

# SURFACE WATER PROJECTS FY 2009-2010

**SURFACE WATER CAPITAL IMPROVEMENT PROGRAM BUDGET FY 09-10  
 PROJECT SUMMARY  
 Fund 3160.31600**

PROJECTS (dollars in \$000)	Life to Date Actuals thru 6/30/09	Proposed FY 09-10	PROJECTED				Total Estimate
			FY 10-11	FY 11-12	FY 12-13	FY 13-14	
C00500103 Railroad Track Relocation	\$ 1,194	\$ 337	\$ -	\$ -	\$ -	\$ -	\$ 1,531
C00500208 River Plan - Denman Phase 3	-	135	4,008	-	-	-	4,143
C00500308 Stream and Precipitation Gauges	-	81	-	-	-	-	81
C00500704 Storm Dredge Spoils	-	657	-	-	-	-	657
C00500705 Lakeville Channel Improvements	20	-	196	-	-	-	216
C00500804 Storm Drainage Improvements Upper Petaluma River Maintenance	6	225	325	325	325	325	1,531
C00500805 Dredging – Habitat Restoration	2	243	-	-	-	-	245
<b>TOTAL</b>	<b>\$ 1,222</b>	<b>\$ 1,678</b>	<b>\$ 4,529</b>	<b>\$ 325</b>	<b>\$ 325</b>	<b>\$ 325</b>	<b>\$ 8,404</b>

**SOURCES (DOLLARS IN \$000)**

Storm Drainage Impact Fees	\$ 1,222	\$ 1,506	\$ 521	\$ 325	\$ 325	\$ 325	\$ 4,224
State Grant	-	-	3,618	-	-	-	\$ 3,618
SCWA Zone 2A Assessments	-	172	390	-	-	-	\$ 562
<b>TOTAL</b>	<b>\$ 1,222</b>	<b>\$ 1,678</b>	<b>\$ 4,529</b>	<b>\$ 325</b>	<b>\$ 325</b>	<b>\$ 325</b>	<b>\$ 8,404</b>

**Project Title: Railroad Track Relocation**

**C00500103**

**PROJECT PURPOSE AND DESCRIPTION**

This project represents the final work of the Petaluma River Flood Control Project, and comprises two phases: Phase 1: Construction of the Industrial Lead Railroad Track; and Phase 2: Construction of the sheet pile wall and removal of sediment between the U-shaped channel and the trapezoidal channel. The City's costs include right-of-way acquisition and design. The U.S. Army Corps of Engineers (Corps) is responsible for the construction of this project.

**PROJECT PARAMETERS**

Environmental: N/A  
 Public Info: N/A  
 Schedule \* : Expected completion 2010. Project cost estimate through completion \$1,531,000.  
 Permits: N/A  
 Reference: N/A

**FINANCIAL OVERVIEW**

C00500103

Project Summary		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
1	35	36
1,032		1,032
100		100
5	35	40
		-
250		250
25		25
		-
		-
48		48
<b>TOTAL</b>	<b>70</b>	<b>1,531</b>

**USES (dollars in \$000)**

Planning/Environmental  
 Land & Easements  
 Design  
 Legal Services  
 Administration  
 Construction Contracts  
 Construction Management  
 Salaries/Benefits  
 Contingency  
 CIP Overheads

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees

1,461	70	1,531
<b>TOTAL</b>	<b>70</b>	<b>1,531</b>

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
Planning/Environmental	29	-	7					36
Land & Easements	828	16	188					1,032
Design	81	-	19					100
Legal Services	25	1	14					40
Administration		-						-
Construction Contracts	27	138	85					250
Construction Management		-	25					25
Salaries/Benefits								-
Contingency		-						-
CIP Overheads	49	-	(1)					48
<b>TOTAL USES</b>	<b>1,039</b>	<b>155</b>	<b>337</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,531</b>

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees  
 State Grant  
 SCWA Zone 2A Assessments

1,039	155	337					1,531
							-
							-
<b>TOTAL FUNDS</b>	<b>1,039</b>	<b>155</b>	<b>337</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,531</b>

**Project Title: River Plan – Denman Reach Phase 3**

**C00500208**

**PROJECT PURPOSE AND DESCRIPTION**

This project is located along the Petaluma River, upstream of Corona Road within the Denman Reach. The project consists of excavating a longitudinal bench along the low-flow channel of the river to create a flood terrace and restore the wetland and upland habitat areas upstream of the previously constructed Phase 1 and 2 projects. This will stabilize the existing incised river channel and unstable bank areas, improve hydraulic function, and reduce localized flood levels currently impacting adjacent development in the City and unincorporated areas. The project also includes the extension of an existing floodwall by approximately 1500 linear feet and 4 feet in height northwest of the Corona Road bridge to alleviate flooding in the commercial and residential area of Sonoma County located between the Petaluma River and Petaluma Blvd. North.

**PROJECT PARAMETERS**

Environmental: Mitigated Negative Declaration  
 Public Info: N/A  
 Schedule \* : Expected completion 2011. Project cost estimate through completion \$4,143,000.  
 Permits: U.S. Army Corps of Engineers, CA Department of Fish & Game, Regional Water Quality Control Board  
 Reference: Petaluma River Access Plan

**FINANCIAL OVERVIEW**

**C00500208**

<b>Project Summary</b>		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
40		40
30		30
65		65
		-
		-
340	2,868	3,208
30	290	320
		-
	480	480
24	(24)	-
<b>TOTAL</b>	<b>3,614</b>	<b>4,143</b>

**USES (dollars in \$000)**

Planning/Environmental  
 Land & Easements  
 Design  
 Legal Services  
 Administration  
 Construction Contracts  
 Construction Management  
 Salaries/Benefits  
 Contingency  
 CIP Overheads

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees  
 State Grant  
 SCWA Zone 2A Assessments

44		44
	3,614	3,614
485		485
<b>TOTAL</b>	<b>3,614</b>	<b>4,143</b>

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
Planning/Environmental		-	40					40
Land & Easements		-	30					30
Design		-	65					65
Legal Services		-						-
Administration		-						-
Construction Contracts		-		3,208				3,208
Construction Management		-		320				320
Salaries/Benefits		-						-
Contingency		-		480				480
CIP Overheads		-						-
<b>TOTAL USES</b>	-	-	135	4,008	-	-	-	4,143

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees  
 State Grant  
 SCWA Zone 2A Assessments

			40					40
				3,618				3,618
			95	390				485
<b>TOTAL FUNDS</b>	-	-	135	4,008	-	-	-	4,143

**Project Title: Stream and Precipitation Gauges**

**C00500308**

**PROJECT PURPOSE AND DESCRIPTION**

This project is located in the upper Petaluma River watershed within the city limits, as well as unincorporated Sonoma County. The project consists of the installation of ten additional gauges to measure and record stream depth and precipitation. The purpose is to obtain additional data necessary to evaluate surface water runoff and flooding in the watershed. These gauges will also augment the existing gauges used for City flood response activities. Completion of this project is contingent on receiving SCWA Zone 2A funding.

**PROJECT PARAMETERS**

Environmental: Initial study  
 Public Info: N/A  
 Schedule \* : Expected completion 2010. Project cost estimate through completion \$81,000.  
 Permits: CA Department of Fish & Game  
 Reference: N/A

**FINANCIAL OVERVIEW**

**C00500308**

Project Summary		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
		-
		-
3		3
		-
		-
71		71
3		3
		-
4		4
		-
<b>TOTAL</b>	-	<b>81</b>

**USES (dollars in \$000)**

Planning/Environmental  
 Land & Easements  
 Design  
 Legal Services  
 Administration  
 Construction Contracts  
 Construction Management  
 Salaries/Benefits  
 Contingency  
 CIP Overheads

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees  
 SCWA Zone 2A Assessments

4		4
77		77
<b>TOTAL</b>	-	<b>81</b>

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
<b>USES (dollars in \$000)</b>								
Planning/Environmental		-						-
Land & Easements		-						-
Design		-	3					3
Legal Services		-						-
Administration		-						-
Construction Contracts		-	71					71
Construction Management		-	3					3
Salaries/Benefits		-						-
Contingency		-	4					4
CIP Overheads		-						-
<b>TOTAL USES</b>	-	-	<b>81</b>	-	-	-	-	<b>81</b>

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees  
 State Grant  
 SCWA Zone 2A Assessments

		4						4
								-
		77						77
<b>TOTAL FUNDS</b>	-	-	<b>81</b>	-	-	-	-	<b>81</b>

**Project Title: Storm Dredge Spoils Reclamation Plan**

**C00500704**

**PROJECT PURPOSE AND DESCRIPTION**

This project will identify the long-term dredging needs, to maintain sufficient channel capacity and develop a management plan for continued operation of the dredge spoils reclamation site. This plan is expected to include specific implementation measures for future dredging of the Payran Flood Control Project and potential improvements to the dredge spoils disposal site.

**PROJECT PARAMETERS**

Environmental: N/A  
 Public Info: N/A  
 Schedule \* : Expected completion 2010. Project cost estimate through completion \$657,000.  
 Permits: N/A  
 Reference: N/A

**FINANCIAL OVERVIEW**

C00500704

Project Summary		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
150		150
50		50
		-
		-
400		400
30		30
		-
27		27
		-
<b>TOTAL</b>	-	<b>657</b>

**USES (dollars in \$000)**

Planning/Environmental Land & Easements  
 Design  
 Legal Services  
 Administration  
 Construction Contracts  
 Construction Management  
 Salaries/Benefits  
 Contingency  
 CIP Overheads

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees

657		657
<b>TOTAL</b>	-	<b>657</b>

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
<b>USES (dollars in \$000)</b>			150					150
Planning/Environmental Land & Easements			-					-
Design			50					50
Legal Services			-					-
Administration			-					-
Construction Contracts			400					400
Construction Management			30					30
Salaries/Benefits			-					-
Contingency			27					27
CIP Overheads			-					-
<b>TOTAL USES</b>	-	-	<b>657</b>	-	-	-	-	<b>657</b>

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees  
 State Grant  
 SCWA Zone 2A Assessments

		657						657
								-
								-
<b>TOTAL FUNDS</b>	-	-	<b>657</b>	-	-	-	-	<b>657</b>

**Project Title: Lakeville Channel Improvements**

**C00500705**

**PROJECT PURPOSE AND DESCRIPTION**

The City currently owns and maintains an open drainage ditch at 960 Lakeville Street. The ditch conveys storm water runoff from Lakeville Street and the surrounding area into an adjacent channel. Maintaining adequate flow capacity of this ditch is exacerbated by the growth of cattails. This project will clean out the ditch and install approximately 500 linear feet of pipe. The potential environmental impacts of this proposed project have been determined, and mitigation alternatives need to be evaluated in order to proceed with the construction of this project.

**PROJECT PARAMETERS**

Environmental: Negative Declaration  
 Public Info: N/A  
 Schedule \* : Expected completion 2011. Project cost estimate through completion \$216,000.  
 Permits: Regional Water Quality Control Board  
 Reference: N/A

**FINANCIAL OVERVIEW**

	Project Summary		
	Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
<b>USES (dollars in \$000)</b>			
Planning/Environmental	10	10	20
Land & Easements			-
Design	5	(5)	-
Legal Services			-
Administration			-
Construction Contracts	170		170
Construction Management	15		15
Salaries/Benefits			-
Contingency	5	5	10
CIP Overheads	1		1
<b>TOTAL</b>	<b>206</b>	<b>10</b>	<b>216</b>
<b>SOURCES (dollars in \$000)</b>			
Storm Drainage Impact Fees	206	10	216
<b>TOTAL</b>	<b>206</b>	<b>10</b>	<b>216</b>

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
<b>USES (dollars in \$000)</b>								
Planning/Environmental	19			1				20
Land & Easements								-
Design								-
Legal Services								-
Administration								-
Construction Contracts				170				170
Construction Management				15				15
Salaries/Benefits								-
Contingency				10				10
CIP Overheads	1							1
<b>TOTAL USES</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>196</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>216</b>

<b>SOURCES (dollars in \$000)</b>								
Storm Drainage Impact Fees	20			196				216
State Grant								-
SCWA Zone 2A Assessments								-
<b>TOTAL FUNDS</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>196</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>216</b>

**Project Title: Flood Drainage Improvements**

**C00500804**

**PROJECT PURPOSE AND DESCRIPTION**

Various streets and intersections throughout the City are susceptible to flooding during heavy downpours due to the lack of adequate drainage facilities. This project will annually identify and prioritize the necessary storm drain improvements required to reduce or eliminate ponding water. Specific locations and improvements will be determined as part of the detailed design. The construction timetable will depend on local considerations, such as street paving and repair schedules, construction of other utilities, redevelopment projects, and development activity.

**PROJECT PARAMETERS**

Environmental: Various  
 Public Info: N/A  
 Schedule \* : Expected completion 2015. Project cost estimate through completion \$1,631,000.  
 Permits: CA Department of Fish & Game, Regional Water Quality Control Board, U.S. Army Corps of Engineers  
 Reference: River Access Plan, Petaluma River Watershed Master Drainage Plan

**FINANCIAL OVERVIEW**

**C00500804**

<b>Project Summary</b>		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
		-
		-
300	(50)	250
		-
		-
1,350	(236)	1,114
120	6	126
		-
24	16	40
20	(19)	1
<b>TOTAL</b>	<b>(283)</b>	<b>1,531</b>

**USES (dollars in \$000)**

Planning/Environmental  
 Land & Easements  
 Design  
 Legal Services  
 Administration  
 Construction Contracts  
 Construction Management  
 Salaries/Benefits  
 Contingency  
 CIP Overheads

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees

<b>TOTAL</b>	1,814	(283)	1,531
--------------	-------	-------	-------

	<b>ACTUALS</b>		<b>PROPOSED</b>	<b>PROJECTED</b>				<b>Total Estimate *</b>
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
<b>USES (dollars in \$000)</b>								
Planning/Environmental		-						-
Land & Easements		-						-
Design		-	50	50	50	50	50	250
Legal Services		-						-
Administration		-						-
Construction Contracts	4		150	240	240	240	240	1,114
Construction Management	1		25	25	25	25	25	126
Salaries/Benefits								-
Contingency				10	10	10	10	40
CIP Overheads	1							1
<b>TOTAL USES</b>	<b>6</b>	<b>-</b>	<b>225</b>	<b>325</b>	<b>325</b>	<b>325</b>	<b>325</b>	<b>1,531</b>

**SOURCES (dollars in \$000)**

Storm Drainage Impact Fees  
 State Grant  
 SCWA Zone 2A Assessments

<b>TOTAL FUNDS</b>	6	-	225	325	325	325	325	1,531
--------------------	---	---	-----	-----	-----	-----	-----	-------

**Project Title: Upper Petaluma River Maintenance Dredging – Habitat Restoration  
 C00500805**

**PROJECT PURPOSE AND DESCRIPTION**

Between October 2002 and January 2003, the U.S. Army Corps of Engineers removed approximately 250,000 cubic yards of sediment from the Petaluma River. The dredged material was hydraulically mined from the river and deposited as slurry at the City’s 160-acre dredge spoil disposal site. The City constructed a berm to separate a 48-acre parcel in the southern portion of the site from the northern 112-acre area. The dredge slurry was placed on the northern 112 acres of the disposal site. The 48-acre parcel, referred to as Shollenberger Marsh, was set aside as compensation for potential salt marsh harvest mouse habitat in accordance with U.S. Fish and Wildlife Service requirements. Additional work is pending review of this plan by the appropriate resource and regulatory agencies.

**PROJECT PARAMETERS**

Environmental: Mitigated Negative Declaration  
 Public Info:  
 Schedule \* : Expected completion 2009. Project cost estimate through completion \$245,000.  
 Permits: N/A  
 Reference: N/A

**FINANCIAL OVERVIEW**

<b>C00500805</b>			
<b>Project Summary</b>			
	Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
<b>USES (dollars in \$000)</b>			
Planning/Environmental	10	10	20
Land & Easements			-
Design			-
Legal Services			-
Administration			-
Construction Contracts	160		160
Construction Management	20	5	25
Salaries/Benefits			-
Contingency	20	20	40
CIP Overheads	11	(11)	-
<b>TOTAL</b>	<b>221</b>	<b>24</b>	<b>245</b>
<b>SOURCES (dollars in \$000)</b>			
Storm Drainage Impact Fees	221	24	245
<b>TOTAL</b>	<b>221</b>	<b>24</b>	<b>245</b>

	<b>ACTUALS</b>		<b>PROPOSED</b>	<b>PROJECTED</b>				<b>Total Estimate *</b>
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
<b>USES (dollars in \$000)</b>								
Planning/Environmental	2		18					20
Land & Easements								-
Design								-
Legal Services								-
Administration								-
Construction Contracts			160					160
Construction Management			25					25
Salaries/Benefits								-
Contingency			40					40
CIP Overheads								-
<b>TOTAL USES</b>	<b>2</b>	<b>-</b>	<b>243</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>245</b>
<b>SOURCES (dollars in \$000)</b>								
Storm Drainage Impact Fees	2		243					245
State Grant								-
SCWA Zone 2A Assessments								-
<b>TOTAL FUNDS</b>	<b>2</b>	<b>-</b>	<b>243</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>245</b>



