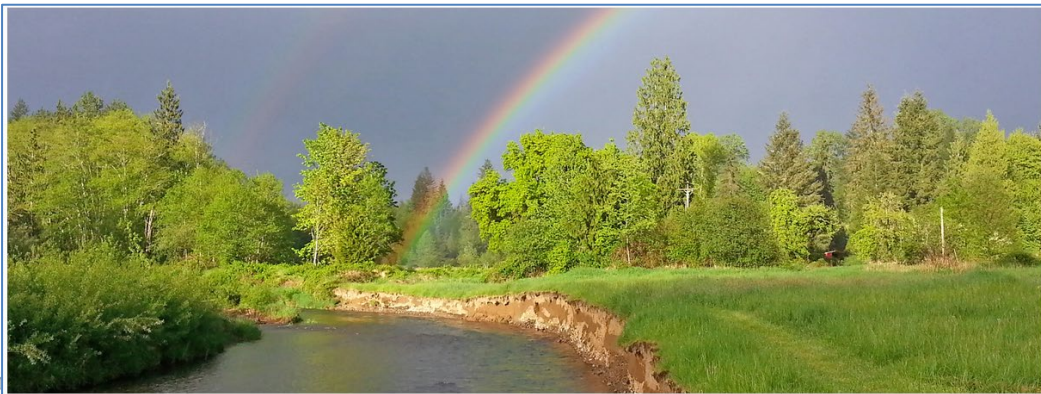
# Chehalis Basin Strategy (Network of Partners)



# Today vs 2007

**Today, we are substantially more aware, better prepared for catastrophic flooding than ever before.**

- ✓ We have a state-of-the art flood warning system.
- ✓ We've completed many cost-efficient local projects and habitat projects.
- ✓ We're serving people, local governments, emergency responders, agriculture, fish, and habitat alike
- ✓ We have a governance, administrative, and funding structure that's delivering results, and is committed to a balanced basin-wide flood and fish solution (see Local Resolution Library).



<https://chehalisbasinstrategy.com/office-of-chehalis-basin/>



# Thank You! and Key Contacts

**Vickie Raines, Grays Harbor County Representative**

*Chair, Chehalis River Basin Flood Authority*

*Flood Authority Appointee & Chair, Chehalis Basin Board*

360/590-4100

[vraines@graysharbor.us](mailto:vraines@graysharbor.us)

**Edna Fund, Lewis County Representative**

*Vice-Chair, Chehalis River Basin Flood Authority*

*Chair, Chehalis River Basin Flood Control Zone District Advisory Board*

360/269-7515

[dutch@localaccess.com](mailto:dutch@localaccess.com)

**Mike Olden**

*Montesano Member, Chehalis River Basin Flood Authority*

360/589-0333

[molden@montesano.us](mailto:molden@montesano.us)

**Scott Boettcher**

*Staff, Chehalis River Basin Flood Authority*

360/480-6600

[scottb@sbgh-partners.com](mailto:scottb@sbgh-partners.com)

# Extra – Flood and Fish Articles

## The Chronicle

Division of CP Publishing

<https://chronline.com/browse.html?>

**Chehalis Basin Strategy progress in review: Pump station investments to protect 5,100 properties in lower Chehalis River Basin**  
Editor's Note: This article is part of an ongoing series highlighting projects that have been completed as part of the Chehalis Basin Strategy. These projects are implemented in cooperation ... more  
By The Chronicle staff | 11/18/24

**Chehalis Basin Strategy progress in review: Working together to restore nearly 5 miles of the lower Satsop River for salmon, steelhead and local communities**  
Editor's Note: This article is part of an ongoing series highlighting projects that have been completed as part of the Chehalis Basin Strategy. These projects are implemented in cooperation ... more  
By The Chronicle staff | 8/23/24

**Chehalis Basin Strategy progress in review: Bringing Stillman Creek back to life**  
More than 140 local fish and flood projects have been completed across the Chehalis River Basin, coordinated and funded through the Office of Chehalis Basin (OCB). The OCB board is ... more  
By The Chronicle staff | 11/17/23

**Chehalis Basin Strategy progress in review: Erosion management at Haul Road**  
More than 140 local fish and flood projects have been completed across the Chehalis River Basin, coordinated and funded through the Office of Chehalis Basin (OCB). The OCB board is ... more  
By The Chronicle staff | 10/27/23

**Chehalis Basin Strategy progress in review: Improving fish passage on Middle Fork Wildcat Creek in Grays Harbor County**  
More than 140 local fish and flood projects have been completed across the Chehalis River Basin, coordinated and funded through the Office of Chehalis Basin (OCB). The OCB board is ... more  
By The Chronicle staff | 9/29/23

**Chehalis Basin Strategy progress in review: Pump station paves way for economic revitalization, flood protection in Grays Harbor County**  
More than 140 local fish and flood projects have been completed across the Chehalis River Basin, coordinated and funded through the Office of Chehalis Basin (OCB). The OCB board is ... more  
By The Chronicle staff | 8/15/23

**Chehalis Basin Strategy progress in review: Log jacks protect wastewater treatment plant in Grays Harbor County**  
More than 140 local fish and flood projects have been completed across the Chehalis River Basin, coordinated and funded through the Office of Chehalis Basin (OCB). The OCB board is ... more  
By The Chronicle staff | 8/25/23

**Chehalis Basin Strategy progress in review: Chehalis-Centralia Airport pump station replacement**  
It has been more than 15 years since the devastating flooding of December 2007 in the Chehalis River Basin. In the time since, residents, businesses, tribes and government entities ... more  
By The Chronicle staff | 8/4/23

The Chronicle

<https://www.chronline.com/stories/chehalis-basin-strategy-progress-in-review-pump-station-investm>
















## Chehalis Basin Strategy progress in review: Pump station investments to protect 5,100 properties in lower Chehalis River Basin



The Fry Creek Pump Station is pictured in Aberdeen.

# Extra – Local Resolutions

## Local Resolutions Favoring Basin-Wide Solution

File Name	File Size	Category	Date Added▼
 <a href="#">Cosmopolis 2024-19-12 Resolution 2024-04.pdf</a>	1.1 MB	2024	01/14/25 06:53 AM
 <a href="#">Grays Harbor County -- 2024-17-12 Resolution 2024-143.pdf</a>	847.5 KB	2024	01/14/25 06:53 AM
 <a href="#">Bucoda -- 2024-10-12 Proclamation.pdf</a>	1.4 MB	2024	01/14/25 06:53 AM
 <a href="#">Hoquiam -- 2024-09-12 Resolution 2024-20.pdf</a>	317 KB	2024	12/11/24 09:46 AM
 <a href="#">Pe Ell -- 2024-15-10 -- 276.pdf</a>	2.9 MB	2024	11/11/24 05:44 AM
 <a href="#">Chehalis -- 2024-14-10 -- Proclamation.pdf</a>	1.6 MB	2024	11/11/24 05:44 AM
 <a href="#">Hoquiam -- 2021-04-12-- 2021-12.pdf</a>	110.1 KB	2021	04/16/21 10:14 AM
 <a href="#">Grays Harbor County -- 2021-04-06 -- 2021-031.pdf</a>	126.2 KB	2021	04/07/21 10:19 AM
 <a href="#">Centralia -- 2021-02-09 -- 2733.pdf</a>	1 MB	2021	03/18/21 09:11 AM
 <a href="#">Aberdeen -- 2021-01-27 -- 2021-05.pdf</a>	1.3 MB	2021	03/18/21 05:27 AM
 <a href="#">Pe Ell -- 2021-03-02 -- 260.pdf</a>	134 KB	2021	03/18/21 05:11 AM
 <a href="#">Bucoda -- 2021-02-08 -- 2021-01.pdf</a>	862.3 KB	2021	03/18/21 05:11 AM
 <a href="#">Chehalis -- 2021-02-08 -- 2-2021.pdf</a>	553.8 KB	2021	03/18/21 05:10 AM
 <a href="#">Lewis County -- 2021-02-01 -- 21-046.pdf</a>	1.2 MB	2021	03/18/21 05:10 AM
 <a href="#">CRBFA -- 2021-01-21 -- Resolution.pdf</a>	130.3 KB	2021	03/18/21 05:09 AM

See *Local Resolutions Library* [here](#).