



July 16, 2019

TO: Flood Authority Members
FROM: Scott Boettcher, Staff
SUBJECT: Flood Warning System "Assets"

Purpose of this memo is to discuss updating Flood Warning System asset management agreements. 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. The Chehalis River Basin Flood Warning System (www.chehalisriverflood.com) has evolved over-time (since 2011/12 flood season) to be a sophisticated, efficient flood warning system benefitting interests both within and outside the basin. The system:
 - Records data from 89 discrete sites/locations and 267 sensors.
 - Has experienced a 174% increase in gage alert sign-ups from 2014/15 flood season (379 sign-ups) to 2018/19 flood season (1,037 sign-ups).
 - Leverages and reports data from USGS, Ecology, Flood Authority, and other partner gages in the basin (see map of partners gages here <http://arcg.is/yD4G4>).
 - Generates in excess of 6.5 million data reports per year (viewable through the system).
2. While the system has grown and evolved over time, many of the system's underlying agreements and administrative instruments (related to the Flood Authority) are old and outdated. For example:
 - **Riverside Rain Gage** has an access agreement signed Terry Willis (no longer with Flood Authority). See <https://www.ezview.wa.gov/DesktopModules/Documents2/View.aspx?tabID=28124&alias=1492&mid=69571&ItemID=6401>.
 - **West Fork Satsop Stream Gage** has an unsigned and not fully executed access agreement. See <https://www.ezview.wa.gov/DesktopModules/Documents2/View.aspx?tabID=28124&alias=1492&mid=69571&ItemID=6404>.
 - **Cedar Creek Rain Gage** has an access agreement signed by retired WEST employee. See <https://www.ezview.wa.gov/DesktopModules/Documents2/View.aspx?tabID=28124&alias=1492&mid=69571&ItemID=7559>
3. In light of the fact that many of the Flood Warning System's access agreements and permissions are old and outdated, as well the Office of Chehalis Basin is a new and significant partner in the Flood Authority's effort to raise flood hazard awareness and decrease flood hazard impacts, it seems a prudent time to update (and modernize) existing access agreements and administrative instruments (per Table I).

B. Next Step Recommendation

Flood Authority staff (Scott) work with Lewis County (Lee Napier), WEST Consultants (Dave Curtis), and Office of Chehalis Basin (Andrea McNamara Doyle, Chrissy Bailey) to: (1) Update and appropriately structure existing access agreements and access permissions; and (2) Report back at the next Flood Authority meeting (9/19/2019).

**Table I -- Physical Assets (Gages/Webcams)
Flood Authority, Flood Warning System**

| Physical Assets | Type | ID | Location | Access Permission | | Insurance | |
|---|--------|----------|----------------------|---|----------|----------------------|---------|
| | | | | Agreement | Expire | COI | Expire |
| BEEVILLE RAIN GAGE - (MATLOCK 3NE) | Rain | D15015CE | here | here | -- | | |
| BROOKLYN RAIN GAGE | Rain | D150635E | here | here here here here | 8/07/19 | | |
| CEDAR CREEK RAIN GAGE NR LITTLE ROCK- WA | Rain | D1503322 | here | here | 12/31/20 | | |
| HAYWIRE RIDGE RAIN GAGE | Rain | D15006B8 | here | here | -- | | |
| NEWAUKUM-WEYCO RAIN GAGE | Rain | D1507028 | here | here here here here | 8/07/19 | | |
| RIVERSIDE RAIN GAGE (RFA-STA8) | Rain | D15045B2 | here | here | -- | | |
| ROCK-WEYCO RAIN GAGE | Rain | D15093DA | here | here here here here | 8/07/19 | here | 9/01/19 |
| SKOOKUMCHUCK RAIN GAGE | Rain | D15056C4 | here | here here here here | 8/07/19 | | |
| CHEHALIS BLW THRASH CRK | Stream | D15080AC | here | here here here here | 8/07/19 | | |
| CHEHALIS RIVER AT CENTRALIA, WA (GOES) | Stream | D1501B1C | here | here | -- | | |
| SKOOKUMCHUCK RIVER AT CENTRALIA, WA (GOES) | Stream | D150086A | here | here here | -- | | |
| WEST FORK SATSOP RIVER AT COUGAR SMITH ROAD NEAR SATSOP 13NNW | Stream | D1502054 | here | here here | -- | | |
| CHEHALIS RIVER AT MELLEEN STREET BRIDGE (WEBCAM) | Webcam | CENW1 | here | here | -- | here | 9/01/19 |
| WYNOOCHEE RIVER AT MONTESANO (WEBCAM) | Webcam | WYNR | here | here | -- | here | 9/01/19 |
| SATSOP RIVER AT MONTE-ELMA BRIDGE (WEBCAM) | Webcam | **** | here | **** | -- | **** | 9/01/19 |