Infiltration Systems i.e. infiltration basins, beds, trenches, and subsurface infiltration basins

Maintenance Tasks for Infiltration Systems	Quarterly	Biannually	Annually	As Needed	After Rain Events
Keep drainage area, inlets, and facility surface clear of debris	x			x	x
Keep drainage area stabilized	x			x	
Remove sediment and oil/grease from inlets, pretreatment devices, flow diversion structures, and overflow structures	x			x	
Repair undercut and eroded areas at inflow and outflow structures	x			x	x
Check observation wells for standing water (should not have standing water 2 days after rain event)					x
If no observation wells are included, but the practice is very shallow, observe ponding by removing some gravel at the surface of the trench		x			x
Inspect pretreatment devices and diversion structures for sediment build-up and structural damage		x			
Remove sediment and debris		x		x	x
Maintain vegetative cover at 85%; replace if damage is greater than 50%		x		x	
Clean out accumulated sediment from pretreatment area			x	x	
Replace gravel/topsoil and top surface geotextile fabric when clogged				x	
Mow vegetated filter strips				x	
Remove vegetative clippings from mowing				x	
If dry well does not drain properly; dig down to check inflow points for excessive leaves or debris				x	
Remove excessive leaves and debris from inflow points				x	
If practice accumulates standing water contact professional for reconstruction				x	
Regrade and/or reseed areas below the level spreader				x	
Maintain a vigorous vegetative cover on the areas below a level spreader				x	

To be submitted to the Township for Annual Submission

Infiltration Systems i.e. infiltration basins, beds, trenches, and subsurface infiltration basins

Maintenance Tasks	Time Frame	Dates	Notes
Drainage area, inlets, and facility surface clear of debris	Quarterly		
Drainage area stabilized	Quarterly		
Remove sediment and oil/grease from inlets, pretreatment devices, flow diversion structures, and overflow structures	Quarterly		
Observe and inspect for ponding areas	Biannually		
Inspect pretreatment devices and diversion structures for sediment build up	Biannually		
Inspect pretreatment devices and diversion structures for structural damage	Biannually		
Remove sediment and debris	Biannually		
Maintain vegetative cover at 85%; replace if degrades beyond 50%	Biannually		
Clean out accumulated sediment from pretreatment areas	Annually		

Infiltration Systems i.e. infiltration basins, beds, trenches, and subsurface infiltration basins

Rain Event Date	*Maintenance Task*	*Notes*
	Keep drainage area, inlets, and facility surface clear of debris	
	Repair undercut and eroded areas at inflow and outflow structures	
	Check observation wells for standing water (should not have standing water two days after rain event) **If no observation wells**, remove some gravel at the surface of the trench and observe for ponding	
	Remove sediment and debris	
Rain Event Date	*Maintenance Task*	*Notes*
	Keep drainage area, inlets, and facility surface clear of debris	
	Repair undercut and eroded areas at inflow and outflow structures	
	Check observation wells for standing water (should not have standing water two days after rain event) **If no observation wells**, remove some gravel at the surface of the trench and observe for ponding	
	Remove sediment and debris	
Rain Event Date	*Maintenance Task*	*Notes*
	Keep drainage area, inlets, and facility surface clear of debris	
	Repair undercut and eroded areas at inflow and outflow structures	
	Check observation wells for standing water (should not have standing water two days after rain event) **If no observation wells**, remove some gravel at the surface of the trench and observe for ponding	
	Remove sediment and debris	

Infiltration Systems i.e. infiltration basins, beds, trenches, and subsurface infiltration basins

STA Credit Policy Manual Maintenance Policy

Basic Minimum Maintenance Requirements for O&M Plans
1. Sediment shall be removed when approximately 30% of storage volume of the facility is filled.
2. Any sinkholes shall be repaired.
3. Trash shall be removed upon discovery
4. No woody vegetation shall be allowed to grow on embankments unless called for in the facility's design.
5. Debris shall be removed from inlet, outlet, and any other structures that have the potential to clog.
6. All systems should be inspected at minimum four (4) times per year and within 48 hours after any major rain events of >1".
7. Documentation of inspections must be submitted by June 1st of each year.
8. Provide previous year's maintenance log must be submitted by June 1st of each year to the Township, so they can be evaluated and included in the MS4 Annual Status Report.
9. Stormwater management control structures shall remain unaltered, intact, and functioning as initially designed unless otherwise determined by staff with written notification.
10. See Pennsylvania Stormwater BMP Manual for system-specific inspection details.

Infiltration Systems i.e. infiltration basins, beds, trenches, and subsurface infiltration basins

Condition Standard Definitions					
	Excellent – Very Good	*Acceptable – Good*	*Fair*	*Poor – Failing*	Need Twp Assistance
Inlet Features: - Stone swale - Grass channel - Level spreader - Curb cut - Subsurface conveyance - Sediment forebay - Overland flow	- No erosion, channelization, or scouring. - No significant sediment, trash, or debris. - Curb cut or other hardscape inlet in very good condition.	- Some erosion, channelization, or scouring. - Some sediment or debris but does not affect function. - Some wear on curb cut but does not affect function.	- Erosion, channelization, and/or scouring present. - Sediment/debris affect water quality function but do not affect conveyance. - Some cracking, heaving, or curb cut degradation.	- Erosion, channelization, or scouring and bypassing inlet present. - Sediment/debris inhibit or prevent water from entering system. - Cracking/heaving of curb cut or other hardscape preventing water from entering system.	
Side Slopes	- No erosion or scouring. - No evidence of ponding.	- Some erosion or scouring. - Some evidence of ponding.	- Erosion of side slopes affecting performance. - Ponding above expected levels.	- Erosion of side slopes inhibiting performance. - Evidence of ponding higher than system design level.	
Vegetation	- At least 90% of planting zone covered with healthy plants per design. <10% weeds. - Limited compaction. No caking or cracking of exposed soil. - Soil is well aerated. - No erosion, channelization or scouring. - No bare spots. - No sediment, debris, or trash. - Drains within 24 hours.	- At least 75% of planting zone covered with healthy plants per design. - Some compaction due to machinery or time. - Some erosion, channelization, or scouring. - Sediment or debris present in facility bottom, does not affect function. - Drains within 36 hours.	- At least 60% of planting zone covered with healthy plants. - 20-30% weeds. - Compacted soil. - Erosion, channelization, or scouring. - Sediment, debris, or trash inhibits water quality. - Evidence of long-term ponding (over 72 hours).	- Less than 50% of planting zone covered with healthy plants. - >30% weeds. - Compacted soils. - Sediment, debris, and trash inhibits water quality and conveyance systems. - Presence of standing water.	
Outlet Features - Overflow structure - Clean-out - Berm - Conveyance system - Grates, debris screen	- <10% sediment or debris around outlet structure. - Limited build-up of sediment within conveyance system. - Berm firm and level. - No sediment or debris around nearby outlet. - Level ground across facility surface, no evidence of sinkholes or depressions.	- Sediment blocking up to 30% of outlet structure. - Sediment, debris, or trash beginning to accumulate in conveyance system. - Berm shows evidence of breaching, scouring, or erosion. - Some trash or debris in outlet structure. - Shallow depression(s) beginning to form across facility surface.	- Sediment blocking 30-50% of outlet structure. - Significant amount of sediment, debris, or trash accumulated in conveyance system. - Berm structure needs reinforcement. - Trash or debris in outlet impedes water flow. - Depressions evident or exist across facility surface.	- Sediment over 50% blocks outlet structure. - Sediment, debris, or trash impedes conveyance system flow. - Berm not functioning due to blowout in one or more places. - Trash or debris in outlet prevents water flow. - Fully defined depressions/sinkholes exist across the facility surface.	

Utilize this guide to fill in the Evaluation Worksheet on the following page.

Infiltration Systems i.e. infiltration basins, beds, trenches, and subsurface infiltration basins

Evaluation Worksheet						
Location:	Installed (mm/yyyy):	Inspection (mm/dd/yyyy):			Inspector:	
		Excellent – Very Good	*Acceptable – Good*	*Fair*	*Poor – Failing*	Twp Assistance
Inlet Features: *check all that apply* ☐ stone swale ☐ grass channel ☐ level spreader ☐ curb cut ☐ subsurface conveyance ☐ sediment forebay ☐ overland flow	Approximate *Length x Width:* Image(s) of Inlet Feature(s):					
Side Slopes	Approximate *Perimeter*: Images of Side Slopes:					
Vegetation ~% of perennials: _____% ~# of shrubs: _____ ~# of trees: _____	Approximate *Shape* and *Area*: Image(s) of Vegetation:					
Outlet Features *check all that apply* ☐ overflow structure ☐ clean-out ☐ berm ☐ conveyance system ☐ grates, debris screen	Approximate *Length x Width*: Image(s) of Outlet Structure(s):					

To be submitted to the Township for Annual Submission