

Stormwater Management Oversight Committee

Thursday, February 2, 2023 1 pm to 3 pm Special Meeting

Community Meeting Room at City Hall

****BY IN PERSON and VIRTUAL TELECONFERENCE ***
https://zoom.us/join Meeting ID: 990 9847 5635 Phone: 1(669)9006833

Pursuant to the provisions of California Governor's Executive Order N-29-20, issued on March 17, 2020, to prevent the spread of Covid-19, this meeting will be held by virtual teleconference and in person.

Agenda posted in accordance Government Code Section 54954.2(a) or 54956.

PUBLIC COMMENT

Members of the public who wish to participate by computer or phone can find the instructions at the end of this agenda. To ensure participation in a particular item, we suggest calling in or connecting online 15 minutes before the item you wish to speak on.

Call to Order (5 min)

Oral Communications (5 min)

Members of the public may speak to any item NOT on the agenda. A reasonable time restriction may be imposed at the discretion of the Committee Chair.

New Business (95 min)

- 1. Verbal update on Committee Member Recruitment (5 min)
- 2. Approval of FY2022 Budget Actuals and review of FY23 Adopted Budget (30 minutes)
- 3. Staff update on Stormwater Management Capital Improvement Program and discussion (30 min)
- 4. Staff informational update on recent storms and response (30 min)
 - a. San Franciscquito Creek Joint Power Authority Board meeting on February 16th will feature study session on the Reach 2 project

- b. Sediment Issue
- c. Other issues

<u>Committee Member Comments and Announcements</u> (15 min)

Tentative Agenda Items for Future Meetings and Review Action Items (5 min)

Adjournment

AMERICANS WITH DISABILITY ACT (ADA)

Persons with disabilities who require auxiliary aids or services in using City facilities, services or programs or who would like information on the City's compliance with the Americans with Disabilities Act (ADA) of 1990, may contact (650) 329-2550 (Voice) 24 hours in advance.

Public Comment Instructions

Members of the Public may provide public comments to teleconference meetings via email, teleconference, or by phone.

- 1. Written public comments may be submitted by email to the staff liaison, Karin North at karin.north@cityofpaloalto.org.
- 2. Spoken public comments using a computer will be accepted through the teleconference meeting. To address the Council, click on the link below to access a Zoom-based meeting. Please read the following instructions carefully.
 - A. You may download the Zoom client or connect to the meeting in browser. If using your browser, make sure you are using a current, up-to-date browser: Chrome 30+, Firefox 27+, Microsoft Edge 12+, Safari 7+. Certain functionality may be disabled in older browsers including Internet Explorer.
 - B. You may be asked to enter an email address and name. We request that you identify yourself by name as this will be visible online and will be used to notify you that it is your turn to speak.
 - C. When you wish to speak on an Agenda Item, click on "raise hand." The Clerk will activate and unmute speakers in turn. Speakers will be notified shortly before they are called to speak. When called, please limit your remarks to the time limit allotted.
 - D. A timer will be shown on the computer to help keep track of your comments.
- 3. Spoken public comments using a smart phone will be accepted through the teleconference meeting. To address the Council, download the Zoom application onto your phone from the Apple App Store or Google Play Store and enter the Meeting ID below. Please follow the instructions B-E above.

4. Spoken public comments using a phone use the telephone number listed below. When you wish to speak on an agenda item hit *9 on your phone so we know that you wish to speak. You will be asked to provide your first and last name before addressing the Council. You will be advised how long you have to speak. When called please limit your remarks to the agenda item and time limit allotted.

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FEBRUARY 3, 2022

www.cityofpaloalto.org

Budget 2018-2022 Actuals

STORMWATER MANAGEMENT PROGRAM Fiscal Year 2023 Budget

Adopted Adopted Adopted Adopted Actuals Actuals Actuals **Actuals** Actuals Budget Budget Budget Budget (Amounts in 1000s, as of February 2023) Budget Year 1 Year 1 Year 2 Year 2 Year 3 Year 3 Year 4 Year 4 Year 5 Year 5 2018 2019 2019 2020 2020 2021 2021 2022 2022 Revenue Collected 6,927 7,635 7,735 7,838 7,857 Fee Revenue 6,912 7,128 7,195 7,449 7,494 Interest Earnings 130 154 130 126 226 159 153 146 153 155 57 55 72 Development Fees, Violation Fines, Other (Includes Grant Funding)** 121 120 121 49 121 697 67 7,953 7,178 7,123 7,378 7,376 7,796 7,702 7,909 8,688 8,079 Total Revenue Base Components 4,262 3,893 4.244 2,778 6,368 6,866 6,500 6,785 7,669 6,014 Base Program (Incl. Flood Control, Engineering and Administrative Support, Water Quality, Emergency Response) 4,877 2,776 2,555 2,645 1,428 4,861 5,208 5.684 6,125 4.740 1,338 1,274 Storm Drainage Maintenance 1,486 1,599 1,350 1,507 1,658 1,623 1,101 1,544 Project & Infrastructure 2,010 1,873 3,261 950 2,455 1,159 3,941 6,267 1,445 Capital Improvements Program* 1,412 412 466 1.871 2,311 4,433 Recurring System Repair (SD-06101)** 400 400 182 182 424 305 437 280 225 972 Debt Service for Past Capital Projects 947 947 949 259 949 217 949 172 949 131 158 158 165 165 179 179 155 Capital Program Engineering Support 164 155 366 380 429 380 380 197 380 144 Green Stormwater Infrastructure (GSI) GSI - CIP Design/Construction 330 366 380 340 3 250 197 150 144 50 49 40 130 85 GSI - Consulting Services GSI - Other unassigned tasks 145 19 125 Innovative Project 125 125 125 3 125 15 Innovative Project - GSI Consulting Services & Outreach 100 100 100 3 100 19 100 15 Innovative Project - Rebates 25 25 25 25 25 Total Expenses 6,272 5.766 7.505 3.728 8.823 8.025 10.441 9.943 13,936 7,459

Adopted	YTD	Projection
Budget	(1/18/2023)	•
Year 6	Year 6	Year 6
2023	2023	2023
8,167	4,438	7,101
110	40	145
1,913	1	1
10,190	4,479	7,247
9,903	2,454	3,926
8,071	1,498	2,397
1,832	956	1,530
7,933	902	3,531
5,860	83	760
464	550	1,486
949	38	949
155	155	155
380	51	143
150	51	-
85		143
145		-
125	25	38
100	25	31
25		7
17,836	3,356	7,457
	-,	.,

There are carry-forwards and re-appropriations included in the numbers shown

STORMWATER MANAGEMENT PROGRAM Fiscal Year 2023 Budget

(Amounts in 1000s, as of February 2023)

There are carry-forwards and re-appropriations included in the numbers shown

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Fee Revenue	
Interest Earnings	
Development Fees, Violation Fines, Other (Includes Grant Funding)**	

Total Revenue

Base Components
Base Program (Incl. Flood Control, Engineering and Administrative
Support, Water Quality, Emergency Response)
Storm Drainage Maintenance

Project & Infrastructure
Capital Improvements Program**
Recurring System Repair (SD-06101)**
Debt Service for Past Capital Projects
Capital Program Engineering Support
Green Stormwater Infrastructure (GSI)
GSI - CIP Design/Construction
GSI - Consulting Services
GSI - Other unassigned tasks
Innovative Project
Innovative Project - GSI Consulting Services & Outreach
Innovative Project - Rebates

Total Ex	penses			
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		•
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85		143
145		-
125	25	38

25

3,356

31

7,457

100

17,836

*FY 2023 Projections

Stormwater Management

Project Number	Project Title	FY 2022 Budget	FY 2022 Estimate	FY 2023 Adopted	FY 2024	FY 2025	FY 2026	FY 2027	5-Year Total
		5	OURCE OF F	FUNDS					
Revenue fro	om the State of California								
SD-22002	Trash Capture Device Installation	613,000	0	613,000	0	0	0	0	613,000
Revenue fro	om the State of California Total	\$613,000	\$0	\$613,000	\$0	\$0	\$0	\$0	\$613,000
Total Source	es	\$613,000	\$0	\$613,000	\$0	\$0	\$0	\$0	\$613,000
			USE OF FU	NDS					
Capacity In	nprovements								
SD-21000	Corporation Way System Upgrades and Pump Station	3,586,965	622,765	3,182,200	0	0	0	0	3,182,200
SD-26000	East Meadow Circle Connection to Adobe Creek Pump Station	0	0	0	0	0	73,000	662,800	735,800
SD-22000	East Meadow Drive System Upgrades	0	0	0	65,200	424,000	0	0	489,200
SD-19000	Loma Verde Avenue Trunk Line Improvements	3,364	0	0	0	0	0	0	0
SD-24000	Louis Road System Upgrades	0	0	0	0	451,700	1,497,000	1,867,800	3,816,500
SD-20000	West Bayshore Road Pump Station	682,906	332,906	1,134,000	1,066,100	0	0	0	2,200,100
SD-23000	West Bayshore Road Trunk Line Improvements	49,595	43,795	891,400	1,538,500	0	0	0	2,429,900
Capacity In	nprovements Total	\$4,322,830	\$999,465	\$5,207,600	\$2,669,800	\$875,700	\$1,570,000	\$2,530,600	\$12,853,700
System Imp	provements								
SD-22001	Green Stormwater Infrastructure	500,800	0	545,000	0	0	0	0	545,000
SD-22002	Trash Capture Device Installation	613,000	107,000	550,000	0	0	0	0	550,000
System Imp	provements Total	\$1,113,800	\$107,000	\$1,095,000	\$0	\$0	\$0	\$0	\$1,095,000
System Rel	habilitation								
SD-06101	Storm Drainage System Replacement And Rehabilitation	2,354,142	1,701,042	1,233,100	579,100	764,000	686,700	641,900	3,904,800
System Rel	habilitation Total	\$2,354,142	\$1,701,042	\$1,233,100	\$579,100	\$764,000	\$686,700	\$641,900	\$3,904,800
Total Uses		\$7,790,772	\$2,807,507	\$7,535,700	\$3,248,900	\$1,639,700	\$2,256,700	\$3,172,500	\$17,853,500



FY 2024 BUDGET PROCESS UPDATE

SWM Fee Revenue

- Proposed Increase (Dec-Dec CPI): 4.9%
- Finance Committee in March

Operating Expenses

Will review in April

Capital Expenses

• Will review in April





Storm Water Management Oversight Committee

MEMORANDUM

Date: February 2, 2023

To: Honorable Finance Committee of the Palo Alto City Council

From: Members of the Storm Water Management Oversight Committee

Subject: Review of Fiscal Year 2022 Storm Drainage Fund Expenditures

As directed by the City Council, the Committee met to discuss the Fiscal Year 2022 Storm Drainage (Stormwater Management) Fund expenditures on Thursday, February 2, 2023. Prior to the meeting, Public Works staff provided informational materials about the approved 2017 ballot measure and the proposed budget for the Committee's review. During the meeting, staff presented information and answered questions from the Committee members.

We have reviewed the expenditures for Fiscal Year 2022 and compared them with the provisions of the Storm Water Management Fee approved by Palo Alto property owners in 2017. We find that the attached spreadsheet describing the expenditures for Fiscal Year 2022 fairly summarizes the use of the revenue generated by the Storm Water Management Fee and that the expenditures are compatible with the provisions of the ballot measure. The Committee encourages staff to adjust and promote the innovative programs to achieve the City's goals for innovative green infrastructure.

Attachment A:

Stormwater Management Program – Fiscal Year 2022 Actual Expenditures

STORMWATER MANAGEMENT PROGRAM Fiscal Year 2023 Budget

(Amounts in 1000s, as of February 2023) Revenue Collected Fee Revenue Interest Earnings Development Fees, Violation Fines, Other (Includes Grant Funding)**	Adopted Budget Year 6 2023 8,167 110 1,913	YTD (1/18/2023) Year 6 2023 4,438 40 1	Year 6 2023 7,101 145 1
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Total Expenses	17,836	3,356	7,457

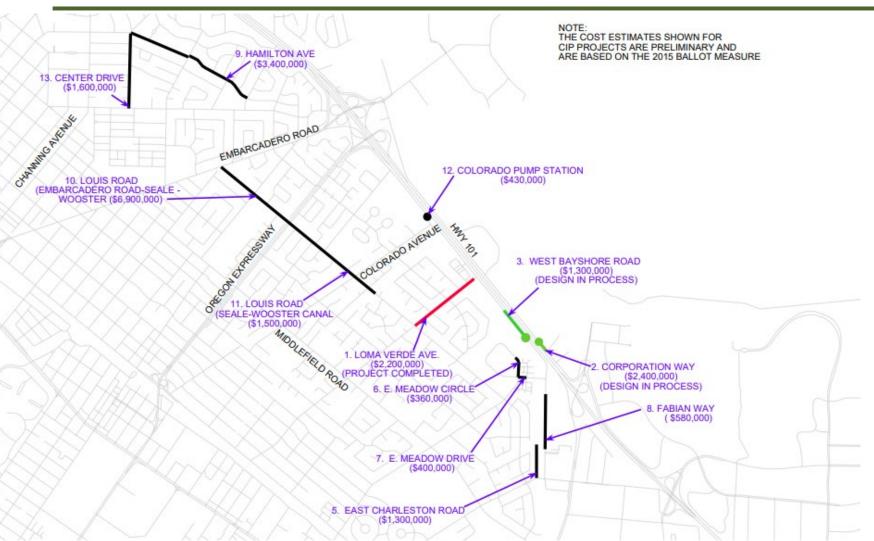




February 2, 2023

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2017 BALLOT MEASURE CIP PROJECTS



OBJECTIVE: Implement projects that will reduce flooding risk

- 13 PROJECTS / 15 YEARS (2032)
- 9 PIPE UPGRADES
- TWO NEW PUMP STATIONS
- REMOVAL OF ONE EXISTING STATION

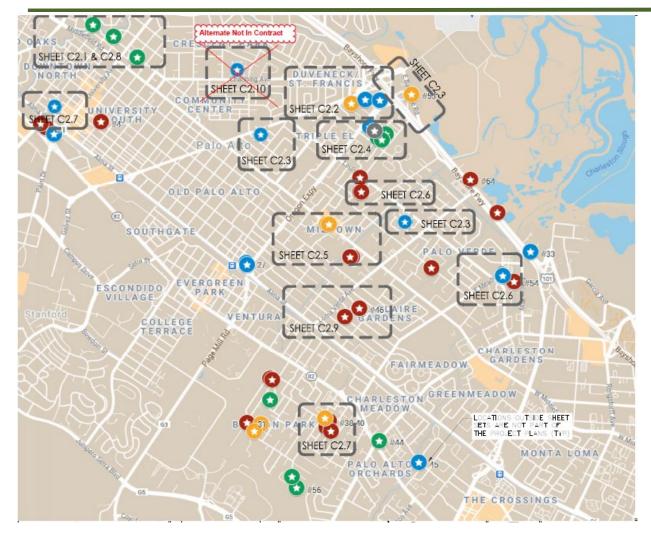






STORM DRAIN SYSTEM REPLACEMENT AND REHABILITATION PROJECT

2022 System Replacement & Rehabilitation Project - Completed



- Work was done by Golden Bay
- 12 locations throughout the City
- Notice of Completion issued on 11/28/22.
- Approx cost \$1.4M
- Over 1K LF of pipe replaced
- Over 2K LF of pipe rehabilitated
- One pipe segment (Waverley and Campesino) to be replaced with FY23 Street Resurfacing.







PUMP STATIONS & SYSTEM UPGRADES (SD-20000, SD-21000, SD-23000



JAN 2023 AT EAST BAYSHORE ROAD

PROJECT STATUS UPDATE

- December 2022 received two signed agreements, not notarized from private owner
- Not the latest version
- Continue to check with our contact to secure easements.

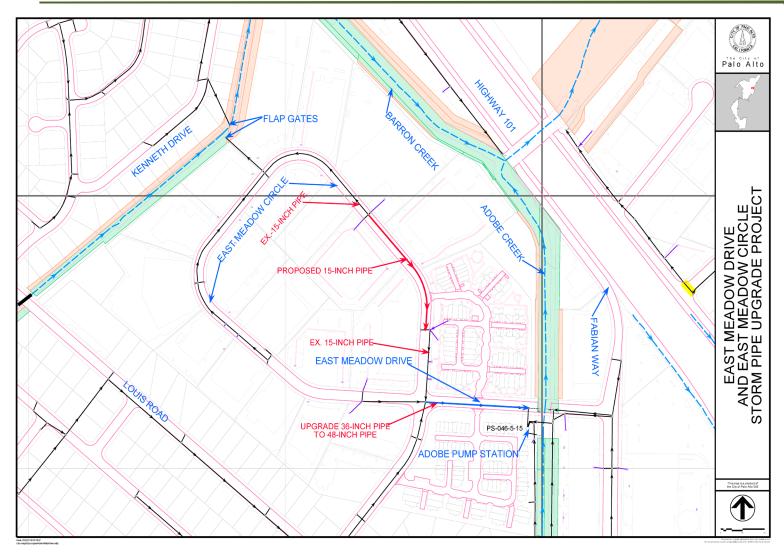






East Meadow Drive Capacity Upgrades & East Meadow Circle Connect to Adobe Pump Station

East Meadow Circle (SD-26000) and East Meadow Drive (SD-22000)



PROJECT OBJECTIVES

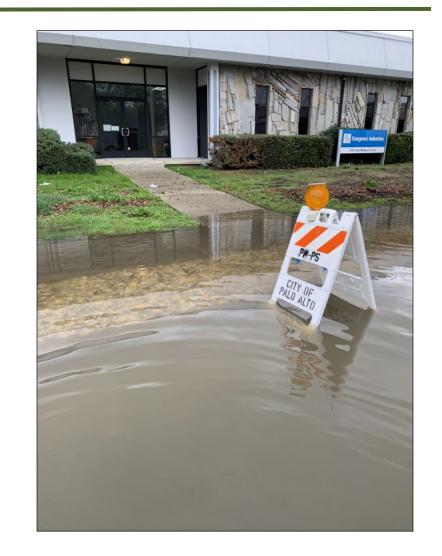
- 15-inch Pipe Gravity Outfall to Barron Creek Does Not Have Capacity to Discharge Runoff into the Creek When Creek Water Surface is Very High.
- Install New 15-inch Pipe on East Meadow Circle to Allow Overflow to Adobe Pump Station on East Meadow Drive.
- Upsize 36-inch Pipe on East Meadow Drive to 48-inch Pipe to Increase Capacity to Accommodate Overflow from East Meadow Circle and to Accommodate 10-year low.



East Meadow Circle (SD-26000) and East Meadow Drive (SD-22000)

PROJECT PURPOSE

- Prevent Flooding on East Meadow Circle Due to Back Up Flow from the System that Flows to Barron Creek When Water Surface in the Creek is Very High
- Upgrade and Install New Storm System at East Meadow Drive and East Meadow Circle to Accommodate the 10-Year Flow in the Pipe System.
- Advance these two projects due to delays with higher priority pump station and upgrades projects.
- Approximate Cost \$1.1M



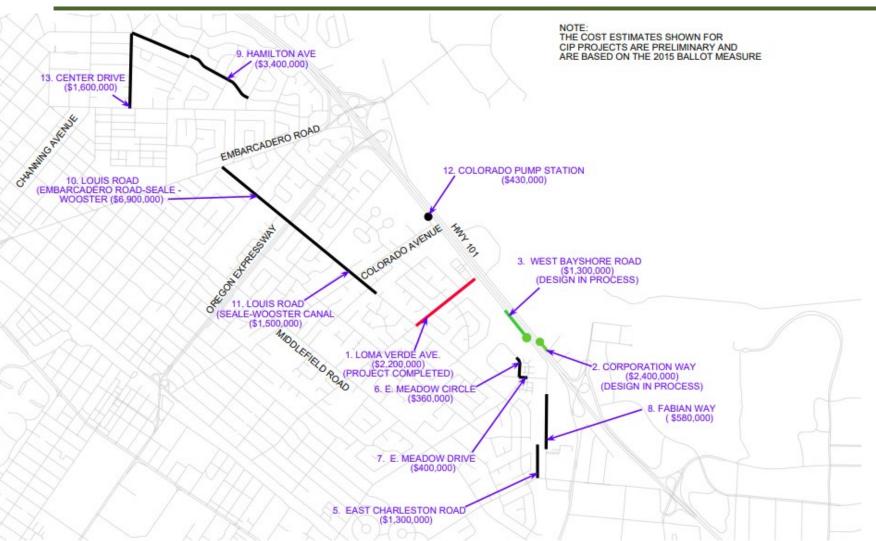
East Meadow Circle (SD-26000) and East Meadow Drive (SD-22000)

PROJECT SCHEDULES

- Complete Design by May 2023
- Solicit Bids June 2023
- Award Contract August 2023
- Commence Construction October 2023
- Complete Construction October 2024



2017 BALLOT MEASURE CIP PROJECTS - Next Project



Considerations due to recent storm events

- Louis Road was scheduled to follow Pump Stations
- Consider advancing
 Hamilton and Center
 after E. Meadow Cir and
 Drive instead.



Staff informational update on recent storms and response:

- 1. City Manager's storm response briefing at January 9, 2023 City Council meeting. The briefing shared details about the City's continued response to the recent series of storms and their impact to the community. Watch the City Manager's briefing recording and learn more here and discussion. (3:15-3:36)
- San Franciscquito Creek Joint Power Authority February 16 meeting will provide a "deep dive" study session on the <u>Reach 2 project</u> – Highway 101 to the Pope-Chaucer Bridge. (https://www.sfcjpa.org/2023-board-meetings
 San Franciscquito Creek Joint Power Authority February 16 meeting will provide a "deep dive" study session on the <u>Reach 2 project</u> – Highway 101 to the Pope-Chaucer Bridge. (https://www.sfcjpa.org/2023-board-meetings
- 3. Sediment discussion by staff
- 4. Other items



CITY COUNCIL Special Meeting Monday, January 09, 2023 Council Chambers & Hybrid 6:00 PM

AA1. Discussion of the City's Response to Recent Storms





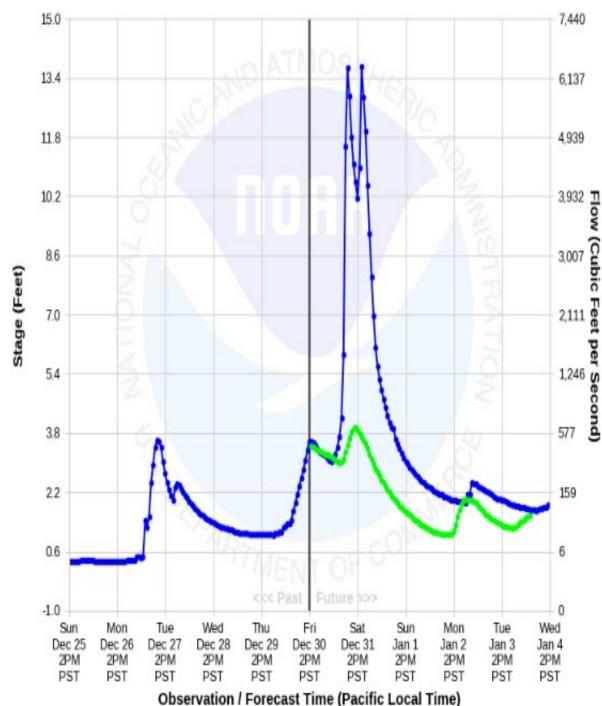


JANUARY 9, 2023

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FORECAST VS. ACTUAL -DECEMBER 31





- NOAA predicted rainfall for NYE Friday, December 30 storm: <u>2</u> inches
- Actual observed rainfall in NYE storm: 6 inches
- The tripled rainfall caused a peak flowrate of about 6,300 cfs (more than 10 times the predicted 600 cfs peak)

EMERGENCY RESPONSE



- Street closures due to flooding
- Traffic accidents & rescue
- Trees down in roadways

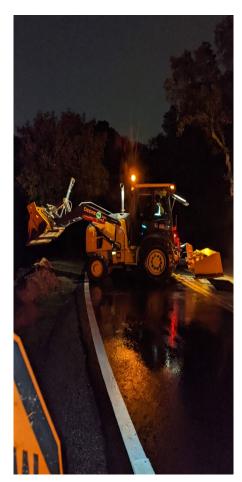






STORM PREPARATION & RESPONSE









Storm Preparation examples included:

- Delivered materials for 100,000 sandbags
- Clearing fallen trees/debris/mud from roadways
- Removing debris from creeks and storm drains

STORM PREP & RESPONSE

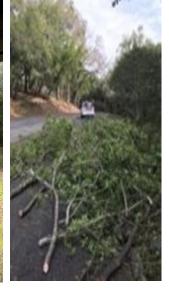


PALO ALTO



- Removing debris
- Checking trail systems for mudslides, other hazardous conditions due to the storms
- Several trails will be closed through June due to mudslides so that repairs can be made.









Foothills
Nature
Preserve is
closed
tomorrow
(January 10)

EMERGENCY RESPONSE: POWER OUTAGES



Power outage response:

- One power outage continues with restoration time estimated for 8 p.m. this evening, impacting 21 customers
- 20 outages since Dec. 31
- Customers impacted total: 5,800
- Most outages due to downed trees.



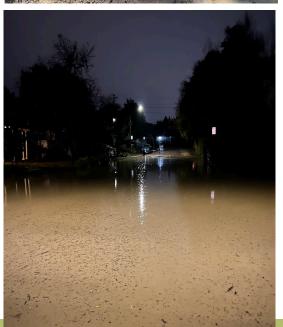


STORM IMPACT SUPPORT FOR RESIDENTS











- Community Resource Center opened Jan. 4 – 5 with 15 visitors (7 stayed overnight). Center also open today (1/9) during the day.
- 13 reports of damaged homes.
- City building officials have begun assessing home damage caused by flooding.
- Local hotels provided emergency rates
- Staff established a webform to share damage, at www.cityofpaloalto.org/reportfl ooddamage

DEPARTMENTS ENGAGED IN STORM PREP & RESPONSE



- City Manager's Office Overall direction, communication, resource coordination
- Public Works Logistics, creek monitoring, storm drain clearing, tree and street/traffic response
- Emergency Services Preparation and response facilitation, after-action review
- Administrative Services Supplies procurement, financial tracking, lodging
- Community Services Open space safety, human support services
- Fire Preparation and emergency rescue response
- Planning & Development Services Building and site inspections
- Police Preparation communication, incident response
- Transportation Parking resources
- Utilities Emergency response and service restoration, outage communication

NEIGHBORS HELPING NEIGHBORS

Numerous examples of volunteerism demonstrated:

- Emergency Service Volunteers helped reach residents to ensure they are informed of possible storm-related impacts, by going door to door.
- Thank you to Youth Community Services (YCS) for their support, especially with helping community members fill sandbags.
- Residents sharing expertise on storm forecasts and creek effects and interpreting them for neighbors





REAL-TIME COMMUNICATIONS



- Real-time communications continues, daily updates, FAQs
- Door-to-door outreach, printed flyers
- Emergency Alerts
- Nixle Alerts
- Special storm editionUplift Local













WHAT'S CHANGED SINCE 1998



Downstream improvements and Stormwater (measure) improvements.

- SFC Reach 1 2018 project removed flood risk at Highway 101 and downstream,
 JPA Highway 101 to Bay and Caltrans Highway 101 projects increased capacity to flows that exceed 9,600 cfs
- New Pump stations completed: allows water to be pumped back into creeks
 - San Francisquito Creek pump station (2009)
 - Matadero Creek pump station (2019)
 - Channing and Lincoln Avenue storm drain upgrades (2012-2018), fiber optics system upgrades (2018), and Guinda flap gate improve efficiency of the system (2015)

LOOKING AHEAD



Looking Ahead:

- Continue coordinated storm and emergency response to storm series
- Address funding gap to complete Newell Road Bridge renovations
- Complete Pope/Chaucer Bridge replacement, other SFC JPA projects
- Complete City of Palo Alto storm water CIP

STAY INFORMED



Daily Updates through the Storm Events at: CityofPaloAlto.org/FloodAlert

Gain Real-Time Storm Information:

CityofPaloAlto.org/Connect

- *Follow the City of Palo Alto on Nextdoor, Twitter, Facebook
- *Sign up for SCCAlert, the City's emergency alert system
- *Follow Palo Alto Police on Nixle

STAY INFORMED

Quick Online Resources:



CityofPaloAlto.org/FloodAlert

- Daily updates
- Printed informational flyers
- Important phone numbers to report issues
- Monitor creek levels online
- Answers to questions about flood risk
- Links for storm forecasts, power outages, other resources
- Videos on flood stages







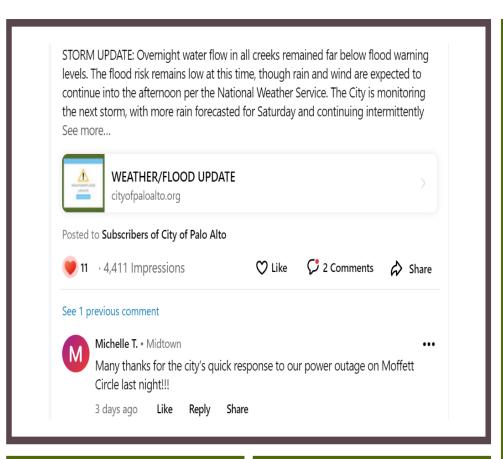


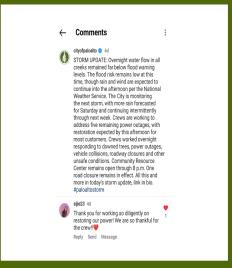


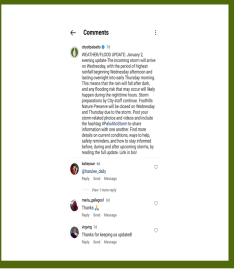












← Comments



cityofpaloalto 🤣 7d

Staff is removing mud and debris from streets near the creek affected by flooding, which will help get the storm drain system ready for the next storm. Did you miss our latest update? Link in bio! Share your storm-related photos and use hashtag #paloaltostorm



candacewo 4d

The workers have been absolutely fabulous!! Thank you, thank you ...

Reply Send Message

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