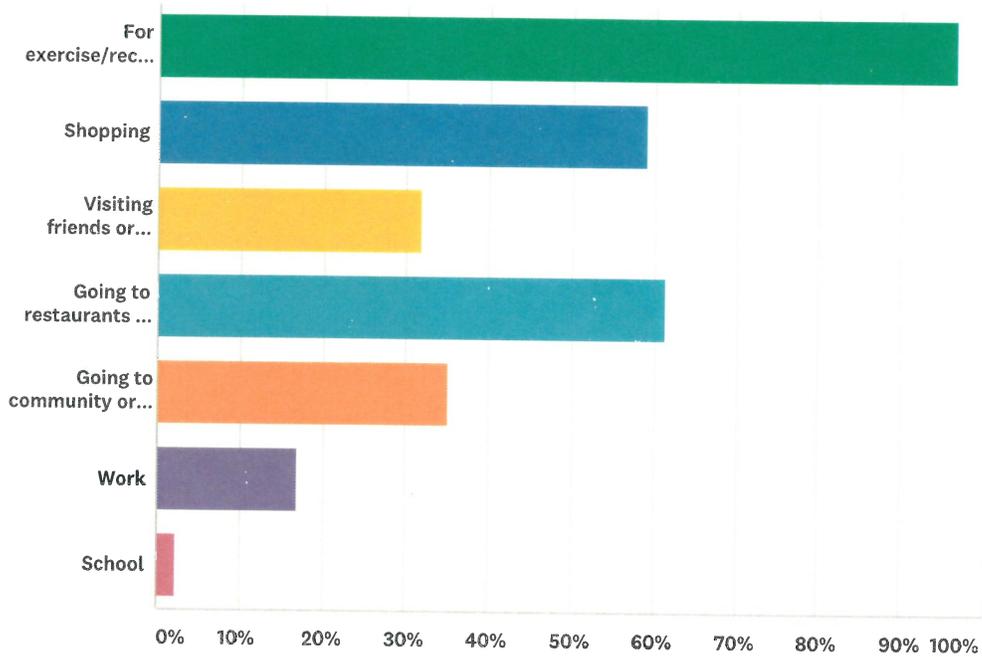


ONLINE SURVEY RESULTS

Q1 Which reasons describe why you walk? (Please check all that apply)

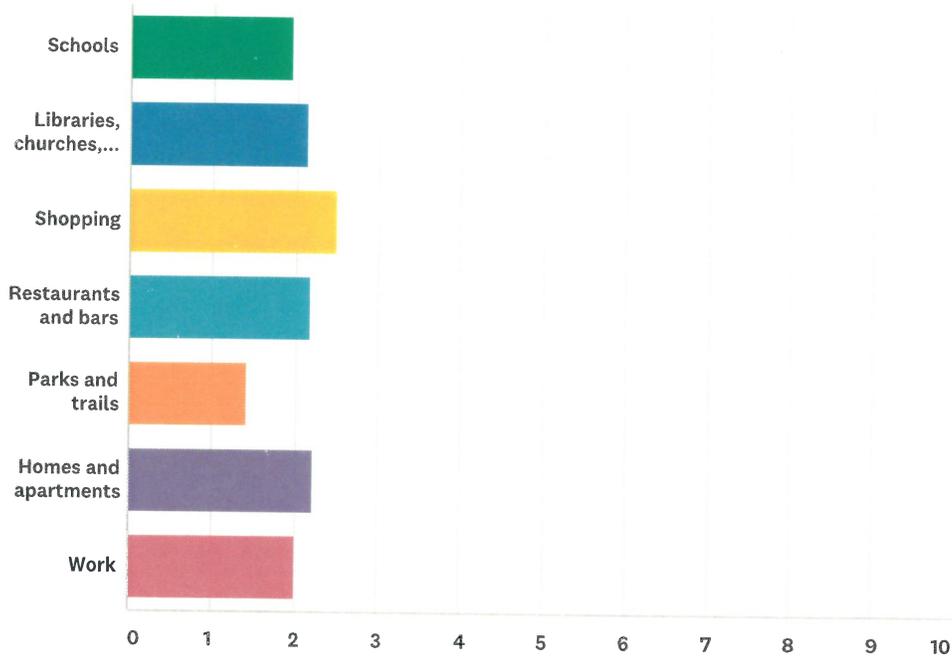
Answered: 88 Skipped: 0



ANSWER CHOICES	RESPONSES	
For exercise/recreation	96.59%	85
Shopping	59.09%	52
Visiting friends or family	31.82%	28
Going to restaurants and bars	61.36%	54
Going to community or religious events	35.23%	31
Work	17.05%	15
School	2.27%	2
Total Respondents: 88		

Q2 Choose your top 3 locations where you would like to see better pedestrian connections to.

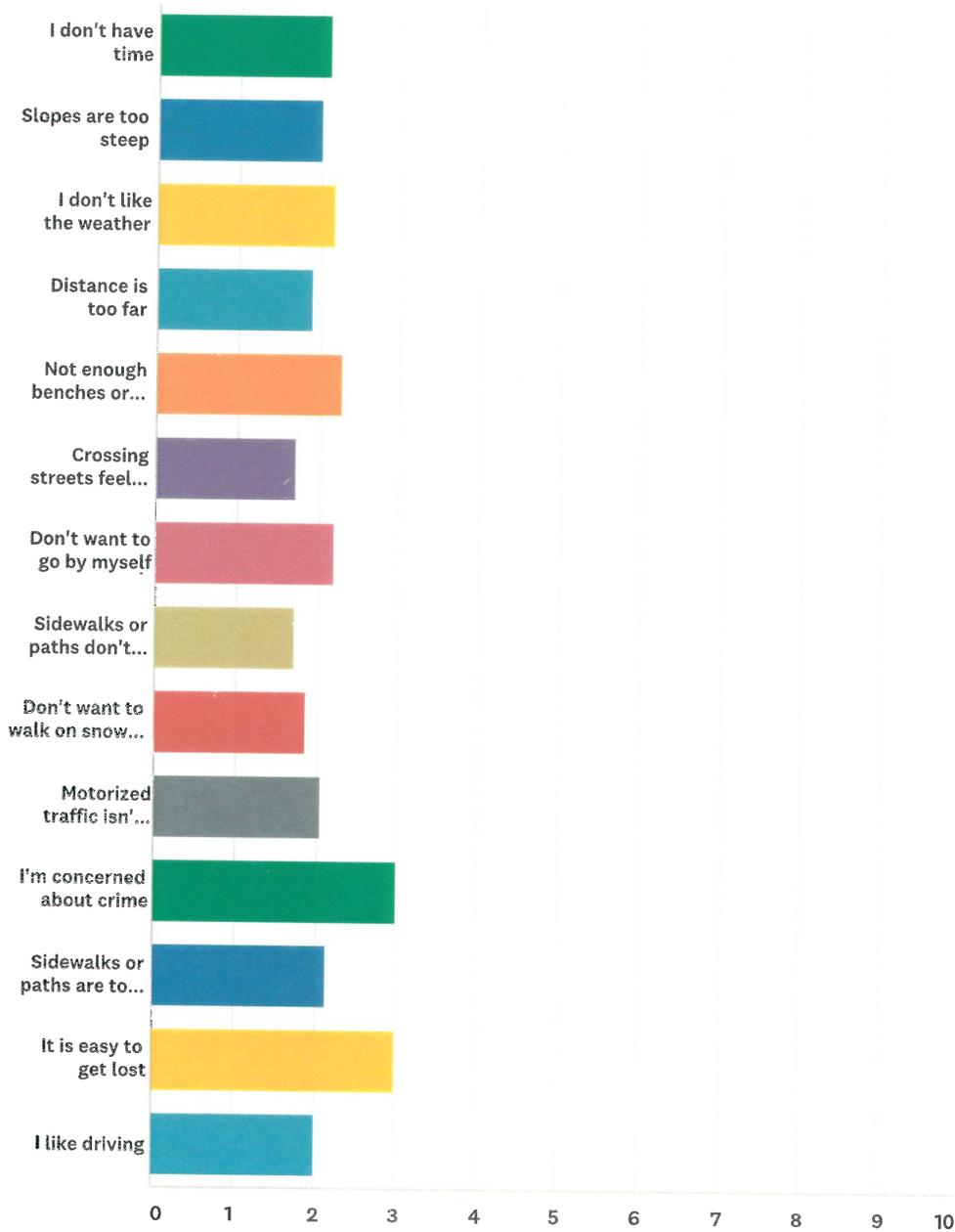
Answered: 88 Skipped: 0



	TOP CHOICE	SECOND CHOICE	THIRD CHOICE	TOTAL	WEIGHTED AVERAGE
Schools	36.84% 7	31.58% 6	31.58% 6	19	1.95
Libraries, churches, and/or community facilities	26.19% 11	33.33% 14	40.48% 17	42	2.14
Shopping	13.64% 6	25.00% 11	61.36% 27	44	2.48
Restaurants and bars	18.75% 9	45.83% 22	35.42% 17	48	2.17
Parks and trails	66.22% 49	25.68% 19	8.11% 6	74	1.42
Homes and apartments	20.83% 5	37.50% 9	41.67% 10	24	2.21
Work	16.67% 1	66.67% 4	16.67% 1	6	2.00

Q3 Choose your top 3 reasons that keep you from walking.

Answered: 87 Skipped: 1



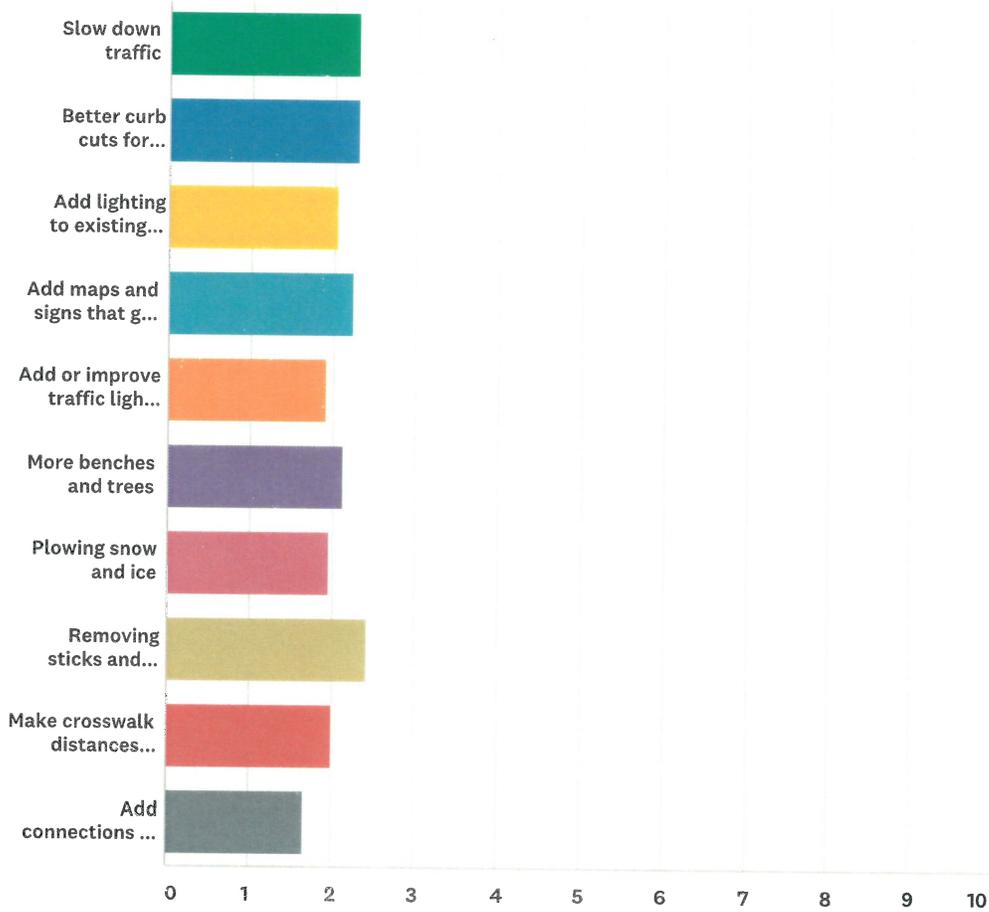
	TOP CHOICE	SECOND CHOICE	THIRD CHOICE	TOTAL	WEIGHTED AVERAGE
I don't have time	31.58% 6	26.32% 5	42.11% 8	19	2.11
Slopes are too steep	33.33% 1	33.33% 1	33.33% 1	3	2.00
I don't like the weather	33.33% 4	16.67% 2	50.00% 6	12	2.17

City of Lake Geneva Bicycle and Pedestrian Plan

Distance is too far	45.45% 5	18.18% 2	36.36% 4	11	1.91
Not enough benches or trees	28.57% 4	14.29% 2	57.14% 8	14	2.29
Crossing streets feels dangerous	45.71% 16	37.14% 13	17.14% 6	35	1.71
Don't want to go by myself	20.00% 1	40.00% 2	40.00% 2	5	2.20
Sidewalks or paths don't connect to where I need to go	48.15% 26	31.48% 17	20.37% 11	54	1.72
Don't want to walk on snow and ice	41.38% 12	31.03% 9	27.59% 8	29	1.86
Motorized traffic isn't safe	27.27% 6	40.91% 9	31.82% 7	22	2.05
I'm concerned about crime	0.00% 0	0.00% 0	100.00% 3	3	3.00
Sidewalks or paths are too dark at night	13.33% 4	60.00% 18	26.67% 8	30	2.13
It is easy to get lost	0.00% 0	0.00% 0	100.00% 3	3	3.00
I like driving	50.00% 2	0.00% 0	50.00% 2	4	2.00

Q4 What are the top 3 improvements that you feel would improve your walking experience?

Answered: 86 Skipped: 2



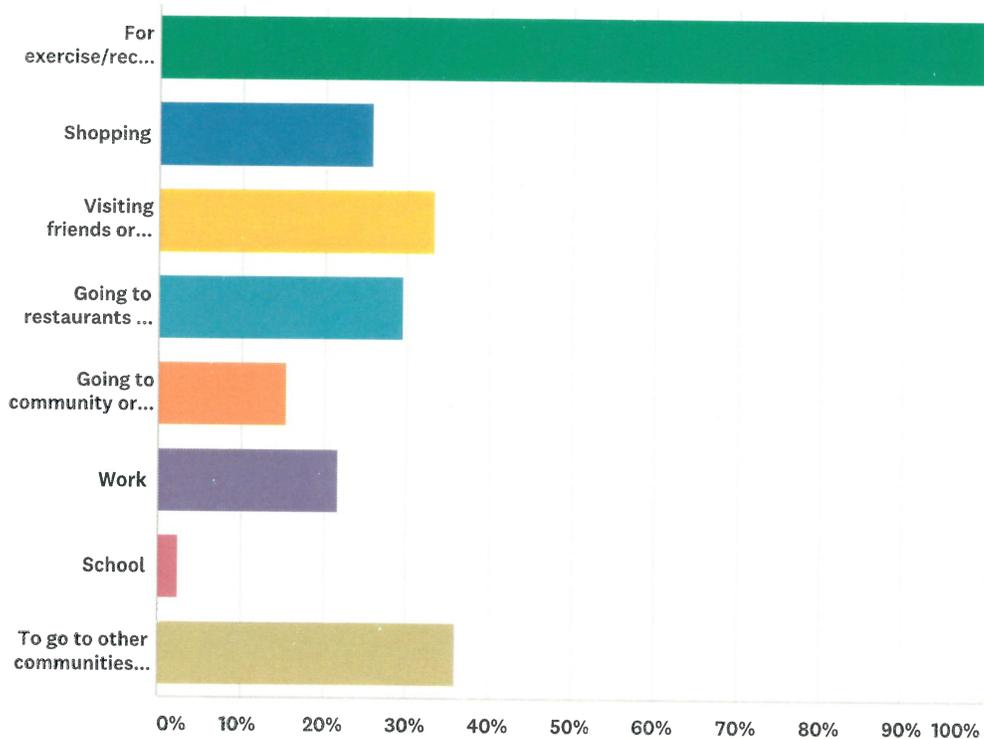
	TOP CHOICE	SECOND CHOICE	THIRD CHOICE	TOTAL	WEIGHTED AVERAGE
Slow down traffic	20.00% 2	30.00% 3	50.00% 5	10	2.30
Better curb cuts for handicap or stroller access	20.00% 2	30.00% 3	50.00% 5	10	2.30
Add lighting to existing sidewalks and paths	31.58% 12	31.58% 12	36.84% 14	38	2.05
Add maps and signs that give directions	13.79% 4	48.28% 14	37.93% 11	29	2.24
Add or improve traffic lights that make crossing busy roads easier	40.48% 17	26.19% 11	33.33% 14	42	1.93
More benches and trees	13.33% 2	60.00% 9	26.67% 4	15	2.13
Plowing snow and ice	34.48% 10	34.48% 10	31.03% 9	29	1.97

City of Lake Geneva Bicycle and Pedestrian Plan

Removing sticks and leaves from surface	14.29% 1	28.57% 2	57.14% 4	7	2.43
Make crosswalk distances shorter so crossing is easier	14.29% 1	71.43% 5	14.29% 1	7	2.00
Add connections to existing sidewalks and paths	54.69% 35	23.44% 15	21.88% 14	64	1.67

Q5 Which reasons describe why you ride a bicycle? (Please check all that apply)

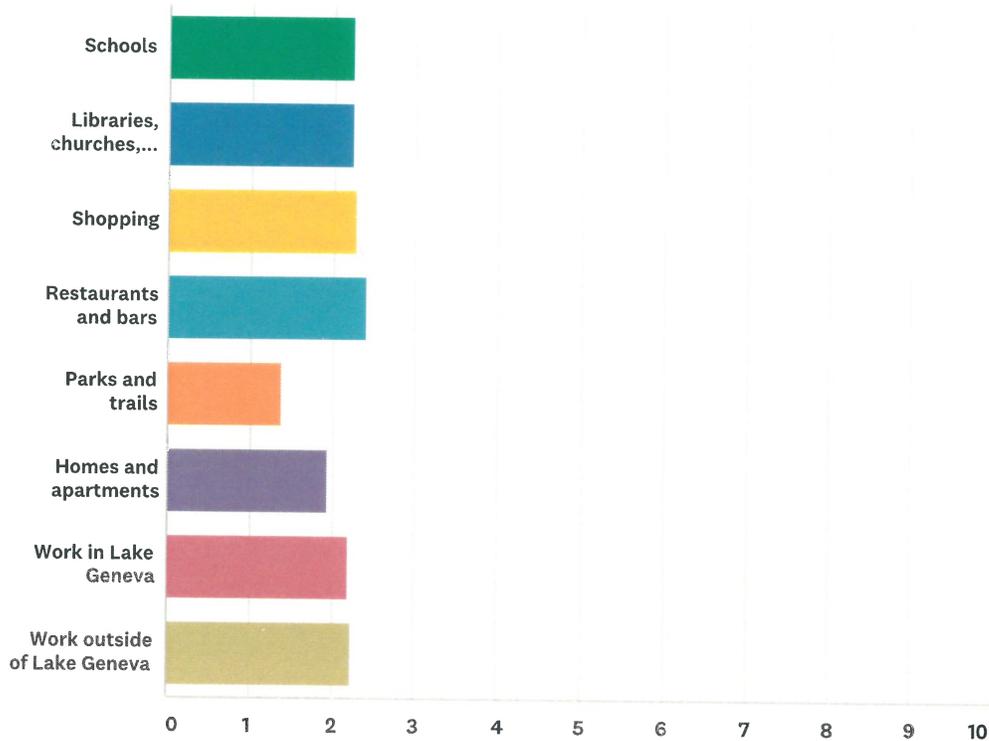
Answered: 78 Skipped: 10



ANSWER CHOICES	RESPONSES	
For exercise/recreation	100.00%	78
Shopping	25.64%	20
Visiting friends or family	33.33%	26
Going to restaurants and bars	29.49%	23
Going to community or religious events	15.38%	12
Work	21.79%	17
School	2.56%	2
To go to other communities outside of Lake Geneva	35.90%	28
Total Respondents: 78		

Q6 Choose your top 3 locations where you would like to see better bicycle connections to.

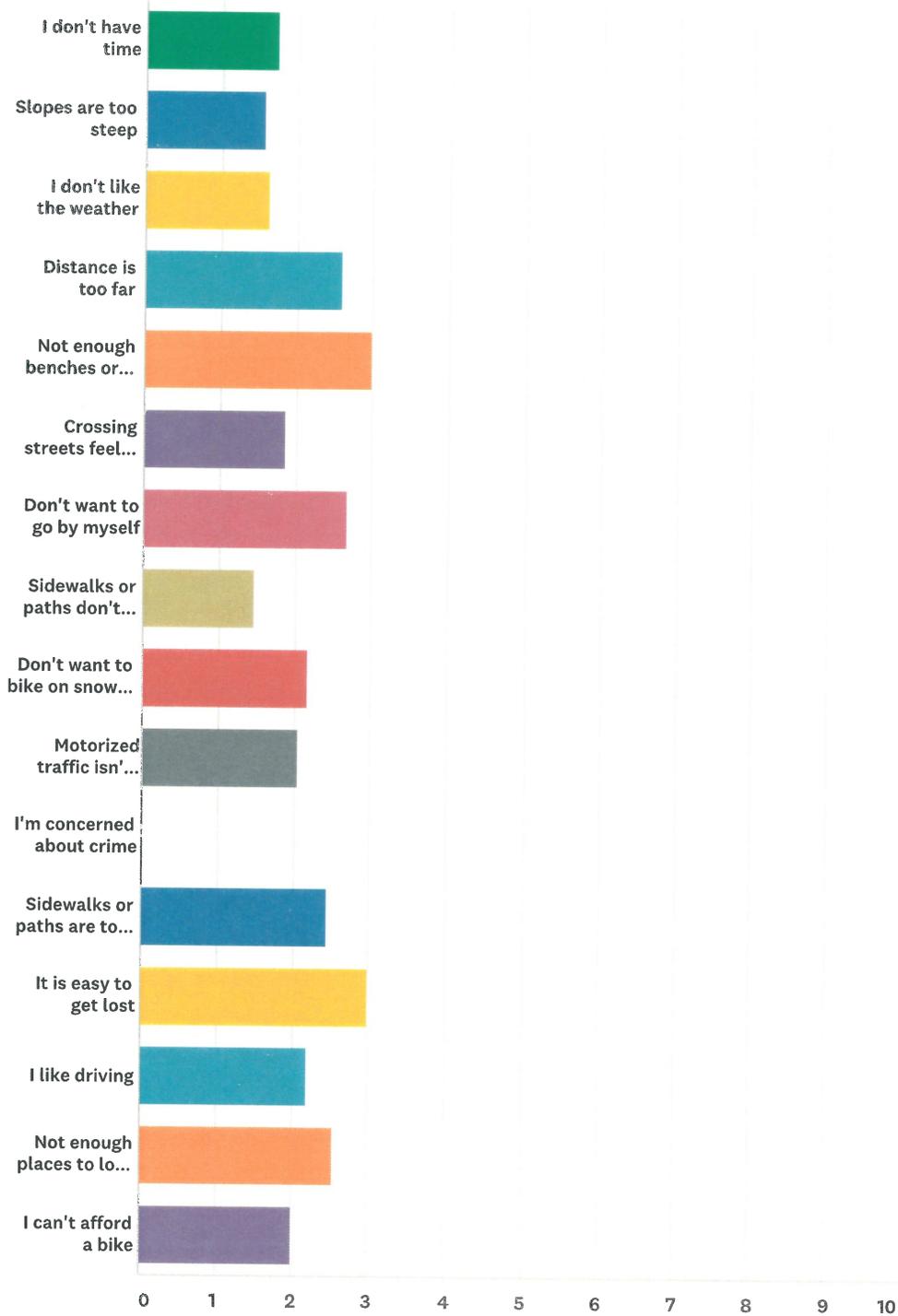
Answered: 78 Skipped: 10



	TOP CHOICE	SECOND CHOICE	THIRD CHOICE	TOTAL	WEIGHTED AVERAGE
Schools	11.76% 2	52.94% 9	35.29% 6	17	2.24
Libraries, churches, and/or community facilities	26.47% 9	23.53% 8	50.00% 17	34	2.24
Shopping	20.83% 5	29.17% 7	50.00% 12	24	2.29
Restaurants and bars	13.33% 4	33.33% 10	53.33% 16	30	2.40
Parks and trails	69.01% 49	22.54% 16	8.45% 6	71	1.39
Homes and apartments	27.78% 5	50.00% 9	22.22% 4	18	1.94
Work in Lake Geneva	6.25% 1	68.75% 11	25.00% 4	16	2.19
Work outside of Lake Geneva	17.65% 3	41.18% 7	41.18% 7	17	2.24

Q7 Choose your top 3 reasons that keep you from bicycling.

Answered: 79 Skipped: 9



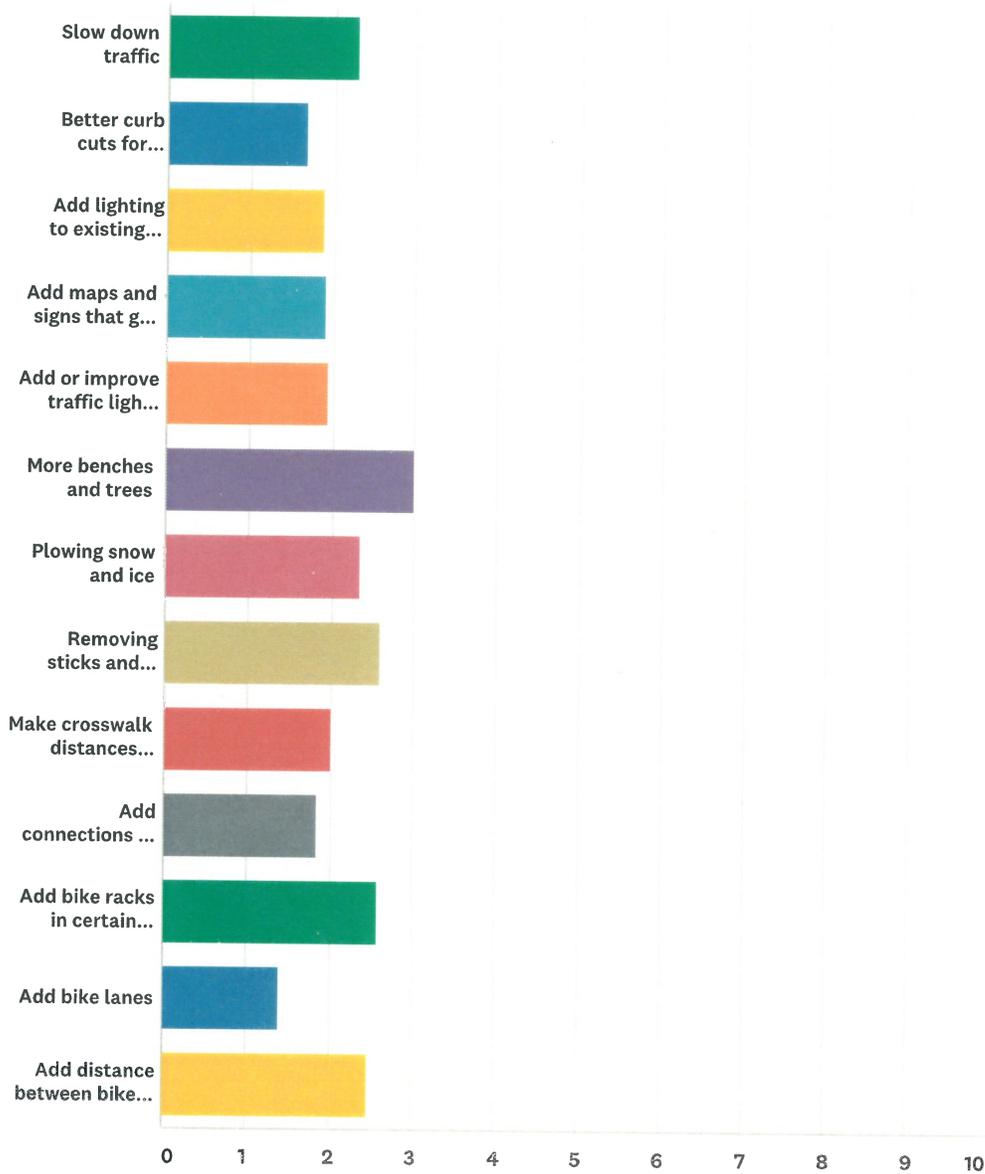
	TOP CHOICE	SECOND CHOICE	THIRD CHOICE	TOTAL	WEIGHTED AVERAGE
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City of Lake Geneva Bicycle and Pedestrian Plan

I don't have time	54.55% 6	18.18% 2	27.27% 3	11	1.73
Slopes are too steep	57.14% 4	28.57% 2	14.29% 1	7	1.57
I don't like the weather	54.55% 6	27.27% 3	18.18% 2	11	1.64
Distance is too far	0.00% 0	40.00% 2	60.00% 3	5	2.60
Not enough benches or trees	0.00% 0	0.00% 0	100.00% 2	2	3.00
Crossing streets feels dangerous	41.38% 12	31.03% 9	27.59% 8	29	1.86
Don't want to go by myself	0.00% 0	33.33% 1	66.67% 2	3	2.67
Sidewalks or paths don't connect to where I need to go	63.46% 33	26.92% 14	9.62% 5	52	1.46
Don't want to bike on snow and ice	13.04% 3	56.52% 13	30.43% 7	23	2.17
Motorized traffic isn't safe	22.22% 8	50.00% 18	27.78% 10	36	2.06
I'm concerned about crime	0.00% 0	0.00% 0	0.00% 0	0	0.00
Sidewalks or paths are too dark at night	18.18% 4	18.18% 4	63.64% 14	22	2.45
It is easy to get lost	0.00% 0	0.00% 0	100.00% 1	1	3.00
I like driving	40.00% 2	0.00% 0	60.00% 3	5	2.20
Not enough places to lock my bike	4.55% 1	36.36% 8	59.09% 13	22	2.55
I can't afford a bike	0.00% 0	100.00% 1	0.00% 0	1	2.00

Q8 What are the top 3 improvements that you feel would improve your bicycling experience?

Answered: 78 Skipped: 10



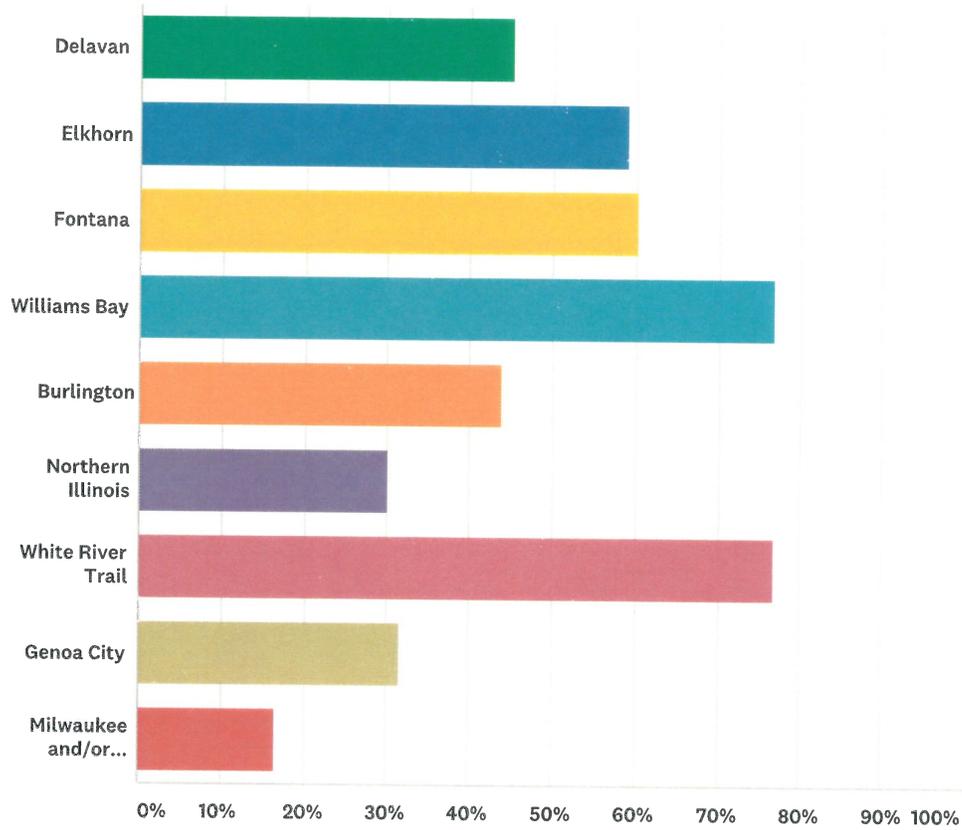
	TOP CHOICE	SECOND CHOICE	THIRD CHOICE	TOTAL	WEIGHTED AVERAGE
Slow down traffic	28.57% 2	14.29% 1	57.14% 4	7	2.29
Better curb cuts for handicap or stroller access	66.67% 2	0.00% 0	33.33% 1	3	1.67
Add lighting to existing sidewalks and paths	31.25% 5	50.00% 8	18.75% 3	16	1.88

City of Lake Geneva Bicycle and Pedestrian Plan

Add maps and signs that give directions	36.36% 4	36.36% 4	27.27% 3	11	1.91
Add or improve traffic lights that make crossing busy roads easier	36.36% 8	31.82% 7	31.82% 7	22	1.95
More benches and trees	0.00% 0	0.00% 0	100.00% 1	1	3.00
Plowing snow and ice	17.65% 3	29.41% 5	52.94% 9	17	2.35
Removing sticks and leaves from surface	0.00% 0	40.00% 2	60.00% 3	5	2.60
Make crosswalk distances shorter so crossing is easier	0.00% 0	100.00% 1	0.00% 0	1	2.00
Add connections to existing sidewalks and paths	39.02% 16	36.59% 15	24.39% 10	41	1.85
Add bike racks in certain locations	10.53% 2	21.05% 4	68.42% 13	19	2.58
Add bike lanes	66.04% 35	28.30% 15	5.66% 3	53	1.40
Add distance between bike lanes and traffic	3.33% 1	46.67% 14	50.00% 15	30	2.47

Q9 Which of the following communities do you bike to, or would you bike to if a trail connection was made? (check all that apply)

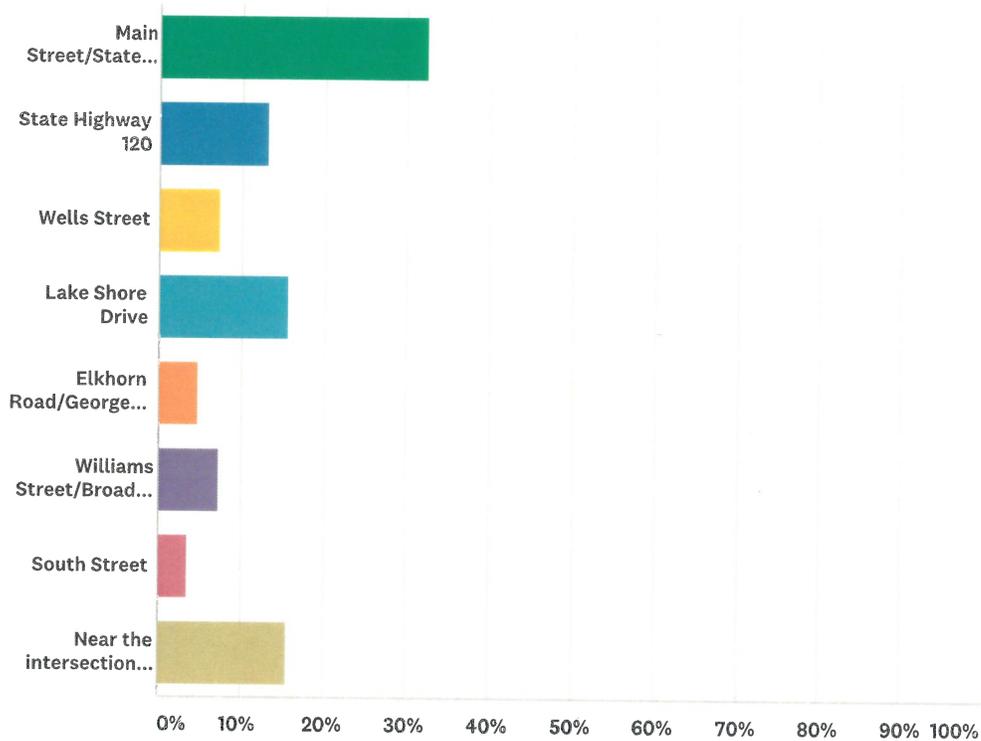
Answered: 73 Skipped: 15



ANSWER CHOICES	RESPONSES	
Delavan	45.21%	33
Elkhorn	58.90%	43
Fontana	60.27%	44
Williams Bay	76.71%	56
Burlington	43.84%	32
Northern Illinois	30.14%	22
White River Trail	76.71%	56
Genoa City	31.51%	23
Milwaukee and/or Milwaukee Suburbs	16.44%	12
Total Respondents: 73		

Q10 Which part of Lake Geneva needs pedestrian and/or bicycle upgrades the most? (Choose one)

Answered: 83 Skipped: 5



ANSWER CHOICES	RESPONSES	
Main Street/State Highway 50	32.53%	27
State Highway 120	13.25%	11
Wells Street	7.23%	6
Lake Shore Drive	15.66%	13
Elkhorn Road/George Street	4.82%	4
Williams Street/Broad Street	7.23%	6
South Street	3.61%	3
Near the intersection of 2 or more of these streets	15.66%	13
TOTAL		83

1. Provide topographic survey and mapping, field reviews and plan preparation for the reconstruction of one alley, Marianne terrace, and storm sewer design at the intersection of Sage and Spring Street. Plans to include location and detail of pavement and base removals, new asphaltic paving, and curb and gutter replacement, storm sewer design and accessible ramps replacements.
2. Provide a map exhibit to present the streets to be improved, limits of the resurfacing and type of resurfacing to be completed. Streets as listed above will be provided on the exhibit.
3. Provide utility coordination of all private utilities for all streets including utility location for survey of street improvements requiring grading or utility improvements/repairs.
4. Provide a summary table to present a breakdown of quantities by street segment as information to bidder. Information may include but not limited to the length, width, square yardage of repair, number of manholes, number of inlets, type of asphalt and length of curb replacement (if necessary).
5. Provide details as needed to complete work.
6. Prepare and provide Project Manual including but not limited to Advertisement for Bids, Instruction to Bidders, Bid Form, Bidder's Qualification Statement, Agreement, and General Conditions of Contract, Supplementary Conditions, and Special Provisions.
7. Prepare for and attend the bid opening
8. Review Bids, make recommendation for award, and coordinate notice of award, agreement, and notice to proceed documentation.
9. Attend meetings as required and provide update memos to the Department of Public Works.

Construction Management Activities

10. Provide administrative services to manage client coordination/invoicing, project schedules, contract change order documentation, establish project logs, formatting monthly contract quantity estimating and contractor invoicing and contract closeout documentation for base bid projects.
11. Provide construction survey staking for necessary items within the construction contract. This survey provides for a "one time" staking for a

particular item. If the contractor damages any stakes, they shall be responsible for the cost to replace those damaged stakes.

12. Coordinate and complete necessary material testing services for work completed. Concrete testing is completed by a subconsultant. Samples will be sent to the lab and costs passed through at no mark up. An estimate for concrete testing has been provided.
13. Process payment requests from the contractor for their work and prepare recommendation for payment for City approval. Complete final close out documentation and acceptance of improvements memorandum. **(This task is completed on a monthly basis and is completed for all work approved for the prior month.)**
14. The Engineer will be responsible for notifying, scheduling, conducting, documenting, and distributing minutes of the preconstruction conference.
15. Prepare and provide project update memorandum and provide copies of the daily journal entries to City staff upon request.
16. Attend meetings as needed and coordinate with adjacent property owners and business as needed.
17. Upon project completion, all utility data and as-built information will be transferred to the City GIS system for permanent records.
18. It is anticipated the construction work under this amendment- will begin on or after April 2, 2018 and be completed by July 31, 2018. This schedule has been provided for estimating purposes only. Engineer and staking construction services are estimated on the engineering and survey staff being on site as needed and completing project paperwork for up to 8 weeks.

Section B. – Schedule

Engineer shall perform the Scope of Services and deliver the related Documents according to the following schedule:

1. Provide “Preliminary Plans” to the Department of Public Works for review and comment on or before February 23, 2018.
2. Provide Final Plans and Specification to the Department of Public Works for bid in March of 2018.

Section C. – Compensation

In return for the performance of the foregoing obligations, Owner shall pay to Engineer an amount not-to-exceed Sixty-Seven Thousand dollars (\$67,000.00). payable according to the following terms:

A not-to-exceed amount based on the rates as listed in Attachment A of the Agreement, plus direct expenses. Cost plus services are limited to an agreed maximum figure unless amended.

Engineer may request a change to the billing hours if scope changes, beyond the control of the Engineer, resulting in an extension of the schedule or necessitates a change in personnel.

Compensation for Additional Services (if any) shall be paid by Owner to Engineer according to the hourly billing rates shown in Attachment A of the Agreement.

IN WITNESS WHEREOF, the Owner and Engineer have executed the Task Order.

Owner: City of Lake Geneva

Engineer: Kapur & Associates, Inc.

By: _____

By: Gregory L Governatori

Signature: _____

Signature: _____

Title: _____

Title: Project Manager

Date: _____

Date: _____

Kapur Associates, Inc.
Summary of Staff Hours and Labor Costs
for the
City of Lake Geneva

TASK ORDER 13

City of Lake Geneva 2018 Street & Utility Improvement Project - Attachment A

CLASSIFICATION	Project Manager		Senior Project Engineer		Staff Engineer II		Senior Technician		Construction Engineer		Construction Engineer		Surveyor		Survey Crew		Total Labor		
	ACT. Code	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars	Hours	Dollars
Average Hourly Wage			\$140.00		\$111.00		\$92.00		\$79.00		\$96.00		\$82.00		\$108.00				
TASK DESCRIPTION																			
Resurfacing Streets																			
handicap ramp survey/design																			
Map Preparation				2	\$222.00		\$2,624.00		8	\$632.00								52	\$4,308.00
Maintenance Quantity Breakdown Table				2	\$222.00		\$1,968.00		8	\$632.00								10	\$854.00
Detail Preparation				2	\$222.00		\$1,968.00		8	\$632.00								26	\$2,180.00
																		8	\$632.00
Townline Road																			
Topographic Survey				8	\$888.00		\$1,312.00		2	\$156.00								9	\$900.00
Plan Preparation																		24	\$2,200.00
Detail Preparation				8	\$888.00		\$2,624.00		4	\$316.00								9	\$842.00
																		40	\$3,512.00
																		6	\$474.00
Alleys (To be determined)																			
Map Preparation				1	\$111.00		\$1,312.00		2	\$156.00								19	\$1,561.00
Maintenance Quantity Breakdown Table				1	\$111.00		\$1,148.00		6	\$474.00								15	\$1,259.00
Survey and Mapping																		12	\$1,122.00
																		Subtotal	\$3,962.00
Project Manual/Administration																			
Administration				8	\$1,120.00													8	\$1,120.00
Advertisement/Project Manual				2	\$280.00		\$2,624.00		4	\$316.00								32	\$3,058.00
Attend Bid Opening				4	\$444.00		\$328.00											6	\$726.00
Post Bid Opening Activities				6	\$666.00		\$328.00											10	\$994.00
Meetings as Required				4	\$444.00		\$328.00											12	\$1,332.00
																		Subtotal	\$7,258.00
Sage & Spring Storm Sewer Design																			
Topographic Survey				8	\$888.00		\$3,280.00		4	\$316.00								8	\$864.00
Layout/plan preparation																		12	\$1,180.00
																		Subtotal	\$4,168.00
Construction Management																			
Resurfacing Streets				4	\$444.00													60	\$4,920.00
Marianna Terrace				4	\$444.00													64	\$5,248.00
Sage & Spring Street				4	\$444.00													120	\$9,840.00
Townline Road																		8	\$656.00
Alley				4	\$444.00		\$1,312.00											8	\$656.00
Construction Administration				4	\$560.00													68	\$5,692.00
																		12	\$1,216.00
TOTALS				18	\$2,520.00		\$17,548.00		52	\$372		\$5,576.00		284	\$23,288.00		\$6,048.00	66	\$35,104.00
																		Subtotal	\$65,684

Summary of Expenses	Units	Cost	Total
Estimated Expenses			
Concrete Testing			
Utility Permit			
Totals			

Expenses:
Project Total: \$65,684

Chapter 78. Utilities

ARTICLE III. SEWER SERVICE

DIVISION 2. USE OF PUBLIC SEWERS

Sec. 78-247. Storm sewers, Storm Water Management

[Code 1992, § 13.51(2); Ord. No. 98-9, § I, 10-12-1998]

(a) AUTHORITY

- (1) This ordinance is adopted by the Common Council under the authority granted by s. 62.234, Wis. Stats.
- (2) This ordinance supersedes all provisions of an ordinance previously enacted under s. 62.23, Wis. Stats., that relate to storm water management regulations. Except as otherwise specified in s.62.234, Wis. Stats., s. 62.23, Wis. Stats., applies to this ordinance and to any amendments to this ordinance.
- (3) The provisions of this ordinance are deemed not to limit any other lawful regulatory powers of the same governing body.
- (4) The Common Council hereby designates the Building Inspector, Zoning Administrator, and/or City Engineer to administer and enforce the provisions of this ordinance.
- (5) The requirements of this ordinance do not pre-empt more stringent storm water management requirements that may be imposed by any of the following:
 - a. Wisconsin Department of Natural Resources administrative rules, permits or approvals including those authorized under ss. 281.16 and 283.33, Wis. Stats. and
 - b. Targeted non-agricultural performance standards promulgated in rules by the Wisconsin Department of Natural Resources under s. NR 151.004, Wis. Adm. Code.

(b) FINDINGS OF FACT - The Common Council acknowledges that uncontrolled, post-construction runoff has a significant impact upon water resources and the health, safety and general welfare of the community and diminishes the public enjoyment and use of natural resources. Specifically, uncontrolled post-construction runoff can:

- (1) Degrade physical stream habitat by increasing stream bank erosion, increasing streambed scour, diminishing groundwater recharge, diminishing stream base flows and increasing stream temperature;
- (2) Diminish the capacity of Geneva Lake and streams to support fish, aquatic life, recreational and water supply uses by increasing pollutant loading of sediment, suspended solids, nutrients, heavy metals, bacteria, pathogens and other urban

pollutants;

- (3) Alter wetland communities by changing wetland hydrology and by increasing pollutant loads;
- (4) Reduce the quality of groundwater by increasing pollutant loading;
- (5) Threaten public health, safety, property and general welfare by overtaxing storm sewers, drainage ways, and other minor drainage facilities;
- (6) Threaten public health, safety, property, and general welfare by increasing major flood peaks and volumes;
- (7) Undermine floodplain management efforts by increasing the incidence and levels of flooding; and
- (8) Diminish the public enjoyment of natural resources.

(c) PURPOSE AND INTENT

- (1) **PURPOSE.** The general purpose of this ordinance is to establish long-term, post-construction runoff management requirements that will diminish the threats to public health, safety, welfare and the aquatic environment. Specific purposes are to:
 - a. Further the maintenance of safe and healthful conditions;
 - b. Prevent and control the adverse effects of storm water; prevent and control soil erosion; prevent and control water pollution; protect spawning grounds, fish and aquatic life; control building sites, placement of structures and land uses; preserve ground cover and scenic beauty; and promote sound economic growth;
 - c. Control exceedance of the safe capacity of existing drainage facilities and receiving water bodies; prevent undue channel erosion; and control increases in the scouring and transportation of particulate matter; and
 - d. Minimize the amount of pollutants discharged from the separate storm sewer to protect the waters of the state.
- (2) **INTENT.** It is the intent of the Common Council that this ordinance regulates post-construction storm water discharges to waters of the state. This ordinance may be applied on a site-by-site basis. The Common Council recognizes, however, that the preferred method of achieving the storm water performance standards set forth in this ordinance is through the preparation and implementation of comprehensive, systems-level storm water management plans that cover hydrologic units, such as watersheds, on a municipal and regional scale. Such plans may prescribe regional storm water devices, practices or systems, any of which may be designed to treat runoff from more than one site prior to discharge to waters of the state. Where such plans are in conformance with the performance standards developed under s.

281.16, Wis. Stats., for regional storm water management measures and have been approved by the Common Council, it is the intent of this ordinance that the approved storm water management plan be used to identify post-construction management measures acceptable for the community.

(d) APPLICABILITY

- (1) Except as provided under par. (2), this ordinance applies to a post-construction site whereupon one acre or more of land disturbing construction activity occurs during construction.
- (2) A site that meets any of the criteria in this paragraph is exempt from the requirements of this ordinance:
 - a. A post-construction site with less than ten percent connected imperviousness, based on the area of land disturbance, provided the cumulative area of all impervious surfaces is less than one acre. However, the exemption of this paragraph does not include exemption from the protective area standard of this ordinance;
 - b. Agricultural facilities and practices; and
 - c. Underground utility construction, but not including the construction of any above ground structures associated with utility construction.
- (3) Notwithstanding the applicability requirements in par. (1), this ordinance applies to post- construction sites of any size that, as determined by the Building Inspector, Zoning Administrator, and/or City Engineer are likely to result in runoff that exceeds the safe capacity of the existing drainage facilities or receiving body of water, causes undue channel erosion, or increases water pollution by scouring or the transportation of particulate matter.

(e) JURISDICTION

- (1) This chapter applies to land developing and land disturbing activities on lands situated within the corporate limits of the City of Lake Geneva. This chapter also applies to all lands located within the extraterritorial plat approval jurisdiction of the City of Lake Geneva, even if plat approval is not involved.
- (2) EXCLUSIONS. This ordinance is not applicable to activities conducted by a state agency, as defined under s.227.01 (1), Wis. Stats.

(f) DEFINITIONS

- (1) "Adequate sod, or self-sustaining vegetative cover" means maintenance of sufficient vegetation types and densities such that the physical integrity of the streambank or lakeshore is preserved. Self-sustaining vegetative cover includes grasses, forbs,

- sedges and duff layers of fallen leaves and woody debris.
- (2) "Administering authority" means a governmental employee, or a regional planning commission empowered under s. 62.234, Wis. Stats., that is designated by the Common Council to administer this ordinance.
 - (3) "Agricultural facilities and practices" has the meaning given in s. 281.16 (1), Wis. Stats.
 - (4) "Agricultural land use" means the use of land for planting, growing, cultivating and harvesting of crops for human or livestock consumption and pasturing or yarding of livestock.
 - (5) "Applicant" means the landowner or one of the landowners and/or land user of a site subject to this section.
 - (6) "Atlas 14" means the National Oceanic and Atmospheric Administration (NOAA) Atlas 14 Precipitation-Frequency Atlas of the United States, Volume 8 (Midwestern States), published in 2013.
 - (7) "Average annual rainfall" means a typical calendar year of precipitation as determined by the Wisconsin Department of Natural Resources for users of models such as WinSLAMM, P8 or equivalent methodology. The average annual rainfall is chosen from a department publication for the location closest to the municipality.
 - (8) "Best management practice" or "BMP" means structural or non-structural measures, practices, techniques or devices employed to avoid or minimize sediment or pollutants carried in runoff to waters of the state.
 - (9) "Business day" means a day the office of the City of Lake Geneva is routinely and customarily open for business.
 - (10) "Cease and desist order" means a court-issued order to halt land disturbing construction activity that is being conducted without the required permit or in violation of a permit issued by the City of Lake Geneva.
 - (11) "Clean fill" means uncontaminated rock, stone, sand, soil, brick, building stone, concrete, reinforced concrete, broken pavement, and unpainted or untreated wood.
 - (12) "Channel" means a natural or artificial constructed watercourse with a definite bed and banks to confine and conduct the normal flow of water.
 - (13) "Combined sewer system" means a system for conveying both sanitary sewage and storm water runoff.
 - (14) "Connected imperviousness" means an impervious surface connected to the waters of the state via a separate storm sewer, an impervious flow path, or a minimally pervious flow path.
 - (15) "Control measure" means a practice or combination of practices to control erosion, storm water and attendant pollution.
 - (16) "Department" means the Wisconsin Department of Natural Resources.

- (17) "Detention Basin" means a type of storm water basin which has a direct outlet and serves to reduce water velocities and peak flows by discharging at designed flow rates (to temporarily detain water flows). A detention basin is considered wet if they are greater than three feet deep from the permanent water level to the bottom of the basin.
- (18) "Design storm" means a hypothetical discrete rainstorm characterized by a specific duration, temporal distribution, rainfall intensity, return frequency and total depth of rainfall.
- (19) "Development" means residential, commercial, industrial or institutional land uses and associated roads.
- (20) "Direct conduits to groundwater" means wells, sinkholes, swallets, fractured bedrock at the surface, mine shafts, non-metallic mines, tile inlets discharging to groundwater, quarries, or depressional groundwater recharge areas over shallow fractured bedrock.
- (21) "Disturbed area" means a site which, due to land developing or disturbing activities, has or will experience disturbance or destruction of the existing land surface and/or vegetative cover.
- (22) "Effective infiltration area" means the area of the infiltration system that is used to infiltrate runoff and does not include the area used for site access, berms or pretreatment.
- (23) "Erosion" means the process by which the land's surface is worn away by the action of wind, water, ice or gravity.
- (24) "Exceptional resource waters" means waters listed in s. NR 102.11, Wis. Adm. Code.
- (25) "Extraterritorial" means the unincorporated area within three miles of the corporate limits of a first, second, or third class city, or within one and a half miles of a fourth class city or village.
- (26) "Filtering layer" means soil that has at least a 3-foot deep layer with at least 20 percent fines; or at least a 5-foot deep layer with at least 10 percent fines; or an engineered soil with an equivalent level of protection as determined by the regulatory authority for the site.
- (27) "Final stabilization" means that all land disturbing construction activities at the construction site have been completed and that a uniform perennial vegetative cover has been established with a density of at least 70 percent of the cover for the unpaved areas and areas not covered by permanent structures or that employ equivalent permanent stabilization measures.
- (28) "Financial guarantee" means a performance bond, maintenance bond, surety bond, irrevocable letter of credit, or similar guarantees submitted to the City of Lake Geneva by the responsible party to assure that requirements of the ordinance are carried out in compliance with the storm water management plan.

- (29) "Governing body" means city council.
- (30) "Impervious surface" means an area that releases as runoff all or a large portion of the precipitation that falls on it, except for frozen soil. Rooftops, sidewalks, driveways, gravel or paved parking lots and streets are examples of areas that typically are impervious.
- (31) "In-fill" means an undeveloped area of land located within an existing urban sewer service area, surrounded by development or development and natural or man-made features where development cannot occur.
- (32) "Infiltration" means the entry of precipitation or runoff into or through the soil.
- (33) "Infiltration system" means a device or practice such as a basin, trench, rain garden or swale designed specifically to encourage infiltration, but does not include natural infiltration in pervious surfaces such as lawns, redirecting of rooftop downspouts onto lawns or minimal infiltration from practices, such as swales or road side channels designed for conveyance and pollutant removal only.
- (34) "Land developing activity" means the construction or erection of buildings, roads, parking lots, paved storage areas and other structures.
- (35) "Land disturbing construction activity" means any man-made alteration of the land surface resulting in a change in the topography or existing vegetative or non-vegetative soil cover, that may result in runoff and lead to an increase in soil erosion and movement of sediment into waters of the state. Land disturbing construction activity includes clearing and grubbing, demolition, excavating, pit trench dewatering, filling and grading activities.
- (36) "Landowner" means any person holding fee title, an easement or other interest in property, which allows the person to undertake cropping, livestock management, and/or land disturbing construction activity or maintenance of storm water BMPs on the property.
- (37) "Land user" means any person operating upon, leasing, or renting land, or having made any other arrangements with the landowner by which the land user engages in uses of land which are sites subject to this section.
- (38) "Maintenance agreement" means a legal document that provides for long-term maintenance of storm water management practices.
- (39) "Maximum extent practicable" means the highest level of performance that is achievable but is not equivalent to a performance standard identified in this ordinance as determined in accordance with (g) of this ordinance.
- (40) "New development" means development resulting from the conversion of previously undeveloped land or agricultural land uses.
- (41) "NRCS MSE3 or MSE4 distribution" means a specific precipitation distribution developed by the United States Department of Agriculture, Natural Resources

- Conservation Service, using precipitation data from Atlas 14.
- (42) "Off-site" means located outside the property boundary described in the permit application.
 - (43) "On-site" means located within the property boundary described in the permit application.
 - (44) "Ordinary high-water mark" has the meaning given in s. NR 115.03 (6), Wis. Adm. Code.
 - (45) "Outstanding resource waters" means waters listed in s. NR 102.10, Wis. Adm. Code.
 - (46) "Percent fines" means the percentage of a given sample of soil, which passes through a # 200 sieve.
 - (47) "Performance security" means a performance bond, maintenance bond, surety bond, irrevocable letter of credit, or similar guarantees submitted to the City by the permit holder to assure that requirements of the section are carried out in compliance with the storm water management plan.
 - (48) "Performance standard" means a narrative or measurable number specifying the minimum acceptable outcome for a facility or practice.
 - (49) "Permit" means a written authorization made by the City of Lake Geneva to the applicant to conduct land disturbing construction activity or to discharge post-construction runoff to waters of the state.
 - (50) "Permit administration fee" means a sum of money paid to the City of Lake Geneva by the permit applicant for the purpose of recouping the expenses incurred by the authority in administering the permit.
 - (51) "Pervious surface" means an area that releases as runoff a small portion of the precipitation that falls on it. Lawns, gardens, parks, forests or other similar vegetated areas are examples of surfaces that typically are pervious.
 - (52) "Pollutant" has the meaning given in s. 283.01 (13), Wis. Stats.
 - (53) "Pollution" has the meaning given in s. 281.01 (10), Wis. Stats.
 - (54) "Post-construction site" means a construction site following the completion of land disturbing construction activity and final site stabilization.
 - (55) "Pre-development condition" means the extent and distribution of land cover types present before the initiation of land disturbing construction activity, assuming that all land uses prior to development activity are managed in an environmentally sound manner.
 - (56) "Preventive action limit" has the meaning given in s. NR 140.05 (17), Wis. Adm. Code.
 - (57) "Protective area" means an area of land that commences at the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands, and that is the greatest of the following widths, as measured horizontally from the top of the channel

- or delineated wetland boundary to the closest impervious surface.
- (58) "Redevelopment" means areas where development is replacing older development.
- (59) "Responsible party" means the landowner or any other entity performing services to meet the requirements of this ordinance through a contract or other agreement.
- (60) "Retention basin" means a type of storm water basin which has no direct outlet and empties by infiltration to the natural soil surface and by evaporation (to retain all water).
- (61) "Runoff" means storm water or precipitation including rain, snow or ice melt or similar water that moves on the land surface via sheet or channelized flow.
- (62) "Sedimentation basin" means an artificially created holding pond or other catchment for the purpose of capturing and retaining any sediment flowing off of sites as a result of land developing or land disturbing activities.
- (63) "Separate storm sewer" means a conveyance or system of conveyances including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, constructed channels or storm drains, which meets all of the following criteria:
- a. Is designed or used for collecting water or conveying runoff;
 - b. Is not part of a combined sewer system;
 - c. Is not part of a publicly owned wastewater treatment works that provides secondary or more stringent treatment; and
 - d. Discharges directly or indirectly to waters of the state.
- (64) "Silviculture activity" means activities including tree nursery operations, tree harvesting operations, reforestation, tree thinning, prescribed burning, and pest and fire control. Clearing and grubbing of an area of a construction site is not a silviculture activity.
- (65) "Site" means the entire area included in the legal description of the land on which the land disturbing or land development construction activity is proposed to take place or has occurred.
- (66) "Sheet flow runoff" means water, usually storm runoff, flowing in a thin layer of the ground surface; also called overland flow. (By convention this distance does not exceed 300 feet).
- (67) "Stop work order" means an order issued by the City of Lake Geneva which requires that all construction activity on the site be stopped.
- (68) "Storm water" means precipitation runoff, snow melt runoff, surface runoff and drainage.
- (69) "Storm water basin" means an artificially created holding pond or other catchment for the purposes of retaining or detaining storm water.
- (70) "Storm water management plan" means a comprehensive plan designed to reduce the discharge of pollutants from storm water, after the site has under gone final

stabilization, following completion of the construction activity which shall include, but is not limited to a plat of survey setting forth a written description of the number location, sizes, and other pertinent data as to control measures designed to meet the requirements of this section submitted by the applicant for review and approval by the City.

- (71) "Storm water management system plan" is a comprehensive plan designed to reduce the discharge of runoff and pollutants from hydrologic units on a regional or municipal scale.
- (72) "Technical standard" means a document that specifies design, predicted performance and operation and maintenance specifications for a material, device or method.
- (73) "Time of Concentration" means the time for surface runoff to travel from the farthest point in the watershed to the outlet point of the watershed.
- (74) "Top of the channel" means an edge, or point on the landscape landward from the ordinary high- water mark of a surface water of the state, where the slope of the land begins to be less than 12 percent continually for at least 50 feet. If the slope of the land is 12 percent or less continually for the initial 50 feet landward from the ordinary high-water mark, the top of the channel is the ordinary high-water mark.
- (75) "Total maximum daily load" or "TMDL" means the amount of pollutants specified as a function of one or more water quality parameters, that can be discharged per day into a water quality limited segment and still ensure attainment of the applicable water quality standard.
- (76) "TP-40" means Technical Paper No. 40, Rainfall Frequency Atlas of the United States, published in 1961.
- (77) "TR-55" means the United States department of agriculture, natural resources conservation service (previously soil conservation service), Urban Hydrology for Small Watersheds, Second Edition, Technical Release 55, June 1986, which is incorporated by reference for this chapter.
- (78) "Transportation facility" means a highway, a railroad, a public mass transit facility, a public-use airport, a public trail or any other public work for transportation purposes such as harbor improvements under s. 85.095 (1)(b), Wis. Stats. "Transportation facility" does not include building sites for the construction of public buildings and buildings that are places of employment that are regulated by the Department pursuant to s. 281.33, Wis. Stats.
- (79) "TSS" means total suspended solids.
- (80) "Type II distribution" means a rainfall type curve as established in the "United States Department of Agriculture, Soil Conservation Service, Technical Paper 149, published in 1973".
- (81) "Waters of the state" includes those portions of Lake Michigan and Lake Superior within the boundaries of this state, and all lakes, bays, rivers, streams, springs,

ponds, wells, impounding reservoirs, marshes, watercourses, drainage systems and other surface water or groundwater, natural or artificial, public or private, within this state or its jurisdiction.

(g) APPLICABILITY OF MAXIMUM EXTENT PRACTICABLE

Maximum extent practicable applies when a person who is subject to a performance standard of this ordinance demonstrates to the City of Lake Geneva's satisfaction that a performance standard is not achievable and that a lower level of performance is appropriate. In making the assertion that a performance standard is not achievable and that a level of performance different from the performance standard is the maximum extent practicable, the responsible party shall take into account the best available technology, cost effectiveness, geographic features, and other competing interests such as protection of public safety and welfare, protection of endangered and threatened resources, and preservation of historic properties.

(h) DESIGN STANDARDS

- (1) The following methods shall be used in designing the water quality, peak discharge, and infiltration components of storm water practices needed to meet the water quality standards of this ordinance:
 - a. Consistent with the technical standards identified, developed or disseminated by the Wisconsin Department of Natural Resources under subchapter V of chapter NR 151, Wis. Adm. Code; and
 - b. Where technical standards have not been identified or developed by the Wisconsin Department of Natural Resources, other technical standards may be used provided that the methods have been approved by the City of Lake Geneva.
- (2) **STORM WATER MANAGEMENT PLAN.** A written storm water management plan in accordance with (j) shall be developed and implemented for each post-construction site.
- (3) **MAINTENANCE OF EFFORT.** For redevelopment sites where the redevelopment will be replacing older development that was subject to post-construction performance standards of NR 151 in effect on or after October 1, 2004, the responsible party shall meet the total suspended solids reduction, peak flow control, infiltration, and protective areas standards applicable to the older development or meet the redevelopment standards of this ordinance, whichever is more stringent.
- (4) **REQUIREMENTS.** The storm water management plan required under sub. (2) shall include the following:
 - a. **TOTAL SUSPENDED SOLIDS.** BMPs shall be designed, installed and maintained to control total suspended solids carried in runoff from the post-construction site as follows:

1. BMPs shall be designed in accordance with Table 1 or to the maximum extent practicable as provided in subd. 2. The design shall be based on an average annual rainfall, as compared to no runoff management controls.
2. Maximum Extent Practicable. If the design cannot meet a total suspended solids reduction performance standard of Table 1, the storm water management plan shall include a written, site-specific explanation of why the total suspended solids reduction performance standard cannot be met and why the total suspended solids load will be reduced only to the maximum extent practicable.

Table 1 TSS Reduction Standards

Development Type	TSS Reduction
New Development	80 percent
In-fill Development	80 percent
Redevelopment	40 percent of load from parking areas and roads

3. Off-Site Drainage. When designing BMPs, runoff draining to the BMP from off- site shall be taken into account in determining the treatment efficiency of the practice. Any impact on the efficiency shall be compensated for by increasing the size of the BMP accordingly.
- b. **PEAK DISCHARGE.** BMPs shall be designed, installed and maintained to control peak discharge from the post-construction site as follows:
1. By design, BMPs shall be employed to maintain or reduce the 1-year, 24-hour, the 2-year, 24-hour, the 10-year, 24-hour, and the 100-year, 24-hour post-construction peak runoff discharge rates to the 1-year, 24-hour, the 2-year, 24-hour, the 10-year, 24-hour, and the 100-year, 24-hour pre-development peak runoff discharge rates respectively, or to the maximum extent practicable.
 2. The runoff curve numbers in Table 2 shall be used to represent the actual pre-development conditions. Peak discharges shall be calculated using TR-55 runoff curve number methodology, Atlas 14 precipitation depths, and the appropriate NRCS Wisconsin

MSE3 or MSE4 precipitation distribution. On a case-by-case basis, the City of Lake Geneva may allow the use of TP-40 precipitation depths and a Type II distribution.

Table 2 Maximum Pre-Development Runoff Curve Numbers

	Hydrologic Soil Group			
	A	B	C	D
Woodland	30	55	70	77
Grassland	39	61	71	78
Cropland	55	69	78	83

3. Contribution runoff entering the project from offsite may be excluded from detention calculations if the water is routed around disturbed areas by use of stable water course(s).
4. All open channel storm water conveyance systems shall provide safe conveyance for peak flow from a 25-year frequency, 24-hour rainfall event within the defined channel banks.
5. Conveyance for the peak flow runoff from a 100-year, 24-hour event shall be provided such that no inundation of or damage to built structures shall occur.
6. Where feasible, all permanent storm sewer inlets must be stenciled by the permit holder as part of the water quality strategy for protection of surface waters and drainage to Geneva Lake.
7. Drainage systems may not result in transfer of drainage from one delineated natural drainage area to another if reasonable alternatives exist which would preserve natural drainage patterns. Drainage area delineations must be shown on the storm water plan.
8. All storm water basins shall be permanent, aesthetically pleasing, if practical, and safe. Subsurface bottoms of wet basins must provide a safety ledge consistent with required design criteria identified in (h)(1).
9. This subsection of the ordinance does not apply to any of the following:
 - a. A post-construction site where the discharge is directly

into a lake over 5,000 acres or a stream or river segment draining more than 500 square miles.

- b. Except as provided under (h)(3), a redevelopment post-construction site.
- c. An in-fill development area less than 5 acres.

c. INFILTRATION

- 1. Best Management Practices. BMPs shall be designed, installed, and maintained to infiltrate runoff in accordance with the following or to the maximum extent practicable:
 - a. *Low imperviousness.* For development up to 40 percent connected imperviousness, such as parks, cemeteries, and low density residential development, infiltrate sufficient runoff volume so that the post-development infiltration volume shall be at least 90 percent of the pre-development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than one percent of the post-construction site is required as an effective infiltration area.
 - b. *Moderate imperviousness.* For development with more than 40 percent and up to 80 percent connected imperviousness, such as medium and high density residential, multi-family development, industrial and institutional development, and office parks, infiltrate sufficient runoff volume so that the post-development infiltration volume shall be at least 75 percent of the pre-development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than 2 percent of the post-construction site is required as an effective infiltration area.
 - c. *High imperviousness.* For development with more than 80 percent connected imperviousness, such as commercial strip malls, shopping centers, and commercial downtowns, infiltrate sufficient runoff volume so that the post-development infiltration volume

shall be at least 60 percent of the pre-development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than 2 percent of the post-construction site is required as an effective infiltration area.

2. Pre-development. The pre-development condition shall be the same as specified in Table 2 of the Peak Discharge section of this ordinance.
3. Source Areas.
 - a. *Prohibitions.* Runoff from the following areas may not be infiltrated and may not qualify as contributing to meeting the requirements of this section unless demonstrated to meet the conditions identified in **(h)(4)c.6.:**
 1. Areas associated with a tier 1 industrial facility identified in s. NR 216.21 (2)(a), including storage, loading and parking. Rooftops may be infiltrated with the concurrence of the regulatory authority.
 2. Storage and loading areas of a tier 2 industrial facility identified in s. NR 216.21 (2)(b).
 3. Fueling and vehicle maintenance areas. Runoff from rooftops of fueling and vehicle maintenance areas may be infiltrated with the concurrence of the regulatory authority.
 - b. *Exemptions.* Runoff from the following areas may be credited toward meeting the requirement when infiltrated, but the decision to infiltrate runoff from these source areas is optional:
 1. Parking areas and access roads less than 5,000 square feet for commercial development.
 2. Parking areas and access roads less than 5,000 square feet for industrial development not subject to the Prohibitions under par a.

3. Except as provided under (h)(3), redevelopment post-construction sites.
 4. In-fill development areas less than 5 acres.
 5. Roads on commercial, industrial and institutional land uses, and arterial residential roads.
4. Location of Practices.
- a. *Prohibitions.* Infiltration practices may not be located in the following areas:
 1. Areas within 1000 feet upgradient or within 100 feet downgradient of direct conduits to groundwater.
 2. Areas within 400 feet of a community water system well as specified in s. NR 811.16 (4) or within the separation distances listed in s. NR 812.08 for any private well or non-community well for runoff infiltrated from commercial, including multi-family residential, industrial and institutional land uses or regional devices for one- and two-family residential development.
 3. Areas where contaminants of concern, as defined in s. NR 720.03 (2), are present in the soil through which infiltration will occur.
 - b. *Separation distances.*
 1. Infiltration practices shall be located so that the characteristics of the soil and the separation distance between the bottom of the infiltration system and the elevation of seasonal high groundwater or the top of bedrock are in accordance with Table 3:

Table 3 Separation Distances and Soil Characteristics

Source Area	Separation Distance	Soil Characteristics
Industrial, Commercial, Institutional Parking Lots and Roads	5 feet or more	Filtering Layer
Residential Arterial Roads	5 feet or more	Filtering Layer
Roofs draining to subsurface Infiltration	1 foot or more	Native or Engineered Soil with particles finer than course sand
Roofs draining to surface Infiltration practices	Not Applicable	Not Applicable
All other impervious source areas	3 feet or more	Filtering Layer

2. Notwithstanding par. b., applicable requirements for injection wells classified under ch. NR 815 shall be followed.
- c. *Infiltration rate exemptions.* Infiltration practices located in the following areas may be credited toward meeting the requirements under the following conditions, but the decision to infiltrate under these conditions is optional:
 1. Where the infiltration rate of the soil measured at the proposed bottom of the infiltration system is less than 0.6 inches per hour using a scientifically credible field test method.
 2. Where the least permeable soil horizon to 5 feet below the proposed bottom of the infiltration system using the U.S. Department of Agriculture method of soils analysis is one of the following: sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, or clay.
5. *Alternate Use.* Where alternate uses of runoff are employed, such as for toilet flushing, laundry, or irrigation or storage on green roofs where an equivalent portion of the runoff is captured permanently by rooftop vegetation, such alternate use shall be given equal credit toward the infiltration volume required by this section.
6. *Groundwater Standards.*
 - a. Infiltration systems designed in accordance with this

section shall, to the extent technically and economically feasible, minimize the level of pollutants infiltrating to groundwater and shall maintain compliance with the preventive action limit at a point of standards application in accordance with ch. NR 140. However, if site specific information indicates that compliance with a preventive action limit is not achievable, the infiltration BMP may not be installed or shall be modified to prevent infiltration to the maximum extent practicable.

b. Notwithstanding par. a., the discharge from BMPs shall remain below the enforcement standard at the point of standards application.

7. Pretreatment. Before infiltrating runoff, pretreatment shall be required for parking lot runoff and for runoff from new road construction in commercial, industrial and institutional areas that will enter an infiltration system. The pretreatment shall be designed to protect the infiltration system from clogging prior to scheduled maintenance and to protect groundwater quality in accordance with subd. 6. Pretreatment options may include, but are not limited to, oil and grease separation, sedimentation, biofiltration, filtration, swales or filter strips.

8. Maximum Extent Practicable. Where the conditions of subd. 3. and 4. limit or restrict the use of infiltration practices, the performance standard of (h)(4)c. shall be met to the maximum extent practicable.

d. PROTECTIVE AREAS.

1. Definition. In this section, "protective area" means an area of land that commences at the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands, and that is the greatest of the following widths, as measured horizontally from the top of the channel or delineated wetland boundary to the closest impervious surface. However, in this section, "protective area" does not include any area of land adjacent to any stream enclosed within a pipe or culvert, so that runoff cannot enter the enclosure at this location.

a. For outstanding resource waters and exceptional resource waters, 75 feet.

- b. For perennial and intermittent streams identified on a U.S. Geological Survey 7.5-minute series topographic map, or a county soil survey map, whichever is more current, 50 feet.
- c. For lakes, 50 feet.
- d. For wetlands not subject to par. e. or f., 50 feet.
- e. For highly susceptible wetlands, 75 feet. Highly susceptible wetlands include the following types: calcareous fens, sedge meadows, open and coniferous bogs, low prairies, coniferous swamps, lowland hardwood swamps, and ephemeral ponds.
- f. For less susceptible wetlands, 10 percent of the average wetland width, but no less than 10 feet nor more than 30 feet. Less susceptible wetlands include: degraded wetland dominated by invasive species such as reed canary grass; cultivated hydric soils; and any gravel pits, or dredged material or fill material disposal sites that take on the attributes of a wetland.
- g. In pars. d. to f., determinations of the extent of the protective area adjacent to wetlands shall be made on the basis of the sensitivity and runoff susceptibility of the wetland in accordance with the standards and criteria in s. NR 103.03.
- h. Wetland boundary delineation shall be made in accordance with s. NR 103.08 (1m). This paragraph does not apply to wetlands that have been completely filled in compliance with all applicable state and federal regulations. The protective area for wetlands that have been partially filled in compliance with all applicable state and federal regulations shall be measured from the wetland boundary delineation after a fill has been placed. Where there is a legally authorized wetland fill, the protective area standard need not be met in that location.
- i. For concentrated flow channels with drainage areas greater than 130 acres, 10 feet.
- j. Notwithstanding pars. a. to i., the greatest protective

area width shall apply where rivers, streams, lakes and wetlands are contiguous.

2. **Applicability.** This section applies to post-construction sites located within a protective area, except those areas exempted pursuant to subd. 4.
3. **Requirements.** The following requirements shall be met:
 - a. Impervious surfaces shall be kept out of the protective area entirely or to the maximum extent practicable. If there is no practical alternative to locating an impervious surface in the protective area, the storm water management plan shall contain a written, site-specific explanation.
 - b. Where land disturbing construction activity occurs within a protective area, adequate sod or self-sustaining vegetative cover of 70 percent or greater shall be established and maintained where no impervious surface is present. The adequate sod or self-sustaining vegetative cover shall be sufficient to provide for bank stability, maintenance of fish habitat, and filtering of pollutants from upslope overland flow areas under sheet flow conditions. Non-vegetative materials, such as rock riprap, may be employed on the bank as necessary to prevent erosion such as on steep slopes or where high velocity flows occur.
 - c. BMPs such as filter strips, swales, or wet detention ponds, that are designed to control pollutants from non-point sources, may be located in the protective area.
4. **Exemptions.** This section does not apply to any of the following:
 - a. Except as provided under **(h)(3)**, redevelopment post-construction sites.
 - b. In-fill development areas less than 5 acres.
 - c. Structures that cross or access surface water such as boat landings, bridges, and culverts.
 - d. Structures constructed in accordance with s. 59.692 (1v), Stats.
 - e. Areas of post-construction sites from which the

runoff does not enter the surface water, including wetlands, without first being treated by a BMP to meet the local ordinance requirements for total suspended solids and peak flow reduction, except to the extent that vegetative ground cover is necessary to maintain bank stability.

e. **FUELING AND MAINTENANCE AREAS** - Fueling and vehicle maintenance areas shall have BMPs designed, installed, and maintained to reduce petroleum within runoff, so that the runoff that enters waters of the state contains no visible petroleum sheen, or to the maximum extent practicable.

f. **SWALE TREATMENT FOR TRANSPORTATION FACILITIES**

1. Requirement. Except as provided in subd. 2., transportation facilities that use swales for runoff conveyance and pollutant removal are exempt from the requirements of local ordinance requirements for peak flow control, total suspended solids control, and infiltration, if the swales are designed to do all of the following or to the maximum extent practicable:

a. Swales shall be vegetated. However, where appropriate, non-vegetative measures may be employed to prevent erosion or provide for runoff treatment, such as rock riprap stabilization or check dams.

b. Swales shall comply with sections V.F. (Velocity and Depth) and V.G. (Swale Geometry Criteria) with a swale treatment length as long as that specified in section V.C. (Pre-Treatment) of the Wisconsin Department of Natural Resources technical standard 1005 "Vegetated Infiltration Swales", dated May 2007, or a superseding document. Transportation facility swale treatment does not have to comply with other sections of technical standard 1005.

2. Other requirements

a. Notwithstanding subd. 1., the City of Lake Geneva may, consistent with water quality standards, require that other requirements, in addition to swale treatment, be met on a transportation facility with an average daily traffic rate greater than 2,500 and where the initial

surface water of the state that the runoff directly enters is one of the following:

1. An outstanding resource water.
2. An exceptional resource water.
3. Waters listed in section 303 (d) of the Federal Clean Water Act that are identified as impaired in whole or in part, due to non-point source impacts.
4. Water where targeted performance standards are developed pursuant to s. NR 151.004, Wis. Adm. Code.

- b. The transportation facility authority shall contact the City of Lake Geneva to determine if additional BMPs beyond a water quality swale are needed under this subsection.

(5) GENERAL CONSIDERATIONS FOR STORM WATER MANAGEMENT MEASURES.

The following considerations shall be observed in on-site and off-site runoff management:

- a. Natural topography and land cover features such as natural swales, natural depressions, native soil infiltrating capacity, and natural groundwater recharge areas shall be preserved and used, to the extent possible, to meet the requirements of this section.
- b. Emergency overland flow for all storm water facilities shall be provided to prevent exceeding the safe capacity of downstream drainage facilities and prevent endangerment of downstream property or public safety.

(6) BMP LOCATION

- a. To comply with the performance standards required under (h) of this ordinance, BMPs may be located on-site or off-site as part of a regional storm water device, practice or system, but shall be installed in accordance with s. NR 151.003, Wis. Adm. Code.
- b. The City of Lake Geneva may approve off-site management measures provided that all of the following conditions are met:
 1. The City of Lake Geneva determines that the post-construction runoff is covered by a storm water management system plan that is approved by the City of Lake Geneva and that contains management requirements consistent with the purpose and intent of this ordinance.

2. The off-site facility meets all of the following conditions:
 - a. The facility is in place.
 - b. The facility is designed and adequately sized to provide a level of storm water control equal to or greater than that which would be afforded by on-site practices meeting the performance standards of this ordinance.
 - c. The facility has a legally obligated entity responsible for its long-term operation and maintenance.
 - c. Where a regional treatment option exists such that the City of Lake Geneva exempts the applicant from all or part of the minimum on-site storm water management requirements, the applicant shall be required to pay a fee in an amount determined in negotiation with the City of Lake Geneva. In determining the fee for post-construction runoff, the City of Lake Geneva shall consider an equitable distribution of the cost for land, engineering design, construction, and maintenance of the regional treatment option.
- (7) **ADDITIONAL REQUIREMENTS.** The City of Lake Geneva may establish storm water management requirements more stringent than those set forth in this ordinance if the City of Lake Geneva determines that the requirements are needed to control storm water quantity or control flooding, comply with federally approved total maximum daily load requirements, or control pollutants associated with existing development or redevelopment.

(i) PERMITTING REQUIREMENTS, PROCEDURES AND FEES

- (1) **PERMIT REQUIRED.** No responsible party may undertake a land disturbing construction activity without receiving a post-construction runoff permit from the City of Lake Geneva prior to commencing the proposed activity.
- (2) **PERMIT APPLICATION AND FEES.** Unless specifically excluded by this ordinance, any responsible party desiring a permit shall submit to the City of Lake Geneva a permit application on a form provided by the City of Lake Geneva for that purpose.
 - a. Unless otherwise excluded by this ordinance, a permit application must be accompanied by a storm water management plan, a maintenance agreement and a non-refundable permit administration fee.
 - b. The storm water management plan shall be prepared to meet the requirements of **(h)** and **(j)**, the maintenance agreement shall be prepared to meet the requirements of **(k)**, the financial guarantee shall meet the requirements of **(l)**, and fees shall be those established by the Common Council as set forth in **(m)**.

- c. By submitting an application, the applicant is authorizing the City or designee to enter the site to obtain information required for the review of the control plan.
 - d. Submission of an application by one of several land users or land owners of particular site shall constitute an affirmation by said applicant of authority to act on behalf of the other land users or land owners to so apply and, upon issuance of a permit, to engage in land developing or disturbing activities on the site. The City shall be under no obligation to ascertain the legal authority of the applicant to so act.
- (3) PERMIT APPLICATION REVIEW AND APPROVAL. The City of Lake Geneva shall review any permit application that is submitted with a storm water management plan, maintenance agreement, and the required fee. The following approval procedure shall be used:
- a. Within 45 days of the receipt of a complete permit application, including all items as required by sub. (2), the City of Lake Geneva shall inform the applicant whether the application, storm water management plan and maintenance agreement are approved or disapproved based on the requirements of this ordinance.
 - b. If the storm water permit application, storm water management plan and maintenance agreement are approved, or if an agreed upon payment of fees in lieu of storm water management practices is made, the City of Lake Geneva shall issue the permit.
 - c. If the storm water permit application, storm water management plan or maintenance agreement is disapproved, the City of Lake Geneva shall detail in writing the reasons for disapproval.
 - d. The City of Lake Geneva may request additional information from the applicant. If additional information is submitted, the City of Lake Geneva shall have 30 days from the date the additional information is received to inform the applicant that the storm water management plan and maintenance agreement are either approved or disapproved.
- (4) PERMIT REQUIREMENTS. All permits issued under this ordinance shall be subject to the following conditions, and holders of permits issued under this ordinance shall be deemed to have accepted these conditions. The City of Lake Geneva may suspend or revoke a permit for violation of a permit condition, following written notification of the responsible party. An action by the City of Lake Geneva to suspend or revoke this permit may be appealed in accordance with (o).
- a. Compliance with this permit does not relieve the responsible party of the

- responsibility to comply with other applicable federal, state, and local laws and regulations.
- b. The responsible party shall design and install all structural and non-structural storm water management measures in accordance with the approved storm water management plan and this permit.
 - c. The responsible party shall notify the City of Lake Geneva at least 72 hours before commencing any land developing or land disturbing activity, and within 14 days upon completion of the storm water management practices. If required as a special condition under sub. (5), the responsible party shall make additional notification according to a schedule set forth by the City of Lake Geneva so that practice installations can be inspected during construction.
 - d. Practice installations required as part of this ordinance shall be certified "as built" or "record" drawings by a licensed professional engineer. Completed storm water management practices must pass a final inspection by the City of Lake Geneva or its designee to determine if they are in accordance with the approved storm water management plan and ordinance. The City of Lake Geneva or its designee shall notify the responsible party in writing of any changes required in such practices to bring them into compliance with the conditions of this permit.
 - e. The responsible party shall notify the City of Lake Geneva of any significant modifications it intends to make to an approved storm water management plan. The City of Lake Geneva may require that the proposed modifications be submitted to it for approval prior to incorporation into the storm water management plan and execution by the responsible party.
 - f. The responsible party shall maintain all storm water management practices in accordance with the storm water management plan until the practices either become the responsibility of the Common Council, or are transferred to subsequent private owners as specified in the approved maintenance agreement.
 - g. The responsible party authorizes the City of Lake Geneva to perform any work or operations necessary to bring storm water management measures into conformance with the approved storm water management plan, and consents to a special assessment or charge against the property as authorized under subch. VII of ch. 66, Wis. Stats., or to charging such costs against the financial guarantee posted under (I).
 - h. If so directed by the City of Lake Geneva, the responsible party shall repair

at the responsible party's own expense all damage to adjoining municipal facilities and drainage ways caused by runoff, where such damage is caused by activities that are not in compliance with the approved storm water management plan.

- i. The responsible party shall permit property access to the City of Lake Geneva or its designee for the purpose of inspecting the property for compliance with the approved storm water management plan and this permit.
 - j. Where site development or redevelopment involves changes in direction, increases in peak rate and/or total volume of runoff from a site, the City of Lake Geneva may require the responsible party to make appropriate legal arrangements with affected property owners concerning the prevention of endangerment to property or public safety.
 - k. The responsible party is subject to the enforcement actions and penalties detailed in (n), if the responsible party fails to comply with the terms of this permit.
 - l. Keep a copy of the approved storm water management plan on the site.
- (5) PERMIT CONDITIONS. Permits issued under this subsection may include conditions established by City of Lake Geneva in addition to the requirements needed to meet the performance standards in (h) or a financial guarantee as provided for in (I).
- (6) PERMIT DURATION. Permits issued under this section shall be valid from the date of issuance for a period of 180 days, or the length of the building permit or other construction authorizations, whichever is longer. The City of Lake Geneva may extend the period for up to an additional 180 days and may require additional control measures as a condition of the extension if they are necessary to meet the requirements. After final inspection, the City of Lake Geneva notifies the responsible party that all storm water management practices have passed the final inspection required under sub. (4)(d).

(j) STORM WATER MANAGEMENT PLAN

- (1) STORM WATER MANAGEMENT PLAN REQUIREMENTS. The storm water management plan required under (h)(2) shall contain at a minimum the following information:
- a. Name, address, and telephone number for the following or their designees: landowner; developer; project engineer for practice design and certification; person(s) responsible for installation of storm water management practices; and person(s) responsible for maintenance of storm water management practices prior to the

- transfer, if any, of maintenance responsibility to another party.
- b. A proper legal description of the property proposed to be developed, referenced to the U.S. Public Land Survey system or to block and lot numbers within a recorded land subdivision plat.
 - c. Pre-development site conditions, including:
 1. One or more site maps at a scale of not less than 1 inch equals 100 feet. The site maps shall show the following: site location and legal property description; predominant soil types and hydrologic soil groups; existing cover type and condition; topographic contours of the site at a contour interval not to exceed two feet; topography and drainage network including enough of the contiguous properties to show runoff patterns onto, through, and from the site; watercourses that may affect or be affected by runoff from the site; flow path and direction for all storm water conveyance sections; watershed boundaries used in hydrology determinations to show compliance with performance standards; lakes, streams, wetlands, channels, ditches, and other watercourses on and immediately adjacent to the site; limits of the 100 year floodplain; location of wells and wellhead protection areas covering the project area and delineated pursuant to s. NR 811.16, Wis. Adm. Code; locations and dimensions of utilities, structures, roads, highways and paving.
 2. Hydrology and pollutant loading computations as needed to show compliance with performance standards. All major assumptions used in developing input parameters shall be clearly stated. The geographic areas used in making the calculations shall be clearly cross-referenced to the required map(s).
 - d. Post-development site conditions, including:
 1. Explanation of the provisions to preserve and use natural topography and land cover features to minimize changes in peak flow runoff rates and volumes to surface waters and wetlands.
 2. Explanation of any restrictions on storm water management measures in the development area imposed

by wellhead protection plans and ordinances.

3. One or more site maps at a scale equal to the same scale used on the pre-development site conditions map showing the following: post-construction pervious areas including vegetative cover type and condition; impervious surfaces including all buildings, structures, and pavement; post-construction topographic contours of the site at a contour interval not to exceed two feet; post-construction drainage network including enough of the contiguous properties to show runoff patterns onto, through, and from the site; locations and dimensions of drainage easements; locations of maintenance easements specified in the maintenance agreement; flow path and direction for all storm water conveyance sections; location and type of all storm water management conveyance and treatment practices, including the on-site and off-site tributary drainage area; location and type of conveyance system that will carry runoff from the drainage and treatment practices to the nearest adequate outlet such as a curbed street, storm drain, or natural drainage way; watershed boundaries used in hydrology and pollutant loading calculations and any changes to lakes, streams, wetlands, channels, ditches, and other watercourses on and immediately adjacent to the site.
 4. Hydrology and pollutant loading computations as needed to show compliance with performance standards. The computations shall be made for each discharge point in the development, and the geographic areas used in making the calculations shall be clearly cross-referenced to the required map(s).
 5. Results of investigations of soils and groundwater required for the placement and design of storm water management measures. Detailed drawings including cross-sections and profiles of all permanent storm water conveyance and treatment practices.
- e. A description and installation schedule for the storm water management practices needed to meet the performance standards in **(h)**.
 - f. A maintenance plan developed for the life of each storm water management practice including the required maintenance activities and maintenance activity schedule.
 - g. Cost estimates for the construction, operation, and maintenance of each storm water management practice.

- h. Other information requested in writing by the City of Lake Geneva to determine compliance of the proposed storm water management measures with the provisions of this ordinance.
 - i. All site investigations, plans, designs, computations, and drawings shall be certified by a licensed professional engineer to be prepared in accordance with accepted engineering practice and requirements of this ordinance.
- (2) ALTERNATE REQUIREMENTS. The City of Lake Geneva may prescribe alternative submittal requirements for applicants seeking an exemption to on-site storm water management performance standards under **(h)(5)**.

(k) MAINTENANCE AGREEMENT

- (1) MAINTENANCE AGREEMENT REQUIRED. The maintenance agreement required under **(i)** for storm water management practices shall be an agreement between the City of Lake Geneva and the responsible party to provide for maintenance of storm water practices beyond the duration period of this permit. The maintenance agreement shall be filed with the County Register of Deeds as a property deed restriction so that it is binding upon all subsequent owners of the land served by the storm water management practices.
- (2) AGREEMENT PROVISIONS. The maintenance agreement shall contain the following information and provisions and be consistent with the maintenance plan required by **(j)(1)f.:**
- a. Identification of the storm water facilities and designation of the drainage area served by the facilities.
 - b. A schedule for regular maintenance of each aspect of the storm water management system consistent with the storm water management plan required under **(i)(2)**.
 - c. Identification of the responsible party(s), organization or city, county, town or village responsible for long term maintenance of the storm water management practices identified in the storm water management plan required under **(i)(2)**.
 - d. Requirement that the responsible party(s), organization, or city, county, town or village shall maintain storm water management practices in accordance with the schedule included in par. (b).
 - e. Authorization for the City of Lake Geneva to access the property to conduct inspections of storm water management practices as necessary to ascertain that the practices are being maintained and operated in accordance with the agreement.

- f. A requirement on the City of Lake Geneva to maintain public records of the results of the site inspections, to inform the responsible party responsible for maintenance of the inspection results, and to specifically indicate any corrective actions required to bring the storm water management practice into proper working condition.
- g. Agreement that the party designated under par. (c), as responsible for long term maintenance of the storm water management practices, shall be notified by the City of Lake Geneva of maintenance problems which require correction. The specified corrective actions shall be undertaken within a reasonable time frame as set by the City of Lake Geneva.
- h. Authorization of the City of Lake Geneva to perform the corrected actions identified in the inspection report if the responsible party designated under par. (c) does not make the required corrections in the specified time period. The City of Lake Geneva shall enter the amount due on the tax rolls and collect the money as a special charge against the property pursuant to subch. VII of ch. 66, Wis. Stats.

(I) FINANCIAL GUARANTEE

- (1) ESTABLISHMENT OF THE GUARANTEE. The City of Lake Geneva may require the submittal of a financial guarantee, the form and type of which shall be acceptable to the City of Lake Geneva. The financial guarantee shall be in an amount determined by the City of Lake Geneva to be the estimated cost of construction and the estimated cost of maintenance of the storm water management practices during the period which the designated party in the maintenance agreement has maintenance responsibility. The financial guarantee shall include all phases of the plan from the clearing and stockpiling operations to final grading and landscaping including a maintenance guarantee for a period of not less than two years from the recording of the document or commencement of construction, whichever occurs first. An agreement will be a part of the financial guarantee, which shall give the City of Lake Geneva the authorization to use the funds to complete the storm water management practices if the responsible party defaults or does not properly implement the approved storm water management plan, upon written notice to the responsible party by the City of Lake Geneva that the requirements of this ordinance have not been met. This agreement shall be received by the City prior to issuance of any permits and shall be effective for a sufficient time period to perform the activities required, make the appropriate inspections, and approve the final installation. The City may extend the agreement beyond its original expiration date if necessary due to unexpected or unforeseen circumstances beyond the control of the responsible party. A performance bond shall be replaced with a maintenance guarantee for a stated period

of time and in an amount equal to a percentage of the cost of the construction of the improvements and a cost overrun of 15%.

- (2) **CONDITIONS FOR RELEASE.** Conditions for the release of the financial guarantee are as follows:
- a. The City of Lake Geneva shall release the portion of the financial guarantee established under this section, less any costs incurred by the City of Lake Geneva to complete installation of practices, upon submission of "as built plans" or "record" drawings by a licensed professional engineer. The City of Lake Geneva may make provisions for a partial pro-rata release of the financial guarantee based on the completion of various development stages.
 - b. The City of Lake Geneva shall release the portion of the financial guarantee established under this section to assure maintenance of storm water practices, less any costs incurred by the City of Lake Geneva, at such time that the responsibility for practice maintenance is passed on to another entity via an approved maintenance agreement.

(m) FEE SCHEDULE

- (1) The fees referred to in other sections of this ordinance shall be established by the City of Lake Geneva and may from time to time be modified by resolution. A schedule of the fees established by the City of Lake Geneva shall be available for review in City Hall. The processing fees shall be related to costs involved in processing permit applications, conditional use petitions, appeals to the board of appeals and zoning amendments and changes.
- (2) The City of Lake Geneva shall charge a double fee if work is started before a permit is applied for and issued. Such double fee shall not release the applicant from full compliance with this section nor from prosecution for violation of this section.

(n) ENFORCEMENT

- (1) Any land disturbing construction activity or post-construction runoff initiated after the effective date of this ordinance by any person, firm, association, or corporation subject to the ordinance provisions shall be deemed a violation unless conducted in accordance with the requirements of this ordinance.
- (2) The City of Lake Geneva shall notify the responsible party by certified mail of any non-complying land disturbing construction activity or post-construction runoff. The notice shall describe the nature of the violation, remedial actions needed, a schedule for remedial action, and additional enforcement action which may be taken.
- (3) Upon receipt of written notification from the City of Lake Geneva under sub. (2), the responsible party shall correct work that does not comply with the storm water

management plan or other provisions of this permit. The responsible party shall make corrections as necessary to meet the specifications and schedule set forth by the City of Lake Geneva in the notice.

- (4) If the violations to a permit issued pursuant to this ordinance are likely to result in damage to properties, public facilities, or waters of the state, the City of Lake Geneva may enter the land and take emergency actions necessary to prevent such damage. The costs incurred by the City of Lake Geneva plus interest and legal costs shall be billed to the responsible party.
- (5) The City of Lake Geneva is authorized to post a stop work order on all land disturbing construction activity that is in violation of this ordinance, or to request the City Attorney to obtain a cease and desist order in any court with jurisdiction.
- (6) The City of Lake Geneva may revoke a permit issued under this ordinance for non-compliance with ordinance provisions.
- (7) Any permit revocation, stop work order, or cease and desist order shall remain in effect unless retracted by the City of Lake Geneva or by a court with jurisdiction.
- (8) The City of Lake Geneva is authorized to refer any violation of this ordinance, or a stop work order or cease and desist order issued pursuant to this ordinance, to the City Attorney for the commencement of further legal proceedings in any court with jurisdiction.
- (9) Any person, firm, association, or corporation who does not comply with the provisions of this ordinance shall be subject to a forfeiture in accordance with the City for each violation. Each day that the violation exists shall constitute a separate offense.
- (10) Compliance with the provisions of this ordinance may also be enforced by injunction in any court with jurisdiction. It shall not be necessary to prosecute for forfeiture or a cease and desist order before resorting to injunction proceedings.
- (11) When the City of Lake Geneva determines that the holder of a permit issued pursuant to this ordinance has failed to follow practices set forth in the storm water management plan, or has failed to comply with schedules set forth in said storm water management plan, the City of Lake Geneva or a party designated by the City of Lake Geneva may enter upon the land and perform the work or other operations necessary to bring the condition of said lands into conformance with requirements of the approved storm water management plan. The City of Lake Geneva shall keep a detailed accounting of the costs and expenses of performing this work. These costs and expenses shall be deducted from any financial security posted pursuant to (I) of this ordinance. Where such a security has not been established, or where such a security is insufficient to cover these costs, the costs and expenses shall be entered on the tax roll as a special charge against the property and collected with any other

taxes levied thereon for the year in which the work is completed.

(o) APPEALS

- (1) BOARD OF APPEALS.** The board of appeals, created pursuant to section 98-934 of the City of Lake Geneva ordinances pursuant to s. 62.23 (7)(e), Wis. Stats., shall hear and decide appeals where it is alleged that there is error in any order, decision or determination made by the City of Lake Geneva in administering this ordinance. The board shall also use the rules, procedures, duties, and powers authorized by statute in hearing and deciding appeals. Upon appeal, the board may authorize variances from the provisions of this ordinance that are not contrary to the public interest, and where owing to special conditions a literal enforcement of the ordinance will result in unnecessary hardship.
 - (2) WHO MAY APPEAL.** Appeals to the board of appeals may be taken by any aggrieved person or by an officer, department, board, or bureau of the City of Lake Geneva affected by any decision of the City of Lake Geneva.
- (p) SEVERABILITY** - If any section, clause, provision or portion of this ordinance is judged unconstitutional or invalid by a court of competent jurisdiction, the remainder of the ordinance shall remain in force and not be affected by such judgement.
- (q) EFFECTIVE DATE** - This ordinance shall be in force and effect from and after its adoption and publication. The above and foregoing ordinance was duly adopted by the Common Council of the City of Lake Geneva on the below listed day month and year.

Approved:

Attested:

Published DD/MM/YR

CITY OF LAKE GENEVA

626 Geneva Street
Lake Geneva, WI 53147
(262) 248-3673
www.cityoflakegeneva.com



#10

Memorandum

Date: January 10, 2017
To: Public Works Committee
From: Blaine Oborn, City Administrator
Subject: Discussion/Recommendation on July 12, 2017 unreimbursed storm expenses

The City experienced severely heavy rainfall on the morning of July 12, 2017 causing much flooding and damage to City infrastructure including roads, bike paths, culverts, and storm sewers. The City applied for relief through FEMA and was rejected as the incident did not qualify for a FEMA declaration. The Public Works Director, Tom Earle then applied to the City's property insurance provider and only the White River bridge was covered by insurance. Earle finally applied to the Wisconsin Disaster Fund for reimbursement and the City claim was rejected.

The City Council received ongoing reports on storm damage costs and repairs. The repairs were charged to the City Budget item Expenses Subject to Insurance Claim (10-10-00-5245) given the expectation the City would be reimbursed. This is the line item the City uses for insurance claims with the reimbursements being charged to revenue to offset the expenses. Attached is the list of storm damage repair costs totaling \$87,075.26 that the City will not be reimbursed for.

The Council has four options:

- 1) Continue to seek State reimbursement.
- 2) Charge the expenses to the Street Improvement Project and use Capital borrowing.
- 3) Do a Budget Amendment to use the City Fund Balance (informally called a rainy day fund).
- 4) Make no changes knowing the City may close the 2017 General Fund Budget in the negative.

I recommend option 4 with the hope that other expense savings and increased revenue will offset the cost. If the 2017 General Fund Budget ends in the negative, the cause can be easily explained due to this extraordinary event and the City has an adequate fund balance for this purpose.

City of Lake Geneva
 July 12, 2017 Storm Damage Repairs
 12/14/2017 Report on Unreimbursed Costs

<u>Date</u>	<u>Transaction Description</u>	<u>Vendor</u>	<u>Amount</u>
9/26/2017	CAMPBELL/WRIGLEY PATCH	DOWN TO EARTH CONTRA	3,352.02
9/26/2017	REMOVE/REPLACE ASPHALT	DOWN TO EARTH CONTRA	1,428.02
9/26/2017	REPAIR SEWER/MANHOLES	DOWN TO EARTH CONTRA	4,416.94
9/26/2017	REPLACE CULVERT	DOWN TO EARTH CONTRA	4,529.62
9/26/2017	FLOOD DAMAGE-RETAINING WALL	HUMPHREY'S CONTRACTI	12,975.02
9/26/2017	BAKER/WRIGLEY FLOOD	HUMPHREY'S CONTRACTI	6,760.23
9/26/2017	STORM SEWER-MILLER/LOOKOUT	OTTO JACOBS	263.02
9/26/2017	STORM SEWER-SAGE ST	OTTO JACOBS	263.02
9/26/2017	STORM SEWER-CAMPBELL	OTTO JACOBS	434.02
9/26/2017	GRAVEL-CAMPBELL/WRIGLEY	OTTO JACOBS	420.02
9/26/2017	GRAVEL-BAKER	OTTO JACOBS	700.02
9/26/2017	STORM SEWER REPAIR	DOWN TO EARTH CONTRA	2,734.02
10/24/2017	FLOOD DAMAGE-HAVENWOOD	DOWN TO EARTH CONTRA	2,269.02
10/24/2017	WEM SUBMITTAL	KAPUR & ASSOCIATES	642.00
11/14/2017	STORM DAMAGE SINKHOLE-VETS PRK	DOWN TO EARTH CONTRA	1,307.52
11/14/2017	WRIGLEY CURB/WALKS-JULY STORM	HUMPHREY'S CONTRACTI	1,749.53
11/17/2017	GRAVEL-WRIGLEY@ALLEY	OTTO JACOBS	490.02
11/17/2017	ASPHALT PATCH-JULY STORM	STARK PAVEMENT CORPO	42,341.20
Total			<u>87,075.26</u>