

Appendix H. Implementation Actions

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Table H-1. Summary of Top Ranking, High Priority Opportunities by Jurisdiction, Area, and Total Cost Estimated

Type	Jurisdiction ¹	Total Area or Length	Low Cost Estimate	High Cost Estimate
Buffer Restoration	Carlsbad	97 acres	\$7,458,000	\$14,530,000
	Carlsbad, Vista	4 acres	\$180,000	\$343,000
	Unincorporated	16 acres	\$1,254,000	\$2,443,000
	Vista	11 acres	\$845,000	\$1,647,000
Land Acquisition	Carlsbad	8 acres	\$563,000	\$1,367,000
	San Marcos	199 acres	\$19,772,000	\$49,868,000
	Unincorporated	180 acres	\$17,525,000	\$44,095,000
Stream Restoration	Carlsbad	8,326 feet	\$3,139,000	\$3,139,000
	Carlsbad, Oceanside	4,933 feet	\$1,380,000	\$1,380,000
	Oceanside	2,237 feet	\$625,000	\$625,000
	Unincorporated	3,529 feet	\$1,097,000	\$1,097,000
	Vista	12,594 feet	\$2,986,000	\$2,986,000
	Vista, Unincorporated	516 feet	\$1,355,000	\$1,355,000
Wetlands Restoration	Carlsbad	4 acres	\$331,000	\$976,000
	Carlsbad, Oceanside	21 acres	\$1,593,000	\$4,668,000
	Carlsbad, Vista	4 acres	\$151,000	\$556,000
	Vista	18 acres	\$1,038,000	\$3,382,000

¹Jurisdiction indicates in which jurisdictions the opportunities are located. Some opportunities span the borders of two jurisdictions. “Unincorporated” refers to opportunities located in the unincorporated portion of the County of San Diego.

Table H-2. Management Plan Implementation

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
New Development Site Management			
Revision of local codes to incorporate recommended <i>Basic LID</i> techniques. <i>Basic LID</i> techniques include reducing and disconnecting impervious area; extended dry detention; swales or bioretention; and stream buffers. (Included in the 2007 Order)	- Co-permittees as part of local funding	- Co-permittees	March 2010
Tracking compliance with stormwater management and LID. - Review the site plan and engineering plans for compliance with LID requirements. - (Included in the 2007 Order)	- Co-permittees as part of local funding	- Co-permittees - Watershed Coordinator	Ongoing
Implementation of the <i>Enhanced LID</i> techniques as new hydrology and/or new water quality requirements are adopted. - Additional revision of local codes, as needed, to meet future, more stringent requirements.	- Co-permittees as part of local funding	- Co-permittees	As needed
Feasibility study for cisterns, porous pavement, and bioretention w/out irrigation.	- Grants (SWRQCB) - Prop 84 (stormwater) - Water Authority (for cisterns) - Ocean Protection Council - Private sector demonstration projects	- Local jurisdictions	August 2008- 2013
Preservation			
Field evaluation.	-	- NGOs - CA Fish and Game - US Fish and Wildlife - ACOE (with project proponent)	August 2008 – February 2009

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Identify project proponent (site-by-site) (Note: Project proponent is one or more entities that wishes to acquire the project site. The proponent may be a local government or other agency, an NGO and/or a private sector entity that has mitigation needs.)	-	- Watershed Coordinator (new) - Local jurisdictions - NGOs	TBD
Landowner outreach	-	- NGO (for private property) - Local jurisdictions for public property	TBD
Coordination with cultural resources priorities	-	- NGO	TBD
Secure funding sources	- See Sustained Funding and Support Section	- Project Proponent - Watershed Council - NGOs - CA Fish and Game - US Fish and Wildlife - ACOE	TBD
Identify/secure stewardship organizations	-	- Project proponent	TBD
Develop stewardship plan	-	- Stewardship organization	TBD
Purchase Property	-	- NGOs - CA Fish and Game - US Fish and Wildlife - ACOE - MHCP/MSCP programs	Goal: Acquire 25 priority properties within 10 years (by 2018)
Annual acquisition/restoration workshop	-	- Watershed Coordinator - NGOs (existing) - CA Fish and Game - US Fish and Wildlife - ACOE	1 st Workshop August 2009 Annually thereafter
Update/maintain prioritization tool	-	Watershed Coordinator (new) or NGO	Annually

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Riparian Buffer and Wetland Restoration			
Project proponent identification (site-by-site basis) - (Note: Project proponent is one or more entities that wish to conduct stream buffer or wetland restoration on the project site. The proponent may be a local government or other agency, an NGO and/or a private sector entity that has mitigation needs.)	-	- Watershed Coordinator - Local jurisdiction - NGO	TBD
Field evaluation	-	- Project proponent	TBD
Landowner outreach	-	- NGO	TBD
Contact ACOE and other permitting agencies	-	- Project proponent	TBD
Coordinate with trails and infrastructure	-	- Project proponent	TBD
Coordination with cultural resources priorities	-	- Project proponent	TBD
Preliminary design and cost estimate	-	- Project proponent	TBD
Secure needed permits	-	- Project proponent	TBD
Securing funding	- See Sustained Funding and Support Section	- Project proponent	TBD
Secure stewardship organizations	-	- Project proponent	TBD
Final planning and design	-	- Project proponent	TBD
Develop stewardship plan	-	- Project proponent	TBD
Implement Projects	-	- Project Proponent	
Annual acquisition/restoration workshop	-	- Watershed Coordinator - Local jurisdiction - NGO	1 st Workshop August 2009 Annually thereafter
Updating/maintaining prioritization tool	-	- Watershed Coordinator - Local jurisdiction - NGO	Annually

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Stream Restoration Projects			
Landowner outreach	-	- Watershed Coordinator - Local jurisdiction - NGO - Project Proponent	TBD
Project proponent identification (site-by-site basis) - (Note: Project proponent is one or more entities that wish to conduct stream restoration on the project site. The proponent may be a local government or other agency, an NGO and/or a private sector entity that has mitigation needs.)	-	- Watershed Coordinator - Local jurisdiction - NGO	TBD
Contact ACOE and other permitting agencies	-	- Project proponent	TBD
Coordinate with trails and infrastructure	-	- Project proponent	TBD
Coordinate with cultural resources priorities	-	- Project proponent	TBD
Preliminary design and cost estimate	-	- Project proponent	TBD
Secure needed permits	-	- Project proponent	TBD
Secure funding sources	- See Sustained Funding and Support Section	- Project proponent	TBD
Secure stewardship organization	-	- Project proponent	TBD
Final planning and design	-	- Project proponent	TBD
Develop stewardship plan	-	- Project proponent	TBD
Implement projects	-	- Project proponent	TBD
Annual acquisition/restoration workshop	-	- Watershed Coordinator - Local jurisdiction - NGO	1 st Workshop August 2009 Annually thereafter
Update prioritization tool; coordinate with sewer and storm drain infrastructure programs	-	- Watershed Coordinator - Local jurisdiction - NGO	Ongoing

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Stormwater BMP Retrofit			
Site selection and feasibility (untreated areas)	- Local jurisdictions - Grants	- Local jurisdictions	September 2008- September 2011
Collection of additional site data (demonstration projects)	- Local jurisdictions	- Local jurisdictions	September 2008- September 2009
Landowner outreach	- Grants	- Local jurisdictions	January 2009 – January 2010
Preliminary design and cost estimate	- Local jurisdictions - Grants	- Local jurisdictions	TBD
Secure needed permits	- Grants	- Local jurisdictions	TBD
Final planning and design and cost estimates	- Local jurisdictions - Grants	- Local jurisdictions	TBD
Secure funding	- See Sustained Funding and Support Section	- Local jurisdictions	TBD
Implement Projects	- Local jurisdictions - Grants	- Local jurisdictions	TBD
Monitor effectiveness/efficacy of demonstration projects	- Grants	- Local jurisdictions	TBD
Monitoring and Enforcement			
Long term stream and lagoon monitoring program (supplementing current monitoring by Co-permittees) - Collect and assess physical, chemical, and biological data - Periodically report on monitoring results	- Co-permittees - NGOs (streamteam) - University	- Co-permittees - NGOs (streamteam) - University	Ongoing
Long-term wetlands monitoring (CRAM) - Collect and assess physical, chemical, and biological data Periodically report on monitoring results	- NGOs - Grants (WRP, other)	- NGOs	Ongoing
Inspections and maintenance of sanitary sewer systems - Check lines for leaks, illicit connections, and overflows. - (Included in SSO WDR)	- Ongoing sewer agency actions	- Sewer agencies	Ongoing

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Monitoring effectiveness/efficacy of BMP demonstration projects	- Local jurisdictions - Grants - University	- Local jurisdictions - Universities	TBD
Inspections and maintenance of storm drainage systems - Increase efforts to clear and maintain storm drains and drainageways to remove deposited materials. - (Included in “Regional Channel Maintenance” program)	- Local jurisdictions (ongoing)	- Local jurisdictions (ongoing)	Ongoing
Construction site inspection and enforcement action - Conduct on-site site inspections and take enforcement actions, as needed, during construction - (Included in the 2007 Order)	- Local jurisdictions (ongoing)	- Local jurisdictions (ongoing)	Ongoing
Stormwater BMP inspection and enforcement - Staff inspect onsite stormwater management systems and take enforcement action, as needed, on failing systems - (Included in the 2007 Order)	- Local jurisdictions (ongoing)	- Local jurisdictions (ongoing)	Ongoing
Tracking key Watershed Management Plan Indicators.	- Grants	- Watershed Coordinator - NGO	September 2011 Report (every 3 to 5 years)
Citizen Stewardship/Public Outreach			
Collaborative Agua Hedionda Watershed Council -	- See Sustained Funding and Support Section	- Local jurisdictions	September 2008-September 2009
Reporting to local governments and local boards -	- See Sustained Funding and Support Section	- Watershed Council	Annually
Distribution of educational materials/training - Watershed health - Good housekeeping measures - Citizen/classroom monitoring	- See Sustained Funding and Support Section	- Watershed Council - Local Jurisdictions (Co-permittees) - NGOs (e.g. CWN)	TBD
LID workshops and training -	- See Funding and Sustained Support Section	- Local Jurisdictions (Co-permittees) - NGOs (e.g. CWN)	TBD

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Landowner Workshops on Land Preservation	- See Funding and Sustained Support Section	- Watershed Coordinator - NGOs	TBD
Annual awards program -	- See Funding and Sustained Support Section	- NGOs - Watershed Council	TBD
Annual progress workshop	- See Funding and Sustained Support Section	- Local jurisdictions - Watershed Council - NGOs - Other watershed partners	TBD
Management partnerships	- See Funding and Sustained Support Section	- Local jurisdictions - University - Private mitigation proponents: Developers, Caltrans, etc. - US Fish and Wildlife - CA Fish and Game - SANDAG - Etc.	Ongoing
Agua Hedionda Website	- See Funding and Sustained Support Section	- Watershed Coordinator	Ongoing

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Funding and Sustained Support			
<p>Grant Programs</p> <ul style="list-style-type: none"> - Identify target grant programs - Match projects to grant programs - Scope projects, identify partnerships and matching funds - Contact appropriate agencies & discuss projects - Prepare grant applications 	<ul style="list-style-type: none"> - SWRCB (Prop 84) - DWR (Prop 84 and 1e) - San Diego County IRWM (Prop 84) - EPA 319(h) - CA Ocean Protection Council (OPC) - Wetland Recovery - State Tribal and local Government (EPA) - Transnet (SANDAG) 	<ul style="list-style-type: none"> - Watershed Coordinator - NGO - Local jurisdictions 	<p>Ongoing</p>
<p>Coordination with Agencies</p> <ul style="list-style-type: none"> - Identify target agencies and funding opportunities through agency programs - Meet quarterly with appropriate agencies to discuss priorities and opportunities - Coordination with Universities 	<ul style="list-style-type: none"> - Wetland Recovery Project (Coastal Conservancy) - Wildlife Agencies (DF&G, DF&W, Dept. of Conservation) - MSCP/MHCP Program - Caltrans - Channel Maintenance Programs - Transnet (SANDAG) 	<ul style="list-style-type: none"> - Watershed Coordinator - NGO - Local jurisdictions/agencies 	<p>Ongoing</p>
<p>Mitigation Programs</p> <ul style="list-style-type: none"> - Meet with jurisdictions and agencies to discuss mitigation banks and in-lieu fee programs - Align projects with mitigation banks and in-lieu fee programs - Obtain agency support for mitigation banks and in-lieu fee programs - Outreach to development community 	<ul style="list-style-type: none"> - Mitigation Banks and In-lieu programs - Project Mitigation Needs (developers, Caltrans, etc.) 	<ul style="list-style-type: none"> - Watershed Coordinator - NGO - Local jurisdictions 	<p>TBD</p>

Management Plan Component	Potential Funding Sources	Responsible Group(s)	Implementation Timeline
Watershed Council Support (Watershed Coordinator Support) <ul style="list-style-type: none"> - Prepare scope for watershed and staffing needs (\$) - Obtain local support from agencies, jurisdictions, NGOs and the business community - Identify grant/funding opportunities and pursue with grant proposals - Redirection of City fees 	<ul style="list-style-type: none"> - Wetland Recovery Project (grants) - Department of Conservation (grants) - Local jurisdictions - Local businesses 	Start up <ul style="list-style-type: none"> - Local jurisdictions Ongoing Support <ul style="list-style-type: none"> - Watershed Coordinator - Local jurisdictions - Other watershed partners 	September 2008-September 2009