



COLMA CREEK CITIZENS ADVISORY COMMITTEE MEETING

Tuesday, December 8, 2020 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/84273179359?pwd=WDkrTEJ0WDZ5dmRXTGx2TVFJNHFWZz09>

or call 669-900-6833 Meeting ID 842 7317 9359# Password: 225367#

AGENDA

- I. Roll Call
- II. Approve minutes of September 8, 2020 meeting
- III. Public Comment
- IV. Update on Capital Improvement Program and Budget
- V. Update on Projects and Maintenance Activities
- VI. Discussion of Advisory Committee Membership and Terms
- VII. Approve 2021 Committee meeting dates: March 9, June 8, September 14, December 1
- VIII. Adjournment

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

Agenda Item II

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

Meeting Minutes Tuesday, September 8, 2020

AGENDA

I. CALL TO ORDER

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

II. ROLL CALL

Members:

Present Absent

<input checked="" type="checkbox"/>	<input type="checkbox"/>	Helen Fisicaro, Chair – Town of Colma
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sue Vaterlaus – City of Pacifica
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Richard Irli, Member at Large – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mike Futrell – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gail DeFries, Member at Large – City of Daly City
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ed Bortoli, Member at Large – City of South San Francisco

Staff:

Present Absent

<input checked="" type="checkbox"/>	<input type="checkbox"/>	Len Materman – San Mateo County Flood and Sea Level Rise Resiliency District (One Shoreline)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Colin Martorana – One Shoreline
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Makena Wong – One Shoreline
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ann Stillman – County of San Mateo Public Works
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Jim Porter – County of San Mateo Public Works
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Michael Barber – County of San Mateo/Supervisor Dave Pine's Office
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mark Chow – County of San Mateo Public Works
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Brad Donohue – Town of Colma
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Eunejune Kim – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Catherine Misener – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Kim Santos – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Matthew Ruble – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ken Anderson – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Richard Chiu – City of Daly City
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Dave Bockhaus – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Louis Langi – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ryan Mayfield – City of South San Francisco
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dave Pine – County of San Mateo Supervisor

III. APPROVAL OF MINUTES OF September 10 and December 10, 2019 MEETINGS

Minutes of the September 10, 2019 meeting and December 10, 2019 meeting were approved.

IV. PUBLIC COMMENT

No comments from the public.

V. SAN MATEO COUNTY FLOOD & SEA LEVEL RISE RESILIENCY DISTRICT – PRESENTATION / DISCUSSION

- Presentation of the new District and its approach to the flood zones by CEO Len Materman
 - Map and project recap to introduce new district

- *New approach of improving discharge pipes and floodwall modifications*
- *Mike Futrell confirmed that City is on board with ideas*
- *Helen requested copies of presentation to be sent to Eunejune Kim, Gail De Fries, and Brad Donohue*
- *Helen: giving community opportunity to enjoy creek is a good idea*
- *Len: Michael Barber is coordinating with FEMA re: grants*
- *Mark: Project due by Feb 2022 (construction in summer); same performance date for FEMA funding*
- *Brad Donohue: Suggested that this new vision for Colma Creek be linked to language included in South SF General Plan*
- *Richard Chiu: Suggested that this make the rounds at City Council meetings, and Len agreed.*

VI. DISTRICT PROJECTS, ETC.: SUMMARIZED IN A HANDOUT AND OPEN FOR ADDITIONAL DISCUSSION

El Camino Box Culvert and Mission Road Diversion Structure

County staff have solicited proposals from contractors for the box culvert maintenance and repairs identified by the condition assessment study completed in 2018. A proposal has been submitted by a Job Order Contracting (JOC) contractor (Andreini Bros. Inc.) for all of the planned 2020 maintenance work described under the Maintenance of Existing Channel section below, including box culvert repairs estimated to cost approximately \$550,000. County staff are negotiating the cost with the contractor and anticipate moving forward in September 2020. Due to the amount of work involved and the short work window allowed by the Long-term Maintenance Permits, we may arrange for the work to be completed over two construction seasons (2020 and 2021).

BART Co-op Project

There is no update on this project.

Colma Creek Improvements between Spruce and San Mateo Avenues

County staff continues to monitor a segment of the south wall immediately downstream of the San Mateo Avenue Bridge for wall movement. Under the Long-term Maintenance Permit, the District will continue dredging sediment in the area between the Caltrain mainline bridge and San Mateo Avenue that last year's effort could not remove due to the 400 cubic yards per year limit imposed by the permits.

Mitigation Sites Downstream of Utah Avenue

Mitigation site maintenance continued with the hand-pulling of Algerian sea lavender, a non-native plant designated for eradication by the Invasive Spartina Project (ISP). This plant has created monocultures that reduce native plant populations in many Bay Area marshes, including Oyster Point. ISP has also received funding to conduct invasive species eradication efforts throughout the Colma Creek watershed and San Bruno mudflats. County staff and ISP will continue to work together to eradicate this invasive plant. Following the COVID-19 temporary work suspension from March through May 2020, the Sheriff's Work Program (SWP) activities were reinitiated in June in compliance with COVID-19 restrictions. As a result of these COVID-19 restrictions, less trash could be removed this year as compared to last year, resulting in more trash accumulation. The following table summarizes the amount of trash removed from the Mitigation Sites since 2005 and the trash pick-up dates in 2020.

Year	Trash Removed in cubic yards	Event Dates
2020	13.62	1/4, 1/11, 1/25, 2/8, 2/22, 3/7, 6/20, 7/25, 8/22
Total (2005-2020)	694.04	

An additional 201.47 cubic yards of trash has been removed from other sites along the channel since 2005 for a total of 895.25 cubic yards.

Maintaining the Existing Channel

The quarterly inspection of the Colma Creek Flood Control Channel was performed on August 17, 2020 (see attached photos) by staff from the County and the City of South San Francisco (SSF). Increased illegal dumping and homeless encampment activities were observed in the typical locations, including the Creek access roads (Caltrain right-of-way and Union Pacific Railroad property downstream and upstream of Utah Avenue), and under the Highway 101 bridge. Issues requiring action by SSF or the Town of Colma (Colma) were forwarded to the respective entity. As mentioned in the June 9, 2020 Advisory Committee project summary, the maintenance work planned for the 2020 season (typically June through October) and the 2020 notification report was submitted to the appropriate agencies on May 21, 2020.

The final list of maintenance work includes:

1. Bank vegetation management (various locations);
2. Dredging of sediment between the Caltrain mainline bridge and San Mateo Avenue bridge;
3. Culvert spalling repair downstream of the Spruce Avenue bridge;
4. Repair or replacement of the corroded chain link fence and posts on the north and south
5. banks/channel walls between Spruce Avenue and Orange Avenue;
6. Channel bottom repair at three locations between Centennial Way pedestrian bridge and the S.
7. San Francisco BART Station box culvert outlet;
8. Culvert outlet repairs at two locations downstream of the S. San Francisco BART Station box
9. culvert outlet;
10. Vegetation management along the channel and fences between Orange Avenue and Spruce
11. Avenue, and within Sister Cities Park;
12. Expansion joint repairs between McLellan Drive and the Mission Road box culvert outlet;
13. Fence railing repairs between McLellan Drive and the Mission Road box culvert outlet;
14. El Camino Real and Mission Road box culvert repairs (Grade 2 and 3 defects identified by the
15. 2018 Condition Assessment Report);
16. Graffiti abatement (various locations).

A map showing the locations of the proposed maintenance work was also provided with the June 9, 2020 project summary. Items #1 and #11 above are typically performed by SSF and Colma staff or their contractors throughout the year under the Memorandum of Agreements (MOA) with the former San Mateo County Flood Control District; however, the MOAs expired on June 30, 2020. The City and Town must execute new MOAs with the San Mateo County Flood and Sea Level Rise Resiliency District (FSLRRD) for these activities to continue in this format.

The proposal from Andreini Bros. Inc. for the work items listed above total approximately \$1.7 million, with the majority of the cost (approx. \$1.2 million) attributed to the channel expansion joint repairs and the El Camino Real/Mission Road box culvert repairs (items #8 and #10). As stated in the El Camino Real Box Culvert and Mission Road Diversion Structure section above, County staff are currently in negotiations with the contractor to finalize the cost and anticipate moving forward with this work in September 2020. Due to the amount of work involved and the short work window allowed by the Long-term Maintenance Permits, we are in discussion with the contractor to potentially complete the work over two construction seasons (2020 and 2021).

Produce Avenue – Channel Wall Project

County staff continue to monitor the channel walls immediately upstream and downstream of the Produce Avenue Bridge, particularly at a drainage outlet on the northeast wall. A proposal to design and install micropiles and tiebacks and other related work to restrain movement of the existing sheetpile walls on all sides of the Produce Avenue bridge was received by the County for approximately \$1 million and has been shared with FSLRRD and the Colma Creek Technical Advisory Committee. The FSLRRD has asked County staff to put this project on hold while it reviews the geotechnical investigation and alternative evaluation report for this proposed work.

Utah Avenue to San Francisco Bay

Recurring illegal dumping has been observed along the Colma Creek access road. County staff has notified SSF of these observations through the City's See-Click-Fix application. SSF has also completed its annual vegetation maintenance along the San Francisco Bay Trail. Unfortunately, this vegetation maintenance work removed native vegetation at Mitigation Site 2, which may have impacted the success of the mitigation, an issue that County staff has discussed with City staff. Also in Mitigation Site 2, and beneath the Utah Avenue bridge, homeless encampments were recently observed and will continue to be monitored.

In May 2020, County staff and Ecological Concerns, Inc. (ECI), performed invasive vegetation removal of highly invasive perennial pepperweed on Mitigation Site 3. During the quarterly inspection earlier this month, a large patch of perennial pepperweed was discovered outside of Mitigation Site 3 along the San Francisco Bay Trail and within SSF jurisdiction (City staff have been notified).

As mentioned in previous project summaries, in December 2019 FEMA awarded a \$3 million Hazard Mitigation Grant Program for the Colma Creek Flood Control Channel Improvement Project from Utah Avenue to Navigable Slough. The grant amount is estimated to equal about 70% of the \$4.28 million cost to construct the Project. The County, on behalf of the District, had been working to finalize the Project design and prepare applications for environmental regulatory permits. Construction would need to begin in the summer of 2021 and be completed in February 2022 to meet grant requirements. In July 2020, FSLRRD's CEO directed County staff to pause this work as FSLRRD staff and others analyze project alternatives; a pause that will likely impact the FEMA grant. At the September 8, 2020 Committee meeting, FSLRRD's CEO will discuss this project.

Sea Level Rise Preparedness -- No update

Multi-jurisdictional Regional Stormwater Capture Project at Orange Memorial Park (SSF and San Mateo Countywide Water Pollution Prevention Program)

The 100% design of this project was provided to the District on April 29, 2020. County staff have not completed their review of the project; on August 11, 2020, FSLRRD and SSF staff met to discuss it.

Colma Creek Technical Advisory Committee (TAC)

The TAC met remotely on July 23, 2020 to discuss and approve the following two projects on the Flood Zone's Capital Improvement Project list:

1. Colma Creek Channel Discharge Pipe Repair/Replacement Project between US-101 and Utah Avenue bridges to repair/replace the deteriorated discharge pipes/outfalls along this segment of the channel. Per the Colma Creek Long-term Maintenance Project Permit, this project needs to be completed by March 2022. Because this project may impact discharge culverts in SSF's right-of-way, SSF must soon confirm a few items with County staff. This project was reviewed with the FSLRRD in early August and approved to move forward.
2. The Produce Avenue – Channel Wall Project to install micropiles and tiebacks in order to stabilize the existing concrete sheetpiles that have moved and to prevent further erosion behind the walls. As discussed above, the FSLRRD has paused this project pending further study.

Brad Donohue suggested that the Agenda contain a financial element that ties into the CIP.

Helen requested that Len and his team set this up for December's meeting; June 8th the board approved the budget.

Helen posed the question of what the committee prefers – “we have money coming out of TAC” every quarter. Len did a share screen of the FY20-21 budget for review.

Helen noted next June – 9 million for Colma Creek; admin expenses (staff time, etc)

Ann – Budget presented to Board (consolidated version of Ann’s and Mark’s usual information)

Potential impacts to budget:

- *Contract to provide money for admin etc. now void*
- *Projects/activities on pause*
- *Quarterly inspections continuing*
- *Mitigation Site Effort continuing*

Helen asked how the One Shoreline staff are being paid.

Len replied that the One Shoreline staff are being paid from the operating budget, with a small amount being charged to flood zones.

Richard Chiu provided feedback:

- *3-year budgeting, County absorbs half of the cost, while other agencies split the remainder*
- *Plan for 3-year sufficiency in the near future*
- *Need CIP plan*
- *Operating side (breakdown of larger numbers is helpful)*

Len responded that they can present CIP budget information and will attach a copy of the approved budget.

Helen asked if the SSF and Colma MOUs have been extended.

Ann: No, not in position to sign. This is between the cities and new district, and there has been a gap in services as a result. It’s also important to think of the maintenance side of things.

Mike, Brad, and Len agreed to take this conversation offline.

Helen asked if the County is providing approved permits to Len.

Ann: Yes, these can be forwarded to Len; once expired, the process would be at square one.

Len: Expiration dates are on their (One Shoreline) radar. Will work on package for December.

Mark: Long Term Maintenance permit (5 yr) expires next year. Will the district ask to extend?

Richard: Do permits have to be transferred over?

Mark: District to coordinate but County will check on what would be needed.

Richard: Prudent to begin renewal process now

Mark confirmed that he will begin to look into renewal process.

Helen suggested a coordinated group effort to achieve renewal.

VII. DISCUSSION ITEMS

- **Advisory Committee Members – Updated Member List and Terms**
 - *Meeting minutes to One Shoreline*
 - *Individual members approved at City Council, those minutes are sent to Board but will now be sent to One Shoreline*
 - *Dave reminded committee that in the past, Board of Supervisors approved At Large members*
 - *Helen announced the approval of Ryan Mayfield; Resolutions will be received in December*

VIII. ACTION ITEMS

- **Motion to Approve 2020 Committee Meeting Dates**
- **Ann Stillman to confer with County as to whether 700 forms are still to be completed and submitted for this committee meeting**

IX. ADJOURNMENT

NEXT MEETING – Tuesday, December 8, 2020, 3:00 p.m.

Agenda Item IV

Colma Creek Flood Zone Capital Improvement Program Project List

December 8, 2020 Update

		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	\$ 5,144,147	\$ 3,404,239	\$ 3,404,239	\$ 3,404,239	
Project Expenditures							
<i>Project Number</i>	<i>Project and Phase *</i>						Total (FY14-15 through 22-23)
1	Mitigation Site Maintenance (Sites 2, 3 & 4)						
	Annual Maintenance Activities	\$ 395,085	\$ 3,910	\$ 90,000	\$ 90,000	\$ 90,000	\$ 668,995
	Design & Permitting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Construction	\$ -	\$ 15,212	\$ -	\$ -	\$ -	\$ 15,212
	Project Administration	\$ -	\$ 103,707	\$ -	\$ -	\$ -	\$ 103,707
	Project Total						\$ 787,915
2	Utah Avenue to Navigable Slough						
	Preliminary Study	\$ 53,790	\$ -	\$ -	\$ -	\$ -	\$ 53,790
	Design & Permitting	\$ 298,796	\$ 5,179	\$ 200,000	\$ 200,000	\$ -	\$ 703,974
	Construction & Mitigation	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000
	Project Administration	\$ 162,146	\$ 105,285	\$ 92,000	\$ 50,000	\$ 250,000	\$ 659,431
	Project Total						\$ 2,417,195
3	Produce Avenue area channel bank project (pending project review)						
	Preliminary Study	\$ 105,926	\$ -	\$ 50,000	\$ -	\$ -	\$ 155,926
	Design & Permitting	\$ 95,301	\$ -	\$ -	\$ 400,000	\$ -	\$ 495,301
	Construction & Mitigation	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 2,000,000
	Project Administration	\$ 25,612	\$ 19,831	\$ 12,500	\$ 100,000	\$ 500,000	\$ 657,943
	Project Total						\$ 3,309,170
4	Channel Discharge Pipe Repair/Replacement Project between U.S. Hwy. 101 - Utah Ave						
	Preliminary Study	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Design & Permitting	\$ -	\$ 67,308	\$ -	\$ -	\$ -	\$ 67,308
	Construction	\$ -	\$ -	\$ 326,618	\$ -	\$ -	\$ 326,618
	Project Administration	\$ -	\$ 69,799	\$ 81,655	\$ -	\$ -	\$ 151,453
	Project Total						\$ 545,379
5	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
6	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
7	Dredge Existing Channel (Utah Ave. to Navigable Slough) (1,300 LF)						
	Sediment Study & Monitoring	\$ 40,400	\$ -	\$ -	\$ 20,000	\$ -	\$ 60,400
	Design & Permitting	\$ 8,593	\$ -	\$ -	\$ -	\$ -	\$ 8,593
	Construction	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000
	Project Administration	\$ 12,248	\$ -	\$ -	\$ 5,000	\$ 125,000	\$ 142,248
	Project Total						\$ 711,241
8	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
9	El Camino Real/Mission Road Box Culvert Maintenance Repairs						
	Design	\$ 80,441	\$ -	\$ -	\$ -	\$ -	\$ 80,441
	Construction	\$ 91,883	\$ -	\$ 150,000	\$ 300,000	\$ -	\$ 541,883
	Project Administration	\$ -	\$ 1,479	\$ 37,500	\$ 75,000	\$ -	\$ 113,979
	Project Total						\$ 736,304
Total Expenditures/Estimates		\$ 1,356,658	\$ 406,277	\$ 1,502,773	\$ 1,346,250	\$ 4,465,000	\$ 9,249,282
Fund Balance at Ending of Fiscal Year			\$ 26,031,019				

Agenda Item V

San Mateo County Flood and Sea Level Rise Resiliency District Colma Creek Flood Zone Citizens Advisory Committee Meeting Tuesday, December 8, 2020, 3:00 pm (Remote Meeting)

Status of the Colma Creek Flood Zone Projects and Maintenance

El Camino Box Culvert and Mission Road Diversion Structure

The planned 2020 maintenance work described under the “Maintaining the Existing Channel” section below included the box culvert repairs identified by the condition assessment study completed in 2018 estimated to cost approximately \$550,000. The repairs will be performed under a Job Order Contract (JOC) between Andreini Brothers, Inc. and the County during the 2020 and 2021 construction seasons between June and October.

BART Co-op Project

The planned 2020 maintenance work included the punch list items and additional repairs in the channel section constructed by BART. Work is projected to be completed in summer 2021.

Colma Creek Improvements between Spruce and San Mateo Avenues

On behalf of the District, County staff continue to monitor a segment of the south wall immediately downstream of the San Mateo Avenue Bridge for wall movement. Under the Long-term Maintenance Permit, the JOC contractor in October dredged approximately 400 cubic yards of sediment in the area between the Caltrain mainline and the San Mateo Avenue bridges that remained from the 2019 dredging effort due to the 400 cubic yards per year limit imposed by the permits. The dredged sediment is currently stored on site pending determination by the landfill operator of whether the material can be disposed at their facilities based on test results. Permission to dispose the material from the landfill operator was just received and the off-hauling will likely take place in December 2020.

Mitigation Sites Downstream of Utah Avenue

Mitigation site maintenance continued with general monitoring and maintenance provided by Ecological Concerns, Inc. (ECI) and trash pickup by County staff/Sheriff Work Program (SWP) participants. The next SWP cleanup date has been scheduled for December 12, 2020.

Following the COVID-19 temporary work suspension from March through May 2020, the SWP activities were reinitiated in June in compliance with COVID-19 restrictions. As a result of these COVID-19 restrictions, less trash could be removed this year as compared to last year, resulting in more trash accumulation. In addition, the cancellation of several volunteer outreach events, along with increased illegal dumping and upstream homeless activity, have exacerbated trash accumulation along the banks of the mitigation sites. Instead of having the public participate on the Coastal Cleanup Event this year, County staff and a SWP crew conducted the cleanup with the City of South San Francisco (SSF or City) Environmental Compliance Program staff on October 3, 2020. During the October and November SWP events, crews performed weed eradication and Hot Spot cleanups. The following table summarizes the amount of trash removed from the Mitigation Sites since 2005 and the trash pick-up dates in 2020.

Year	Trash Removed in cubic yards	Event Dates
2020	17.42	1/4, 1/11, 1/25, 2/8, 2/22, 3/7, 6/20, 7/25, 8/22, 10/3, 10/17, 11/21
Total (2005-2020)	697.84	

An additional 208.60 cubic yards of trash has been removed from other sites along the channel since 2005 for a total of 906.44 cubic yards.

Maintaining the Existing Channel

The quarterly inspection of the Colma Creek Flood Control Channel was performed on November 19, 2020 (see attached photos that also include November 15, 2020 King Tide photos) by staff from the County and the City of South San Francisco. Increased illegal dumping and homeless encampment activities were observed in the typical locations, including the adjacent access roads (Caltrain right-of-way and Union Pacific Railroad property downstream and upstream of Utah Avenue), under the S. Airport Blvd. and the Highway 101 bridges. Issues requiring action by SSF or the Town of Colma (Colma) were forwarded to the respective entity.

Due to Covid-19 related delays and JOC contract negotiations, not all of the planned maintenance work listed in the June 9, 2020 Advisory Committee project summary was completed. The 2020 JOC contract with Andreini Brothers, Inc. includes the 2021 construction season to enable the completion of this work. The maintenance activities conducted in 2020, along with uncompleted work as noted, includes:

1. Bank vegetation management (various locations) – On-going;
2. Dredging of sediment between the Caltrain mainline bridge and San Mateo Avenue bridge – Completed;
3. Culvert spalling repair downstream of the Spruce Avenue bridge – Postponed until 2021;
4. Repair or replacement of the corroded chain link fence and posts on the north and south banks/channel walls between Spruce Avenue and Orange Avenue – Completed;
5. Channel bottom repair at three locations between Centennial Way pedestrian bridge and the S. San Francisco BART Station box culvert outlet – Postponed until 2021;
6. Culvert outlet repairs at two locations downstream of the S. San Francisco BART Station box culvert outlet – Postponed until 2021;
7. Vegetation management along the channel and fences between Orange Avenue and Spruce Avenue, and within Sister Cities Park – On-going;
8. Expansion joint repairs between McLellan Dr. and the Mission Rd. box culvert outlet – Postponed until 2021;
9. Fence railing repairs between McLellan Dr. and the Mission Rd. box culvert outlet – Postponed until 2021;
10. El Camino Real and Mission Road box culvert repairs – Mission Road box culvert repairs were completed; however, the El Camino Real box culvert repairs will be completed in 2021;
11. Graffiti abatement (various locations) – On-going.

A map showing the locations of this maintenance work is attached. The final proposal price from Andreini Bros. Inc. for the work items listed above total approximately \$1,704,567.57, with the majority of the cost (approx. \$1.2 million) attributed to the channel expansion joint repairs and the El Camino Real/Mission Road box culvert repairs (items #8 and #10). This amount may change due to unforeseen conditions encountered during construction or additional work identified by the District.

Produce Avenue Area Channel Bank Project

In the area associated with this project, the creek banks are unstable. Addressing this issue is the subject of discussions between the District and the City of South San Francisco; project planning and design is anticipated to continue in 2021, with design and construction in 2022 and 2023.

Utah Avenue to San Francisco Bay

Recurring illegal dumping occurs along the Colma Creek access road, and at properties along Corey Way on the west bank. County staff has notified SSF of these observations through the City's See-Click-Fix application.

As mentioned in previous project summaries, in December 2019, FEMA awarded (through California Governor's Office of Emergency Services or CalOES) to the previous County Flood Control District a \$3 million Hazard Mitigation Grant for the Colma Creek Flood Control Channel Improvement Project from Utah Avenue to Navigable Slough. Recent conversations between Cal OES staff and Michael Barber, staff to District Board Chair and County Supervisor Dave Pine are leading to a request from the County to transfer the grant to the District, extend the grant period, and focus the scope of work on the side of the channel at risk of overtopping during 100-year flows, and including an adjacent portion of Navigable Slough. Should CalOES 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.

Multi-jurisdictional Regional Stormwater Capture Project at Orange Memorial Park (SSF and San Mateo Countywide Water Pollution Prevention Program)

District and County staff (on behalf of District) completed a review of the 100% design of the project. District approval of these plans are contingent upon review of future submittals, including the project's Operations and Maintenance Plan, Biological Avoidance and Minimization Plan, and Water Diversion Plan. By December 14, the District Board and SSF City Council will consider approving an agreement granting the City access to construct, operate, and maintain the project within the District's right-of-way in the creek channel.

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

This project aims to repair/replace the deteriorated discharge pipes/outfalls 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. Because this project may impact discharge culverts in SSF's right-of-way, SSF must soon confirm a few items with County staff, including whether the City would like to have a portion of its storm drain pipe replaced in conjunction with the project on a cost-sharing basis.

NPDES Municipal Regional Permit Trash Reduction (Contribution to Full Trash Capture Device)

The District is waiting to hear updates from the Regional Water Quality Control Board on whether the City of South San Francisco's soon-to-be-constructed Orange Memorial Park Water Capture Project will count towards meeting the Municipal Regional Permit's Trash Reduction requirements.

Dredge Existing Channel (Utah Ave. to Navigable Slough)

On behalf of the District, the County continues to monitor sediment depositions in channel (through bathymetric surveys) to determine if dredging is needed.

Colma Creek Master Planning and Coordination with City of South San Francisco General Plan

The District has begun discussing with SSF opportunities to improve Colma Creek in concert with the City's General Plan update. The District will also work with the City to track grants that could fund efforts consistent with both parties' desire for the Creek to be an asset to the surrounding community.

Long-term Planning for the Navigable Slough

SSF has approached the District to discuss how to address existing and future flood threats from Navigable Slough. With the threat of sea level rise top of mind, both the City and the District will be exploring solutions that will enhance the long-term resilience of the area, while also improving the areas adjacent to the Slough.

Colma Creek Long-Term Maintenance Permit

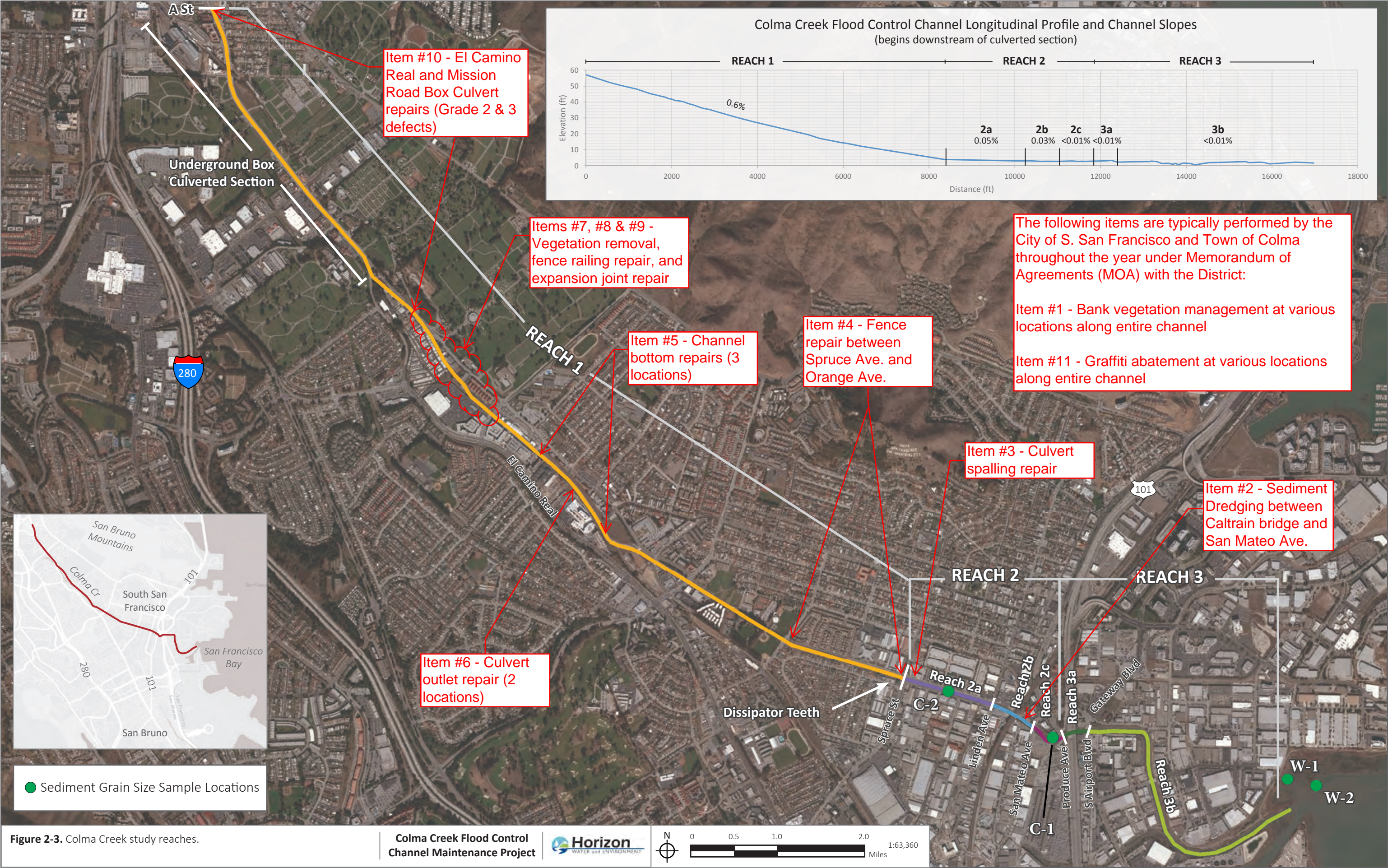
The District and County are discussing next steps to engage regulatory agencies on requesting an extension for the Long-Term Maintenance Permit, with the new District as the permit holder. The relevant permits include:

1. CA Department of Fish and Wildlife Lake and Streambed Alteration Agreement (expires Dec. 31, 2021).
2. U.S. Army Corps of Engineers (USACE) Nationwide Permit, valid to March 18, 2022, unless the Permit is modified, suspended or revoked; USACE website indicates the process to reissue a new Permit is underway.
3. The San Francisco Bay Regional Water Quality Control Board 401 Certification has noexpiration date but is required by the USACE permit so is subject to the Nationwide Permit valid dates listed above.

Maintenance Agreement with the Town of Colma

The District is working with the Town of Colma to define in a new Agreement how it will support maintenance activities conducted by the Town for Colma Creek and a key tributary.

Planned 2020 Long-term Maintenance Permit Activities



Colma Creek Flood Control Channel Maintenance Matrix Monitoring Photos

Survey Date: November 15 & 19, 2020

Mouth to Produce Avenue Maintenance Segment



Photos 1 & 2 – Top photo shows Mitigation Site 3 during a king tide event on 11/15/2020; 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 a king tide event on 11/15/2020.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 3 & 4 – Photos show illegal dumping along the banks of Colma Creek at 325 Corey Way and 152 Utah Ave. Illegal dumping was observed during joint County and SSF hot spot cleanups on 10/3/2020. **County staff notified SSF via SeeClickFix and City enforcement case files have been created for each property.**

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 5 & 6 – Top photo shows SWP workers clearing weeds on 10/17/2020 at the Utah Avenue bridge sidewalk near 180 Utah Ave. following a Notice of Violation from SSF for overgrown vegetation was received by the County. Bottom photo shows Colma Creek looking downstream from the Utah Avenue bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 7 & 8 – Top photo shows the remnants of a truck fire at 282 Harbor Way. Bottom photo shows excess trash upstream of the Utah Avenue bridge following the 11/18-19/2020 precipitation event. **Due to COVID-19 work suspension and restrictions, recent SWP events have focused on Mitigation Sites and hot spots. Smaller work crews have also resulted in reduced trash cleanup volumes.**

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 9 & 10 – Top photo shows Colma Creek looking downstream toward the Utah Avenue bridge with considerable trash and illegally dumped debris on the bank. Bottom photo shows Colma Creek looking upstream toward the South Airport Boulevard bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 11, 12, & 13 – Top and middle photo show illegal dumping beneath the S. Airport Blvd. bridge, potentially from homeless encampments in the vicinity. Bottom photo shows Colma Creek looking downstream from South Airport Boulevard bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 14, 15, & 16 – Top photo shows illegal dumping at 225 S. Airport Blvd. Middle photo shows Colma Creek looking upstream from the S. Airport Blvd. bridge toward Highway 101. Bottom photo shows a homeless encampment beneath the Highway 101 bridge. **County staff has notified SSF of the illegal dumping via SeeClickFix and a case number has been assigned. Multiple attempts have been made to CalTrans concerning the homeless encampment; however, CalTrans has not addressed these issues since the beginning of the Covid-19 pandemic.**

Colma Creek Flood Control Channel Maintenance Matrix Monitoring Photos

Survey Date: November 19, 2020

Produce Avenue to the Dissipater Teeth Maintenance Segment:



Photos 17 & 18 – Top photo shows Highway 101 bridge and homeless activity. Large amount of trash and debris has accumulated. Bottom photo shows Colma Creek looking upstream from the Produce Avenue bridge. **As noted on the previous slide, CalTrans has not addressed these issues since the beginning of the Covid-19 pandemic.**

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 19 & 20 – Top photo shows Colma Creek looking downstream from the San Mateo Avenue bridge. Bottom photo shows Colma Creek looking upstream toward the CalTrain bridge and the section that was dredged on 10/14-15/2020. **The amount of sediment dredged from this section of the channel from the 2019 and 2020 events totaled approximately 800 cubic yards.**

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 21 & 22 – Top photo shows Colma Creek looking downstream from the Linden Avenue bridge. Bottom photo shows Colma Creek looking upstream from the Linden Avenue bridge.

Colma Creek Flood Control Channel Maintenance Matrix Monitoring Photos

Survey Date: November 19, 2020

Dissipator Teeth to Old Channel Maintenance Segment



Photos 23, 24, & 25 – Top photo shows Colma Creek looking downstream from the Spruce Avenue bridge. Middle photo shows the newly repaired fence on both sides of the channel along N. Canal St. installed by County and SSF contractors between Orange Ave. and Spruce Ave.. Bottom photo shows dissipator teeth upstream from the Spruce Avenue bridge. Sediment and vegetation washed down from upstream by recent rain events were observed throughout this section of the channel during the survey.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 26 & 27 – Top photo shows Colma Creek looking downstream from the Orange Avenue bridge. Bottom photo shows fence damage downstream of the eastern Orange Park pedestrian bridge. **It was observed that fences at multiple locations along this segment of the channel are in need of repairs, which could be done by SSF staff/contractor once a new MOA with the District is in place.**

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 28 & 29 – 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 Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 30 & 31 – Top photo shows minor cracking observed at the recently repaired culvert outlet on the southern channel wall upstream of the Centennial Way pedestrian bridge. **Overall, the culvert outlet repairs made in 2018 remain in place.** Bottom photo shows Colma Creek looking downstream from the SSF BART Station box culvert.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 32 & 33 – Top photo shows Colma Creek looking upstream from the Costco pedestrian bridge. New graffiti was observed on the channel wall after old graffiti was abated by Town of Colma contractor. Bottom photo shows Colma Creek looking downstream from the Mission Road box culvert. Repairs to the defects in the Mission Road box culvert were completed in September and October, 2020.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: November 19, 2020



Photos 34 & 35 – Top photo shows new graffiti at the Old Colma Creek diversion structure. Bottom photo shows Old Colma Creek channel downstream of the El Camino Real bridge at the Mission Road intersection. **The Town of Colma has been abating graffiti and clearing vegetation in this section of the Old Colma Creek.**