

## Goal 2.4 | Mauka to makai watershed management

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
<b>Runoff and Drainage</b>							
Update and 4.01	Implement the Maui Meadows Subdivision Drainage Master Plan.	CIP	Medium	On-going	DPW	TBD	County
4.02	Update the Kīhei Drainage Master Plan for flood prevention and coastal water quality protection and sensitive ecosystems management in South Maui. Update the plan with the findings presented in the Ecological Alternatives Analysis prepared by EcoSolutions LLC (2020). Take into account the impacts that upland development have downstream. Prioritize green infrastructure and low impact development where feasible.	Project	Medium	Mid	DPW	500	County
4.03	Develop a Stormwater Management Program Plan in South Maui, similar to Kahului-Pā‘ia’s, with programs and practices for stormwater runoff management from County and private actions.	Project	High	Long	DPW	TBD	County

Update and

Rob comment: Add "utilizing natural infrastructure and nature-based systems to the fullest extent possible"

Rob comment: see <https://www.mauicounty.gov/DocumentCenter/View/129665/Maui-Meadows-Subdivision-DMP-2019-06>

Rob comment: Ecosolutions alternative plan

Rob: and the recommendations of the South West Maui Watershed Plan

Rob comment: Add "natural infrastructure and nature-based solutions"

Completed 2/15/2023

Rob comment: Develop a Stormwater Quality Management Plan

Rob comment: see <https://www.mauicounty.gov/DocumentCenter/View/105685/Maui-SWMP>

Michael comment: MS4 NPDES permits are required in urbanized areas. Small MS4s are automatically designated as regulated if they are defined by the Bureau of the Census as an "urbanized area" (a land area comprising one or more places and the adjacent densely settled surrounding area that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile).

**Lehua:** Regularly maintain and clear sediment basins and culverts in the mauka/upland areas within both direct and indirect alignment of South Maui to minimize/mitigate the potential damage from downstream flooding.

**Planning:** Provide resources to regularly maintain and clear sediment basins and culverts in the mauka/upland areas within both direct and indirect alignment of South Maui to minimize the potential damage from downstream flooding.

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
<b>Runoff and Drainage</b>							
4.04	Regularly maintain and clear sediment basins and culverts in South Maui.	Program	Medium	On-going	DPW	N/A	N/A
4.05	Design and implement green infrastructure modifications along South Kthei Road to mitigate stormwater runoff and minimize damage from flooding.	CIP	Medium	Mid	DPW	200	County
4.06	Provide resources for upland forest conservation, invasive species control, and restoration projects to improve forest cover and functions, and reduce downstream flooding.	Project	Medium	Short	OM	2,000	Federal
<b>Restoration</b>							
4.07	Create a wetland preservation and restoration program for South Maui to reduce flood impacts from stormwater runoff, improve coastal water quality to protect sensitive ecosystems and expand open space areas.	Program	Medium	Mid	PD	TBD	County, State

MVA: MVA is also currently pursuing sand dune preservation at Haycraft Park and Ma'alea Bay Beach. Please include that under 4.09-4.12.

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	<b>Restoration</b>						
4.08	Continue to support the Lā'ie Wetland Restoration Project. Develop a low impact pedestrian and bike path near the Lā'ie Wetland to allow access the beach and greenway.	Project	Medium	Short	DPW	300	County
4.09	Develop and implement a comprehensive dune restoration plan, identifying methods, funding, and stewardship, for the North Kīhei area between the NOAA Whale Sanctuary and the Kīhei Canoe Club.	Project	On-going	Mid	PD	TBD	County, State
4.10	Continue to fund a Dune Management Coordinator position and fund the implementation of strategies for sand dune protection. <b>Rob comment: Tara asked for additional resources for dune protection</b>	Program		On-going	PD	400	County, State
4.11	Create a South Maui Ridge to Reef Initiative (R2R) to leverage resources across several agencies and community groups to implement actions to reduce land-based pollution that impacts coral reefs.	Program	Medium	Mid	OM	TBD	Private
4.12	Obtain funding and implement a program to monitor and care for all South Maui nearshore waters.	Program	Medium	Mid	OM	TBD	State

**Michael: Support the protection and rehabilitation of riparian zones with feral ungulate fencing and native plants.**

**Planning: Provide resources for the protection and rehabilitation of riparian zones with feral ungulate fencing and native plants.**

South Maui Community Plan

August 2022

Planning Department Draft

**Michael: Support R-1 reuse on the landscape to mitigate for axis deer damage, recharge depleted aquifers, and provide forage for livestock (local food security)**

**Planning: Develop and implement a plan for R-1 reuse**

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	<b>Hazards</b>						
4.13	Develop a mitigation plan for Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties within South Maui that includes raising building elevation, relocation, flood proofing, transfer of development rights, or buyout.	Project	Medium	Mid	DPW	TBD	County, State, Federal
4.14	Propose amendments to the Maui County Code flood hazard ordinance to implement more strict NFIP Substantial Improvement regulations for properties in SFHA, including modifying the timeframe to 20 years to make it more difficult for older improvements to “expire” and no longer count towards the substantial improvement timeline.	Program	Medium	Mid	DPW	50	County
4.15	Coordinate with Maui County Floodplain Manager to pursue funding opportunities from organizations like FEMA’s Building Resilient Infrastructure and Communities program for community-wide flood mitigation projects and support implementation of nature-based solutions to enhance ecosystems and reduce flood risks.	Project		On-going	DPW	TBD	Federal

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	<b>Hazards</b>						
4.16	Leverage existing erosion and sea level rise studies to develop and implement localized beach management and coastal adaptation plans. <i>Mark: managed retreat needs to be called out explicitly and prioritized or South Maui could end up like West Maui in 10 - 20 years</i>	Project	High	Mid	PD	TBD	County
	<b>Miscellaneous</b>						
4.17	Prepare an overall improvement plan for county parks that includes a description of proposed facility improvements and approaches to reducing the environmental impact of park facilities. <i>Rob comment: why is this here instead of in the Parks section?</i>	Project		Mid	DPR	TBD	County

**Robin: proposed facility improvements and restoration approaches**

**Robin: Implement the Southwest Maui Watershed Plan**

**Robin: Create a Watershed Management PROGRAM which requires the Department of Planning and Department of Public Works to comply with the watershed plans and practices when issuing permits**

**Robin: Establish a watershed advisory group which includes participation from Stakeholders Mauka to Makai including agencies that manage or regulate lands, residents and landowners, interested community groups and NGOs**

**Robin: Establish a watershed wide water quality monitoring program to measure the quality of runoff and the mass loading of pollutants from the major gulches/streams/waterways**