

Appendix 1: 2008 Wetland Tracker Projects--Compensatory Mitigation and Restoration through April 30, 2009 . Revised 12/23/09¹.

This worksheet provides summary information for projects that were required to construct wetland or riparian mitigation projects to compensate for losses to these habitats and for restoration projects that contributed additional acreage of these habitats but may have resulted in some losses during construction of these habitats.

WT#	PROJECT NAME	Applicant	Monitoring period (years) unless otherwise noted	Impact type ²	Impact (loss) and habitat type										Mitigation type ³	Project notes	Mitigation notes	
					Loss		Restoration		Creation		Enhancement		Preservation					
					ac	If	ac	If	ac	If	ac	If	ac	If				
51	Mission San Jose Water Treatment Plant Access Road Erosion Mitigation Project, Vargas Creek	Robert Shaver, Alameda Co. Water Dist.	5	SBS	Loss	0.41	100	Restoration		Creation		Enhancement		Preservation		Other, see comments	Impacts from construction of steel beam and lagging wall to stabilize creek bank. Mitigation: fluvial geomorphic assessment to evaluate sources of erosion to be performed in lieu of off-site mitigation; to be completed by 12/31/2012. Future erosion control projects to be designed in accordance with recommendations from this study per 401 cert letter and WT form.	
52	Hillview Project	Sid Afshar, Brilliant Management LLC	5	NCR	Loss	0.17	80	Restoration	0.17	80	0.52	640	0.34	678		on, +k	Impacts to Riparian vegetation from grading and installation of 13 foot diameter culvert. Construction delayed; new start date 4/09 per permittee. Hard copy of 401 cert.	Mitigation project: tree planting and vegetated stormwater treatment swales. 640 If created not included in 2008 staff report.
53	Bernal Av. Bridge road widening project	Mr. Huy Ho, City of Pleasanton	5	T	Loss	0.46		Restoration	0.81	210	2.68					On, off, +k	Impacts=0.46 ac Riparian on WT form; 401 cert letter: 0.07 ac, permanent fill, 0.38 ac permanent shading from new bridge. Required mitigation=1.21 ac Riparian; created mitigation of 2.68, 0.81 r; total=3.49 ac. Riparian acreage only, since not a linear feature per 12.22.09 e-mail. Leaves 2.28 ac available to mitigate for future City of Pleasanton projects per MMP, 401 cert.	
54	San Pablo Dam Seismic Upgrade Proj. (Pavon Creeks/Scow Canyon)	Mr. Atta Yiadom, EBMUD	10	M	Loss	2.00		Restoration		Creation	2.00					On, Off, +k	12.23.09: revised form states losses as follows: 0 rip area/channel; 1.3 ac seeps. Enhanced=2500 If rip chan (no acreage), created=1500 If rip chan (no acres), 0.1 ac rip area (no If), 2 ac seeps created. WT form notes: Habitat impacts likely to be less than planned. 401 cert: Impacts=2.12 ac; 5 ac Riparian; 1.5 ac freshwater marsh; 62 ac temporary caused by excavating for seismic reinforcement of dam foundation, vegetation loss, fill of wetlands	401 cert: applicant will fund vegetation Enhancement within the San Pablo Creek watershed downstream of the San Pablo dam. Reflected in 7 ac, unknown habitat (TBD).
55	Southbound Interstate 680 Sunol Grade Hov Lane Widening Project	Hardeep Takhar, Caltrans District 4	4	T	Loss	0.17	606	Restoration	0.72	660	0.42	330				On, off, +k	Impacts=-.176 ac (660 If Riparian, .006 ac depressional) from construction of retaining wall and bridge buttress. Creek daylighting and revegetation. An additional small wetland to be constructed 2011 per BT, this represents the unknown wetland type.	
56	Moraga Road Pipeline Project	Serge Terentieff, EBMUD	5	E	Loss	0.03	20	Restoration	0.09	20						On, Off, +k	Impacts=0.03 ac riparian channel, 0.01 ac riparian area (figures from accompanying aerial photos; table 54 shows <0.1) from installation of 3 miles of new pipeline. WT form shows <0.1 ac rip ch and rip area. Used more precise figures	Mitigation: onsite: 0.1 ac depressional restored, 0.1 ac d created; 0.09 ac riparian restored (figures from accompanying photographs); rounded to nearest tenth on WT form. 401 cert indicated off site mitigation project to be constructed Spring/Summer 2010.; 0.02 acres of enhanced willow riparian habitat at Homestead Pond Project; enhancement/creation project: 3.4 acres, 1,340 linear feet of riparian, seasonal wetland, and pond habitats.

WT#	PROJECT NAME	Applicant	Monitoring period (years) unless otherwise noted	Impact type ²	Impact (loss) and habitat type		Project type ³ and habitat type ⁴						Mitigation type ⁵	Project notes	Mitigation notes
					ac	If	ac	If	ac	If	ac	If			
57	San Ramon Creek, Alamo	Michael Erwin, San Ramon Valley YMCA	5	NCC	Loss	Restoration	Creation	Enhancement	Preservation	on, +k	Impacts: 0.19 ac, 185 lf riparian from bridge and building construction.	Creation : 0.25 acre of new wetland and flood terrace habitat, Enhancement: 1.16 acre of riparian area planting, Preservation: 0.74 ac,			
					0.19	185		0.25	282	1.16		0.74	1747		
					rip	rip		rip	rip	rip		rip	rip		
58	Front Street Bank Stabilization Prj														Creation : 0.25 acre, 282 lf of new wetland
59*	Cross connections controls Prj	Antonia Fairbanks AFairbanks@sfgater.org., SFPUC			Loss	Restoration	Creation	Enhancement	Preservation		Tracker form received August 2009. Data not included in report. Permanent Impacts=.0143 ac, 129 LF	.03 ac Rip Enhanced.			
					0.014	20	0.02	9		0.02	9				
					rip ar	rip ar	rip ar	rip ar		rip ar	rip ar				
60*	Isabel Ave./1580 Interchange	Mike Irby, City of Livermore									Permanent impacts=.085 ac; .05 ac, 412 LF and .035 ac; see 401 cert letter for temporary impacts. TRACKER FORM originally DUE 12/15/08; new due date being negotiated. Most recent correspondence with applicant 7.14.09	1. Onsite: 2.01 ac oak woodland habitat including .74 ac wetlands. Off site: .49 ac seasonal wetlands; 2.69 ac, 2800 lf Riparian woodlands			
61	Bayfront Park Tidal Wetland Restoration Proj	Christine Sansom, Mill Valley Parks & Rec	5	RES	Loss	Restoration	Creation	Enhancement	Preservation	on, +k	Mitigation project for construction of Mill Valley Community Center in 1993. Current project impacts caused by removal of existing vegetation, excavation and regrading to target elevations.	Mitigation=.25 es created; .06 enhanced. Vegetation expected to recruit naturally.			
					0.05			0.25		0.06					
					Es			Es		Es					
62	Tom Fraser, Waldo Point Harbor	Waldo Point Harbor	5	NCR	Loss	Restoration	Creation	Enhancement	Preservation	On, off, +k	Project result of a settlement to clean up pollutants and consists of building of new dock for houseboats, removal of old dock and piers, debris removal, construction of new outfalls.	Mitigation sites=.11 (Waldo Point Harbor) and .82 Almonte Marsh; both			
					0.11			0.92							
					Es			Es							
63	Mills College Lion Creek Stream Channel Stabilization														
64	Arroyo Seco Improvement Program	Mike Janes, Sandia National Laboratory	20	RES	Loss	Restoration	Creation	Enhancement	Preservation	Non	401 cert letter identifies 0.13 ac of impacts from soil excavation and concrete removal.	All Riparian: 2 ac created; 865 lf creation not included in 2008 report.13 ac (over an overall expanse of 10 acres);1800 lf enhanced; .44 ac 1370 lf preserved			
					0.13	1800		0.20	865	0.13	1800	0.44	1370		
					Rip	Rip		Rip	Rip	Rip	Rip	Rip	Rip		
65	Preserve at Redwood Shores	Max Keech, Keech Properties	5	NCR, NCC	Loss	Restoration	Creation	Enhancement	Preservation	off, +k	Impacts from 401 cert=4.5 ac non-tidal emergent wetlands; 1.2 ac non-tidal open pond water caused by construction of elementary school and new affordable housing. Loss of 6 ac unknown habitat listed on WT form, 4.5 will be labeled estuarine, 1.2 open water as noted in block 44 on WT form, general project comments. For purposes of analysis, these impacts will be summed as 5.7 ac estuarine.	Estuarine: 1 ac preserved,11.44 ac es created [401 cert]. [70 ac es created, 17 ac U enhanced, 2 ac B created.] on wetland tracker form. Wetland tracker form to be corrected per SRL 10/22/09. 401 cert letter: Creation of an 82.8 ac preserve to be used for the Preservation and Creation of wetlands.			
					4.50			11.4				1.0			
					Es			Es			Es				
					1.20			2.00		17.0					
					EsO			B		U					
					W										
66	Azaya Ranch Vineyard Project Phases I and II	Ms. Ira McEvoy	4	NCC	Loss	Restoration	Creation	Enhancement	Preservation	on, +k	Historical impacts=.06: palustrine/seasonal wetland from unpermitted creation of reservoir, filling of stockpond in 2005.	0.12 ac created; .35 ac restored; 3.18 ac preserved			
					0.06		0.35		0.12			3.18			
					O		O		O		O				
67	Zone 5 Line F-1Plummer Creek Restoration, Newark	Stanley Fung, Alam. Co. Public Works Agency	None	RES	Loss	Restoration	Creation	Enhancement	Preservation	Non	Non mitigation. Temporal loss of 0.03, 150 lf estuarine habitat from removal of concrete box culvert, daylighting of channel and reseeded with native hydroseed mix.	.03 (150 lf) estuarine restored			
					0.03	150	0.03	150							
					Es	Es	Es	Es							
68	Mare Island Northgate Interchange Project	Gary Leach; City of Vallejo	5	T	Loss	Restoration	Creation	Enhancement	Preservation	on, off, +k	Impacts: fill from construction of bike path and off ramp.	Estuarine. 0.13 created; 6.437 preserved. 1.13 adj buffer habitat restored, but not included in calculation of no net loss.			
					0.04			0.13				6.437			
					Es			Es			Es				

WT#	PROJECT NAME	Applicant	Monitoring period (years) unless otherwise noted	Impact type ²	Impact (loss) and habitat type		Project type ³ and habitat type ⁴										Mitigation type ⁵	Project notes	Mitigation notes
					ac	If	ac	If	ac	If	ac	If	ac	If	ac	If			
69	John Muir Drive Erosion Control Project	YinLan Zhang, SFPUC	4	M	Loss		Restoration		Creation		Enhancement		Preservation		on, +k	Impacts to riparian shoreline of Lake Merced from installation of drilled pier retaining wall, stacked boulder wall, rock lined stilling basin, and bioengineered shoreline (NOA) to prevent further erosion.	75 lf, 0.045 ac restored.		
					0.15	50	0.45	75											
					Rip	Rip	Rip	Rip											
70	Zone 6 Line E Bank Failure Repair,																		
71	Keswick Village Project	G.W. Teal Corporation	N/A	NCR/NCC	Loss		Restoration		Creation		Enhancement		Preservation		off, +k, -k MB	Total existing wetland/Riparian acres=4.51. Impacts according to 401 cert letter: .37 ac fill; .23 ac vernal pool; .13 ac seasonal wetlands, .01 ac (300 lf) Riparian; caused by construction of mixed use development.	Wetland mitigation bank credits purchased through Wildlands Inc.		
					0.23				0.74				0.92						
					V			V				V							
					0.13								4.14						
					S							D							
					0.01	300													
					Rip	Rip													
72	Zone 2 Line C																		
73	20/40 Hilton Court Slide repair/Walnut Creek																		
74	Conn Creek Slide Repair Project																		
75	Environmental Volunteers Ecocenter Project	Bill Fellman, Palo Alto	4	NCC	Loss		Restoration		Creation		Enhancement		Preservation		on, +k	.07 ac tidal marsh filled; estuarine closest match to habitat. Impacts caused by expansion to existing structure.	Replanting native tidal marsh plants, primarily pickleweed.		
					0.07		0.04				0.1								
					Es		Es				Es								
76*	DONG RESIDENCE BANK STABILIZATION																		
77	Cedar St. Drainage Project																		
78	Stanford Univ. Water supply Enhancements (Steelhead Habitat Enhancement Project (SHEP))	Thomas Zigterman, Stanford	5, 10	M	Loss		Restoration		Creation		Enhancement		Preservation		on, off, +k	Impacts from upgrading water supply infrastructure, installation of new fishways.	0.425 seasonal (lacustrine) wetlands to be created at Webb Ranch-- off site mitigation; .013 ac of sloughing bank at Trancos Creek to be stabilized, revegetated.		
					0.19				0.43										
					Lac			Lac											
					0.29		0.01												
					Rip		Rip												
79	Caldecott Tunnel Improvement Project	Cristina Ferraz, CALTRANS	5	T	Loss		Restoration		Creation		Enhancement		Preservation		on, +k, -k	Impacts from construction of new tunnel. Riparian impacts/mit. in Alameda Co., seeps impacts/mit. in Contra Costa.	0.055 enhanced; existing concrete lined drainage ditch through concrete removal, regrading, and Riparian planting; no size increase.		
					0.022														
					S														
					0.002	25				0.55	147								
					Rip	Rip			Rip	Rip									
80	Kirby Hills Natural Gas Storage Facility, Suisun	Scott Wilson, Lodi Gas Storage, L.L.C.	5	NG	Loss		Restoration		Creation		Enhancement		Preservation		on, +k	Impacts from fill resulting from rehabilitation of existing natural gas well.	Restore 1.0 ac estuarine mudflats to estuarine marsh. MMP indicates construction period Mar-Summer 2009; as-built habitat map to be submitted then.		
					0.40		1.0												
					Es		Es												
81	Sulphur Creek Enhancement Project	Luis Samayoa, Hayward Pub. Works	10	NCC, T	Loss		Restoration		Creation		Enhancement		Preservation		off, +k	This project mitigates for impacts from two previously permitted but expired projects: WT 504 and 505. Impacts from these projects are as follows: 504: Riparian, 120 lf (.044 ac); 505: Riparian, 419 lf (.06 ac). Only temporary impacts for this mitigation.	Riparian: channel area: 1392 lf, .52 ac restored; 31 lf, 0.30 ac created. Riparian area: .34 ac created Restoration=regrading channel, adding meanders, and revegetating.		
					0.104	539	0.52	1392	0.64	31									
					Rip	Rip	Rip	Rip	Rip	Rip									

WT#	PROJECT NAME	Applicant	Monitoring period (years) unless otherwise noted	Impact type ²	Impact (loss) and habitat type		Project type ³ and habitat type ⁴										Mitigation type ⁵	Project notes	Mitigation notes
					ac	If	ac	If	ac	If	ac	If	ac	If	ac	If			
82	Holdener Park Mitigation Project,	Joseph Lopez, Chevron Pipeline Co.	5	NG	Loss		Restoration		Creation		Enhancement		Preservation		off, +k	Off-site mitigation for .0375 temporary riparian impacts from previous project, San Antonio pipeline project (WT 28 2007) per WT form project description and 2007 401 cert. This project has permanent impacts of 0.03 from rip rap fill per 2008 cert; left off form. Form corrected, sent to applicant and SFEI.	Project will stabilize and revegetate 600 lf of stream channel. WT form states Creation of .496 ac stream channel, Enhancement of 0.38 ac stream channel. 600 lf rip loss/enhancement not included in 2008 staff report.		
					0.03	600			0.50		0.38		600						
					Rip			Rip		Rip									
83	Union Sanitary District Force Main Access Improvement Project	Sami Ghossain, Union City & Fremont	5	E	Loss		Restoration		Creation		Enhancement		Preservation		off, +k	Depressional: .093 ac (habitat type from WT form, impact acreage from 401 cert); impacts caused by improvements to existing roads and construction of new roads to provide better access to sanitary facilities.	Depressional (seasonal): .15 ac created.		
					0.09				0.15										
					D			D											
84	Zone 12 Line I Seminary Creek Sediment Removal	Rick Ruiz, Alameda County Flood Control & Water Conservation District	2	M	Loss		Restoration		Creation		Enhancement		Preservation		on, +k	Temporal impacts; vegetation loss from sediment removal affecting .05 ac wetlands.	0.084 ac estuarine habitat restored		
					0.06	636	0.08	636											
					Es	Es	Es	Es											
							0.05												
							B												
85	Brookside Creek Bank Stabilization																		
86	Belmont Creek Maintenance Dredging Project																		
87	Recovery Action Plan for the SF Garter Snake	Nixon Lam, SFInt Airport	10	RES	Loss		Restoration		Creation		Enhancement		Preservation		Non	.07 ac permanent impacts to Riparian channel; temp. impacts .47 ac. 60 lf loss not included in 2008 staff report.	0.6 ac, ? lf Riparian channel created, 0.1 ac depressional enhanced. Habitat Enhancement for the SF garter snake and CA red-legged frog including channel Creation and widening, installation of sediment trap, and removal of invasive plants.		
					0.07						0.6								
					Rip					Rip									
										0.1									
										D									
88	Alhambra Highlands Mitigation	Richfield Investment Corp., Houston, TX	5	NCR	Loss		Restoration		Creation		Enhancement		Preservation		on, off, +k	Impacts from residential construction.: Depressional: 0.144 ac, 250 lf; seeps/springs 0.021 ac; Riparian 0.042 ac 1410 lf	0.25 ac depressional created; 0.54ac seeps/springs enhanced; 0.67 ac 3901 lf Riparian enhanced. Both on/off site mitigation.		
					0.14	250			0.25										
					D	D		D											
					0.02					0.54									
					S					S									
					0.04	1410				0.67	3901								
					Rip	Rip				Rip									
90	Alhambra Valley Rd./Vaca Creek Bank Sediment Removal and Vegetation Trimming in																		
91*	Red Top Road Truck Climbing Lane Project	Caltrans														Revised cert issued 2/25/09. New tracker due date is October 30, 2009. Riparian impacts: 198 linear feet; other wetland type: .067 ac.	Purchase .2 ac Preservation credits freshwater seeps. Wetland; restore 600 lf Riparian.		

WT#	PROJECT NAME	Applicant	Monitoring period (years) unless otherwise noted	Impact type ²	Impact (loss) and habitat type		Project type ³ and habitat type ⁴						Mitigation type ⁵	Project notes	Mitigation notes	
					ac	If	ac	If	ac	If	ac	If				ac
92	WHITE HOUSE POOL															
93	125 Fox Hollow Rd Bank Repair															
94	961-981 Bing Street Bank Stabilization,															
95	Biagi/Kendall Jackson Wine Dist. Ctr	American Canyon	5	NCC	Loss	Restoration	Creation	Enhancement	Preservation				on, off, +k	- Discrepancy: 401 cert: 0.72 ac seasonal wetland; 90 lf (.02 ac) unveg swale. WT form: 0.76 ac vernal pool. WT figures used in calculations.	Discrepancy: 401 cert: 0.83 ac seas wetland created; 2.3 ac wetlands preserved. 450 lf riparian restored. WT form: 0.76 ac vernal pool created; 1.56 ac vp preserved. 450 lf riparian restored (off-site).	
					0.76		450		0.76							
					V		Rip	V								
96	C-17 Assault Landing Zone	U.S. Air Force	In perpetuity	NCC	Loss	Restoration	Creation	Enhancement	Preservation				off, +k, MB	Impacts: 1.1 ac v from construction of landing pad.	1.6 ac vernal pool restored through purchase of seasonal wetland credit	
					1.10		1.6									
					V		V									
97	Washington Creek Sediment Removal Project															
98	Vineyard Creek Enhancement															
99	SR1 Culvert Outfall Repair Project															
100	Larkspur Creek tributary, Gokoffski residence															
101*	Puigas Discharge Channel Modifications Project	SFPUC	10	M	Loss	Restoration	Creation	Enhancement	Preservation				off, +k	Tracker form received August 2009. Data not included in report. Riparian, temporal impacts, .20 ac. Repair of channel.	Mitigation: 0.02 acres of enhanced willow Riparian habitat at Homestead Pond Project; Enhancement/Creation project: 3.4 acres, 1,340 linear feet of Riparian, seasonal wetland, and pond habitats. To be constructed Spring/Summer 2010.	
								0.06								
102	Salvador Channel Bank Restoration & Erosion Cr															
102.1*	New Crystal	SFPUC	10	E	Loss	Restoration	Creation	Enhancement	Preservation				off, +k	Tracker form received August 2009. Data not included in report. Construction of new tunnel to replace undersized one.	0.04 ac seasonal wetland to be created; enhance 0.15 acres and 100 linear feet of riparian; an additional 0.05 acres of enhanced riparian habitat due to long term loss of 50 lf of mature riparian forest.	
					0.02		0.03		0.05							
					D		D									
102.2	Zone 4 Line A															
102.3	Benicia Bridge	Union Pacific	N/A	T	Loss	Restoration	Creation	Enhancement	Preservation				off, +k, MB	Impacts from replacing a bridge. Temporary impacts of 0.005 ac mitigated onsite through revegetation.	Elsie Gridley Mitigation Bank creation credits purchased. 401 cert ltr describes different mitigation project; could not be implemented.	
					0.03		0.09									
					Es		Es									
102.4	Franklin Creek (Line 14) Restoration	Paul Modrell, Alameda County Public Works														
102.5*	Bair Island Restoration Project	CDFG, USFWS	15	Res	Loss	Restoration	Creation	Enhancement	Preservation				on, +k	Data not included in 2008 staff report. Originally certified in 2008. Amended ODR issued 3/12/08. Estuarine marsh: Inner=39 acres, Middle=1.44 ac, Outer=6.5 ac. Middle/Outer: conversion of 1022.54 ac diked salt marsh, 51.77 ac muted tidal salt marsh to estuarine marsh; counted as loss.	1385.76 ac estuarine marsh restored.	
					1122		1386									
					Es		Es									
102.6*	South Bay Salt Pond Restoration Project	CDFG, USFWS	50	Res	Loss	Restoration	Creation	Enhancement	Preservation				on, +k	Data not included in 2008 staff report tables and figures. Lost habitat (256 acres estuarine) described as salt ponds in WDR.	Restored habitats=2360 ac est. marsh + 709 ac reconfigured managed salt ponds.	
					256		3069									
					Es		Es									

1. Data received after 4/30/09 were not incorporated into the tables and figures used in the 2008 staff report; these are highlighted in purple (except for #s 102.5 and 102.6 which will be added to the 2009 report) and marked with an asterisk (*). Data in this appendix was last updated 12/23/09.

2. Impact types codes: T=transportation NCR=new construction residential NCC=New constr commercial SBS=stream bank stabilization SED=Sediment removal

M=Maintenance Res=Restoration NG=natural gas exploration Non=no permanent impacts E=expansion of existing facility

3. Project type codes: Gains: R=Restoration C=Creation of new habitat Improved (no net increase in habitat): E=Habitat Enhancement P=Preservation O=other

4. Habitat type codes: Es=estuarine C=Coastal lagoon L=lacustrine D=depressional V=vernal pools & swales (seasonal) S=seeps and springs Rip=Riparian OW=Open water U=Unknown B=buffer O=other

5. Mitigation type codes: On=on site Off=off site +k=in-kind -k=out of kind MB=mitigation bank Non=Non-mitigation