

## Appendix A – Stakeholder Concerns for Lake Monroe Watershed

Bloomington Community Forum 11/14/2019

Nashville Community Forum 1/14/2020

Category	Concern	Date	Group
Agriculture	Inappropriate agricultural practices	1/14/2020	3
Agriculture	Agricultural best management practices	1/14/2020	8
Agriculture	Farmers collaborating across county lines	1/14/2020	8
Agriculture	Strong leadership from USDA, NRCS, other statewide or national agricultural groups	1/14/2020	8
Agriculture	Watershed impacts - agriculture	11/14/2019	3
Agriculture	Cover crop funding	11/14/2019	6
Algae	Blue-green algae	1/14/2020	9
Algae	Blue green algae	11/14/2019	9
Algae	Algae (nutrients, ag, septic, lawns-residential)	11/14/2019	10
Algae	Algae (nutrients, ag, septic, lawns-residential)	11/14/2019	3
Algae	Algae blooms	11/14/2019	2
Algae	Blue-green algae and swimming	11/14/2019	6
Algae	Algal blooms	11/14/2019	6
Algae	Algae blooms making unswimmable or unusable for recreation or drinking	11/14/2019	7
Algae	Algae blooms and the effect of domestic animals.	11/14/2019	9
Chemical Pollution	Household chemicals	1/14/2020	1
Chemical Pollution	Boating (gas/oil)	1/14/2020	1
Chemical Pollution	Road treatment chemicals	1/14/2020	1
Chemical Pollution	Pollution	1/14/2020	2
Chemical Pollution	Pollutants from ground (fertilizers, pesticides)	1/14/2020	3
Chemical Pollution	Use of herbicides/pesticides in residential/commercial	1/14/2020	10
Chemical Pollution	Pollution	1/14/2020	6
Chemical Pollution	Impact of herbicide/Roundup used for invasives management	1/14/2020	8
Chemical Pollution	Health of lake - who is dumping what where (chemicals, pesticides, herbicides) - need a list of all and runoff	1/14/2020	7
Climate Change	Climate change - flooding	1/14/2020	3
Climate Change	Climate change - bigger flood events	1/14/2020	8
Climate change	Impact of extreme climate change	11/14/2019	9
Climate change	Climate change drought/rain patterns	11/14/2019	3
Climate change	Climate change - extreme droughts/flood	11/14/2019	7
Collaboration	How are the major stakeholders/players working together?	1/14/2020	2

Category	Concern	Date	Group
Collaboration	Value of public input - how do we increase?	1/14/2020	2
Collaboration	Competing interests of land use	1/14/2020	6
Collaboration	Compliance of private landowners	1/14/2020	5
Collaboration	Participation of young people	1/14/2020	8
Collaboration	All counties must participate for effective change	1/14/2020	8
Collaboration	Face the facts our lifestyles will have to change in response to the problem; band together for common good	1/14/2020	7
Collaboration	Need for collaboration	1/14/2020	7
Collaboration	Encourage homeowners associations to collaborate and monitor watershed	1/14/2020	e-mail
Conservation	Wasting water with baths, dishwasher. Handwash vs dishwasher. Allowing water to run	11/14/2019	9
Conservation	Education on water conservation	11/14/2019	9
Development	Development/urban sprawl	1/14/2020	10
Development	Development	11/14/2019	9
Development	Development/subdivisions	11/14/2019	3
Development	Human impacts development	11/14/2019	6
Development	Preserving, maintaining, improving health of water. Development on and around the lake	11/14/2019	9
Drinking Water	Drinking Water Quality	1/14/2020	1
Drinking Water	Drinking water treatment costs as a homeowner	1/14/2020	6
Drinking Water	Drinking water	1/14/2020	9
Drinking Water	Drinking water quality	1/14/2020	8
Drinking Water	Water quality	1/14/2020	4
Drinking Water	Drinking water	1/14/2020	4
Drinking Water	Keeping it drinkable	11/14/2019	9
Drinking Water	Water quality - price for treatment	11/14/2019	10
Drinking Water	Drinking water quality	11/14/2019	3
Drinking Water	Drinking water quantity	11/14/2019	3
Drinking Water	Drinking water quality (nitrates, phosphates, dangerous bacteria, e coli, toxic blue green algae)	11/14/2019	2
Drinking Water	Disinfectant byproducts (haloalkanes, chloramines)	11/14/2019	2
Drinking Water	Water quality	11/14/2019	1
Drinking Water	Water purification process - problems associated with old pipes	11/14/2019	1
Drinking Water	Development effects on water quality	11/14/2019	1
Drinking Water	Drinking water quality	11/14/2019	5
Drinking Water	Water supply - quality, quantity, impacting factors	11/14/2019	6
Drinking Water	Quality of drinking water	11/14/2019	6
Drinking Water	Highest water quality without overstepping property rights within reason	11/14/2019	7

Category	Concern	Date	Group
Drinking Water	Disinfection by-products (chemical composition, regulating pollutants)	11/14/2019	4
Drinking Water	Drinking water - do not like the taste of water. We have filtration system in health of water	11/14/2019	9
Education	Education in schools at all levels K-12 and beyond	1/14/2020	2
Education	Poor understanding of how lakes/watershed function	1/14/2020	10
Education	Educating recreational users	1/14/2020	6
Education	Lack of public understanding of problems	1/14/2020	9
Education	Lack of education of general population	1/14/2020	8
Education	Education in schools at all levels K-12 and beyond	1/14/2020	8
Education	Brown County residents not aware they are part of the watershed	1/14/2020	7
Education	Educate everyone - what is a watershed, let them know they are in a watershed	1/14/2020	7
Education	Lack of awareness - raise consciousness	1/14/2020	7
Education	Understanding aspects of reservoir vs lake	11/14/2019	2
Education	Know what endpoint is - how clean can we expect	11/14/2019	1
Education	Huge educational issue especially with watershed residents	11/14/2019	1
Education	Photo of boat from concerned business to illustrate trash pollution	11/14/2019	1
Education	Public needs more knowledge about Lake Monroe	11/14/2019	5
Education	Community education	11/14/2019	6
Education	Protections and regulations in the watershed	11/14/2019	6
Education	USACE - role, interaction, influence	11/14/2019	4
Education	Terminology - translate for the public what is being measured	11/14/2019	4
Education	Authority, sampling campaign, procedure and feedback	11/14/2019	4
Erosion	Erosion	1/14/2020	1
Erosion	In-Stream Erosion	1/14/2020	3
Erosion	Impervious surfaces/bare soil makes greater soil erosion and water runoff	1/14/2020	10
Erosion	Erosion	1/14/2020	6
Erosion	Erosion problems	1/14/2020	9
Erosion	Erosion of bank - turbidity	1/14/2020	5
Erosion	Erosion	1/14/2020	8
Erosion	Erosion - lake getting more shallow due to sedimentation	1/14/2020	7
Erosion	Erosion (shoreline)	11/14/2019	9
Erosion	Shoreline erosion	11/14/2019	2
Erosion	Flooding in spring (climate related) and runoff erosion	11/14/2019	5

Category	Concern	Date	Group
Erosion	Monitoring erosion	11/14/2019	6
Erosion	How much the shore erodes in the state recreation area	11/14/2019	9
Erosion	Secure shoreline - riprap to tolerate fluctuations of water levels	11/14/2019	4
Fish	Fisheries	1/14/2020	8
Fish	Fishery health (invasive species, fish kill)	11/14/2019	10
Fish	Fish quality	11/14/2019	2
Fish	Healthy fish/animal population (less mercury)	11/14/2019	5
Flooding	Flooding from increased rain events	1/14/2020	6
Flooding	Constant excessive flooding	1/14/2020	9
Flooding	Flooding - trash, debris, erosion	1/14/2020	5
Forestry	Logging	1/14/2020	2
Forestry	Unregulated forest management	1/14/2020	3
Forestry	Forest management overconcern - not warranted if BMPs in place; overlooks other issues	1/14/2020	5
Forestry	Deforestation and its effects on everything	1/14/2020	8
Forestry	Forestry is being discouraged although forests protect watersheds	1/14/2020	8
Forestry	Forest health	1/14/2020	8
Forestry	Logging	1/14/2020	4
Forestry	Logging/forest management (herbicides - amphibians, heavy equipment, road damage)	11/14/2019	10
Forestry	Keep forests as forests	11/14/2019	3
Forestry	Expand forests	11/14/2019	3
Forestry	Logging causes erosion	11/14/2019	7
Forestry	Effects of logging	11/14/2019	4
Funding	Funding for maintenance/inspection in Brown County	1/14/2020	2
Invasive Species	Asian Carp	1/14/2020	1
Invasive Species	Invasive Species	1/14/2020	1
Invasive Species	Invasive Species	1/14/2020	2
Invasive Species	Invasive species - plant & animal	1/14/2020	3
Invasive Species	Invasive species	1/14/2020	10
Invasive Species	Invasive species (Asian carp)	1/14/2020	6
Invasive Species	Invasive species - both land and water	1/14/2020	9
Invasive Species	Losing native plants	1/14/2020	9
Invasive Species	Invasive species	1/14/2020	5
Invasive Species	Invasives	1/14/2020	8
Invasive Species	Asian Carp	1/14/2020	8
Invasive Species	Invasive species/use of chemicals to eradicate invasives	1/14/2020	7
Invasive Species	Invasive species (aquatic and terrestrial)	11/14/2019	9

Category	Concern	Date	Group
Invasive Species	Invasive species	11/14/2019	3
Invasive Species	Terrestrial invasive plants & effects on forest health and sediment erosion	11/14/2019	1
Invasive Species	Less invasive plants and animals	11/14/2019	5
Invasive Species	Monitor for the worst invasives: zebra mussels, asian carp	11/14/2019	5
Invasive Species	Exotics - drainage system? Species and terrestrials	11/14/2019	6
Invasive Species	Invasive species control	11/14/2019	6
Invasive Species	Invasive species (animals and plants)	11/14/2019	7
Land Use	Land clearing (logging and construction)	1/14/2020	1
Land Use	Land development (protection from)	1/14/2020	2
Land Use	Controlling the influence of urban, ag, forestry practices impacting runoff	1/14/2020	8
Land Use	Concreting of the county (increasing runoff)	1/14/2020	8
Land Use	Apartment buildings and growth of Bloomington - restrictions in place?	1/14/2020	7
Land Use	Acquire and protect all riparian zones within watershed	1/14/2020	e-mail
Nutrients	Nutrient loading (urban lawns, agriculture, septic)	1/14/2020	1
Nutrients	Lawn maintenance (and its downstream effects)	1/14/2020	1
Nutrients	Nutrient loading (urban lawns, agriculture, septic)	1/14/2020	6
Nutrients	Nutrient loading	1/14/2020	8
Nutrients	Nitrogen levels (fertilizer, blue-green algae)	11/14/2019	9
Nutrients	Lawn fertilizer - runoff	11/14/2019	3
Nutrients	Can we stop various types of pollution in lake	11/14/2019	1
Nutrients	Nutrient runoff - ag and lawn fertilizers, algae blooms	11/14/2019	5
Nutrients	Water quality, sedimentation, and nutrients	11/14/2019	9
Nutrients	Fertilizers (nitrogen and phosphorus in particular) coming into water (nitrification) cafo	11/14/2019	7
Other	Bioterrorist attack	1/14/2020	2
Other	Equality of return from the lake	1/14/2020	2
Other	Poorly designed culverts that impeded fish movement and cause erosion	1/14/2020	8
Other	Adequate/healthy riparian buffers	11/14/2019	3
Other	Maintaining multiple uses of the lake	11/14/2019	6
Other	Mercury levels	11/14/2019	6
Other	Implementing solutinos	11/14/2019	4
Other	Everything that was on the powerpoint	11/14/2019	9
Recreation	Swimming restrictions	1/14/2020	9
Recreation	Maintaining recreational value	1/14/2020	9
Recreation	Overuse - recreation (boats)	1/14/2020	8
Recreation	Motorized watercrafts and pollution	1/14/2020	7

Category	Concern	Date	Group
Recreation	Overrecreation	11/14/2019	9
Recreation	Pollution from recreation/boating - oil, fuel	11/14/2019	10
Recreation	Two cycle engine limits	11/14/2019	3
Recreation	FLM keep recreational concerns a primary concern	11/14/2019	1
Recreation	Recreational pollution - how to limit effects, dispell myths	11/14/2019	1
Recreation	Don't limit motorized boats	11/14/2019	1
Recreation	Need to keep recreation and have good quality drinking water	11/14/2019	5
Recreation	Recreation - boating impacts; responsible use	11/14/2019	6
Recreation	The amount of power boats, oil/gas pollution from those and invasive species transported to the lake from those boats. Lack of regulation/enforcement	11/14/2019	9
Recreation	Overcrowding of boats	11/14/2019	7
Recreation	Boat traffic - large engines contribute to erosion, turbidity	11/14/2019	4
Regulation	Deregulation of Environmental protection and implementing additional protection	1/14/2020	2
Regulation	No one is managing the lake (who is responsible for this)	1/14/2020	10
Regulation	Preserve water quality for the future/ avoid worst case scenario (Ohio lake example)	1/14/2020	6
Regulation	Lack of watershed protection	1/14/2020	9
Regulation	No comprehensive erosion control plan or ordinances	1/14/2020	9
Regulation	No drainage ordinance	1/14/2020	9
Regulation	No "Top Dog" ie.e conflicting authority	1/14/2020	9
Regulation	Water quality in lake; lax standards in Indiana	1/14/2020	5
Regulation	State laws and enforcement	1/14/2020	8
Regulation	Enforcement	1/14/2020	8
Regulation	Government coordination	1/14/2020	8
Regulation	Lack of oversight/enforcement of polluters	1/14/2020	4
Regulation	Landowner management practices & regulation thereof	1/14/2020	7
Regulation	Have state of IN declare a state of emergency for the watershed	1/14/2020	7
Research	Inventory of source/causes of problems	1/14/2020	10
Research	Feeder streams and water quality of them	1/14/2020	7
Research	Regular water quality monitoring	1/14/2020	e-mail
Research	Not enough data - aquatic filter feeder, mussels, good grasses	11/14/2019	9
Research	Have clear idea of aquatic invasives - monitoring benthic layer organisms	11/14/2019	1

Category	Concern	Date	Group
Research	Study more - water trends? Evaluate water quality	11/14/2019	4
Sediment	Sedimentation	1/14/2020	2
Sediment	Sedimentation	1/14/2020	6
Sediment	Sediment in lake	1/14/2020	9
Sediment	Sediment runoff from roads and hillsides in heavy rain events	1/14/2020	5
Sediment	Silting in of lake	1/14/2020	8
Sediment	Turbidity/water clarity	1/14/2020	4
Sediment	Sedimentation	1/14/2020	4
Sediment	Sedimentation	11/14/2019	9
Sediment	Sedimentation (need more data, fish finders may have data)	11/14/2019	10
Sediment	Sedimentation rates	11/14/2019	3
Sediment	Sedimentation and erosion; compressed leaf matter, creek inlets	11/14/2019	2
Sediment	Dredging	11/14/2019	2
Sediment	Silting in of lake - can we stop it	11/14/2019	1
Sediment	Siltation - could be from runoff and erosion - fill in lake	11/14/2019	5
Sediment	Sedimentation/erosion - entire watershed	11/14/2019	6
Sediment	Silt - possible dredging	11/14/2019	7
Sediment	The degree with which the dam has silted	11/14/2019	9
Sustainability	Sustainability	1/14/2020	2
Sustainability	Longevity/sustainability of lake	1/14/2020	4
Trash	Trash discarded by people (plastics, styrofoams)	1/14/2020	3
Trash	Garbage from recreational use	1/14/2020	3
Trash	Historic dumping (ie old cars)	1/14/2020	3
Trash	Solid waste impact on watershed	1/14/2020	10
Trash	Boating trash	1/14/2020	5
Trash	Trash coming down creeks	1/14/2020	5
Trash	Squalor and blight and trash	1/14/2020	4
Trash	Plastics	11/14/2019	9
Trash	Plastics - trash and microplastics	11/14/2019	3
Trash	Microplastic measurements	11/14/2019	3
Trash	Plastics/microplastics	11/14/2019	2
Trash	Illegal dumping	11/14/2019	2
Trash	Trash near SRA's significant	11/14/2019	5
Trash	All the plastic pollution	11/14/2019	9
Waste water	Septic system failure	1/14/2020	2
Waste water	Pathogens from humans and animals	1/14/2020	2
Waste water	Septic pollution	1/14/2020	3
Waste water	What are e-coli sources	1/14/2020	10
Waste water	Septic effluent	1/14/2020	10

Category	Concern	Date	Group
Waste water	Federal or state grants for septic improvement	1/14/2020	10
Waste water	Septic failures	1/14/2020	9
Waste water	Waterways not to standards; clean up e coli	1/14/2020	5
Waste water	Failing septics	1/14/2020	5
Waste water	Failed septic systems	1/14/2020	4
Waste water	Septic systems	11/14/2019	9
Waste water	Septic systems	11/14/2019	3
Waste water	Huge number of boats in the marinas. Need to ensure that toilets are sealed	11/14/2019	9
Waste water	Wastewater - toilet flush of prescription pharmaceuticals	11/14/2019	4
Water availability	Exporting	1/14/2020	2
Water availability	Increasing demand for water (allocation)	11/14/2019	9
Water availability	Carrying capacity (population)	11/14/2019	3
Water availability	That lake water would be so undrinkable so it is no longer available as our water supply	11/14/2019	7
Water availability	Invasive cities (Indianapolis)	11/14/2019	7
Water availability	If large populations can not be supported except through water impoundments, we must take care of it	11/14/2019	7
Water availability	Actual ownership of water; ensure water stays here	11/14/2019	4
Water availability	Control - what are controls, who controls	11/14/2019	4
Wildlife	Wildlife management	1/14/2020	9
Wildlife	Wildlife habitat	11/14/2019	3
Wildlife	Wildlife preservation	11/14/2019	6