

BOARD OF DIRECTORS MEETING
Menlo Park City Council Chambers
January 24, 2019 at 3:30 p.m.

AGENDA

1. **ROLL CALL**
2. **APPROVAL OF AGENDA**
3. **APPROVAL OF MEETING MINUTES: November 14, 2018 Special Board meeting**
4. **PUBLIC COMMENT – *Individuals may speak on any topic for up to three minutes; during any other Agenda item, individuals may speak for up to three minutes on the subject of that item.***
5. **REGULAR BUSINESS – Executive Director’s Report**
 - a. **Board organization: confirm officer positions and membership on committees**
 - b. **The storm of January 16 and 17, 2019: brief discussion**
 - c. **S.F. Bay-Highway 101 project: discuss project completion**
 - d. **Upstream of Highway 101 project update**
6. **BOARD MEMBER COMMENTS – *Non-agendized requests or announcements; no action may be taken.***
7. **ADJOURNMENT**

Agenda Item 3:

APPROVAL OF BOARD MEETING MINUTES

November 14, 2018 Regular Meeting

Agenda Item 4:

PUBLIC COMMENT

Individuals may speak on any topic for up to three minutes; during any other Agenda item, individuals may speak for up to three minutes on the subject of that item.

Agenda Item 5:

REGULAR BUSINESS – EXECUTIVE DIRECTOR’S REPORT

- a. **Board organization: confirm officer positions and membership on committees**

a. Board Organization: confirm officer positions & membership on committees

2018 Board positions

Chair: Kremen

Vice Chair: Abrica

Committees:

Finance: Pine & Keith ←

Personnel: Abrica & Scharff ←

Emergency Preparedness: Abrica & Kremen

Purposes, Roles and Responsibilities: Full Board

ACWA JPIA: Abrica (alternate Miyko Harris-Parker)

Agenda item 5.b.

The storm of January 16 and 17, 2019: brief discussion





NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

[HOME](#)

[FORECAST ▾](#)

[PAST WEATHER ▾](#)

[SAFETY ▾](#)

[INFORMATION ▾](#)

[EDUCATION](#)

[View Location Examples](#)

Your local forecast office is

[**San Francisco Bay
Area/Monterey, CA**](#)



Stormy Conditions Continue in the West Through This Weekend In the Central U.S.

An intense Pacific Storm will continue bring heavy rain, heavy snow in the mountains up to the central U.S., spreading snow into the central U.S., spreading snow into the central U.S. for the evening commute. [Read More >](#)

Hazardous Weather Conditions

- [Flood Advisory in effect from January 16, 06:28 PM PST until January 16, 09:30 PM PST](#)
- [Flash Flood Watch in effect from January 16, 03:00 PM PST until January 17, 03:00 AM PST](#)
- [High Wind Warning in effect from January 16, 01:00 PM PST until January 17, 03:00 AM PST](#)
- [High Surf Warning in effect from January 17, 05:00 AM PST until January 18, 05:00 PM PST](#)
- [Coastal Flood Advisory in effect from January 17, 05:00 AM PST until January 17, 09:00 AM PST](#)
- [Flood Advisory until January 16, 10:45 PM PST](#)



CALIFORNIA NEVADA RIVER FORECAST CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HOME HYDROLOGY WEATHER CLIMATE RESEARCH

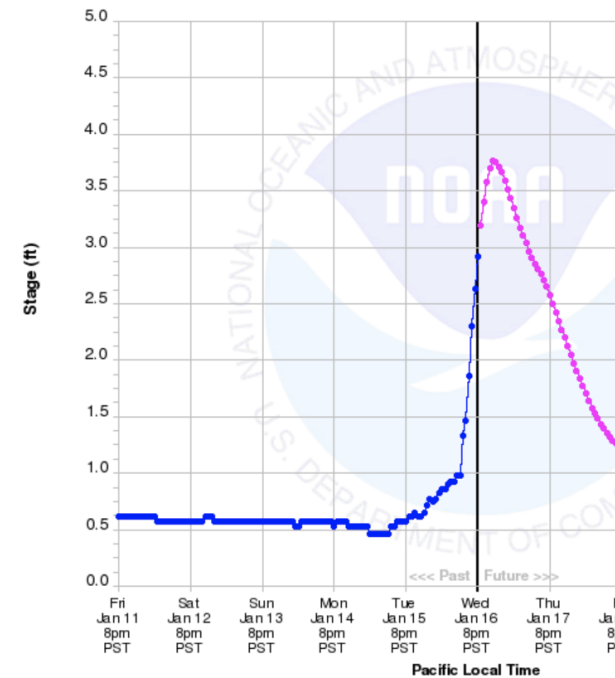
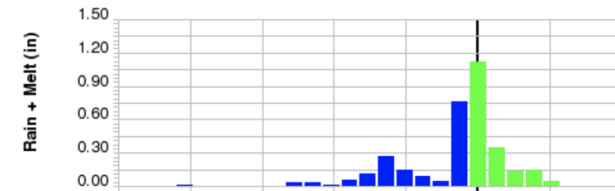
*** IMPORTANT *** Parts of the U.S. Government are closed. However, because we are updated and maintained during the Federal Government shutdown. For critical information, please contact the National Oceanic and Atmospheric Administration.

Back to River Map <<< Previous Forecast Point | End of River Group

SAN FRANCISQUITO CREEK - STANFORD UNIVERSITY
Latitude: 37.42° N Longitude: 122.19° W Elevation: 100 ft
Location: Santa Clara County in California River Group: Stanford

Issuance Time: Jan 16 2019 at 8:17 PM PST Next Issuance: 01/17/2019 at 8:17 PM PST

Monitor Stage: N/A Flood Stage: N/A

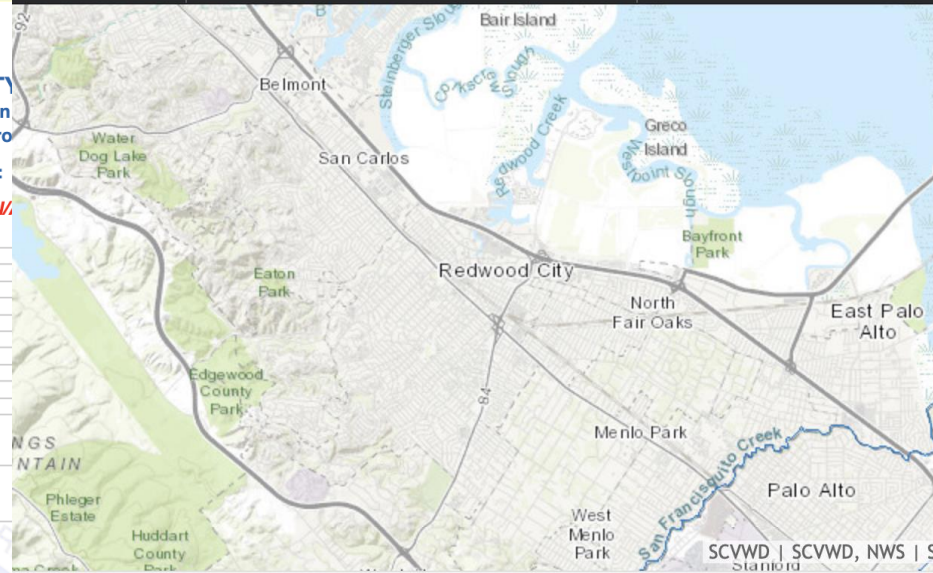


Observed ● Forecast ● Guidance ● Past Future <<< Past Future >>>
Created: 01/16/2019 at 8:20 PM PST (SFCC1 Forecast Run Time = 0414Z) NOAA

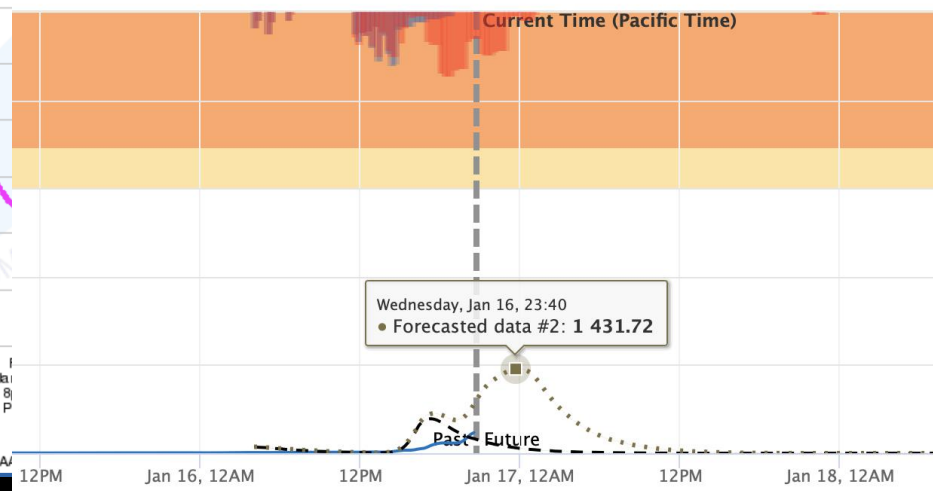
gis.valleywater.org

Graph

CNRF - Hydrology - River Guide



Information
San Francisco Creek at Stanford (0555) - ALERT data - Forecasted data - Forecasted data



2019

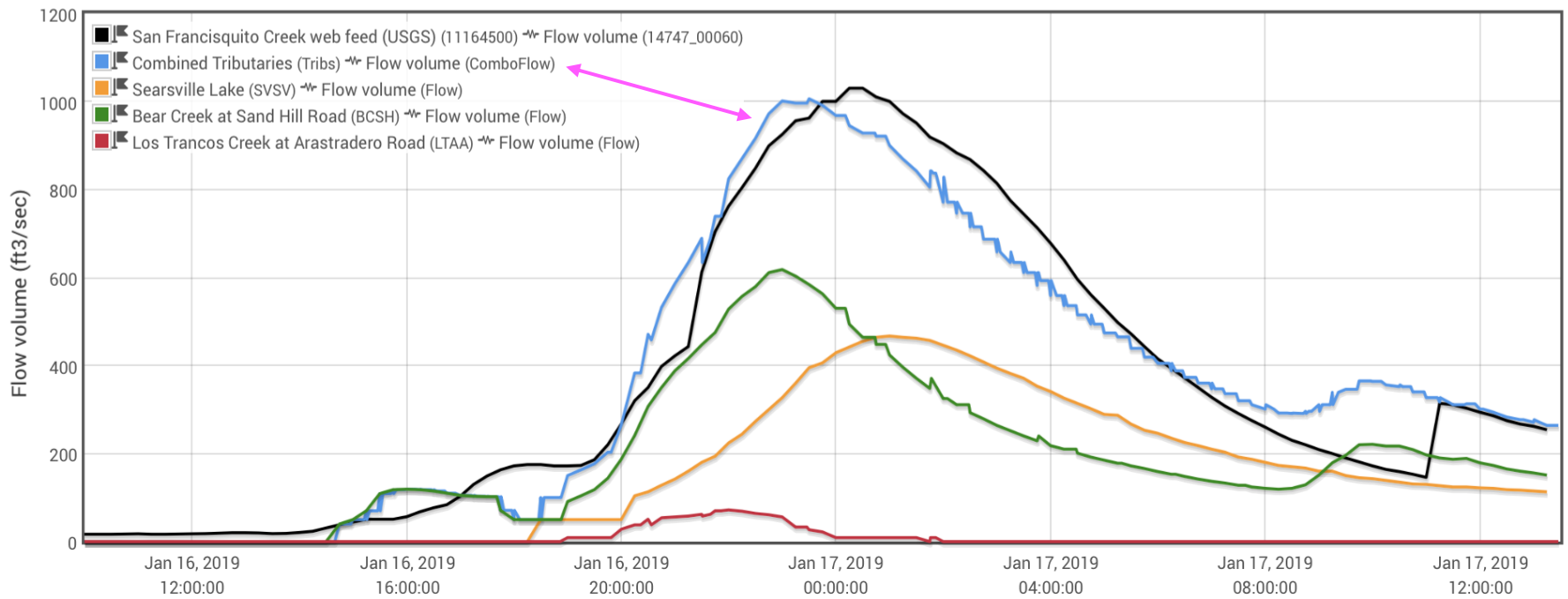
Graph

Reload

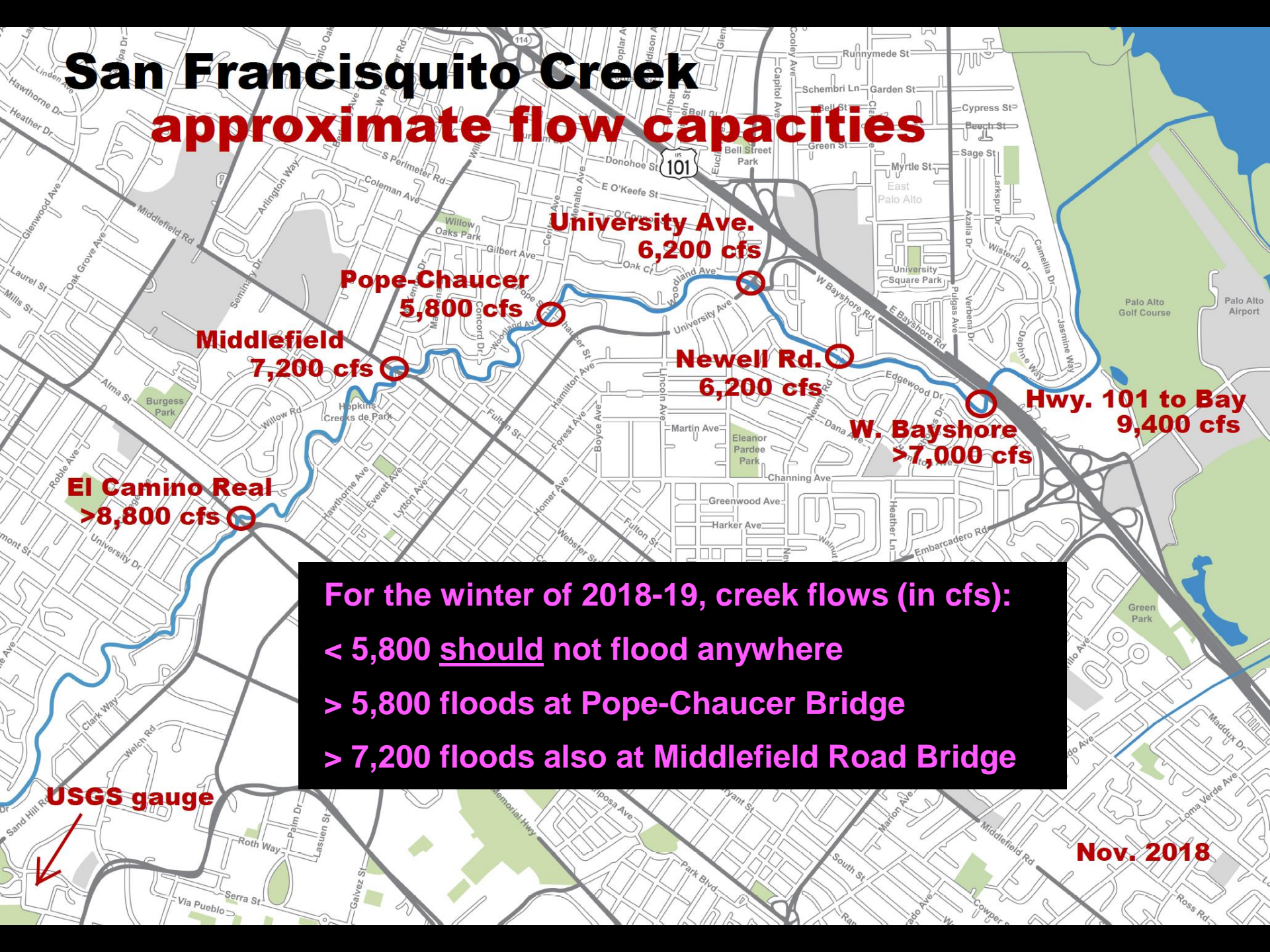
16 January, 2019 - 17 January, 2019

Markers Legend

Sensor Type Add



San Francisquito Creek approximate flow capacities



For the winter of 2018-19, creek flows (in cfs):
< 5,800 should not flood anywhere
> 5,800 floods at Pope-Chaucer Bridge
> 7,200 floods also at Middlefield Road Bridge

Nov. 2018

Flood Early Warning System website and alerts triggers

Winter 2018-19 updates

<u>Site</u>	<u>Yellow Trigger</u>	<u>Red Trigger</u>
Middlefield Road	4,100 c fs	6,800 cfs
Pope-Chaucer St	3,500 cfs	5,800 cfs
University Ave	3,500 cfs	5,800 cfs
u/s of W Bayshore	2,800 cfs	4,700 cfs
d/s of E Bayshore	2,750 cfs	4,600 cfs
% of creek capacity	60%	100%

If the combined flow in the upper watershed reaches a trigger value, a text/e-mail message is sent manually by the SFCJPA following monitoring of rain and creek flow data, and discussions with SCVWD subject matter experts and staff leadership of cities.

sfcjpa.org/floodwarning



SAN FRANCISQUITO CREEK
JOINT POWERS AUTHORITY

Flood Early Warning System



FLOOD MAP

RECEIVE ALERTS

REPORT A PROBLEM

BACKGROUND DATA

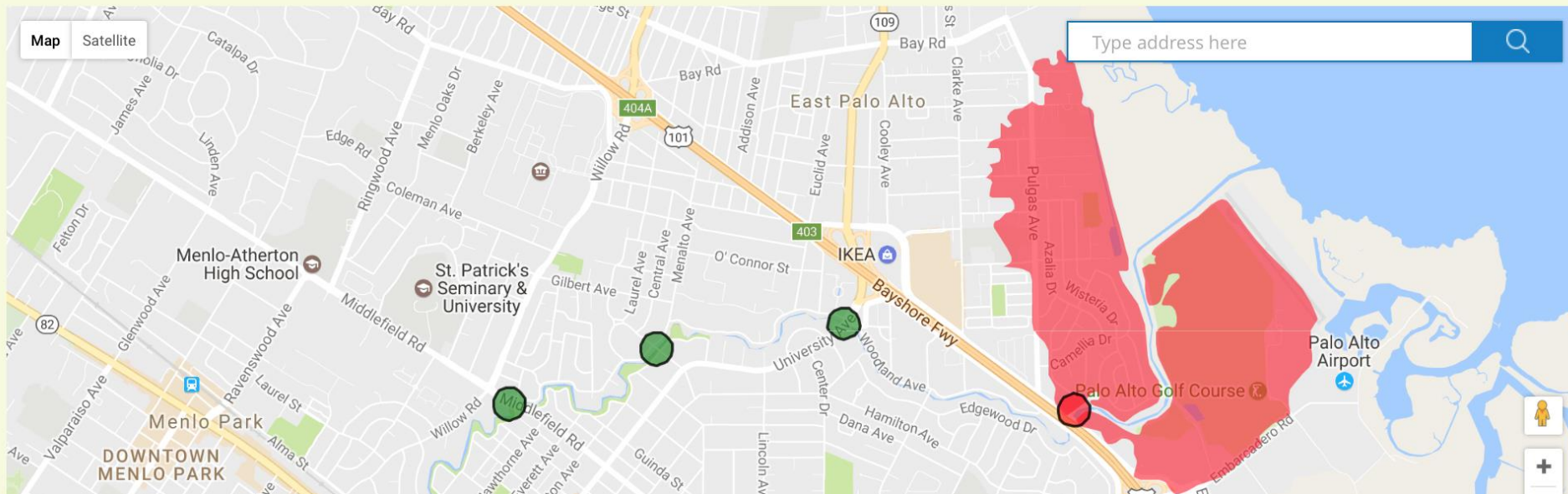
ABOUT

PALO ALTO CREEK MONITOR WEBSITE

February 7, 2017 01:31:06 pm The information on this website updates every 15 minutes — for current conditions, periodically refresh or relaunch this website.

**** FLOOD WARNING: UNTIL ABOUT 2:30 PM ON FEB. 7, SF CREEK MAY FLOOD AT WEST BAYSHORE ROAD, AS INDICATED BY THE RED CIRCLE ON THE MAP BELOW. WE ARE MONITORING OTHER LOCATIONS, BUT DO NOT ANTICIPATE FLOODING AT THOSE LOCATIONS AT THIS TIME. ****

PLEASE NOTE: For specific and timely information regarding emergency response in your community, click on the link under Local Agencies Emergency Websites below. Please do NOT call 9-1-1 unless there is an imminent threat to life or property.



Palo Alto Creeks, Flood Basin & Tide

1/17/2019
1:00:32 PM

San Francisco Creek

Waverley St. Chaucer St. W. Bayshore Rd.

1.3 ft

2.6 ft

16.0 ft

Matadero Creek

W. Bayshore Rd.

0.7 ft

Adobe Creek

E. Meadow Dr.

2.0 ft

Flood Stage Levels (Max Capacity)

28.0 ft

24.0 ft

16.7 ft

12.8 ft

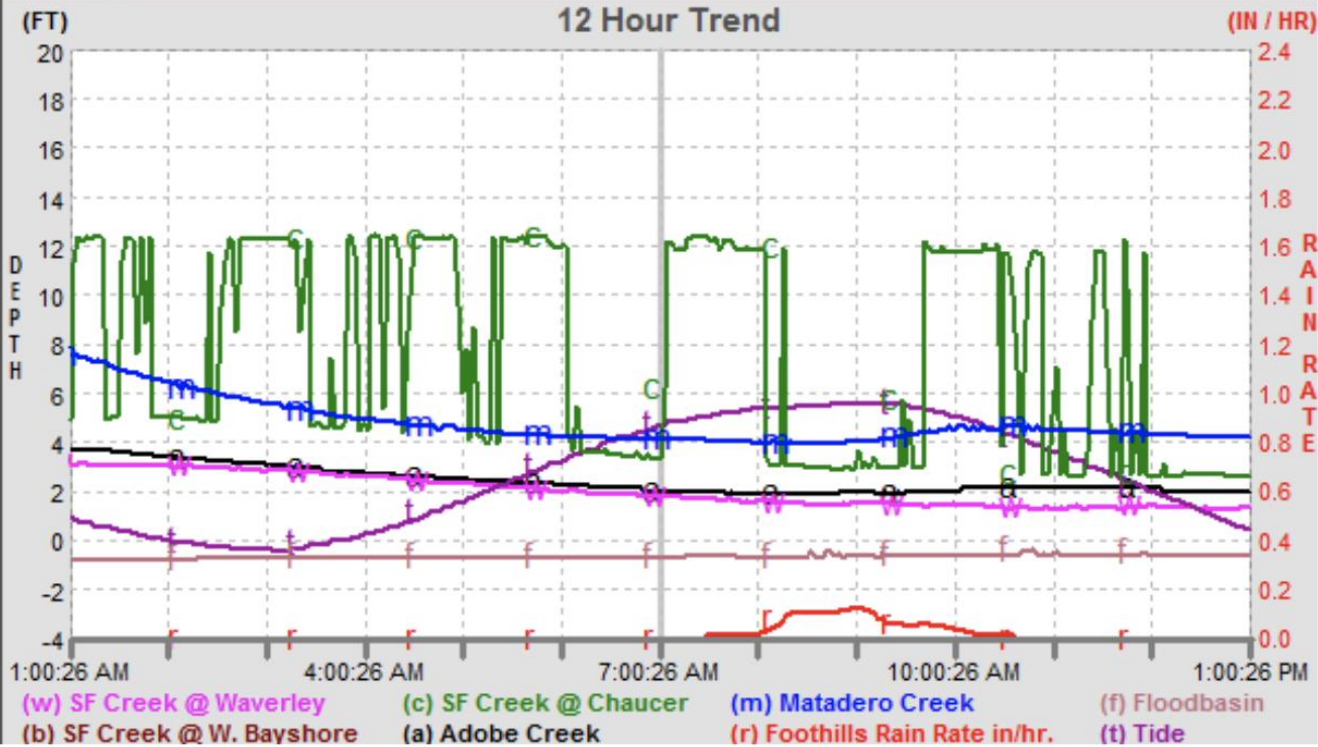
12.5 ft

12.0 ft



Flood Basin: -0.61 ft Tide 0.36 ft

Rain @ Foothills Park: Rain Rate 0.00 in/hr 24 Hours 2.49 in Annual Rain: 11.12 in



Agenda item 5.c.

S.F. Bay–Hwy. 101 project: discuss project completion





Looking upstream from above Faber Marsh, January 2018



Looking upstream from above Faber Marsh, December 2018



Bay-Highway 101 Project update

- On Dec. 14, 2018, we celebrated completing the flood protection features.
- Faber Marsh and in-channel marsh planting and maintenance is ongoing. The Friendship Bridge and trails are opened, and may be temporarily closed to complete punch list items. On January 21st the non-profits Canopy and Grassroots Ecology organized volunteers to plant along the trail entrances.
- SFCJPA is amending our Prop. 84 grant agreements with DWR & ABAG.
- We are developing a new agreement among the cities of East Palo Alto and Palo Alto, and SCVWD, to outline and fund maintenance of the new levees and floodwalls, and to monitor, report and maintain restoration. At the next Board meeting, I'll discuss if that agreement alone will close out project financing.



Agenda Item 5:

REGULAR BUSINESS – EXECUTIVE DIRECTOR'S REPORT

d. Upstream of Highway 101 project update



Upstream of Highway 101 project update

- **SFCJPA's Draft EIR includes 17 alternatives, with 3 analyzed at a program or project level. The preferred project would modify the location with the least flow capacity (Pope-Chaucer Bridge) and increase capacity just in the areas downstream so that the new maximum flow under that Bridge can be conveyed safely to the Bay.**
- **Administrative Draft EIR is being reviewed now by partner agencies, and we expect to receive comments back by the end of January. The public comment period on the Draft EIR is planned from late February to late April. We will hold a public meeting in each city, one of which may include participation by staff from the Corps of Engineers, which plans to release a separate Draft EIS.**
- **SCVWD/SFCJPA have submitted two applications to FEMA for a total of \$8 million. If full funding comes through, current estimated shortfall to construct our preferred project is \$11.77 million. While large, this amount is in the context a comprehensive plan of SFCJPA Creek projects from S.F. Bay to the Pope-Chaucer Bridge costing over \$110 million.**

Agenda Item 6:

BOARD MEMBER COMMENTS

*Non-agendized requests or announcements;
no action may be taken.*



NEXT BOARD MEETING

Thursday, February 28, 2019

3:30 p.m.

East Palo Alto City Council Chambers





San Francisquito Creek S.F. Bay-Highway 101 Project

Under construction through 2018

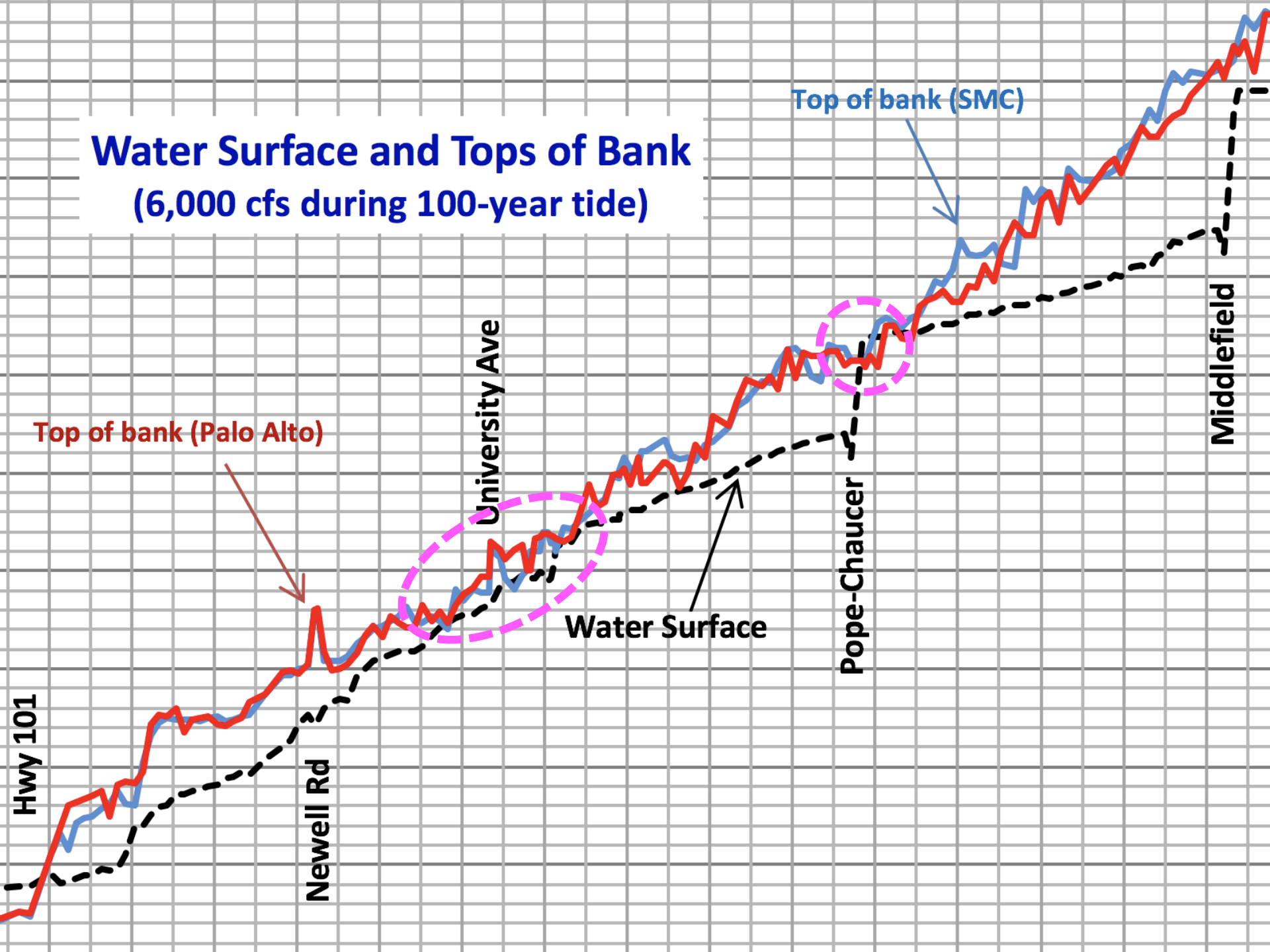




Looking downstream to the Bay from the Friendship Bridge – before & now



Water Surface and Tops of Bank (6,000 cfs during 100-year tide)



Top of bank (SMC)

Top of bank (Palo Alto)

University Ave

Water Surface

Pope-Chaucer

Middlefield

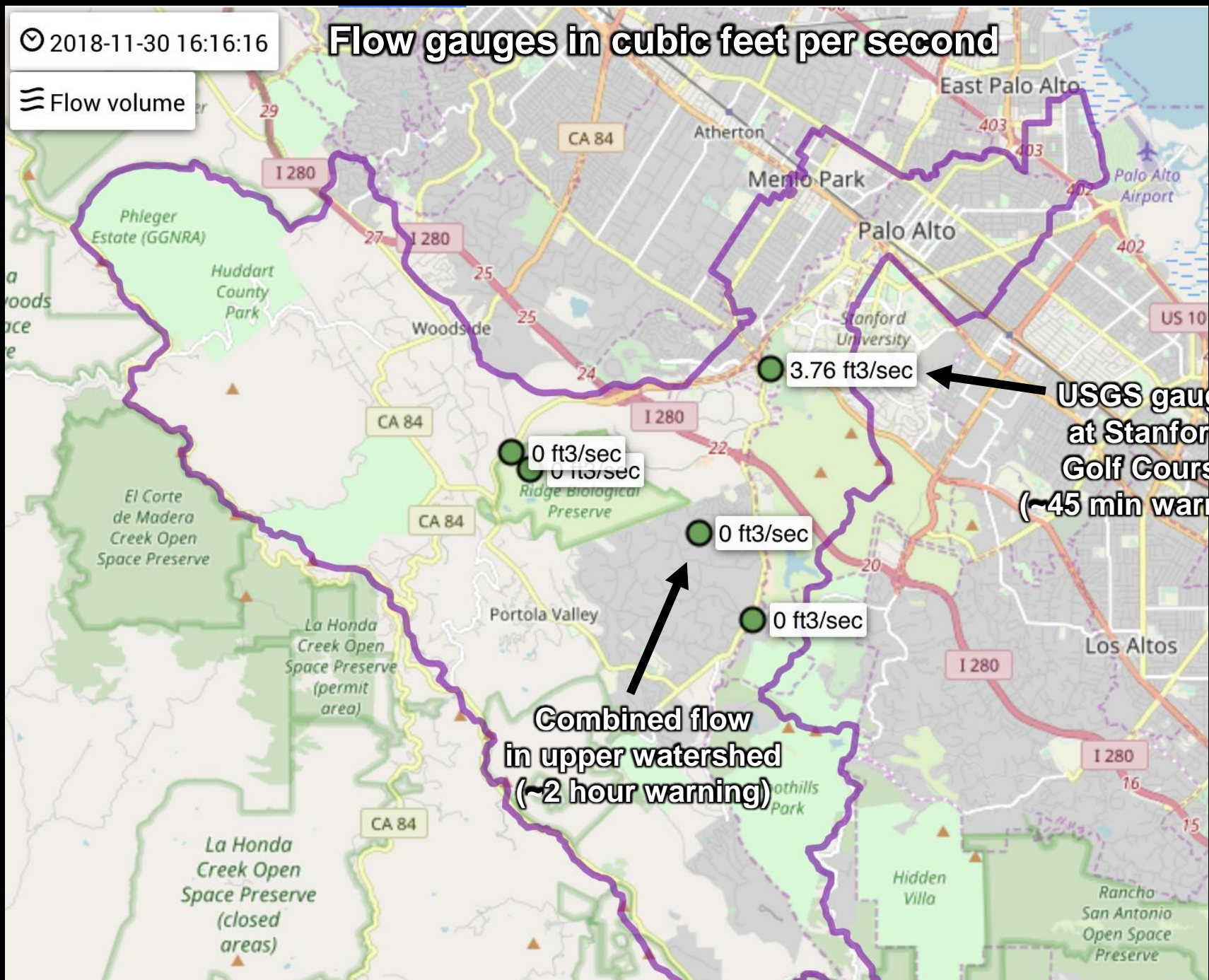
HWY 101

Newell Rd

🕒 2018-11-30 16:16:16

Flow gauges in cubic feet per second

☰ Flow volume



USGS gauge at Stanford Golf Course (~45 min warning)

Combined flow in upper watershed (~2 hour warning)

HISTORIC PEAK STREAMFLOW RATES

SAN FRANCISQUITO CREEK AT USGS GAGE (LOCATED NEAR JUNIPERO SERRA BLVD)

1930 - 1941; 1950 - 2018

<u>DATE</u>	<u>PEAK FLOW RATE (CFS)</u>
1. FEBRUARY 3, 1998	7200
2. DECEMBER 22, 1955	5560
3. DECEMBER 23, 2012	5400
4. JANUARY 4, 1982	5220
5. JANUARY 1, 2005	4840
6. FEBRUARY 7, 2017	4820
7. APRIL 2, 1958	4460
8. JANUARY 21, 1967	4000
9. FEBRUARY 13, 2000	3930
10. FEBRUARY 16, 1982	3760



What we're doing for winter preparedness

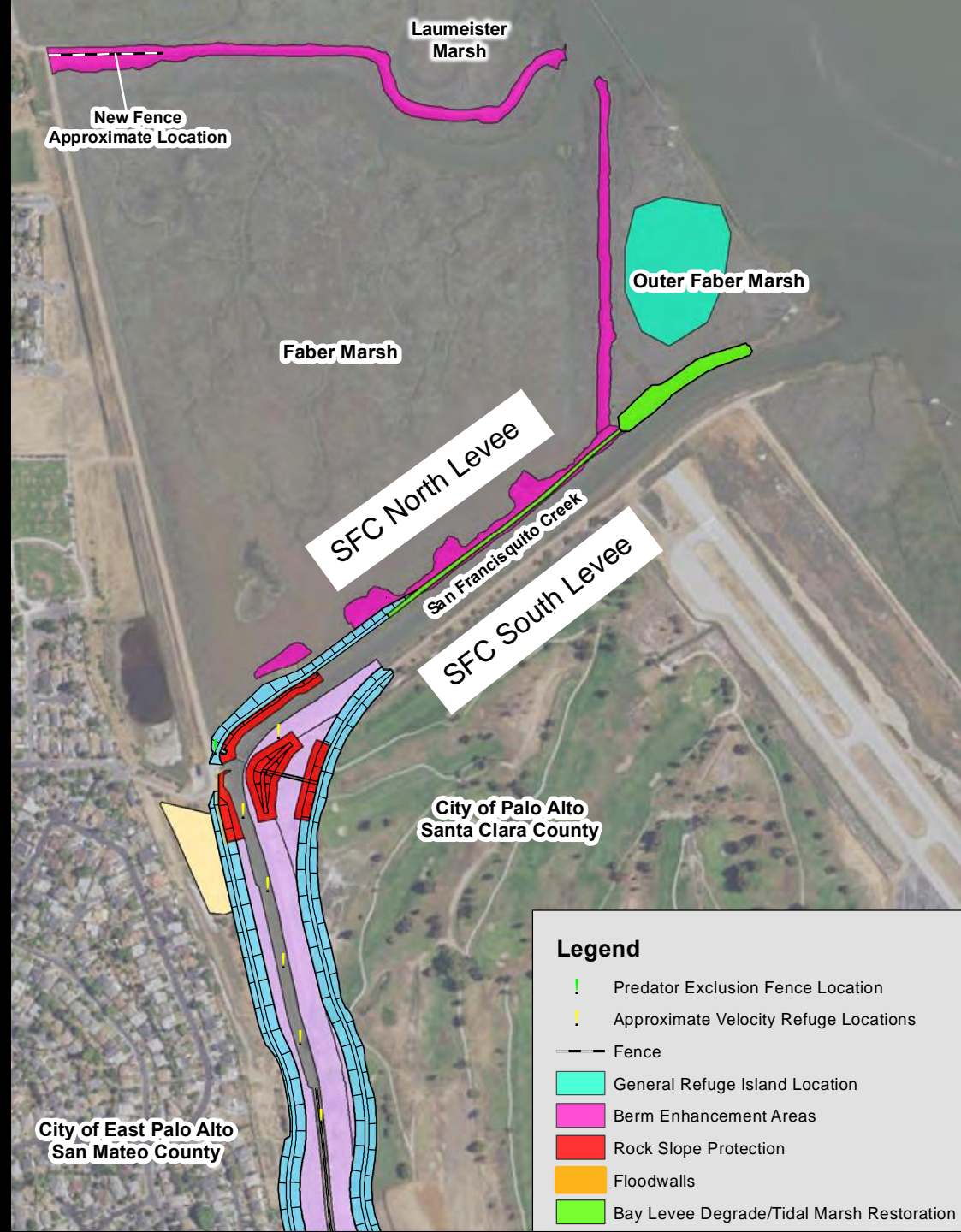
- **Annual maintenance walk**
- **Flood Early Warning System**
- **SF Creek Multi Agency Coordination**
- **Public outreach with Communications Working Group**
- **Short term measures to provide flood protection**
- **Long term measures to provide flood protection**



Faber Tract marsh restoration actions:

Construct, vegetate, monitor, report, and maintain five earthen refugia islands in outer marsh

Restore, monitor, report, and maintain three berms





2018-11-12 13:05:07

IPC

BIG PICTURE: S.F. Bay–Pope-Chaucer Bridge Projects	Estimated Amount
S.F. Bay – Highway 101 ¹	\$76,277,000
Upstream of Hwy. 101 (replace Pope-Chaucer, Newell, widen channel) ²	\$34,270,000
Total Estimated Costs	\$110,547,000
Total funds available as of October 2018 ³	\$97,777,000
Funding needed to construct Upstream of Hwy. 101 ⁴	\$12,770,000

¹ Includes creek widening, floodwalls, levees, utilities, mitigations and Highway 101

² Assumes 25% contingency and 15% construction management costs

³ Assumes Caltrans Newell grant continues, CalOES FEMA second grant approved

⁴ Assumes \$1 million for Bay-Hwy. 101 and \$11.77 million for Upstream of Hwy. 101

- Costs above Funding Agreement for Bay-Hwy. 101 project**
 - + Costs to monitor, report and maintain Bay-101 restoration for years 2-10 (year 1 from Prop. 84 grant)**
 - + Costs to implement the Upstream of Hwy. 101 project selected for construction in EIR**
-

Comprehensive Agreement costs

Current funding provided by SCVWD and external grants

Potentially funded by: external grants, new finance district, Corps of Engineers, Member Agencies, private interests



Options to raise funds for construction by mid-2020

1. External grants

(2 grant apps to CalOES totaling \$8M, Prop. 1, 2018 statewide bond measures)

2. Contributions from SFCJPA Member Agencies

(of the committed \$56.4M from local agencies & grants, \$4.5M is from 3 cities and SMCFCDD)

3. Bond financing through:

- **Special Tax District** (~12 mo. post-decision, ~6 mo. Board/hearing/election process)
- **Assessment District** (~12 mo. post-decision, ~3 mo. Board/hearing/election process)
- **General Obligation Bonds** (by SFCJPA members, not JPA)
- **Enhanced Infrastructure Financing District** (at least one year)

4. Corps of Engineers (Feasibility Study/EIS to be released within two months)

5. Large private developers (cash/land contribution, or by assessment district)

6. Aggregated private flood insurance

S.F. Bay – Highway 101 Project INCOME and EXPENSES as of 10/24/18

Item	June 2016 Agreement	Change	Total
Total funding			\$44,377,351
Funds from SFCJPA member agencies	\$32,520,000		
Funds from grants	\$8,828,351	+ \$3,029,000	
Total costs to date			\$42,482,372
Cost of contracts managed by SFCJPA	\$9,724,000	+ \$1,173,000	
Cost of contracts managed by SCVWD	\$28,953,000		
Cost of change orders w/ merit		+ \$2,632,372	
Cost of claims under negotiation		+ \$3,465,192	
Funds remaining if current claims are paid in full			- \$1,570,213

