

Does Your Home Need a Flood Prevention Tune Up?

Much like a car, a home needs regular tune ups to keep it functioning properly. Your home was originally constructed with specific features designed to prevent rain and snow melt from flowing into your basement. Also, at the time of construction, the soil around your home was carefully graded to direct water away from your foundation and to direct water off your property into the municipal stormwater system.

Over time, if your home's flood prevention features have not been maintained or if the original lot drainage was changed on your property, you are at increased risk of basement flooding.

Does your home need a flood prevention tune up? Please see the chart below for signs of trouble and what you can do to repair, upgrade and maintain your home's flood prevention features to keep your basement dry and comfortable, as it was originally designed to be.

Outside Your Home

One of the best ways to find out how your home's outdoor drainage systems are performing is to go outside during a heavy rain or during a spring thaw and watch where the water is flowing. Is it moving freely away from your home and then offsite? If so, that is great! If it is overflowing from your rain barrel, spilling out of cracks in your eaves troughs, pooling at your foundation, or ponding on your lot for over 24 hours, it means that your home is in need a flood prevention tune up!

Item	Signs of Trouble	Repair/ Upgrade	Maintenance
Grading around	Water pooling at your	Regrade so that water	Spring and fall check
foundation	foundation, ice buildup	flows away from the	for grading problems
	in the winter	foundation	and correct these
Lot grading	Water pooling in the yard or on driveway, water flowing directly onto neighbour's	Correct grading so that water flows to the municipal storm sewer system, if grading has	Examine during heavy rain or spring melt, correct as needed
	property	been changed to soak up water onsite ensure that water is absorbed within 24 hours is at least 10' from foundation	
Eaves troughs	Missing sections, leaking at joints or overflowing	Replace missing sections, repair leaks and remove debris	Spring and fall check for and repair leaks, remove debris
Downspouts	Depositing water less than 6' (2m) away from foundation	Extend/replace downspouts to ensure water flows smoothly at least 6 feet (2m) from the foundation	Spring and fall check and replace, check weekly during growing season
Rain Barrels	Overflowing during heavy rains and/or overflow hose	Ensure amount of water flowing into barrel equals amount	Drain and disconnect after Hallowe'en and

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	depositing water at foundation	flowing out to prevent overflow at top, ensure that your rain barrel's overflow hose extends at least 6'(2m) away from your foundation	re-attach downspout, reinstall in spring
Windows	Broken seals, broken glass, damaged frame	Repair and/or replace seals, glass, frames	Check and repair/replace in spring and fall, shovel snow at least 1m away from windows in winter
Window Wells	Non-existent, filled with debris or water pooling inside window well	Install window wells so that edge is 6" from the ground, consider installing plastic covers	Remove debris in spring and fall, check for pooling water after heavy rains
Driveways and sidewalks	Hard surfaces sloped towards foundation or cracked surface, pooling of water, ice build-up in winter	Repair hard surfaces so that water flows away from foundation, repair cracks, where possible direct downspouts away from hard surfaces	Examine during heavy rain or spring melt, correct as needed
Nearest Stormwater Drain	Clogged with debris, pooling of water during heavy rains or spring thaws	Remove debris regularly, if this does not address pooling contact the City for repair	Check once per season, do not sweep leaves onto storm drains in the fall
Foundation walls	Cracks, efflorescence present (salt deposits)	Repair cracks, consult with professional to determine root cause of cracks, efflorescence	Check and repair cracks spring and fall, shovel snow at least 1m away from foundation in winter

Inside Your Home

Are there signs of trouble in your basement? Does your sump pump run regularly or not run when you need it? Have you experienced sewer backup during heavy rains? Is there a musty or mouldy smell in your basement? A tune up will help make your basement a drier and more comfortable space.

Item	Signs of Trouble	Repair/Upgrade	Regular Maintenance
Water pipes and appliances	Leaking, corrosion	Inspect plumbing and fixtures, repair, replace	Inspect on an annual basis
		as needed, install flood alarms	
Sump Pit and Pump(s)	Running at frequent intervals, pump seized	Repair/replace pump, get backup pump and back-up power source	Test/maintain pumps and batteries, test

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	and not working, no	in case of power	alarms in spring and
	cover on sump pit	failure, purchase alarm,	fall
	cover on sump pit	cover sump pit	idii
Backwater Valve	Lack of backwater	Check with a plumber	Clean and test your
Dackwaler valve	valve, sewage coming	to determine if a	backwater valve each
	up through toilets and		
		backwater valve is right	spring and fall, keep
	sinks	for your home, clean	fats, oil and grease out
		and test your	of your sink to prevent
		backwater valve	clogging
Floor Drain	Foul smell coming from	Contact City to explain	Test to ensure water
	drain, sewage backing	problem, contact	running freely in spring
	up into basement,	plumber if City	and fall, keep drain and
	roots visible in drain,	determines private	flow path to drain clear
	no standing water in	property issue, remove	
	drain, drain covered or	covering from drain,	
	blocked	ensure open pathway	
		for flood water to flow	
		to drain	
Foundation Walls	Cracks, leaks or stains	Repair leaks and cracks	Check for leaks and
	present, efflorescence	inside and outside the	efflorescence during
		home, if foundation	heavy rain and spring
		drains present inspect	melts, repair as needed
		and repair if needed	
Basement Floor	Cracks, leaks or stains	Repair leaks and	Check for leaks and
	present, efflorescence	cracks, check buried	efflorescence during
		pipes for leaks, if	heavy rain and spring
		foundation drains	melts, repair as needed
		present inspect and	
		repair if needed	
Stored Items	Items touching	Remove damaged	Spring and fall remove
	unfinished walls or	items, store items in	and properly store
	floors, damp to the	waterproof containers	items, run dehumidifier
	touch, smell of mould	3' off the floor and	to achieve 30-50%
	or visible mildew	away from walls	humidity
Furnishings and	Items prone to water	Replace items that are	Inspect and correct in
electronics	damage and/or mould	not easily damaged by	spring and fall
	used in basement,	water e.g. couches with	
	electronics on floor	metal legs, raise	
		electronics and mount	
		on walls	
Basement finishes	Finishes are easily	When renovating	Replace items as
	damaged by water e.g.	select materials that	budget permits
	carpet, drywall	are water resistant e.g.	
		ceramic tile, cement	
		board, spray foam	
		insulation	