## Vegetated Filter Strip Operation and Maintenance Plan

Flow not distributed evenly filter the condition to Check for the filter strip due to unevenly distributed through filter that the condition are distributed through the condition and the per approved benefit through the condition of facility.  Poor Vegetation Coverage 80% survival of approved vegetation and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to state the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and no bare areas large enough to the condition; repair and the condition of facility.  Excessive Vegetation of facility to statistic supported through the condition; repair and the condition of facility to statistic supported through the condition; repair and the condition of facility to statistic supported through the condition; repair the condition of facility to statistic supported through the condition of facility to condition of the condition of facility to co	<b>-</b>	Annual inspections are inspections are inspection and maintena more information.	<b>Annual inspections are required.</b> It is recommended that the facility is inspected on a monthly basis to ensure proper function. The plan below describes inspection and maintenance activities, and may be used as an inspection log. Contact the design engineer, Clean Water Services or City representative for more information.	the facility is inspected on a monthly n inspection log. Contact the desigr	basis to ensure proper funct n engineer, Clean Water Serv	ion. The plan below describes ices or City representative for
filter strip due to uneven or clogged flows spread evenly over entire filter strip due to uneven or clogged flows spread evenly over entire filter strip due to uneven or clogged flows spread evenly over entire filter strip due to uneven or clogged flows spread evenly over entire filter strip width  Invasive vegetation is found in facility.  Examples include: Himalayan Blackberny; Remove excessive weeds and all invasive plants. Cattail Thistle; Scotch Broom and no bare areas large enough to affect function of facility.  Remove excessive weeds and all most orner to Chemical treatment.  Negetation grows so tall it competes with or shades approved emergent wetland grass/shrubs; interferes with access or becomes a fire danger  Tree/shrub growth shades out maintenance/inspection maintenance/inspection interferes with access for maintenance/inspection interferes with access or local City.  Flows the spreader so that block sun from reaching treatment area. Interferes with access for maintenance interferes with access or local City.  Flows the spreader of and liter flows and all invasive plants area. Interferes with access for maintenance inspection interfering with access or local City.  Flows the spreader of a part of the strip flows and shrubs that block sun from reaching treatment area. Interferes with access for maintenance interferes with access or local City.  Flows the plants and a plants and a shrubs that block sun from reaching treatment area. Remove trees that are not interferes or local City.		Identified Problem	Condition to Check for	Maintenance Activity	Maintenance Timing	Task Complete Comments
Invasive vegetation is found in facility.  Examples include: Himalayan Blackberry; Reed Canary Grass; Teasel; English Ivy, Nightshade; Clematis; Cattail Thistle; Scotch Broom and no bare areas large enough to and no bare areas large enough to affect function of facility.  Vegetation grows so tall it competes with access or becomes a fire danger  Tree/shrub growth shades out wetland/lemergentines with access for maintenance/inspection  Invasive plants. Attempt to control evention is not feasible. Refer to Clean Water Services Integrated Pest Management Plan for appropriate control methods, including proper use of chemical treatment.  Determine cause of poor growth and correct the condition; replant and correct the condition; replant and correct the condition; replant with plugs or containerized plants per approved plans and applicable standards at time of construction. Remove excessive weeds and all invasive plants  Cut grass tall grass 4" to 6" and remove clippings. Prune emergent wetland grass/shrubs; interferes with access or becomes a fire danger  Tree/shrub growth shades out from reaching treatment area. Remove trees that are not interfere with access for maintenance/inspection interfering with correct light first contacting Clean Water Services or local City.	ш.	Flow not distributed evenly	Flows unevenly distributed through filter strip due to uneven or clogged flow spreader	Level and clean the spreader so that flows spread evenly over entire filter strip width	WINTER SPRING	
werage 80% survival of approved vegetation and no bare areas large enough to and no bare areas proved bareas or becomes a fire danger area. Interferes with access for maintenance/inspection  Do not remove trees that are not interfering with access or maintenance without first contacting Clean Water Services or local City.		Invasive Vegetation as outlined in Appendix A	Invasive vegetation is found in facility. Examples include: Himalayan Blackberry; Reed Canary Grass; Teasel; English Ivy; Nightshade; Clematis; Cattail Thistle; Scotch Broom	Remove excessive weeds and all invasive plants. Attempt to control even if complete eradication is not feasible. Refer to Clean Water Services Integrated Pest Management Plan for appropriate control methods, including proper use of chemical treatment.	SPRING SUMMER FALL	
Vegetation grows so tall it competes  with or shades approved emergent wetland grass/shrubs; interferes with access or becomes a fire danger  Tree/shrub growth shades out wetland/emergent grass in treatment area. Interferes with access for maintenance/inspection  Services or local City.	ш	Poor Vegetation Coverage	80% survival of approved vegetation and no bare areas large enough to affect function of facility.	Determine cause of poor growth and correct the condition; replant with plugs or containerized plants per approved plans and applicable standards at time of construction. Remove excessive weeds and all invasive plants	FALL SPRING Ideal time to plant is Spring and Fall seasons	
Tree/shrub growth shades out wetland/emergent grass in treatment area. Interferes with access for maintenance/inspection interfering with access or maintenance without first contacting Clean Water Services or local City.	Ш	Excessive Vegetation	Vegetation grows so tall it competes with or shades approved emergent wetland grass/shrubs; interferes with access or becomes a fire danger	Cut grass tall grass 4" to 6" and remove clippings. Prune emergent wetland grass/shrubs that have become overgrown.	Ideal time to prune emergent wetland grass is Spring. Cut grass in dry months	
		Tree/Shrub Growth	Tree/shrub growth shades out wetland/emergent grass in treatment area. Interferes with access for maintenance/inspection	Prune trees and shrubs that block sun from reaching treatment area. Remove trees that block access points.  Do not remove trees that are not interfering with access or maintenance without first contacting Clean Water Services or local City.	WINTER Iming for pruning trees is winter	

## Vegetated Filter Strip Operation and Maintenance Plan (continued)

inspection and maintenance activities, and may be used as an inspection log. Contact the design engineer, Clean Water Services or City representative for Annual inspections are required. It is recommended that the facility is inspected on a monthly basis to ensure proper function. The plan below describes

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Maintenance Timing	FALL WINTER SPRING	SUMMER FALL Ideally in the dry season	SPRING SUMMER FALL	SPRING SUMMER FALL	As Needed
Maintenance Activity	Repair eroded areas and stabilize using proper erosion control measures. Establish appropriate vegetation as needed	Remove sediment from treatment area. Ensure facility is level from side to side and drains freely toward outlet; no standing water once inflow has ceased	Remove trash and debris from facility. Dispose of properly	If contaminants or pollutants present; coordinate removal/cleanup with local jurisdiction	Repair facility if damaged. Remove harmful insects, use professional service if needed. Refer to Clean Water Services Integrated Pest Management Plan for management options
Condition to Check for	Erosion or channelization that impacts or effects the function of the facility or creates a safety concern	Sediment depth in treatment area exceeds 3 inches	Visual evidence of trash, debris or dumping	Evidence of oil, gasoline, contaminants or other pollutants. Look for sheens, odor or signs of contamination	Evidence of rodents or water piping through facility via rodent holes. Harmful insects present such as wasps and hornets that interfere with maintenance/ inspection activities
Identified Problem	Erosion	Sediment Accumulation in Treatment Area	Trash and Debris	Contaminants and Pollution	Vector Control

