



July 17, 2019

TO: Flood Authority Members
FROM: Scott Boettcher, Staff
SUBJECT: Local Project Funding Reallocation

Purpose of this memo is to discuss reallocating unspent funds from Grays Harbor County's Wishkah Road Flood Levee project to the County's Lower Satsop Protection Program for Keys Road and related infrastructure protection. We'll discuss at Thursday's Flood Authority meeting. Please call or email with questions (360/480-6600, scottb@sbgh-partners.com).

A. Background

1. Grays Harbor County Wishkah Road Flood Levee Project:

- Project began in January 2013 with a study of options to protect and keep open Wishkah Road in times of flooding.
- Solution completed in January 2018 was construction of a sheet pile wall (\$4M) between the road and Wishkah River.
- Additional related projects authorized include:
 - a. Adding additional height to the sheet pile walls in order to pursue FEMA certification of levee at a future date.
 - b. Repaving, regrading, and guardrail extension activities to improve future maintenance.
- Flood Authority approved de-obligating \$238K from the project in April 2019 to help resolve a budget/accounting discrepancy facing the Flood Authority's Local Projects Program (between OFM and Ecology budgets).
- Remaining funds available funds (643K) are insufficient to achieve FEMA certification at this time due to the heavy cost of managing rainfall runoff and drainage behind the sheet pile wall (\$1.2M).
- Informational Links:
 - a. October 2017 presentation -- https://www.ezview.wa.gov/Portals/_1492/images/kpff_wishkah_PPT.pdf
 - b. EZview project site -- https://www.ezview.wa.gov/site/alias_1747/overview/34387/overview.aspx
 - c. \$248K de-obligation -- https://www.ezview.wa.gov/Portals/_1492/images/Project%20Overage%20SBB%2004-18-2019.pdf

2. Grays Harbor County Lower Satsop Protection Program:

- In September 2017, the Flood Authority endorsed Grays Harbor County serving as primary coordinator/convener of Flood Authority supported projects in the Lower Satsop (https://www.ezview.wa.gov/Portals/_1492/images/Staff%20memo%20--%20GHC%20and%20Lower%20Satsop%20--%20%202017.pdf)
- In that capacity, the County built a shared vision (2018) for Lower Satsop protection, preservation and restoration activities that meet the interests of landowners, agencies, the County, and many others.
- On November 27, 2018 a dramatic river avulsion compelled Lower Satsop parties to immediate action with the Chehalis Basin Board providing critical funding (\$160K) for immediate development of a reach-scale implementation plan and prioritized investment areas (and actions).

- Attachment 1 provides an overview of Lower Satsop Protection Program prioritized investment areas (and actions).

3. **Projects Committee Recommends Moving \$643K from Wishkah Road Flood Levee Project to Lower Satsop Protection Program for Keys Road and Related Infrastructure Protection:**

Projects Committee met (7/16/2019) and concurred with a request from Grays Harbor County (7/15/2019) to move unspent Wishkah Road funds to the Lower Satsop on the basis that:

- Dollar-for-dollar, the benefits of funding Lower Satsop infrastructure protection (e.g., Keys Road, Port Well) are expected to accrue faster and to greater benefit than with the Wishkah Road Flood Levee Project.
 - a. ADT (Average Daily Trips) for Keys Road is 731 with 20% being trucks (2018 data).
 - b. ADT at Satsop River Bridge on Monte-Elma Road was 1,869 trips per day with 8% truck traffic.
 - c. Keys Road is essential for Satsop Business Park with Keys Road being preferred truck route.
 - d. If funded protection activities can be programmed and constructed in the 2020 construction season (July/August 2020).
 - e. In contrast, Wishkah Road Flood Levee project is substantially underfunded to meet current FEMA certification cost projections (\$1.2M for drainage control, pumping infrastructure, etc.) and without a schedule for when benefits would be realized.
- Protecting Keys Road is a precursor to removing full WDFW revetment in 2021 (which has high returns for agricultural landowners and habitat interests)
- See Slide #5 showing accelerated erosion toward Keys Road (62 feet in last year!)
<https://www.ezview.wa.gov/Portals/1492/images/Update%20--%20Lower%20Satsop%20Investment%20Plan%207-11-2019.pdf>.

C. Next Step Recommendation

Projects Committee recommends the Flood Authority:

1. Approve redirecting all remaining available funds (~\$643K) from the Wishkah Road Flood Levee project to the Lower Satsop Protection Program for Keys Road and related infrastructure protection (e.g., Port Well); and
2. Direct staff (Scott) to work with RCO, OCB and CBB to implement this action.

Attachment 1
Overview of Lower Satsop Protection Program Prioritized Investment Areas (and Actions)
7-17-2019

NOTE (1): Costs presented here are intended as high-level, conservative estimates to be refined in the weeks/months ahead, as well as indicators of the likely scale and order of magnitude required to implement the Lower Satsop Protection Program over the course of the next several years.

NOTE (2): Geomorphic groups are identified in the following presentations:

- o https://www.ezview.wa.gov/Portals/_1492/images/NSD%20Chehalis%20Basin%20Flood%20Authority%20Meeting%205-16-19.pdf
- o [https://www.ezview.wa.gov/Portals/_1492/images/Update%20--%20Lower%20Satsop%20Investment%20Plan%207-11-2019%20\(updated%207-16-2019\).pdf](https://www.ezview.wa.gov/Portals/_1492/images/Update%20--%20Lower%20Satsop%20Investment%20Plan%207-11-2019%20(updated%207-16-2019).pdf)

Activity	Cost	Status
2019:		
1. WDFW -- Construct WDFW Habitat Restoration Project (Phase I)	Funded	Underway
2. WDFW -- Construct WDFW Lower Revetment Removal (Phase I)	Funded	Underway
3. GHC – Prepare for and complete permitting for 2020 construction activities.	\$100K to \$160K **	Planned
2020:		
1. GHC -- Construct geomorphic group #1 and #2	\$1.5M to \$1.8M	Planned
2. GHC -- Construct Lower Satsop infrastructure protections (e.g., Keys Road, Port Well)	\$2.5M to \$4.0M **	Planned
3. WDFW -- Construct WDFW Habitat Restoration Project (Phase II)	Funded	Planned
4. GHC – Prepare for and complete permitting for 2021 construction activities.	\$400K to \$600K	
2021:		
1. GHC -- Construct geomorphic group #3 and #4	\$2.5M to \$3.0M	Planned
2. WDFW -- Construct WDFW Lower Revetment Removal (Phase II)	Funded	Planned

** Note -- \$185K in 2019-21 State Capital Budget funding secured for Keys Road Protection will be applied here.