

Year 2006/7 Work Plan

Santa Margarita Watershed Invasive Plant Program **The Santa Margarita *Arundo* Control Fund** **In-lieu Fee Mitigation Program**

August 1, 2006

Executive summary:

The Army Corps of Engineers has set up an in-lieu fee program for temporary impacts and small permanent impacts (less than 1 acre) to wetlands within the Santa Margarita watershed. The \$47,000 in mitigation fees collected over the past year (as of Aug. 1st, 2006) will be used in 2006 to restore riparian habitat by initiating treatments and native re-vegetation on at least 2.35 acres (at \$20,000 per acre bank cost) of tamarisk (salt cedar), *Arundo donax* (giant reed), *Lepidium latifolium* (perennial pepperweed), or re-vegetation of degraded habitat in the Santa Margarita watershed (Maps 1, Table 1). Additionally, areas initially treated in previous years will be re-treated if necessary and portions of the sites may have additional plantings of native trees and shrubs (mulefat, willows, cottonwoods, sycamores, and oaks) if it is determined more re-vegetation would be beneficial.

As specified in the program document, all work will be carried out by the Mission Resource Conservation District directly or through subcontractors.

Santa Margarita Watershed 2006 Restoration Areas:

1. Re-vegetation of degraded riparian habitat on Murrieta Creek and its tributaries on property owned by the City of Murrieta: several potential sites (Map 1).

Santa Margarita Project site	Acreage	<i>Arundo</i>	Tamarisk	Perennial pepperweed	Native Planting
Murrieta Creek	>2.35	No	No	No	Yes
Total:	>2.35 acres possible sites, 2.35 acres needed				

Native Re-vegetation Process for Both Invasive Plant Treatment Sites and Enhancement of Degraded Riparian Sites:

Native re-vegetation will occur in areas where *Arundo* biomass is reduced or mowed. Degraded sites that have been selected for re-vegetation may be prepared for planting by mowing ruderal weeds and spraying weeds that would compete for water and nutrients. Degraded sites

that have illegal access may also be fenced or barriers erected to reduce impacts from vehicles and foot traffic.

Plantings are 1 gallon container plants of native trees (cottonwood, willows, sycamore, and oak), shrubs (mulefat, toyon, and elderberry), and vines/rhizomatous plants (grape, rose and mugwort). Holes are dug by hand and wells are created around the plants. After planting the plants are watered in by hand and may be watered during the summer. Re-vegetated degraded sites are usually watered once every three to four weeks from June through September. Planting density is 300 plants per acre. The ratio of shrubs, trees and ground cover in open areas is approximately 4:1:1. If pre-existing native tree cover is present on site then the planting pallet consists of only shrub and ground cover species. Additional weed control may occur at sites to allow native plantings time to establish.

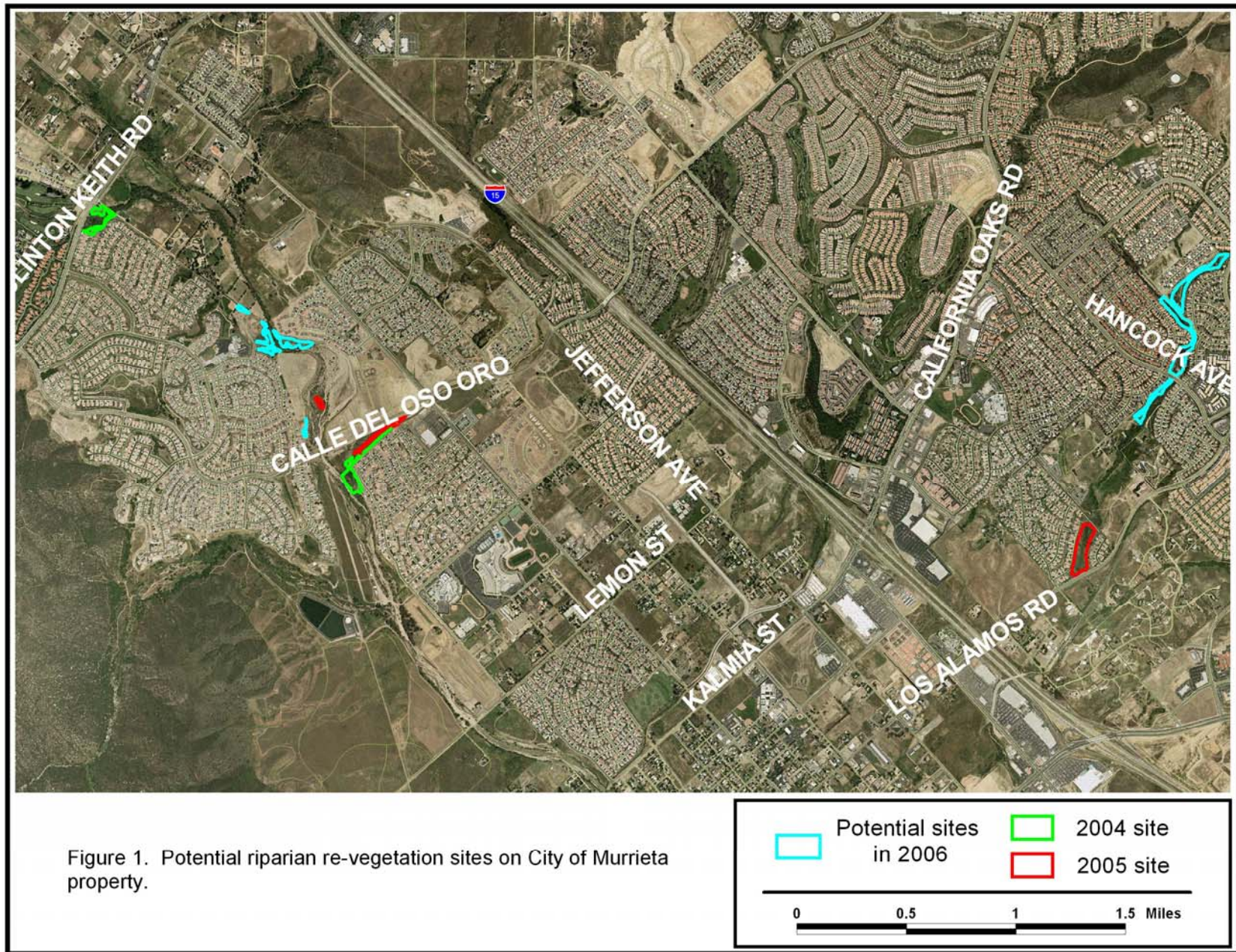
Private Landowner Education Program:

Educational outreach will target landowners that are adjacent to open space where restoration and non-native invasive plant treatments occur. These landowners will receive a “Landowner Handbook”, which is a collection of three color pamphlets and four fact sheets with detailed information on *Arundo* and invasive non-native species. A new “Don’t Plant A Pest” brochure has been developed for southern CA which identifies invasive non-native plants sold at nurseries and suggests non-invasive alternatives for the home owner. Property owners will also be encouraged to visit the WMA’s website at <http://www.smslrwma.org>, where they can obtain more updated and in-depth information on invasive non-native plants and alternatives. Many landowners have already seen newspaper articles on our *Arundo* and perennial pepperweed control efforts that were in the North County Times and the Union Tribune. We will attempt to have more articles in these newspapers as this has been very effective in “getting the word out”. MRCD/WMA staff who are knowledgeable about *Arundo* control and other local issues will also talk directly with property owners. This direct interaction is effective in obtaining permission to control the exotic plants present on the landowner's property and answering each person’s questions about the project.

Report Schedule:

2006/7 Monitoring report: due Aug 15th 2007

2007/8 Work plan and budget: due Aug 15th 2007



**Status of Funding for the
Santa Margarita In-Lieu Fee Program
as of July 31st 2006**

Year 2000 projects SANTA MARGARITA (\$10,000 per acre)

MRCID Invoice #	Date of Deposit	Check #	Project Name	Project/ Permit ID	Acreage	Amount of deposit	
			Guava Industrial Park	1999-15503-YJC	1.00	\$10,000	
			Santa Gertrudis Creek Bike Trail	1999-15104-SDM	0.21	\$10,000	
			SFPP.L.P	1-6-99-F54 & 1-6-99F-54R2	0.40	\$4,000	
			City of Temecula Sports Park	1999-15339YJC	1.00	\$10,000	
			Murrieta Hot Springs Road	6-073-00	0.50	\$5,000	
			Murrieta Creek	1999-15412-YJC	3.00	\$30,000	
			Total:		6.11	\$69,000	
			Year 1 work (in 2000): initial treatments			\$30,906	
			Year 2 work (in 2001): re-treatments and native plantings			\$6,257	
			Year 3 work (in 2002): re-treatments and native plantings			\$8,067	
			Year 4 work (in 2003): re-treatments and native plantings			\$5,728	
			Year 5 work (in 2004): re-treatments and native plantings			\$7,220	
			Year 5 work (in 2004): re-treatments and native plantings			0	
			Remaining funds:				\$9,322
			Projected Year 7 work (in 2006): re-treatments and native plantings			\$4,000	

Year 2001 projects SANTA MARGARITA (\$10,000 per acre)

MRCID Invoice #	Date of Deposit	Check #	Project Name	Project/ Permit ID	Acreage	Amount of deposit
			Oleander Ave.	2000-1061-YJC	0.25	\$2,500
			Santa Gertrudis Creek	2000-002160-SMS	1.20	\$12,000
			Tucalota Creek	00C-047 (SDCRB)	1.20	\$12,000
			City of Murrieta	2001-00417-DLC	0.50	\$5,000
			Elsinore Homes, Inc.		0.42	\$4,200
			BUIE Communities	200001129-YJC	1.00	\$10,000
			Taylor Henry	200101445-DLC	0.40	\$4,000
			Richland Communities	200000240-YJC	1.0	\$10,000
			Rancho CA Water District/HELIX	002590	0.5	\$5,000
			Total:		6.47	\$64,700
			Year 1 work (in 2001): initial treatments and native plantings			\$31,288
			Year 2 work (in 2002): re-treatments and native plantings			\$9,886
			Year 3 work (in 2003): re-treatments and native plantings			\$7,642
			Year 4 work (in 2004): re-treatments and native plantings			\$3,060
			Year 5 work (in 2005): re-treatments and native plantings			0
			Remaining funds:			\$12,823
			Projected Year 5 work (in 2006): re-treatments and native plantings			\$2,000

Year 2002 projects SANTA MARGARITA (\$10,000 per acre)

MRCD Invoice #	Date of Deposit	Check #	Project Name	Project/ Permit ID	Acreage	Amount of deposit
ILF # 13	4-18-02		MA Temeku Hills Development	01C-152	0.5	\$5,000
	7-31-02		Richmond: Moreno Valley Ranch	DFG:R6-2002-023	2.0	\$20,000
27	1-22-03		Winchester LLC	29707	1.0	\$10,000
84	7-15-03		DKN Holdings LLC	6-2002-039	0.5	\$5,000
Total:					4.0	\$40,000
Year 1 work (in 2002): Initial treatment and native plantings						\$22,565
Year 2 work (in 2003): re-treatments and native plantings						\$6,252
Year 3 work (in 2004): re-treatments and native plantings						\$123
Year 3 work (in 2005): re-treatments and native plantings						0
Remaining funds:						\$11,060
Projected Year 4 work (in 2006): re-treatments and native plantings						\$3,500

Year 2002 San Luis Rey

MRCD Invoice #	Date of Deposit	Check #	Project Name	Project/ Permit ID	Acreage	Amount of deposit
			Lilac Elemen. School: Dept of Fish & Game	SAA#5-095-00	0.69	\$17,250
Total:					0.69	\$17,250
Year 1 work (in 2002): Initial treatment and native plantings						\$11,987
Year 2 work (in 2003): re-treatments and native plantings						\$1,862
Year 3 work (in 2004): re-treatments and native plantings						\$0
Year 3 work (in 2005): re-treatments and native plantings						\$0
Remaining funds:						\$3,400
Projected Year 4 work (in 2006): re-treatments and native plantings						\$1,500

Year 2003 projects SANTA MARGARITA (\$10,000 per acre)

MRCID Invoice #	Date of Deposit	Check #	Project Name	Project/ Permit ID	Acreage	Amount of deposit	
78	7-9-03		OTI Oak Hills	6-2003-137	0.4	\$4,000	
			Pinnacle	ACOE: 03C-011	2.0	\$20,000	
142	9-18-02		Ashbrook	TM-23435	2.0	\$20,000	
117	11-4-03		Beazer Homes	03c-105	1.0	\$10,000	
					5.4	\$54,000	
			Year 1 work (in 2003): treatments and native plantings				\$27,953
			Year 2 work (in 2004): re-treatments and native plantings				\$20,545
			Year 3 work (in 2005): re-treatments and native plantings				0
			Remaining funds:				\$5,502
			Projected Year 3 work (in 2006): re-treatments and native plantings				\$0

2003 San Luis Rey

MRCID Invoice #	Date of Deposit	Check #	Project Name	Project/ Permit ID	Acreage	Amount of deposit	
76	10-22-03		Lighthouse Ventures LLC	R5-2002-0100	0.2	\$4,000	
125	11-18-03		Heritage Oaks, LLC Strawberry Fields II	401: #03c-094 & 404: 200300670-RJL	0.5	\$10,000	
				Total:	0.7	\$14,000	
			Year 1 work (in 2003): Initial treatment and native plantings				\$10,695
			Year 2 work (in 2004): Initial treatment and native plantings				\$0
			Year 3 work (in 2005): Initial treatment and native plantings				\$0
			Remaining funds:				\$3,305
			Projected Year 3 work (in 2005): re-treatments and native plantings				\$1,000

Year 2004 projects SANTA MARGARITA (\$20,000 per acre)

MRCID Invoice #	Date of deposit	Check #	Project name	Project ID	Acreage	Amount of deposit
135	12-31-03	388727	Eastern Municipal Water District	RWQCB 401: 03c-144	0.5	\$10,000
166	2-10-04	82479	Emmanuel Faith Comm Ch		1.5	\$30,000
186	3-30-04	090785	City of Temecula	RWQCB 401: 03c-058 & ACOE 404:200400719DLC	0.2	\$4,000
197	3-18-04	1232	Cameo Homes	DFG: 2004-5038-R6	1.0	\$20,000
199	4-23-04	10088	Lennar Homes	RWQCB 401: 03c-135	0.5	\$10,000
213	4-24-04	138	Cameo Homes	DFG: 2003-5119-R6	0.5	\$10,000
				ACOE 404:200400479DPS		
				RWQCB: 03c-149		
215	6-21-04	006269	Esquera Dev LLC	DFG: 2004-5033-R6	1.0	\$20,000
219	6-16-04	0500444440	Riverside County Trans Dept	DFG:	1.0	\$20,000
228	6-10-04	1103	Regency Centers	RWQCB 401: 03c-039	1.5	\$30,000
230	6-10-04	2384	Adams Landscape	RWQCB 401: 04c-044	0.1	\$2,000
252	8-12-04	64070717	Beazer Homes	RWQCB 401: 03c-114	1.0	\$20,000
257	8-11-04	5170	Murrieta Corp Cent	DFG: 2004-0058-R6	2.0	\$40,000
263	8-10-04	001022	Pinnacle: Highpoint Communities	DFG: 6-2003-079	1.0	\$20,000
					11.8	\$236,000
Year 1 work (in 2004): Treatments and native plantings						\$103,880
Year 2 work (in 2005): Maintenance and native plantings						\$45,283
Remaining funds:						\$86,837
Projected Year 3 work (in 2006): Maintenance and native plantings						\$12,000

Year 2005 projects SANTA MARGARITA (\$20,000 per acre)

Deposits made into county account, draft information

MRCID Invoice #	Date of deposit	Check #	Project name	Project ID	Acreage	Amount of deposit
269	10-26-04	0500532200	Riverside County Tr (part 1)	DFG:2003-5069-R6	0.275	5,500.00
472			Riverside County Tr (part 2)	DFG:2003-5069-R6	0.225	4,500.00
303	12-15-04	1236	Tera Cor	DFG: 2004-0029-R6	0.240	4,800.00
305	12-28-04	1018	Steve Adams	DFG: 1600-2004-0108-R6	0.060	1,200.00
322	2-9-05	26	Helix for Paul Garrett	RWQCB: 401-04c-069	0.200	4,000.00
327	3-7-05	2405	Helix for Heritage Oaks	RWQCB: 401-04c-069	1.000	20,000.00
248	7-14-04	3000234	Warm Springs Investment	RWQCB: 401-04C-041	0.500	10,000.00
268	9-21-04	094272	City of Temecula	RWQCB: 401-03C-011	0.797	15,940.00
356	6-22-05	2389-54428	City of Murrieta	ACOE: 2001-004-17-SMJ	2.000	40,000.00
470	10-26-05	18224	Helix for Vinyards view east	RWQCB: 401-05c-071	0.040	800.00
469	10-27-05	1371	Cassatt Academy	RWQCB: ?	0.033	660.00
442	8-9-05	0500727919	Riverside County Trans	RWQCB: 05c-036	0.150	3,000.00
430	8-24-05	369615	MWD	RWQCB: 05c-040	0.050	1,000.00
426	8-15-05	07318	Ryland Homes	ACOE: 2000-01577-DRS	1.500	30,000.00
473	12-6-04	445	BEG LLC	ACOE: 950012100-DLC	0.100	2,000.00
					7.17	\$167,400
Year 1 work (in 2005): Treatments and native plantings						\$97,127.73
Remaining funds:						\$70,272.27
Projected Year 2 work (in 2006): Maintenance and native plantings						\$35,000

2005 San Luis Rey (\$20,000 per acre)

MRCID Invoice #	Date of deposit	Check #	Project name	Project ID	Acreage	Amount of deposit
449	9-7-05	1015668	Richland	DFG: 5-492-98	0.4	8,000
330	4-4-05	76141246	Palomar Community	DFG: 1600-2004-0422-R5	0.2	4,000
345	4-26-05	65902	Vallecitos Water District	DFG: 1600-2004-0402-R5	1.0	20,000
		167	Amtrak	RWQCB 401: 03c-108	0.03	600
					1.63	\$32,600
Projected Year 1 work (in 2005): Treatments and native plantings						\$14,940
Remaining funds:						\$17,660
Projected Year 2 work (in 2006): Maintenance and native plantings						\$8,000\$

Year 2006 projects SANTA MARGARITA (\$20,000 per acre)

Deposits made into county account, draft information

MRCD Invoice #	Date of deposit	Check #	Project name	Project ID	Acreage	Amount of deposit
502	2-9-06	502	Keystone Comm	DFG: 05-0214-R6	0.10	2,000
504	2-28-06	105903	Lennar Communities: Harveston LLC- Ynez Bridge	DFG: 03-507-81-R6	0.25	5,000
509	2-16-06	2320	Palmilla LLC	RWQCB: R9-05-0259	0.50	10,000
528	Not payed yet		Murrieta Corp Center	DFG: 04-058-R6	1.50	30,000
					2.35	\$47,000
Projected Year 1 work (in 2006): Treatments and native plantings						
						Remaining funds: