

Stream Maintenance Report

June 17, 2019 through November 20, 2019

2019 Season End - Summary Report

Valley Water recently concluded a successful 2019 work season under its Stream Maintenance Program (SMP) for sediment removal, bank protection, and vegetation management. In addition, this year's work included instream habitat improvements. In total, Valley Water completed 409 vegetation management projects, 8 bank repairs, 15 sediment removal projects, and 1 instream habitat improvement project; vegetation management and minor maintenance work continues on various creeks throughout the county. Valley Water staff worked closely with regulatory agency personnel to secure needed approvals and received extensions to work on several projects past the October 15th work season deadline for sediment removal and bank stabilization projects.

Valley Water's Vegetation Field Operations Unit is currently focusing on SMP mitigation activities including 35 Invasive Plant Management Program (IPMP) projects and 24 revegetation projects. Field crews continue to work countywide on removing channel obstructions from fallen trees, trash and debris. Also, between July 1, 2019 and October 31, 2019, field crews cleaned up 170 encampments and removed 1,840 cubic yards of trash and debris.

Continued SMP work will focus on preparation of an annual summary report, which will be submitted to regulatory agencies in late January 2020. Upcoming SMP work will also include identification of potential stream maintenance projects for summer 2020. Valley Water staff will continue its efforts on program permit renewal, in addition to meeting with regulatory agencies in February/March 2020 to discuss lessons learned from the 2019 season. SMP external lessons learned meetings are conducted annually and provide Valley Water and regulatory agency staff an opportunity to understand and discuss design-, field- and regulatory-related opportunities for improvement.

Guadalupe River Vegetation Management -Highway 101 – San Francisco Bay

This season, over 56 acres of in-channel vegetation have been removed which includes 119 large trees (6-12" in diameter) at a cost of over \$656k and 7,233 labor hours for Vegetation Field Operations Unit staff. Vegetation removal efforts will continue throughout the winter which should add an additional 15 - 20 acres of removal throughout these reaches for an additional estimated cost of \$250K.

Once regulatory permits are obtained for the large invasive tree removal effort, it is expected that another 3.63 acres of riparian canopy will be removed for an additional estimated cost of \$75K.

The large native tree removal efforts are considered permanent impacts requiring the planting of 360 native trees and 2.8 acres of native riparian vegetation within Guadalupe Watershed. Approximate costs for the required mitigation and 5 year required monitoring to meet success criteria is \$550k. After the success criteria is met, an annual cost to maintain this mitigation is approximately \$15k per year.

Summary of sediment removal, bank protection, minor maintenance, and instream habitat improvement projects completed during 2019 SMP season

WORK TYPE	LOCATION	MUNICIPALITY	DISTRICT/ DIRECTOR	STATUS	ACCOMPLISHMENTS (ESTIMATED)
Sediment removal	West Branch Llagas Creek at Day Road	Gilroy	1 (Varela)	Completed 6/21/19	200 cubic yards
Minor maintenance – sediment removal	Ross Creek at Meridian Avenue	San Jose	4 (LeZotte)	Completed 6/21/19	25 cubic yards
Minor maintenance – sediment removal	Ross Creek at Jarvis Avenue	San Jose	4 (LeZotte)	Completed 6/21/19	25 cubic yards
Bank protection	Lions Creek upstream of Kern Avenue	Gilroy	1 (Varela)	Completed 6/27/19	25 linear feet

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WORK TYPE	LOCATION	MUNICIPALITY	DISTRICT/ DIRECTOR	STATUS	ACCOMPLISHMENTS (ESTIMATED)
Sediment removal	Ross Creek at Cherry Avenue	San Jose	4 (LeZotte)	Completed 7/1/19	80 cubic yards
Bank protection	Coyote Creek downstream of Charcot Avenue	San Jose	3 (Santos)	Completed 7/8/19	73 linear feet
Sediment removal	Guadalupe River downstream of Coleman Avenue	San Jose	2 (Keegan)	Completed 7/9/19	700 cubic yards
Bank protection	Coyote Creek upstream of Charcot Avenue	San Jose	3 (Santos)	Completed 7/19/19	40 linear feet
Bank protection	Permanente Creek downstream of Highway 101	Mountain View	7 (Kremen)	Completed 8/1/19	350 linear feet
Sediment removal	Guadalupe River, from Montague Expressway to Trimble Road	San Jose, Santa Clara	3 (Santos)	Completed 8/6/19	1,225 cubic yards
Sediment removal	Guadalupe River at Coleman Avenue**	San Jose	2 (Keegan)	Completed 8/7/19	640 cubic yards
Sediment removal	Calabazas Creek at Comer Drive	Saratoga	5 (Hsueh)	Completed 8/8/19	1,044 cubic yards
Sediment removal	Guadalupe River at San Fernando Street**	San Jose	2 (Keegan)	Completed 8/12/19	220 cubic yards
Bank protection	Regnart Creek upstream of Orogrande Place	Cupertino	5 (Hsueh)	Completed 8/14/19	236 linear feet
Instream habitat improvement	Los Gatos Creek downstream of Highway 17	Campbell	4 (LeZotte)	Completed 8/16/19	550 linear feet
Minor maintenance – concrete repair	Barron Creek at Bryant Street*	Palo Alto	7 (Kremen)	Completed 8/23/19	350 linear feet
Sediment removal	Sierra Creek downstream of Mauna Kea Lane	San Jose	3 (Santos)	Completed 9/3/19	1,064 cubic yards
Sediment removal	Guadalupe River, from Tasman Drive to Montague Expressway	San Jose, Santa Clara	3 (Santos)	Completed 9/6/19	3,000 cubic yards
Sediment removal	Llagas Creek upstream of Highway 152	Gilroy	1 (Varela)	Completed 9/13/19	12,070 cubic yards
Minor maintenance – sediment removal	Canoas Creek, Branham Lane to Lean Avenue	San Jose	4 (LeZotte)	Completed 9/16/19	80 cubic yards



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WORK TYPE	LOCATION	MUNICIPALITY	DISTRICT/ DIRECTOR	STATUS	ACCOMPLISHMENTS (ESTIMATED)
Minor maintenance – concrete repair	San Tomas Aquino Creek, from USGS gage near Williams Road to Virginia Avenue*	San Jose, Campbell	2 (Keegan), 4 (LeZotte)	Completed 10/1/19	2.1 miles
Bank protection	Thompson Creek upstream of Yerba Buena Avenue	San Jose	1 (Varela)	Completed 10/17/19	30 linear feet
Sediment removal	Stevens Creek upstream of Crittenden Lane	Mountain View	7 (Kremen)	Completed 10/18/19	16,000 cubic yards
Bank (levee) protection – rodent control	Uvas Creek, from Miller Avenue to end of levee (inboard)*, **	Gilroy	1 (Varela)	In-channel work completed 10/30/19	4,100 linear feet
Sediment removal, bank protection	Sunnyvale East Channel downstream of Highway 237	Sunnyvale	3 (Santos)	Completed 11/20/19	13,178 cubic yards, 430 linear feet

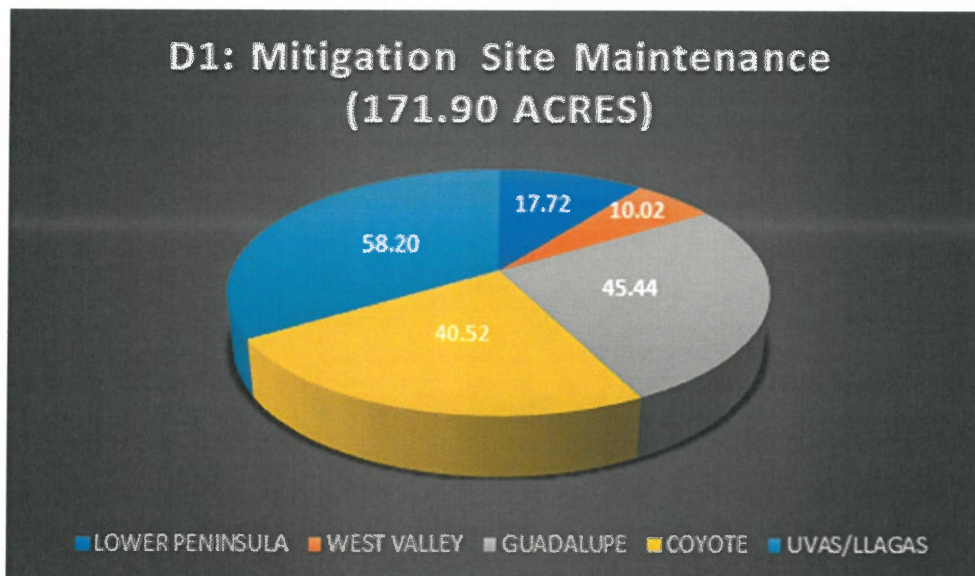
* Work performed by contractor

** Work not performed under SMP

The information in this report has been provided by Valley Water staff for SMP work between June 17 and November 20, 2019. As final accomplishments are gathered, some of the data reported here may change.

Safe Clean Water Priority D1: Management of Revegetation Projects

Mitigation Site Maintenance



This Safe Clean Water (SCW) project supports Valley Water maintenance of at least 300 acres of existing revegetation projects throughout the five watersheds and provides for maintenance of future revegetation sites.

The chart at left shows the work completed within this season.

Safe Clean Water Priority E.1.1: Vegetation Control for Capacity

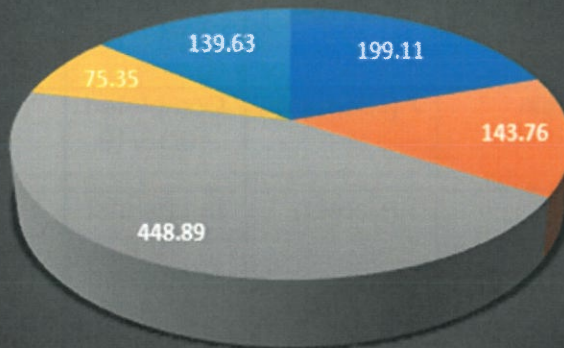
Aquatic Herbicide Application, Vegetation Removal < 6" dbh, Tree Removal 6–12" dbh, Limb Removal > 4" dbh



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E1.1: Instream Vegetation Removal for Flow Conveyance (1006.74 ACRES)



This SCW project supports Valley Water's ongoing instream vegetation removal activities for flow conveyance.

The chart below shows the work completed during this season.

Safe Clean Water Priority E.1.4: Vegetation Management for Access

Access Pruning, Weed Abatement, Upland Herbicide Application

E1.4: Upland Vegetation Removal for Access & Fire Code Compliance (1042.45 ACRES)



■ LOWER PENINSULA ■ WEST VALLEY ■ GUADALUPE
 ■ COYOTE ■ UVAS/LLAGAS ■ WATER UTILITY PROJECTS

This SCW project supports Valley Water's ongoing upland vegetation control activities for fire code compliance and maintaining access for personnel and equipment.

The chart at left shows the work completed during this season.

For questions or further information, please contact Melanie Richardson, Chief Operating Officer for Watersheds, at (408) 630-2035.