



## **COLMA CREEK CITIZENS ADVISORY COMMITTEE MEETING**

**Tuesday, March 9, 2021 at 3:00 pm**

Due to the risk of COVID-19 transmission and local and State guidelines, this meeting will be held remotely. To join the meeting, click on:

**<https://us02web.zoom.us/j/81773451989?pwd=Q3lnQWtHQzdSNU11ajBOQUI3RmozUT09>**

**or call 669-900-6833   Meeting ID 817 7345 1989   Password: 751253**

### **AGENDA**

- I.     Roll Call
- II.    Approve minutes of December 8, 2020 meeting
- III.   Public Comment
- IV.    Update on Colma Creek Flood Zone Projects and Maintenance Activities
  - a. Project Summaries, Locations, and Budgets
  - b. Project Update: City of South San Francisco Orange Memorial Park Stormwater Capture Project
  - c. Maintenance Agreements Update
- V.     Update to the 2019 Colma Creek Hydrology & Hydraulic Modeling Analysis Report
- VI.    Adjournment

**NEXT MEETING: Tuesday, June 8, 2021, 3:00 p.m.**

San Mateo County Flood and Sea Level Rise Resiliency District  
Colma Creek Citizens Advisory Committee

**AGENDA ITEM 2**

**DRAFT Meeting Minutes**  
**Tuesday, December 8, 2020**

**AGENDA:**

**I. CALL TO ORDER**

Helen Fisicaro called to order the regular meeting of the Colma Creek Citizens Advisory Committee at 3:00 pm on Tuesday, December 8, 2020 via Zoom.

**II. ROLL CALL**

**Members:**

**Present**

- ☒
- ☒
- ☒
- ☒
- ☐
- ☒
- ☒
- ☒
- ☒

**Absent**

- ☐ Helen Fisicaro, Chair – Town of Colma
- ☐ Sue Vaterlaus – City of Pacifica
- ☐ Mike Futrell – City of South San Francisco
- ☐ Jovan Grogan – City of San Bruno
- ☒ Raymond Buenaventura, City of Daly City
- ☐ Gail DeFries, Member at Large – City of Daly City
- ☐ Ed Bortoli, Member at Large – City of South San Francisco
- ☐ Richard Irli, Member at Large – City of South San Francisco
- ☐ Ryan Mayfield, Member at Large – City of South San Francisco

**Staff:**

**Present**

- ☒
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- ☒

**Absent**

- ☐ Len Materman – San Mateo County Flood and Sea Level Rise Resiliency District (OneShoreline)
- ☐ Colin Martorana – OneShoreline
- ☐ Makena Wong – OneShoreline
- ☐ Mark Chow – County of San Mateo, Department of Public Works
- ☐ Ann Stillman – County of San Mateo, Department of Public Works
- ☒ Jim Porter – County of San Mateo, Department of Public Works
- ☐ Dave Pine – County of San Mateo, Board of Supervisors
- ☐ Michael Barber – County of San Mateo, Supervisor Dave Pine's Office
- ☐ Brad Donohue – Town of Colma
- ☐ Richard Chiu – City of Daly City
- ☐ Eunejune Kim – City of South San Francisco
- ☐ Catherine Misener – City of South San Francisco
- ☐ Kim Santos – City of South San Francisco
- ☐ Matthew Ruble – City of South San Francisco
- ☐ Ken Anderson – City of South San Francisco
- ☐ Dave Bockhaus – City of South San Francisco
- ☐ Louis Langi – City of South San Francisco

**III. APPROVAL OF MINUTES OF SEPTEMBER 8, 2020 MEETING**

Minutes of the September 8, 2020 meeting were approved.

**IV. PUBLIC COMMENT**

No comments from the public.

**V. UPDATE ON CAPITAL IMPROVEMENT PROGRAM AND BUDGET**

District staff presented updates on CIP projects and the corresponding budget figures (both included in the meeting packet) for the three projects in the flood zone that it is evaluating or taking the lead on:

- Project #2: Utah Ave Project – Work this fiscal year and next, additional work on design and permitting for Utah Ave, need additional funding from FEMA
- Project #3: Produce Ave Project – Wall compromised, opportunities to do more than replace wall; additional design work pushed out to next year
- Project #8: Master Plan Coordination with SSF – Communication with SSF re: plans for Creek & City
- Comments:
  - Len looked at 100-year event with sea level rise, contemplating additional hydraulic analysis for different events
  - Mike announced meeting on Friday with U.S. Army Corps of Engineers and SFO about SFO's sea level rise plans, at present exploring tide gate to protect coastline; suggested Len attend future meetings to determine impact on Colma Creek

County of San Mateo Department of Public Works staff presented updates on CIP Projects/Maintenance that it manages on behalf of the District:

- Mitigation work is continuing:
  - Project #4: Discharge pipes discussed in past and plan to complete next year
  - Project #6: Trash Capture Device (part of SSF's Orange Memorial Park Stormwater Capture Project)
  - Project #7: Dredging from Utah Ave to Navigable Slough is being monitored
- Helen pointed out that MOU extensions are a part of maintenance; has that been forwarded in any way?
  - Len is working with Colma and SSF; maintenance primarily related to trash, encampments, and graffiti are typically handled by Cities who are reimbursed by the District
  - Working on new versions of agreement, Town of Colma is underway (drafting) and slated to be completed by end of January
  - SSF agreement to go to council tomorrow; Mike does not anticipate push back from City Council

#### **VI. UPDATE ON PROJECTS AND MAINTENANCE ACTIVITIES**

District staff highlighted the Orange Memorial Park Stormwater Capture Project. The permit agreement for this project is on council agenda for SSF Council meeting tomorrow; goes to District Board on Monday of next week.

#### **VII. DISCUSSION OF ADVISORY COMMITTEE MEMBERSHIP AND TERMS**

- Jovan Grogan and Richard Irli – terms expiring in March
- Jovan Grogan confirmed as permanent replacement for Irene
- Richard Irli undecided on additional term, will inform City Manager of decision in next month or so
- Ray Buenaventura named as official Daly City representative and on term until 2022; council reorg pending, Richard Chiu will update if this changes
- Ryan Mayfield approved by SSF Council in 2020 when District existed, District Board must approve at future meeting (January)

#### **VIII. APPROVE 2021 COMMITTEE MEETING DATES: MARCH 9, JUNE 8, SEPTEMBER 14, DECEMBER 14**

- Motion carried

#### **ADJOURNMENT**

**NEXT MEETING** – Tuesday, March 9, 2021, 3:00 p.m.

	AGENDA ITEM 4	Total of Prior 5 Years (FY14-15 through 18-19)*	2019-20 (Actual)*	2020-21 (Estimated)	2021-22 (Estimated)	2022-23 (Estimated)	
Revenue		\$ 21,130,749	\$ 5,350,021	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	
Project Expenditures							
Project Number	Project Name						Total (FY14-15 through 22-23)
1	Colma Creek Master Planning & Coordination with SSF General Plan						
	Staff engagement with SSF and stakeholders	\$ -	\$ -	\$ 15,000	\$ 35,000	\$ -	\$ 50,000
	Technical analysis and Master Plan preparation	\$ 71,381	\$ 14,568	\$ 10,000	\$ 50,000	\$ -	\$ 145,949
	Project Administration	\$ -	\$ -	\$ -	\$ 21,250	\$ -	\$ 21,250
	Project Total						\$ 217,199
1a	Utah Avenue to Navigable Slough Flood Protection Project						
	Preliminary Study	\$ 53,790	\$ -	\$ -	\$ 100,000	\$ -	\$ 153,790
	Design & Permitting	\$ 298,796	\$ 5,179	\$ 10,500	\$ 200,000	\$ 200,000	\$ 714,474
	Construction & Mitigation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Project Administration	\$ 162,146	\$ 105,285	\$ -	\$ 100,000	\$ 50,000	\$ 417,431
	Project Total						\$ 1,285,695
1b	Produce Avenue Area Channel Bank Project						
	Preliminary Study	\$ 105,926	\$ -	\$ -	\$ 200,000	\$ -	\$ 305,926
	Design & Permitting	\$ 95,301	\$ -	\$ -	\$ 400,000	\$ -	\$ 495,301
	Construction & Mitigation	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 2,000,000
	Project Administration	\$ 25,612	\$ 19,831	\$ 5,000	\$ 150,000	\$ 500,000	\$ 700,443
	Project Total						\$ 3,501,670
1c	Long-term Planning for Navigable Slough						
	Staff engagement with SSF and stakeholders	\$ -	\$ -	\$ 10,000	\$ 15,000	\$ -	\$ 25,000
	Technical analysis and Master Plan preparation	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ 50,000
	Project Administration	\$ -	\$ -	\$ -	\$ 16,250	\$ -	\$ 16,250
	Project Total						\$ 91,250
2	Channel Discharge Pipe Repair/ Replacement (between U.S. Highway 101 & Utah Ave)						
	Preliminary Study	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Design & Permitting	\$ -	\$ 67,308	\$ 10,000	\$ -	\$ -	\$ 77,308
	Construction	\$ -	\$ -	\$ -	\$ 326,618	\$ -	\$ 326,618
	Project Administration	\$ -	\$ 69,799	\$ 9,000	\$ 81,655	\$ -	\$ 160,453
	Project Total						\$ 564,379
3	El Camino Real Culvert and Mission Road Diversion Structure						
	Design	\$ 80,441	\$ -	\$ -	\$ -	\$ -	\$ 80,441
	Construction	\$ 91,883	\$ -	\$ 165,000	\$ 450,000	\$ -	\$ 706,883
	Project Administration	\$ -	\$ 1,479	\$ -	\$ 112,500	\$ -	\$ 113,979
	Project Total						\$ 901,304
	Total Project Expenditures/Estimates	\$ 985,277	\$ 283,447	\$ 234,500	\$ 2,308,273	\$ 2,750,000	\$ 6,561,497
Maintenance Activities Expenditures							
Activity Number	Activity Name						Total (FY14-15 through 22-23)
1	Mitigation Site Maintenance (Sites 2, 3 & 4)						
	Annual Maintenance Activities	\$ 395,085	\$ 3,910	\$ 1,000	\$ 90,000	\$ 90,000	\$ 579,995
	Design & Permitting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Construction	\$ -	\$ 15,212	\$ -	\$ -	\$ -	\$ 15,212
	Project Administration	\$ -	\$ 103,707	\$ 23,000	\$ -	\$ -	\$ 126,707
	Project Total						\$ 721,915
2	Sediment Dredging (Between Utah Ave. to Navigable Slough)						
	Sediment Study & Monitoring	\$ 40,400	\$ -	\$ -	\$ -	\$ 20,000	\$ 60,400
	Design & Permitting	\$ 8,593	\$ -	\$ -	\$ -	\$ -	\$ 8,593
	Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Project Administration	\$ 12,248	\$ -	\$ -	\$ -	\$ 5,000	\$ 17,248
	Project Total						\$ 86,241
3	NPDES Municipal Regional Permit Trash Reduction (Contribution to Full Trash Capture Device)						
	Preliminary Study	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Construction	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000
	Project Administration	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000
	Project Total						\$ 250,000
5c	BART Maintenance Agreement (Mission Road - Oak Avenue)						
	Scope Development	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Design & Permitting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Construction	\$ 65,386	\$ -	\$ -	\$ 150,000	\$ -	\$ 215,386
	Project Administration	\$ 21,994	\$ -	\$ -	\$ 37,500	\$ -	\$ 59,494
	Project Total						\$ 274,880
	Total Maintenance Activities Expenditures/Estimates	\$ 543,706	\$ 122,830	\$ 24,000	\$ 277,500	\$ 365,000	\$ 1,333,035
	Total Expenditures/Estimates	\$ 1,528,982	\$ 406,277	\$ 258,500	\$ 2,585,773	\$ 3,115,000	\$ 7,894,532
Fund Balance at Ending of Fiscal Year			\$ 26,031,019				

\*Expenditures for FY14-15 through FY19-20 do not include staff time



**Colma Creek Citizens Advisory Committee Meeting**  
**Tuesday, March 9, 2021 3:00 pm (Remote Meeting)**

**Status of the Colma Creek Flood Zone Projects and Maintenance Activities**

A reference map of all Colma Creek Flood Zone Projects and Maintenance Activities (Appendix A) is enclosed. Questions on any of the material referenced below can be discussed at this Committee meeting.

**Status of Projects:** Non-recurring large planning or construction efforts led by the San Mateo County Flood and Sea Level Rise Resiliency District (District) or by the County on behalf of the District.

**1. Colma Creek Master Planning and Coordination with City of South San Francisco's General Plan**

Since December, the District has met twice with City of South San Francisco (City) planning staff and consultants to discuss opportunities to improve Colma Creek in concert with the City's General Plan update. These discussions were focused on flood-prone sites along the Creek where either the City or District has land rights, where the City is contemplating land use changes, or where new private developments are proposed. These conversations have been productive, and the District is looking forward to continuing to engage with the City to identify sites of interest that will help transform Colma Creek into a community asset. Potential sites of interest include the areas surrounding the three projects listed below:

**a. Utah Avenue to Navigable Slough Flood Protection Project**

The District is drafting a letter to Cal OES to request a three-year extension to February 2025 of a \$3 million Hazard Mitigation Grant to San Mateo County. (The letter to Cal OES would come from the County, and the grant cannot be transferred to the District until a Local Hazard Mitigation Plan is adopted by the District. In the interim, the County will handle documentation related to the grant. To become eligible for direct FEMA grant awards, the District is currently working to part of a Local Hazard Mitigation Plan.) This project site is also an area of interest regarding the City's General Plan, which will determine the revised project scope to be submitted to Cal OES. Should Cal OES grant this request, it would recommend this approach to FEMA, which will review the revised project scope and any related costs, benefits, and environmental issues.

**b. Produce Avenue Area Channel Bank Project**

The project area continues to be the subject of discussions between the District and the City concerning its General Plan update and neighboring redevelopment project.

**c. Long-term Planning for Navigable Slough**

Addressing existing and future flood threats from Navigable Slough, while also improving community access to the areas adjacent to the Slough, has been another area of discussion in parallel with the City's discussions with the U.S. Army Corps of Engineers.

**2. Channel Discharge Pipe Repair/Replacement Project between U.S. Highway 101 and Utah Avenue**

This project aims to repair or replace the deteriorated discharge pipes along this segment of the channel. Per the Colma Creek Long-term Maintenance Project Permit, this project needs to be completed by March 2022. County staff reviewed this project with the District in early August 2020 and it was approved to move forward. City staff recently confirmed that the portion of its storm drain pipe within its right-of-way does not require replacement in conjunction with the project on a cost-sharing basis. County plans to finalize the design of this project for construction in the summer of 2021.

**3. El Camino Box Culvert and Mission Road Diversion Structure**

The 2020 maintenance work included the box culvert repairs identified by the 2018 condition assessment study were estimated to cost approximately \$550,000. The repairs in the Mission Road box culvert were completed in 2020 under a Job Order Contract (JOC) between Andreini Brothers, Inc. and the County with a cost of \$164,654. The El Camino Real box culvert repairs will take place during the 2021 construction season between June and October and are estimated to cost \$400,000.

**Status of Maintenance Activities:** Recurring activities to maintain the existing Colma Creek channel, led by the District or by the County on behalf of the District. The activities listed below represent the efforts that have updates since the last Advisory Committee meeting on December 8, 2020. Maintenance activities planned through 2021 will be presented at the June 8 Committee meeting.

## 1. Mitigation Site Maintenance

Mitigation maintenance at Sites 2a, 2b, 2c, 3, and 4 (shown on the enclosed map that follows) continued with general monitoring and maintenance provided by Ecological Concerns, Inc. and trash pickup by County staff/Sheriff Work Program (SWP) participants; the next SWP cleanup is scheduled for March 20, 2021.

With COVID-19 restrictions, County staff expects the amount of trash removed this year will be less than during previous years. SWP has reduced their availability from twice per month to monthly this winter, when more debris is typically seen due to storms. The use of contractors to perform trash pickup may be an option but the cost would be significantly higher. The following table summarizes the amount of trash removed from the Mitigation Sites since 2005 and the trash pick-up dates in 2020 and early 2021.

Year	Trash Removed in cubic yards	Event Dates
2020	18.68	1/4, 1/11, 1/25, 2/8, 2/22, 3/7, 6/20, 7/25, 8/22, 10/3, 10/17, 11/21, 12/12
2021	3.96	1/23, 2/20
Total (2005-2021)	703.07	

An additional 216.04 cubic yards of trash has been removed from other sites along the channel since 2005 for a total of 919.11 cubic yards.

## 2. Sediment Dredging

- Between Spruce and San Mateo Avenues:** Under the Long-term Maintenance Permit, in October 2020 the JOC contractor dredged approximately 400 cubic yards of sediment in the area between the Caltrain and San Mateo Avenue bridges, which is the maximum annual amount allowed by the permits. The cost for soil testing, off-hauling, and disposal completed in December 2020 totaled almost \$49,000.
- Between Utah Ave and Navigable Slough:** In this reach of Creek, the County on behalf of the District continues to monitor sediment depositions in the channel through bathymetric surveys to determine if dredging is needed. The next bathymetric survey is scheduled to occur this year.

## 3. NPDES Municipal Regional Permit (MRP) Trash Reduction (Contribution to Trash Capture Device)

The City of South San Francisco's soon-to-be-constructed Orange Memorial Park Water Capture Project will provide water quality improvements to meet the NPDES requirements of the San Francisco Bay MRP, including a reduction in discharges of PCBs, mercury, and trash into San Francisco Bay. While any maintenance agreement has yet to be negotiated between the City, District and the municipalities upstream of the OMP project, District funds are budgeted to contribute to the maintenance of the OMP project.

## 4. Illegal Dumping and Homeless Encampment Activities

The quarterly inspection of the Colma Creek Flood Control Channel was performed on February 17, 2021 by staff from the County and the City of South San Francisco. See attached photos in Appendix B; these photos also include January 28, 2021 high flow photos following the January 26-27, 2021 storms.

The illegal dumping and homeless encampment activities were observed at the access roads adjacent to the channel (Caltrain and Union Pacific Railroad properties downstream and upstream of Utah Avenue), and under the S. Airport Blvd. and the Highway 101 bridges. These sites continue to be a concern for impact to the channel and water quality. Along the west creek bank between Utah Avenue and Navigable Slough, a fence was installed along the Creek bank to reduce debris. Issues requiring action by the City or the Town of Colma were forwarded to the respective entity.

The homeless encampment beneath the Highway 101 bridge is under Caltrans jurisdiction. Staff from the County and City Police and Public Works Departments are attempting to work with Caltrans to put in place an agreement so that the County or City can perform the cleanups and be reimbursed by Caltrans for cost incurred. Meanwhile, to address urgent public health and safety concerns, Caltrans has scheduled a cleanup of the existing encampment under the Highway 101 bridge for March 8, 2021.

## **5. Maintenance Agreements**

- a. **With the City of South San Francisco:** An Agreement between the District and City for maintenance of portions of the Colma Creek Channel within the City was executed as of December 14, 2020.
- b. **With the Town of Colma:** The District anticipates finalizing an agreement for Colma Creek channel maintenance within the Town of Colma before the end of March 2021.
- c. **With BART:** Ongoing negotiations of a maintenance agreement with BART is contingent upon the completion of punch list items and additional repairs to the channel in an area of BART construction. This work is projected to be completed in summer 2021.

## **6. Colma Creek Long-Term Maintenance Permit**

County staff have begun the process of reaching out to the various regulatory agencies to request extensions to the Colma Creek Long-term Maintenance Permit, with the District as the permit holder, as the current permits will expire following the 2021 season. The relevant permits include:

- CA Department of Fish and Wildlife: Lake and Streambed Alteration Agreement (expires Dec. 31, 2021).
- U.S. Army Corps of Engineers (USACE) Nationwide Permit, valid to March 18, 2022, unless it is modified, suspended or revoked; USACE website indicates the process to issue a new Permit is underway.
- The San Francisco Bay Regional Water Quality Control Board 401 Certification has no expiration date but is required by the USACE permit so is subject to the Nationwide Permit valid dates listed above.

**Status of Non-District Projects:** Other non-recurring large planning or construction efforts along Colma Creek.

### **1. Regional Stormwater Capture Project at Orange Memorial Park (led by the City of South San Francisco and San Mateo Countywide Water Pollution Prevention Program)**

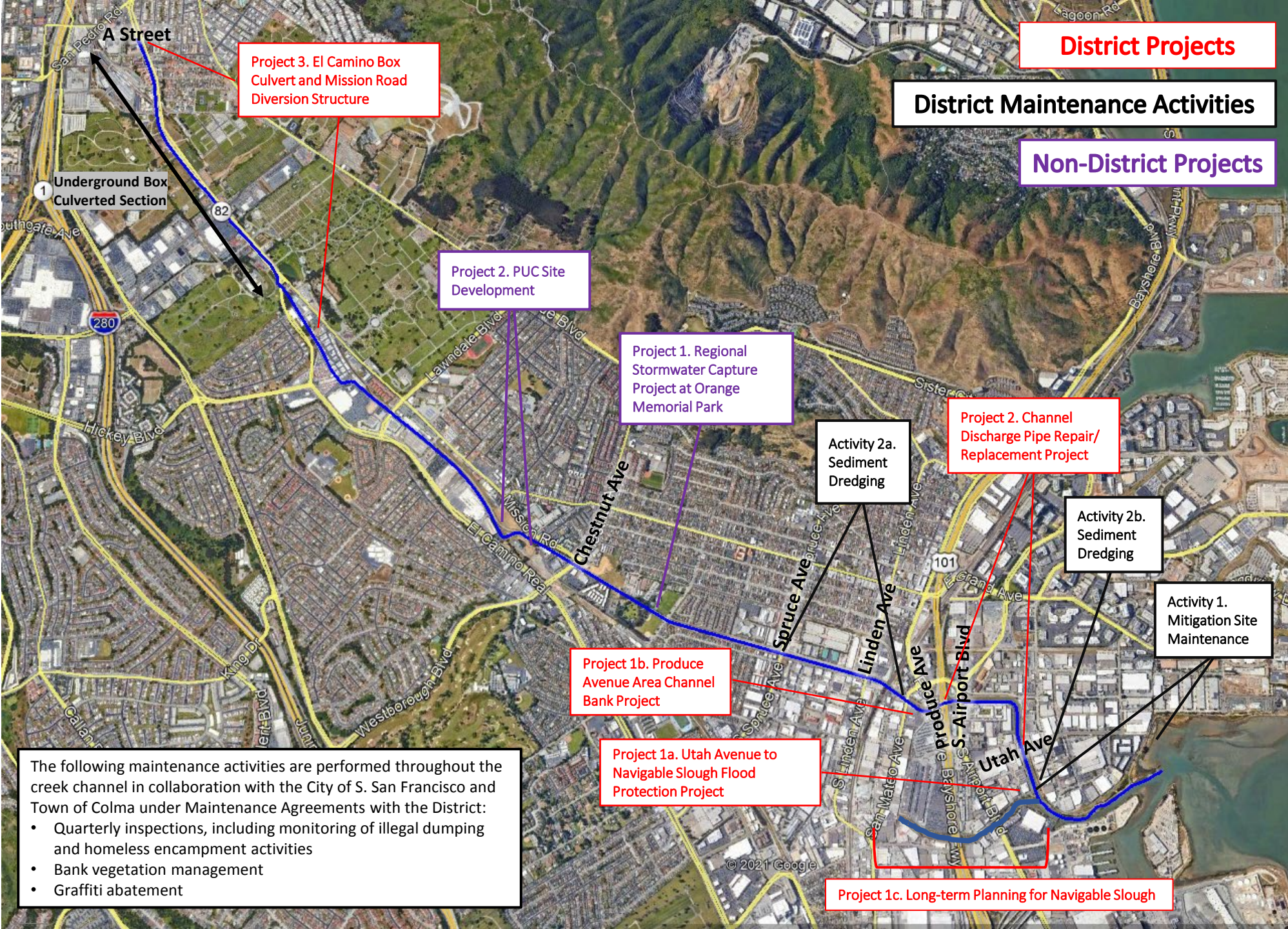
The Orange Memorial Park Stormwater Capture project is the construction of an instream diversion structure to divert water from the Creek channel into an underground infiltration facility and an overflow structure to allow water to flow back into the channel. At its December 14, 2020 meeting, the District Board approved an agreement granting the City access to construct, operate, and maintain the project within the District's right-of-way in the creek channel. South San Francisco City Council also approved the same agreement in December 2020.

The City has contracted with Minerva Construction to construct the project beginning in March 2021 and continue through Spring 2022. The first item of work is a survey of potential nesting birds, contractor mobilization and installing signage and field offices.

### **2. PUC Site Development**

A new development is currently planned to convert land adjacent to Colma Creek upstream of Chestnut Avenue in the City of South San Francisco to mixed-use property. The project is still in early design and the District is currently in conversations with the developer regarding requested easements on District right-of-way, as well as mutually beneficial enhancements to the Creek channel that would be completed by the developer.



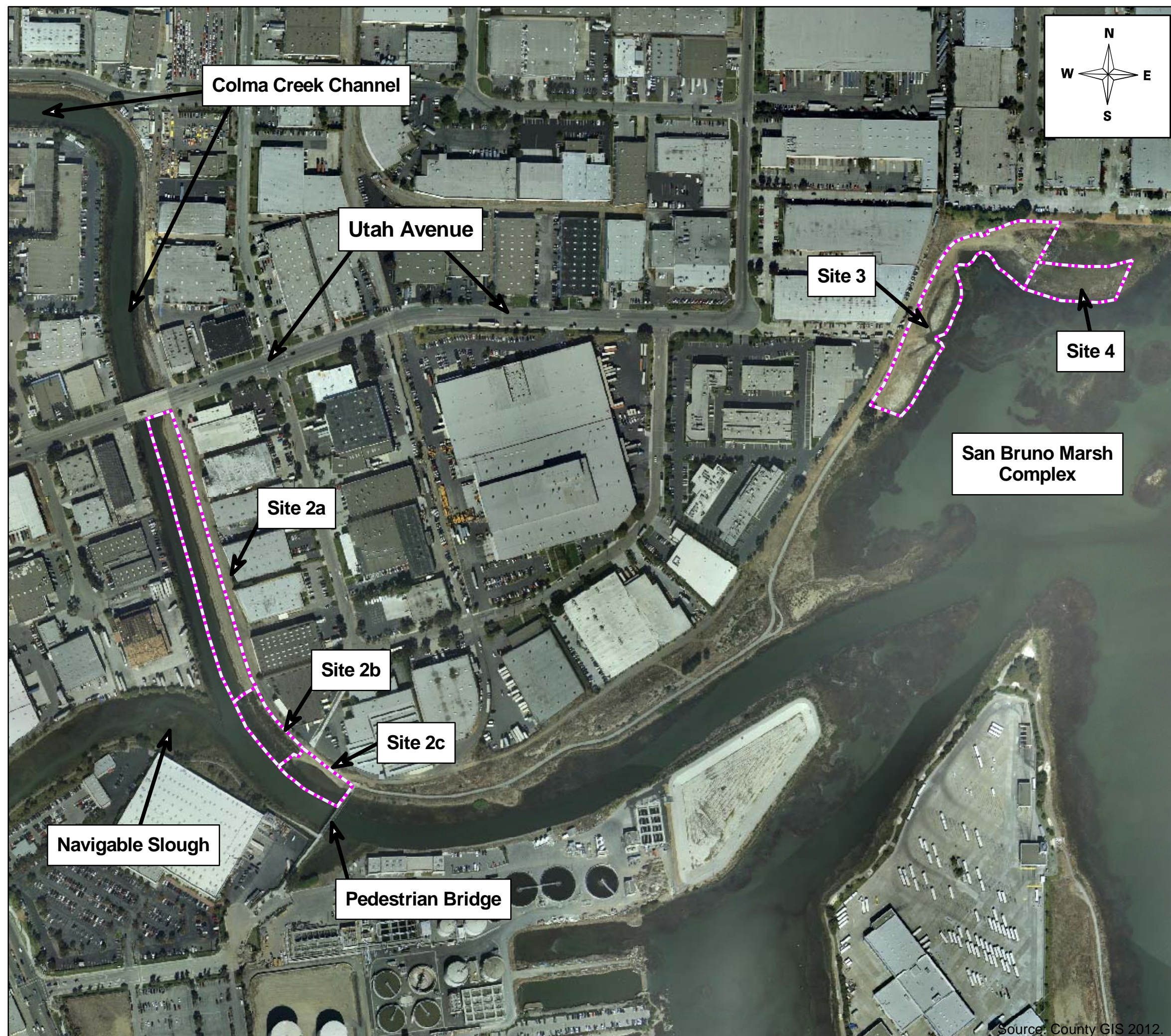


**Appendix A.**  
Map of Colma Creek  
Flood Zone Projects and  
Maintenance Activities

The following maintenance activities are performed throughout the creek channel in collaboration with the City of S. San Francisco and Town of Colma under Maintenance Agreements with the District:

- Quarterly inspections, including monitoring of illegal dumping and homeless encampment activities
- Bank vegetation management
- Graffiti abatement






**Figure 1 - Colma Creek  
Flood Control Channel  
Wall Repair Project**

**Habitat Mitigation Sites**  
Overview of Site Locations

**Legend**

 Mitigation Site Boundaries

0 200 400 600 800 1000  
Feet



County of San Mateo Department of Public Works  
555 County Center, 5th Floor  
Redwood City, CA 94063

F:\users\lutility\Colma Creek FCD\WORD\PROJECT\Spruce Avenue Wall Repair\Permanent Repair\Mitigation\Site\_4\Maps\Mitigation Sites.GWS

Source: County GIS 2012.



**Appendix B**  
**Colma Creek Flood Control Channel Monitoring Photos**  
Survey Dates: January 28 and February 17, 2021  
**Mouth to Produce Avenue Maintenance Segment**

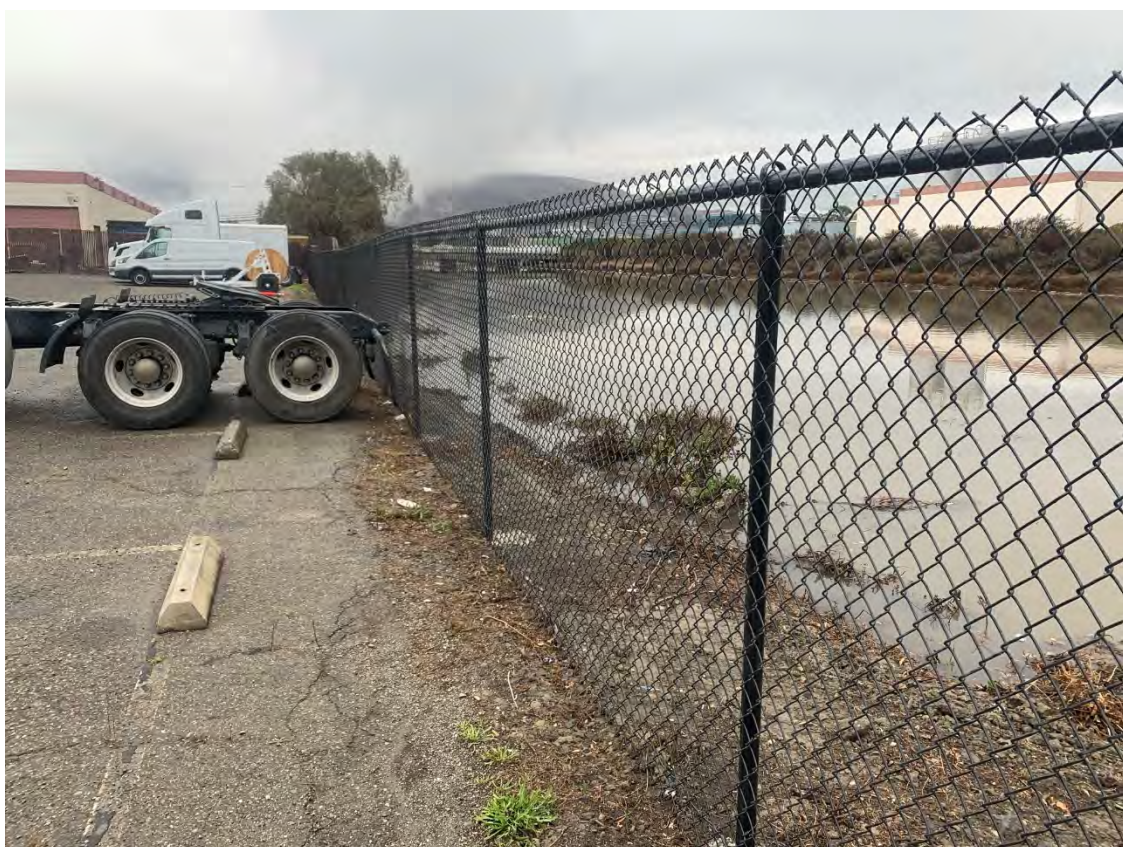


**Photos 1 & 2** – Top photo shows Mitigation Site 3 during high storm flows in conjunction with a high tide event on 1/28/2021; photo taken off the San Francisco Bay Trail and behind 310 Utah Avenue. Bottom photo shows Colma Creek looking upstream from the Bay Trail pedestrian bridge during high storm flows in conjunction with a high tide event on 1/28/2021.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Dates: January 28 and February 17, 2021



**Photos 3 & 4** – The top photo shows homeless encampment activity along the Colma Creek Service Road; approximately six to ten cars are currently being stored along the road, in addition to bikes, generators, and other assorted trash and debris. **SSFPD and City enforcement have been notified of the situation.** The bottom photo shows the newly constructed fencing at 325 Corey Way due to recurrent illegal dumping observed at this property.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Dates: January 28 and February 17, 2021



**Photos 5 & 6** – Top photo shows Colma Creek looking downstream from the Utah Avenue bridge. Bottom photo shows localized flooding at 153 Utah Avenue and looking upstream from the Utah Avenue bridge during high storm flows in conjunction with a high tide event on 1/28/2021.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Dates: January 28 and February 17, 2021



**Photos 7 & 8** – Top photo shows localized flooding along the Colma Creek Service Road at 282 Harbor Way, upstream of the Utah Avenue bridge, during high storm flows in conjunction with a high tide event on 1/28/2021. Bottom photo shows Colma Creek looking downstream toward the Utah Avenue bridge during high flows in conjunction with a high tide event on 1/28/2021.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 9 & 10** – Top photo shows an unknown yellow substance observed on the banks of Colma Creek; the yellow substance has been observed in the past following precipitation events. Bottom photo shows homeless encampment activity beneath the South Airport Boulevard bridge. **SSFPD and City enforcement have been notified of the situation.**



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 11 & 12** – Top photo shows Colma Creek looking downstream from South Airport Boulevard bridge. Bottom photo shows Colma Creek looking upstream from South Airport Boulevard bridge. Homeless encampment activity beneath the Highway 101 bridge can be observed on the right bank. **SSFPD and City enforcement have been notified of the situation.**



# Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021

## Produce Avenue to the Dissipater Teeth Maintenance Segment



**Photos 13 & 14** – Top photo shows Colma Creek looking downstream towards the Highway 101 bridge; homeless encampment has been active beneath the bridge. **CalTrans has not addressed these issues since the beginning of the Covid-19 pandemic.** Bottom photo shows Colma Creek looking upstream from the Produce Avenue bridge.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 15 & 16** – Top photo shows Colma Creek looking upstream from the San Mateo Avenue bridge. Bottom photo shows Colma Creek looking downstream from the Linden Avenue Bridge.



# Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021

## Dissipater Teeth to Old Channel Maintenance Segment



**Photos 17 & 18** – Top photo shows Colma Creek looking downstream from the Spruce Avenue bridge. Bottom photo shows Colma Creek looking upstream from the Spruce Avenue bridge.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 19 & 20** – Top photo shows fence panels along the southwestern end of the Sister Cities Park downstream from the Orange Avenue bridge needing repair. **There are sections of fences at multiple locations along this segment of the channel in need of repairs, which could be done by SSF staff/contractor once a new MOA with the District is in place.** Bottom photo shows Colma Creek looking downstream from Orange Avenue bridge.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 21 & 22 – Top photo shows fence damage within Orange Park. There are sections of fences at multiple locations along this segment of the channel in need of repairs, which could be done by SSF staff/contractor once a new MOA with the District is in place. Bottom photo shows illegal dumping at 950 Antoinette Lane. City enforcement has been notified of the situation**



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 23 & 24** – Top photo shows Colma Creek looking downstream from the Centennial Way pedestrian bridge. Bottom photo shows Colma Creek looking upstream from the Centennial Way pedestrian bridge.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 25 & 26** – Top photo shows channel bottom cracking at a joint upstream from the Centennial Way pedestrian bridge; four locations with similar conditions were observed. **Channel bottom repairs in this segment are anticipated to be made during the 2021 maintenance season.** Bottom photo shows Colma Creek looking downstream from the SSF BART Station box culvert.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 27 & 28** – Top photo shows Colma Creek looking upstream from McLellan Drive. Bottom photo shows Colma Creek looking downstream from the Costco pedestrian bridge.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 29 & 30** – Top photo shows Colma Creek looking upstream from the Costco pedestrian bridge. Bottom photo shows Colma Creek looking downstream from the Mission Road box culvert.



## Colma Creek Flood Control Channel Monitoring Photos

Survey Date: February 17, 2021



**Photos 31 & 32** – Top photo shows illegal dumping of spoils pile at 1791 Mission Road along the bank above the Old Colma Creek diversion structure. **This photo documentation has been forwarded to Town of Colma staff.** Bottom photo shows Old Colma Creek channel downstream of the El Camino Real bridge at the Mission Road intersection.