



September 13, 2016

TO: Flood Authority Members
FROM: Scott Boettcher, Staff
SUBJECT: 2017 Flood Warning System Budget and County Shares

Purpose of this memo is to allocate 2017 Flood Warning System annual costs (www.chehalisriverflood.com). We will discuss this at our Thursday Flood Authority meeting. Please feel free to call or email if you have questions (i.e., 360/480-6600, scottb@sbgh-partners.com).

Breakdown of 2017 Costs

Breakdown of 2017 Annual O & M Costs		2014	2015	2016	2017	Difference 2016-2017
WEST Consultants	Gage maintenance -- 10 gages (including 2 stream gages) located across Chehalis Basin.	\$38,438	\$38,438	\$38,438	\$38,438	\$0
WEST Consultants	Operational support -- On-going support for website monitoring and updates for routine operations and during potential flood events.	\$11,336	\$11,336	\$11,336	\$11,336	\$0
WEST Consultants	Spare parts inventory -- Extra parts in the event of broken or malfunctioning gages.	\$0	\$6,000	\$2,000	\$2,000	\$0
OneRain	Website -- One-rain annual subscription (120 sensors in and near Chehalis Basin).	\$3,811	\$3,811	\$5,261	\$5,261	\$0
Lewis County	Billing and processing.	\$0	\$900	\$900	\$900	\$0
Total -->		\$53,585	\$60,485	\$57,935	\$57,935	\$0

Recap of 2014-2016 Allocation Approach

Annual costs for 2014, 2015 and 2016 were allocated among the three Flood Authority counties as follows:

- o Grays Harbor County -- 22%.
- o Lewis County -- 64%.
- o Thurston County -- 14%.

The method behind the allocation was as follows:

- o 50% of the allocation was based on populations of communities prone to flooding.
- o 50% was based on historic FEMA flood insurance payments.



This allocation approach was unanimously supported by the Flood Authority beginning in 2014 (see [here](#)).

2016 annual costs to the three counties were as follows:

- Grays Harbor County -- \$12,745.70.70 (22%).
- Lewis County -- \$37,078.40 (64%).
- Thurston County -- \$8,110.90 (14%).

Staff Recommendation

Flood Authority agrees to use the same allocation approach as last year on the basis that relatively not a lot has changed in the Basin in terms of population shifts and/or exposure to flood risk, i.e., Lewis County still has largest population and risk exposure in the Basin.

2017 annual costs are proposed as the same as 2016 as follows:

- Grays Harbor County -- \$12,745.70.70 (22%).
- Lewis County -- \$37,078.40 (64%).
- Thurston County -- \$8,110.90 (14%).

Staff work with Lewis County to prepare payment schedule (1st half due 3/31/2017; 2nd half due 7/31/2017).

Other News

1. 2017 Flood Warning System – www.chehalisriverflood.com.
2. 2017 Flood Warning System Brief Sheet (8/10/2016) -
- https://www.ezview.wa.gov/Portals/_1492/images/Print50%20--%20HANDOUT%20--%20Updated%20Flood%20Warning%20System%20Brief%20Sheet%2008102016.pdf
3. 2017 Sign-Up for Email Gage Alerts (8/10/2016) -- https://www.ezview.wa.gov/Portals/_1492/images/Print50%20--%20HANDOUT%20--%20Gage%20Alerts%20Sign-Up%2008102016.pdf
4. 2016 Activity Update from Dave Curtis (WEST Consultants) -
- https://www.ezview.wa.gov/Portals/_1492/images/2016%20Chehalis%20FWS%20Update%20-%20WEST%20Consultants.pdf
5. 2016 Email Gage Alert Sign-Ups -- <https://data.wa.gov/dataset/Gage-Alert-Sign-Ups-2014-15/f4wb-hxgz>
6. 2016-2017 Outlook (Forecast) from Dave Curtis -- [https://www.ezview.wa.gov/Portals/_1492/images/2016-2017%20Outlook%20\(Forecast\)%2009132016.pdf](https://www.ezview.wa.gov/Portals/_1492/images/2016-2017%20Outlook%20(Forecast)%2009132016.pdf)