MAINTAIN YOUR RAINSCAPING SOLUTION

MAINTENANCE FOR RAINSCAPING SOLUTIONS

Regular inspections and maintenance are key to keep RainScaping solutions working. Use the table below to take action and ensure your RainScaping solutions perform as intended. If concerns arise, see "Troubleshooting Problems" guidance later in this section.

RAINSCAPING SOLUTION		MAINTENANCE ACTIVITY	FREQUENCY	TIMING	NOTES (SEE DETAILS IN SECTION 3)
Photo: Iron Age Design	Berms & Trench Drains	Clear debris	3 to 4 times annually	Rainy season	Clear debris from outlets, inlets, and uphill side of berms
	Compost (Amended Soils)	Lawns: Aerate lawn and top dress with compost	Once every 1 to 3 years	Spring or fall	After aeration, overseed and top dress with 1/4 to 1/2 inch of compost
		Planting beds: Replenish mulch	Once every 1 to 3 years	Fall, winter, or spring	Replenish mulch to appropriate depth after weeding to reduce watering and prevent new weeds
	Drainage Outlet Protection	Inspect for erosion	Annually, as needed	After major storms	Refer to Troubleshooting for guidance
Photo: Valley Conservation		Clear debris	3 to 4 times annually	Rainy season	Check for blockages and clear debris until water freely flows
		Replace decaying wooden level spreader boards	Every five years or as needed	Dry season	Ensure the board is level and intact

	RAINSCAPIN	G SOLUTION	MAINTENANCE ACTIVITY	FREQUENCY	TIMING	NOTES (SEE DETAILS IN SECTION 3)
			Maintain vegetation	As needed	Anytime	Prune 6 inches from siding
	Drip-Line Protection	Replenish mulch	Once every 1 to 3 years	Fall, winter, or spring	 Replenish mulch to appropriate depth after weeding to reduce watering and prevent new weeds Keep mulch 6 inches from structural siding 	
	A Special States		Replenish rock or ground cover	As needed	Anytime	Replenish to cover bare soils
		Gutters & Downspouts	Clear debris	Annually and as needed	Before major storms	 Clear gutters, screens, and downspouts Install downspout strainers or gutter guards to reduce maintenance
			Inspect and repair	Annually and as needed	Rainy season	 Repair leaks to avoid structure damage For standing water, adjust brackets to avoid mosquito breeding
			Prune vegetation	As needed	Anytime	Trim plants at least 24 inches from gutters
4		Landscaping Naturally Wet Areas	Maintain Plantings	As needed (essential in first 3 years)	Anytime	Remove weeds by hand when soil is moistWater as needed during dry season
A.1. (19.00)			Replenish mulch	Once every 1 to 3 years	Fall, winter, or spring	 Replenish mulch to appropriate depth after weeding to reduce watering and prevent new weeds Keep mulch 2 inches from plant stems
	1	Maintain plantings	As needed (essential in first 3 years)	Anytime	Remove weeds by hand when soil is moistWater as needed during dry season	
F	Photo: Linda Andrews	Lawn Alternatives	Replenish mulch	Once every 1 to 3 years	Fall, winter, or spring	 Replenish mulch to appropriate depth after weeding to reduce watering and prevent new weeds Keep mulch 2 inches from plant stems

RAINSCAPING SOLUTION	MAINTENANCE ACTIVITY	FREQUENCY	TIMING	NOTES (SEE DETAILS IN SECTION 3)
Mulch	Replenish mulch	Once every 1 to 3 years	Fall, winter, or spring	 Replenish mulch to appropriate depth after weeding to reduce watering and prevent new weeds Keep mulch 2 inches from plant stems and 6 inches from structural siding
	Inspect slopes for erosion	Annually	Rainy season	Refer to troubleshooting for guidance
	Clear sediment and debris	Annually and as needed	Dry season	Sweep leaves regularly; vacuum per pavement manufacturer's recommendation
Permeable Paving Options	Remove weeds from joints between pavers	As needed	Anytime	Hand pull weeds
Paving Options	Re-sand joints between modular pavers	Annually and as needed	Dry season	Sweep fine sand over the blocks to prevent repositioning and settling and reduce weeds
	Maintain plantings	As needed (essential in first 2 years)	Anytime	Remove weeds by hand when soil is moistWater as needed during dry season
Rain Gardens	Replenish mulch	Once every 1 to 3 years	Fall, winter, or spring	 Replenish mulch to appropriate depth after weeding to reduce watering and prevent new weeds Keep mulch 2 inches from plant stems
	Clear inlets and outlets	3 to 4 times annually	Rainy season	Check for blockages and clear debris until water freely flows

RAINSCAPING SOLUTION	MAINTENANCE ACTIVITY	FREQUENCY	TIMING	NOTES (SEE DETAILS IN SECTION 3)
	Clear debris	As needed throughout the rainy season	Rainy season	Clear mesh, screens and strainers in collection system and gutters/downspouts
Rainwater Collection Systems (Cistern &	Inspect tank and plumbing	Annually and as needed	Rainy season	Repair leaksReplace parts as needed
Rain Barrel)	Drain and clean tanks	Annually	Late summer	 Rinse out accumulated sediment Disinfect annually if water is used for edible plants
Retaining Walls	Verify drains remain functional	Annually	Rainy season	 Check for blockages and clear debris until water freely flows Keep outlets clear of debris
& Terraces	Inspect walls for signs of failure	Annually and as needed	Rainy season	If the wall is cracked, leaning, bulging, or sagging, contact a geotechnical engineer
	Clear debris	3 to 4 times annually	Rainy season	Clear debris from gutters, downspouts, and overflow
Underground Infiltration	Clean out yard drains	Annually	Dry season	Remove debrisDispose dried debris in trash
Photo: Nick Hansen	Maintain vegetation	As needed	Anytime	Keep plants trimmed back from yard drains and overflows to allow water to flow freely

TROUBLESHOOTING PROBLEMS

When problems occur, intervention is needed. For many RainScaping solutions, you may be able to resolve the issue yourself with guidance offered in the table below. For more complex issues or if the problem does not resolve, seek the services of a qualified professional.

	OBSERVATION	POTENTIAL CAUSES	TROUBLESHOOTING STEPS
PROBLEM: Water			
	Ponding near underground pipes	Pipes may be damaged, disconnected, or blocked	 Clear inlets and outlets of debris Conduct a video camera pipe inspection. Rent a probe from a hardware store or consult a drainage contractor
Ponding water	Ponding on permeable pavement surfaces	Pavement or paver joints may be clogged	 Clean per manufacturer's recommendations Avoid chemical treatments to prevent surface damage and polluted runoff
	Overflowing gutters	Downspouts may be clogged	Clear downspouts and outlets of debris
		There may be too few downspouts draining the roof area	Drain no more than 700 square feet of roof area to a single downspout
Modified Photo: Alpha on Flickr		Brackets holding up the gutter may have failed or shifted	Adjust brackets to gently slope gutters toward downspouts
Overflowing gutters	Overflowing drains in yards, driveways or parking areas	Pipes or drains may be clogged	 Clear pipes and drains of debris Conduct a video camera pipe inspection. Rent a probe from a hardware store or consult a drainage contractor
		Infiltration system may be undersized or improperly installed	Consult a drainage professional (see Section 5 Resources)
Flooded foundations,	Flooded foundations, basements, or crawlspaces	Downspouts discharge too closely to house	Extend the outlet to release water at least 10 feet from house
		Water from downspouts flows toward house	 Redirect outlets so water flows downhill and away from house If soil around home is not properly sloped, consult an earthwork contractor
basements, and crawlspaces		Unknown causes	Consult a drainage professional (see Section 5 Resources)

	OBSERVATION	POTENTIAL CAUSES	TROUBLESHOOTING STEPS				
PROBLEM: Vegetati	PROBLEM: Vegetation						
	Dead or dying plants	Plantings may need deeper and more frequent watering	 Refer to the 'Smart Watering' publication Consult a WSU Master Gardener for plant diagnosis and care 				
Dead plant		Plants may not be suited to site conditions or are experiencing other problems	 Refer to the '<u>Choosing the Right Plants</u>' publication Consult a <u>WSU Master Gardener</u> for plant diagnosis and care 				
Weeds	Weed problems	 Weed seeds readily grow on bare soils and thin mulch Imported materials may have inadvertently been full of weed seeds 	 Thoroughly hand weed Cover bare soils with sufficient mulch (see <u>Mulch</u> section) Consult a <u>WSU Master Gardener</u> for plant diagnosis and care 				
Moss	Moss on permeable pavements	Moss naturally grows in moist, shady areas	Clean per manufacturer's recommendations Avoid chemical treatments to prevent surface damage and polluted runoff				

	OBSERVATION	POTENTIAL CAUSES	TROUBLESHOOTING STEPS			
PROBLEM: Soil, Sed	PROBLEM: Soil, Sediment & Erosion					
Soggy soils	Soils remain soggy after installing a RainScaping solution	Underlying soils may have been compacted during construction	 Compacted soils are difficult to resolve; to start, roughen the top six inches of soil and then amend with compost (see <u>Amended Soils</u>) Top dress with wood chip mulch and plant the area (see <u>Landscaping Naturally Wet Areas</u>) Use permeable paving options for heavy-traffic areas 			
		Area may not be properly sloped	 Create a gentle slope (1 to 2 percent) to allow water to spread across the area. Ensure that the area slopes away from foundations. Consult an earthwork contractor 			
Sediment	Sediment consistently builds up near my RainScaping solution	Bare soils are easily washed away by rainfall	Protect bare soils from erosion with mulch or plantings, or use alternative erosion control methods. Learn more in Section 2 Evaluate Your Site (Step 9), Mulch, and straw wattle information in Retaining Walls & Terraces.			
Eroding channels	Rainwater is eroding channels in my yard	When water is concentrated into a single path rather than spread across a broad area, it can quickly wash away soils and mulch	 Outlet pipes to the base of slopes where feasible SLOW and SPREAD out the flow of water by constructing a rock pad or level spreader (see <u>Drainage Outlet Protection</u>) Protect bare soils from erosion with mulch or plantings (see <u>Mulch</u> section) 			
Slumping	Slumping or cracking is observed on or above slopes	Bare and/or saturated soils are easily eroded by rainfall	Immediately consult with a geotechnical engineer or geologist to determine the cause of the instability and develop a solution			

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