

VILLAGE OF LAKE BARRINGTON

DRAINAGE ISSUES RESPONSE GUIDELINES

The Village of Lake Barrington is committed to responding to, evaluating and addressing drainage issues and problems throughout the community. The objectives for addressing drainage problems are:

1. Provide for the public health and safety.
2. Protect public infrastructure.
3. Protect private structures from damage from public infrastructure.
4. Preserve property values.
5. Improve the quality of life.
6. Preserve the Countryside character of the community.

RESPONSE PRIORITY

SUMMARY

The Village is available to assist in evaluating and potentially addressing drainage problems throughout the community on public and, in certain circumstances, private property. We recognize that all drainage issues, whether public or private, usually impact adjacent properties. The Village uses the following table to prioritize drainage problems:

PRIORITY FOR REPAIRS AND ANALYSIS		
PRIORITY	TITLE	EXAMPLE
Priority A	Emergency Public Repair	Damaged public infrastructure (culverts, pipe, ditch, catch basin)
Priority B	Street and ROW Flooding	Standing water on streets or roads
Priority C	Structure Flooding	Basement flooding resulting from a storm event
Priority D1	Nuisance: ditch line	Standing water in ditch lines
Priority D2	Nuisance: yard flooding	Ponding in private rear, side or front yards
Priority D3	Nuisance: other	Other private property issues

RESPONSE PROCEDURE AND CATEGORIES

1. **Resident(s) contacts Village during/after rain event.** Staff is prepared to investigate problems during storms and immediately thereafter.
2. **Village investigates:** Street flooding, structure flooding and overtopping detention areas are investigated immediately by the Village Administrator, Cuba Township Road District or Village Engineer. Generally, standing water complaints are allowed to rest for 72 hours.
3. **Village evaluates and responds:** Village Staff, Cuba Township Road District or the Village Engineer will use the following three categories in reviewing and responding to drainage complaints for action:

1) EMERGENCY FLOODING: *Emergency flooding includes flooded public rights-of-way and flooding of structures resulting from a rain event.*

Examples:

1. Impassable streets due to flooding.
2. Basement flooding resulting from overwhelmed overland stormwater conveyance routes. This does not include sump pump failure.

Response:

1. The area is investigated and the problem is prioritized.
2. Generally, Cuba Township Road District will clear inlets and drainage structures.
3. Village provides sandbag and pumping assistance via the Cuba Township Road District whenever possible for structure flooding. As we have limited resources, we encourage our residents to be “flood ready” as outlined in <http://www.ready.gov/floods>
4. Village provides community-wide communication through social media and the automatic/rapid calling of road closures or other information as needed.
5. Village monitors standing water for infiltration, conveyance and evaporation.
6. Village catalogs significant repetitive problem areas for future evaluation.
7. Village may assist with after event clean up providing additional curb side garbage and brush pick up.

2) LIMITED DURATION DRAINAGE PROBLEM (Less than 72 hours):

Limited duration drainage problems are those resulting from a normal rain event or snowmelt. These problems will generally resolve themselves naturally within 72 hours via stormwater conveyance, infiltration, or evaporation.

Examples:

1. Limited duration standing water in ditch lines or rear, side, and front yards.
2. Limited duration street ponding.
3. Poor storm sewer, ditch, pond, or river conveyance or surcharge resulting from a system that is at or near capacity.

Response:

1. The area is investigated and the problem is prioritized:

PRIORITY	TITLE	TYPICAL LOCATION
Priority A	Emergency Public Repair	Public
Priority B	Street and ROW Flooding	Public
Priority C	Structure Flooding	Private
Priority D1	Nuisance: ditch line	Public
Priority D2	Nuisance: yard flooding	Private
Priority D3	Nuisance: other	Private

2. Necessary action is taken to clear inlets, culverts, ditches and pipes of observable debris to allow for normal conveyance. This is typically completed by the Cuba Township Road District.
3. If additional action is needed, based on the priority, one of the following may take place:
 - A. The Village may make its Village Administrator or Engineer available for consultation to the homeowner(s) to determine what if any adjustments/fixes are available, this may include a combination of private and public work.
 - B. Direction is provided to the homeowner(s) on possible private repairs within the regulations of the Village and County storm water management regulations. If requested, local contractors contact information will be provided.
 - C. The Village provides educational material relative to the value of allowing water to be absorbed into the ground. The Village encourages the use of rain gardens which promote the natural absorption of rain water as a best practice.

3) LONG DURATION DRAINAGE PROBLEMS (More than 72 hours):

Long duration drainage problems typically involve drainage paths, ditches, pipes, or other infrastructure that is not performing as intended. This could be the result of the system being damaged, partially blocked, or undersized. These problems are generally of a nuisance variety lasting more than 72 hours, but can be aggravated by long rain events and may worsen over time.

Examples:

1. Surface ponding or poor drainage resulting from a broken drain tile.
2. Increased water levels due to blocked or undersized outflow, pipe, culvert, or ditch line.
3. Saturated ditch line, typically from sump discharge.

Response:

1. The area is investigated and the problem is prioritized:

PRIORITY	TITLE	TYPICAL LOCATION
Priority A	Emergency Public Repair	Public
Priority B	Street and ROW Flooding	Public
Priority C	Structure Flooding	Private
Priority D1	Nuisance: ditch line	Public
Priority D2	Nuisance: yard flooding	Private
Priority D3	Nuisance: other	Private

2. Based on the priority one of the following may take place:
 - A. The Village may make its Village Administrator or Engineer available for consultation to the homeowner(s) to determine what if any adjustments/fixes are available, this may include a combination of private and public work.
 - B. Direction is provided to the homeowner(s) on private repairs within the confines of the Village’s storm water management regulations. If requested, local contractors contact information will be provided.
 - C. A repair plan and budget are prepared, easements are secured, and the project is entered into the Capital Plan.
4. **Work to be completed:** Drainage improvements are completed by either the Cuba Township Road District or private contractor under the guidance of the Village Engineer.
5. **Road Program:** If possible, improvements are deferred and completed simultaneously with the Village’s annual road program.