



Our mission is to protect and improve Michigan's treasured and vulnerable waterways for the benefit of fish and wildlife, recreation and sport. Through our work we will inspire current and future generations to protect and care for our prized waterways.

MWS ENVIRONMENTAL SURVEY

September 13, 2023



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ABOUT MICHIGAN WATERWAYS STEWARDS FOUNDER MIKE STOUT

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Fortune 100 executive expert in brand and business development, and innovation.

President of i3 Marketing, LLC, a strategic marketing and business development firm.

Long-distance solo kayaker and world record holder.

Founder and president of Michigan Waterways Stewards.

Father and grandfather.





PROJECT BACKGROUND



ELECTRIC SCOOTERS POSE A UNIQUE THREAT

Everyone wants clean and safe waterways.

by Mike Stout, President and Founder of Michigan Waterway Stewards. August 22, 2023.

There are three key components to Michigan Waterways Stewards program: Stewardship, Education, and Advocacy. The project that we are about to discuss, and the reason for the following survey, excites us because it encompasses all three.

Local complaints about electric scooters being tossed into our rivers has been ongoing since they were offered as an alternative transportation solution. While our journey of discovery began in December 2022, it wasn't until recently, when a father and son team of magnet fishers from Grand Rapids discovered the enormity of the problem,

The problem was far greater than we imagined. For reasons of personal safety and environmental risks we feel immediate action is required.

We value your thought and opinion and ask that you share via a short 12-point survey. To go directly to the survey click on the button below. To learn more about our journey of discovery, unsuccessful attempts to connect and work with Spin, and research about the potential environmental risks electric scooters, please read the following page.

We thank you for your interest.



Pictured l-r: Venture and Xan DuLow



MICHIGAN WATERWAYS STEWARDS - ELECTRIC SCOOTER PROJECT BACKGROUND



l-r: Connie Cannon, Tony Kuhlman, George Stockman



MSU senior, physics major, Dan Koch.



l-r: Mike Stout, George Stockman, Tony Kuhlman, Connie Cannon.

In December 2022 a group of four paddlers made their way down the Red Cedar River and easily retrieved 16 electric scooters. The next day, seven more scooters were retrieved below the Hagadorn Road bridge. Of the 23 scooters nearly all were Spin. So alarmed by our findings we reached out to Spin, asking for a meeting to explore how we could work together towards the common goal of keeping the river clear and safe.

Spin is the leading provider of micromobility in the greater Lansing/East Lansing area. They report being the global leader.

We met with Spin, January 12, at East Lansing's Blue Owl Cafe. Little came of the meeting other than the expression of mutual interest for environmental stewardship. Spin committed to quickly picking up any of their scooters retrieved from the river once notified.

To encourage a collaborative partnership we offered to help promote their company's commitment to environmental stewardship, assist with their community outreach, invited them to join us in future scooter retrieval efforts, and more. At the time we thought there may 30 more scooters remaining in the river.

They responded, "At the present time Spin is unable to join in any of the other activities that you discussed." They made no attempt to reset expectations about the number of Spin scooters we thought had been lost to our area rivers. We still had in mind a count of 30.

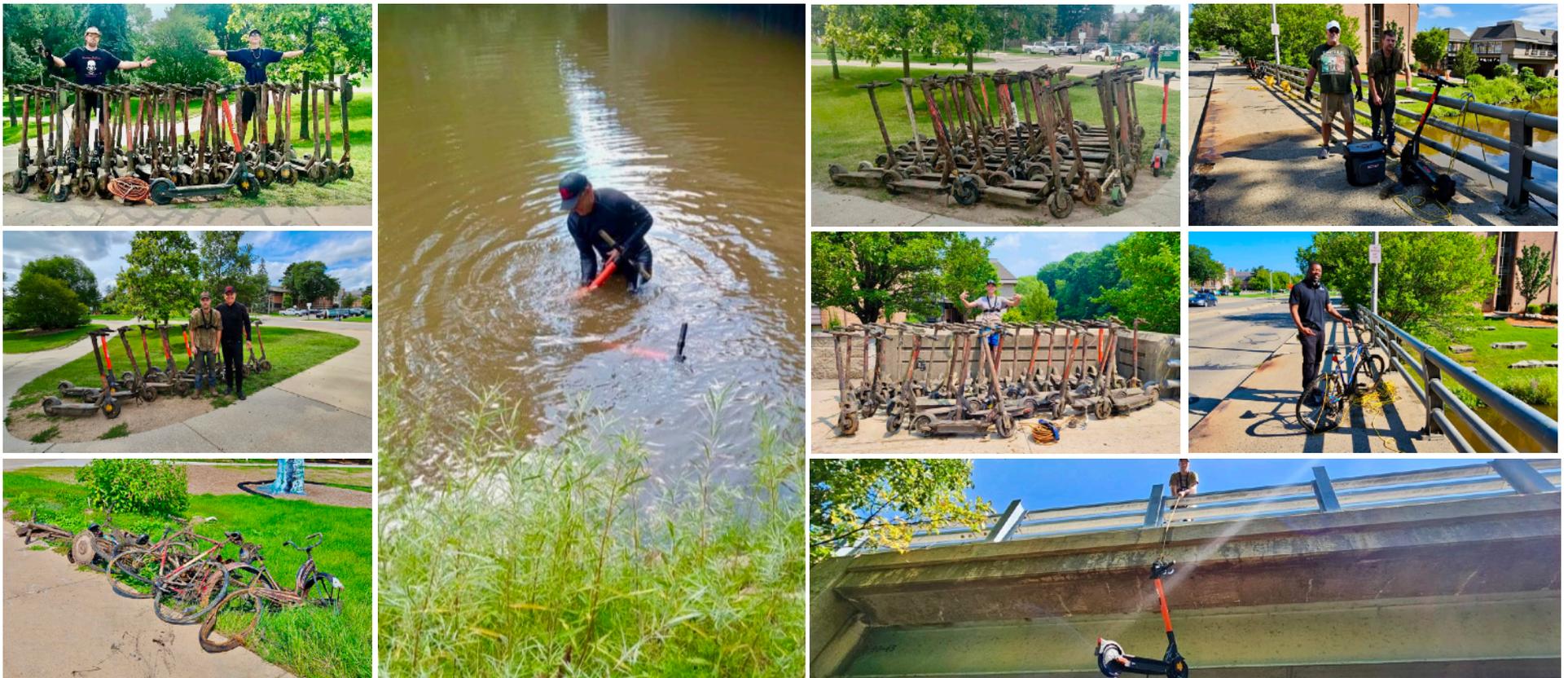
To help us better understand, and to explain to others, how their enclosed battery packs pose little risk to our waterway as they claimed, we asked them to prepare a letter. They did not respond



In a later email Spin voluntarily shared, "We are working diligently with the University PD to set up alerts when scooters go offline in areas with bodies of water. Our goal is to put an end to this issue going forward." This gave us reassurance that they were taking this matter seriously, that they were fully engaged and committed to creating a solve. We were encouraged.

At this time we do not have any insights with regards to the success of Spin and MSU's Police Department collaborative efforts.

AN INCONVENIENT TRUTH UNVEILED





You can imagine our surprise, and even greater disappointment, when the enormity of the problem of electric scooters lost to our rivers was revealed. In mid-July 2023, a Grand Rapids father and son magnet fishers team, Venture and Xan DuLow, made their way to the Bogue Street bridge when their original plans fell through. They had no expectations other than to explore a new site and enjoy the day.

We were all shocked when they retrieved 30 scooters and 26 bikes, at a rate of about one per every ten minutes. They described the day as a record haul. Because so much remained they returned the next weekend. With the help of Lansing's own Joe Naerebout, they retrieved an additional 45 scooters and 16 bikes. A similar rate of retrieved scooters were reported the third consecutive week.

5 DAYS 139 SCOOTERS 63 BICYCLES 90% OF SCOOTERS WERE SPIN

Over a period of five separate days, 139 electric scooters, 63 bicycles, and other evidence of campus and urban living has been retrieved from Bogue Street Bridge. Of the 139 scooters, 125 or about 90%, were thought to be Spin's. Only Spin knows how many more remain and they're not telling.

Bogue Street is only one of six bridges that span the Red Cedar in the East Lansing and MSU campus area. Then there are many more and much larger bridges in Lansing where scooters are regularly spotted and retrieved. Without Spin revealing how many scooters they have lost to our rivers, we can only imagine.

Because of the problems that such a large pile of twisted metal and collection of lithium ion batteries creates, we have repeatedly reached out to Spin for their assistance. To help plan and resource our retrieval efforts we have asked Spin to share how many of their scooters have been lost to our local rivers and by location. They have not yet responded.

For whatever their motivation, Spin has neither been transparent nor cooperative. They attempt to deflect responsibility by blaming others. As quoted in the Lansing State Journey, Spin regularly states, ["We can't control 'reckless individuals' who throw scooters in Red Cedar River."](#)

It appears Spin is taking the position that because they are not responsible for those who tossed their scooters in the river, they are not responsible for:

- Conveying their loss rate and the enormity of the problem to others,
- Retrieving their product from our rivers,
- Assisting others who are actively retrieving their scooters from our rivers..
- Conveying the inherent risks that their scooters may pose to personal safety and the environment.
- Meeting the terms as defined in their contract.



Evident by their practices, it appears Spin is leaving it up to others to discover the scope of the problem, search for and retrieve their lost inventory, create a solution, and incur all associated costs.

There is a growing sentiment that Spin is not acting as a strong community partner nor global leader as they claim to be. We agree

Per the reporting of [Lansing's 100.7 FM](#), they share a quote from [Unagi](#), a manufacturer of electric scooters, about how chemicals in electric scooter batteries can pose a serious problem if not disposed of correctly.



"Batteries typically contain toxic chemicals such as lead, mercury, cadmium and nickel. These metals are intentionally added to the battery's cell chemistry because they are good conductors of electricity. But, once the batteries have reached their end-of-life, these same elements can leak into the environment when improperly disposed of can contaminate soil or groundwater."

Batteries typically contain toxic chemicals. When improperly disposed of can contaminate soil or ground water.

Per the reporting of [The Spokesman-Review](#), a Spokane newspaper, a leading U.S. ecotoxicologist gives warning about the dangers of lithium ion powered scooters.



Hugh Lefcort, a Gonzaga University biology professor specializing in ecotoxicology, tells us, lithium ion powered scooters are particularly problematic as they pose a serious threat to aquatic life. Unlike iron, lithium and heavy metals in rechargeable batteries are toxic, Lefcort said. High doses of lithium can impact heart contraction in mammals. The cobalt and nickel in batteries can cause damage, too.

"All heavy metals are toxic to different degrees," he added

Lithium ion powered scooters are particularly problematic as they pose a serious threat to aquatic life.



Per the reporting of LSJ, in Spin's contract with Michigan State University there is language about inoperable scooters. It reads:

"Spin shall remove any and all inoperable or unsafe scooters from the fleet as soon as reasonably possible and in any event, within 24 hours of the initial onset of that condition."



RESEARCH OVERVIEW



REASON FOR SURVEY

There are three reasons for the Michigan Waterways Stewards on-line, 12-point (see page 11), environmental survey was created:

1. To raise awareness of the large number of electric scooters and bicycles being tossed and abandoned in our local rivers.
2. To gain an understanding as to others' thought and opinion about this matter.
3. To help officials from East Lansing, Lansing, and Michigan State University, and Spin, create policy and/or improve practices, to reduce or stop these incidences from continuing.

OUR TARGET AUDIENCE

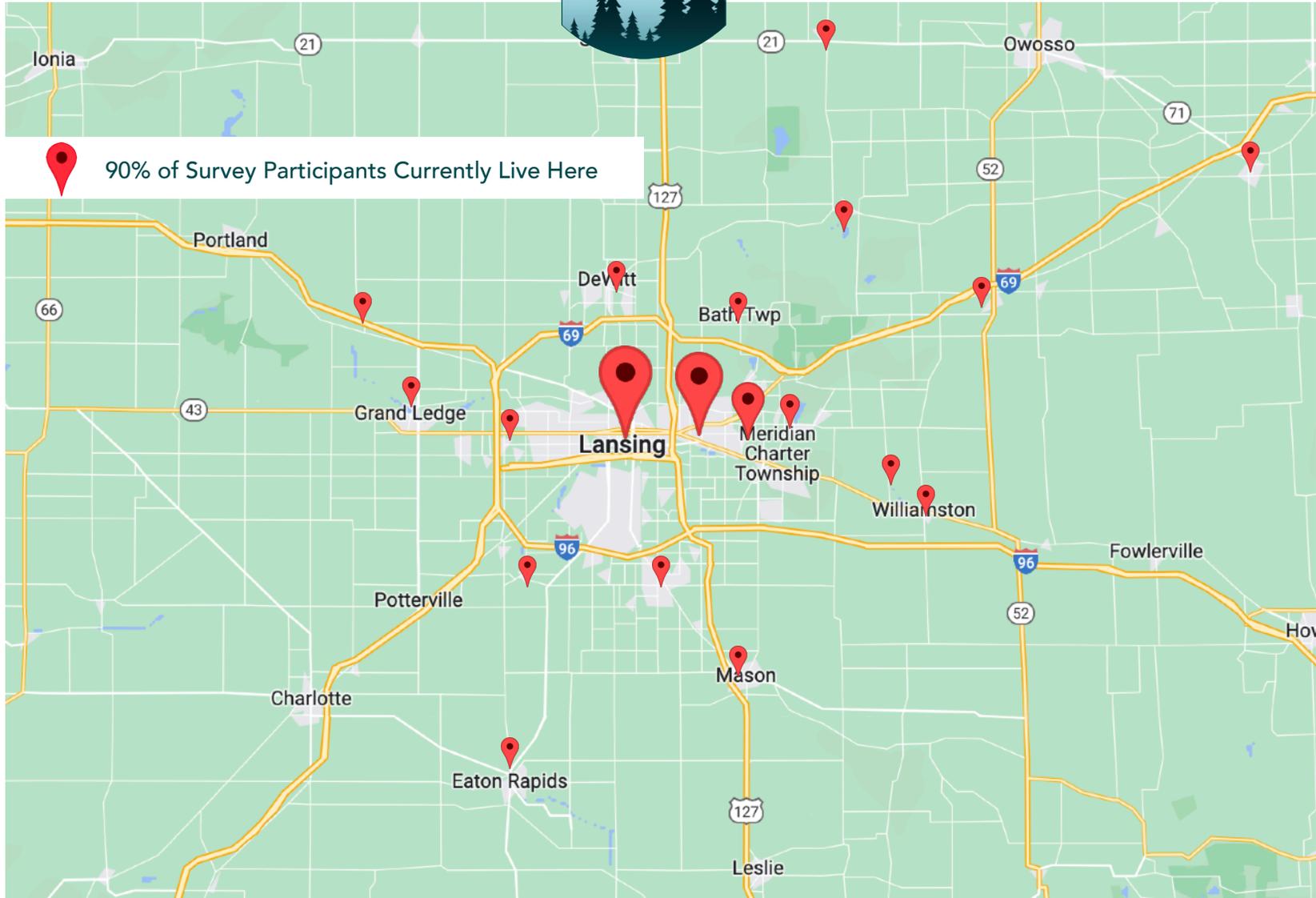
Invitations to participate in the survey were sent out to light-to-heavy users of our waterways, as well as officials from cities of East Lansing, Lansing, and MSU. Spin management was also invited to participate.

There was no financial incentive given for participation and a promise to protect participants' confidentiality was given if they chose. Our goal was to receive a minimum 80 responses, preferably 100. We received 156. About 90% of the respondents currently live in the greater Lansing/East Lansing metropolitan area and surrounding counties (see page 12).

METHODOLOGY USED

We used the a 5-point Likert Scale: Strongly Agree Moderately Agree Neither Agree or Disagree Moderately Disagree Strongly Disagree
The Likert Scale is universal method of collecting data. It is generally accepted as being easy for participants, and easy to draw conclusions and chart results.

Before starting, the participants were given a brief overview explaining the reason for the research with instruction on how to answer (see page 10). Because we value their thoughts and opinions, they were given to leave a comment with each of the 12-points (the last point being open ended).





INTRO AS PRESENTED TO RESEARCH PARTICIPANTS

BACKGROUND

Complaints about electric scooters being tossed into in our rivers has been ongoing since they're being offered as an alternative transportation solution. But, it wasn't until recently that we discovered the enormity of the problem.

Over a period of just five separate days, 139 electric scooters, 63 bicycles, and other evidence of campus and urban living was retrieved from East Lansing's Bogue Street Bridge. Of the 139 scooters, about 90% or 125, were thought to be Spin.

Only Spin knows how many more remain in our rivers flowing through the greater Lansing/East Lansing metropolitan area. But they're not telling.

Hugh Lefcort, a Gonzaga University biology professor specializing in ecotoxicology, tells, lithium ion powered scooters are particularly problematic as they pose a serious threat to aquatic life. Unlike iron, lithium and heavy metals in rechargeable batteries are toxic, Lefcort said.

We should feel compelled to remove electric scooters from our vulnerable waterways for environmental reasons alone.

SURVEY INSTRUCTIONS

Read each comment carefully. Then select the best answer that matches your opinion. If you find any comment either unclear or confusing, answer the best that you can.

Because we value your thoughts and opinion, after each comment you are given an opportunity to leave your thoughts or opinion. We ask that it be specific to that specific topic. At the end of the survey you will be given the opportunity to leave a comment about any environmental matter you feel is important.

We respect your privacy. We will not reveal your name unless specifically authorized. The last question in this survey will tell us your privacy preference.



TWELVE POINT SURVEY

Beginning the weekend of July 15, and over a period of five separate days, over 200 scooters and bicycles has been retrieved from Bogue Street Bridge over the Red Cedar River. It is known that more remains to be retrieved here and at other East Lansing and Lansing area bridges.

- #1. It is upsetting to learn that over 200 scooter and bicycles have been recently retrieved from a single location; the Bogue Street bridge crossing the Red Cedar River.
- #2. The tossing of bicycles, scooters, and other large objects into our rivers is an unacceptable behavior.
- #3. Large objects like bicycles, scooters, and other items tossed into our rivers creates a potential environmental threat.
- #4. Large objects like bicycles, scooters, and other items tossed into our rivers creates a potential personal safety risk.
- #5. Those persons who throw large objects like bicycles, scooters, and signage into our rivers should be held accountable for their actions?

Spin is our area's largest micro-mobility transportation provider. Each of their scooters is GPS fitted to allow them to track their precise location and when last used or lost.

- #6. To assist in the retrieval efforts of electric scooters, Spin should feel compelled to share the number, and last know location, of their scooters lost to our local rivers.
- #7. If Spin does not voluntarily share the number and location of their known scooters lost to our local rivers, Lansing, East Lansing, and MSU officials should feel compelled to ask Spin to share.

It is generally accepted that our waterways are a shared and vulnerable resource for all of us to care for and enjoy.

- #8. Spin should feel compelled to contribute to the efforts and costs, whether it be in part of whole, to retrieve their known scooters lost to our local rivers.
- #9. Our local cities and University should feel compelled to contribute to efforts and costs, whether it be in part of whole, to retrieve scooters, bicycles, and other objects discarded into our rivers.
- #10. The responsibility and cost to retrieve scooters, bicycles, and other objects discarded into our rivers should solely be that of volunteers and/or volunteer organizations.

It is generally accepted that collaborative efforts among key stakeholders is most effective in creating long-term, sustainable solutions to any given problem.

- #11. Spin, Lansing, East Lansing, MSU, and volunteer organizations such as Michigan Waterways Stewards, should work together to create a long-term solution to the problem of our student and young adult populations throwing scooters, bicycles, and other objects into our local rivers.

#12. Please share any thoughts and opinions about this matter or any other waterways environmental matter.



GENERAL FINDINGS



STRONG ALIGNMENT AMONG PARTICIPANTS

With each point, 80% of the respondents agreed strongly or moderately, with nine points scoring 90% or greater.

With each point, all respondents agreed strongly 60% of the time or greater (top 2-box), with nine point scoring in the top 20 percentile (top 1 box).

- The outliers, questions nine and 10, was about who should be responsible for paying for the costs of retrieval.

With there being such strong alignment in thought and opinion across all points, whether it be the disappointment of learning about the enormity of this problem, perceiving it as posing a risk to personal safety or the environment, to seeking a collaborative solution, it gave us confidence that we could formulate reasonable conclusions from the data collected.

STRONG INTEREST TO TOPIC

Strong interest in the topic was demonstrated by the high engagement rates. With each of the first 11 points, on average 20.5% of the participants offered additional comments. With the final point, 39.1% offered commentary. Many of the comments were passionate.

ACTION IS WARRANTED

Based on strong alignment among respondents, consistent high ratings given to each point, along with the high percentage of comments voluntarily offered, it should give confidence to the leaders of our cities, university, and Spin that action should be taken to mitigate, preferably stop, these incidences from continuing.

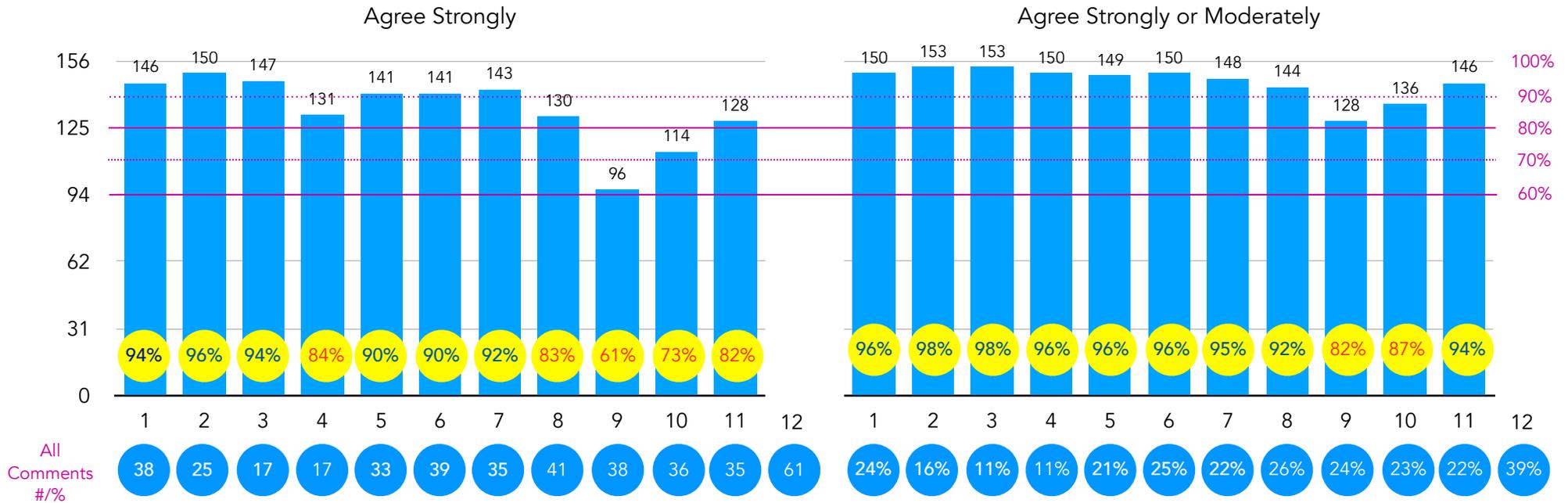


Methodology

For this survey we used a five-point Likert scale to allow respondents to quickly express their opinions. We asked participants to respond to 11 comments using a 5-point Likert scale. The twelfth point was open ended to allow participants to share any thoughts and opinions without restriction.

Overview

There was a strong consensus among the 156 participants with our achieving with top 2-box score on all 11 comments. We achieved over 90% alignment on nine of the eleven comments (agree strongly or moderately).



Agree strongly was the #1 answer given to each comment with it achieving a selection rate of:

- 80% of the time or greater on nine comments.
- 90% of the time or greater on six comments.

Agree strongly or moderately was chosen:

- ✓ 80% of the time or greater on each comment (top 1-box).
- 90% of the time or greater on nine comments.



DETAILED FINDINGS

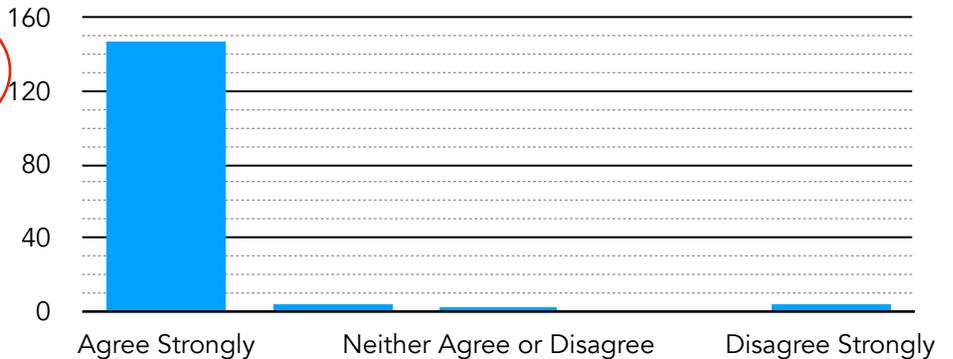


#1. It is upsetting to learn that over 200 scooters and bicycles have been recently retrieved from a single location; the Bogue Street bridge crossing the Red Cedar River.

QUESTION #1

Agree Strongly	146	93.6%	
Agree Moderately	4	2.6%	96.2%
Neither Agree or Disagree	2	1.3%	
Disagree Moderately		0.0%	
Disagree Strongly	4	2.6%	
Total	156	100.0%	

QUESTION #1



QUESTION #1 RESPONDENTS LEAVING COMMENTS

Agree Strongly	32	
Agree Moderately	2	
Neither Agree or Disagree	1	
Disagree Moderately		
Disagree Strongly	3	
Total	38	24.4%

Comments

For those unaware, there was a strong level of disappointment, frustration, sadness, and anger expressed. For those others aware, they can be described as disheartened that it has allowed to continue, perhaps worsen.

Blame is given to many, including; Spin, the University, and the reckless behavior of those perpetrators. Corrective action is wanted.

Because of the revelation of the problem, additional complaints about these scooters and Spin surfaced.

Q1: AGREE STRONGLY

- I wonder how widespread the problem is regarding perpetrators. Is it a handful of people who purposefully bring the scooters there to toss them or is it many people who perhaps think it is a funny thing to do?
- I do think the owners of the scooters should be ultimately responsible for retrieving their scooters.
- Did you look at the total amount of cumulative heavy metals by weight there were? How much is necessary to trigger a state or federal pollution response?
- We don't know the full extent of the problem if you include additional local crossings. We wouldn't know any of this without your work.
- Perhaps the City scooter ordinance should be amended to include regular removal of no used scooters from the city whether abandoned in fields, pond, city drains and creeks and rivers, with multiplying fines for days left abandoned.
- The practice of dumping in our rivers must stop! There should be strong penalties for anyone who does so!!
- I was shocked and alarmed that these scooters were abandoned in the Red Cedar.
- The vendor has adopted a business model that does not require accountability of itself or its customers.
- Dumping will flourish if this model is not changed.
- I have sadly seen electric scooters tossed in the Red Cedar near that area.
- This is a severe environmental hazard.
- The company that rents them and the university need to better monitor where they are, and hold the renters to a higher standard.
- It is infuriating. Hard to imagine.
- Complete disrespect.
- Are they being thrown in as a college prank?
- It is extremely concerning to me that such a large quantity of scooters have been removed from the Red Cedar River. How many more remain?
- Clearly a large effort went into ditching these items into the river, and also multiple times.
- Scooters should be outlawed or manufacturers (owners) fined significantly when scooters are found in roadways, rivers, or lakes.
- Very sad to hear this is happening on the MSU campus where I work. It shows a lot of disrespect for the campus and its environment.
- Hold the company responsible. This is a horrible environmental danger.
- Definitely upsetting but I appreciate that they are being removed.
- The company who owns these scooters should be held responsible for this.
- As much as I like public transportation, because it furthers the values of community density as well as community accessibility.
- I find these scooters to be absolutely ridiculous and unhelpful.
- I know more people who have found them in the water than have actually ever ridden them.... And to think that they are ending up in our waterways because of the callous arrogance of the users makes me disgusted.
- I'm upset that students and campus guests don't respect the scooters nor the natural resources.
- I can appreciate the service these scooters provide, unfortunately they are becoming a menace and safety hazard everywhere and the fact so many are being tossed into our rivers and streams is particularly alarming to me.
- Unacceptable.

Q1: AGREE STRONGLY continued

- The scooter companies should be held liable for cleanup.
- It makes me shudder to think how many more are at other bridge locations, especially by Library where it is a more secluded location with no car traffic to witness.
- It is disappointing and I would be curious to know how to resolve this since these are not a single action resolve and we can't simply place blame on last user.
- This is both sad and disheartening to read.
- Scooters should have to be registered to an individual.
- Upset is too weak a word. Let us go with appalled, angry, disgusted. Vandalism is a crime. Is there no way to hold the perps of this arrogant stupidity accountable for destruction of property?
- These scooters & bikes are most likely being thrown over the bridge by someone other than the owner. Are they stolen? Could undercover police presence be increased in that area when it is suspected that these objects are being thrown into river?
- Bicycles and motorized scooters have different effects on the river, different entities are responsible when they end up in the river, and I have different opinions about what should be done about each. Combining them in the survey makes it difficult to completed it accurately.
- I knew that scooters were going into our local rivers, but I didn't that it was over 200 in such a short period of time! This is incredibly frustrating and action needs to be taken.
- At minimum, Spin should share the info they have on nonfunctional scooters.
- There needs to be accountability. Scooters, I am sure there is data to show who last had the scooter. I know that is not full proof but it might be a start.

Q1: AGREE MODERATELY

- There have been bikes, bike racks and all sorts of things thrown into the river over the years.
- Its not too surprising this happens. Not good, but not surprising.
- It's a new problem with a relatively new mode of transportation that could be environmentally sound.
- Let's find a solution instead of discounting them completely.

Q1: NEITHER AGREE OR DISAGREE

- Disappointing more than upsetting.
- The quantity retrieved is somewhat surprising, but students have been tossing items into the Red Cedar River for as long as I can remember, certainly back to my days as a student 25 years ago.
- Poor decisions by a small number (200 scooters vs. approximately 50,000 students) of students/campus visitors is to be expected, even if undesirable.

Q1: DISAGREE MODERATELY**Q1: DISAGREE STRONGLY**

- Because of how scooters are often left in the middle of sidewalk, obstructing the pathways.
- This is especially significant to people with disabilities and families with small children.
- Also they are a hazard on the sidewalks to pedestrians.
- Scooters are terrible. They need to be removed.

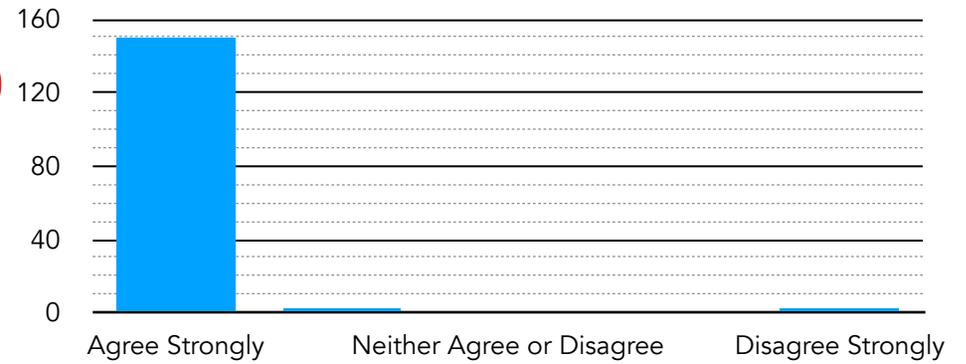


#2. The tossing of bicycles, scooters, and other large objects into our rivers is an unacceptable behavior.

QUESTION #2

Agree Strongly	150	96.2%	
Agree Moderately	3	1.9%	98.1%
Neither Agree or Disagree	1	0.6%	
Disagree Moderately		0.0%	
Disagree Strongly	2	1.3%	
Total	156	100.0%	

QUESTION #2



QUESTION #2 RESPONDENTS LEAVING COMMENTS

Agree Strongly	23	
Agree Moderately	1	
Neither Agree or Disagree	1	
Disagree Moderately		
Disagree Strongly		
Total	25	16.0%

Comments

Elevated levels of disappointment, frustration, and anger were expressed about the perpetrators with several recommendations to deter and punish. Many wonder why anyone would do this and describe these acts as criminal behavior.

Recommendations for deterrence include cameras, signage, fencing, promise of penalty, and including messaging in MSU handbook.

Q2: AGREE STRONGLY

- These can lead to flooding, increase drowning risks, navigational hazards, pollution risks.
- We need signage at crossings warning the hazards of abandoning property in natural features.
- These hazards should be added to MSU student hand book and orientation materials.
- There should be strong penalties for anyone who does so!!
- Incredible to think that this behavior could be occurring.
- I completely agree with this statement. And I don't understand how the company doesn't incur economic losses over all the scooters that are thrown around (I presume that would be the one way to get them to care about it!).
- The university should put up cameras on the bridges to catch the offenders.
- Totally irresponsible.
- Should be a misdemeanor
- An unfortunate consequence of warehousing young people who also have easy access to alcohol.
- While this behavior is not related to waste disposal, this tossing of items into the river is especially unacceptable considering that the university and surrounding communities offer a variety of options to properly dispose of bulk items and electronics.
- It should be talked about at orientation, maybe signs posted on game days
- This action serves no purpose nor does it bring any value. In fact it does quite the opposite- people who had little or no opinion before may see this action as a strong negative against the scooters and any of the people who use them.
- Because of the environmental impact.
- Pollution and other environmental disruptions have rippling effects which need to be resolved through education and awareness.
- I don't view putting anything into the river as a good act.
- Why would someone do this?
- It is an "illegal" behavior, correct?
- Seems that the users do not care what happens to the scooters and bicycles, so they end up in our waterways. This also includes the city of Lansing and even Delta Township.
- A fence on Bouge needs to be built, similar to fences on overpasses so things aren't dropped on cars
- 1. If people refuse to use the scooters responsibly, remove them. 2. Maybe rent them out for the semester, or require a scanned student id or MI drivers's license before the scooter can be activated.
- There is nothing beneficial that can come out of tossing your bike or scooter into the river. It also isn't their property that they are destroying. They are damaging property that doesn't belong to them on top of the potential environmental harm.
- They are not theirs to do with what they want.

Q2: AGREE MODERATELY

- Agree, but someone should be looking at the why part of the equation.

Q2: NEITHER AGREE OR DISAGREE

- They need to go and people are solving a problem. It is terrible they are ending up in the river, but if these companies suffer enough loss, they will remove the scooters.

Q2: DISAGREE MODERATELY**Q2: DISAGREE STRONGLY**

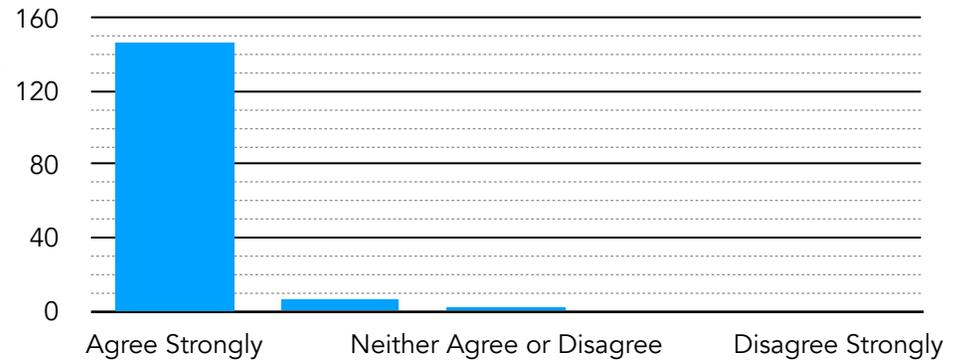


#3. Large objects like bicycles, scooters, and other items tossed into our rivers creates a potential environmental threat.

QUESTION #3

Agree Strongly	147	94.2%	
Agree Moderately	6	3.8%	98.1%
Neither Agree or Disagree	2	1.3%	
Disagree Moderately		0.0%	
Disagree Strongly	1	0.6%	
Total	156	100.0%	

QUESTION #3



QUESTION #3 RESPONDENTS LEAVING COMMENTS

Agree Strongly	15	
Agree Moderately	1	
Neither Agree or Disagree	1	
Disagree Moderately		
Disagree Strongly		
Total	17	10.9%

Comments

The concern about the toxicity of lithium batteries was the greatest, far greater than the objects themselves. Concerns about bicycles are real, but secondary to electric scooters. The reshaping of rivers' natural flow was also expressed.

Comments used to express the problem about electric scooters include: poisonous, toxic, hazardous, harmful to plant and wildlife.

Q3: AGREE STRONGLY

- Lithium batteries most concerning.
- I believe that the scooters have a poisonous element in their battery system .
- Yep.
- Sickening. Toxic.
- These objects defile our watershed and pose a snagging danger to people in the waterway for work or recreation.
- Toxins leaked into the river could cause great harm to plant and wildlife
- The batteries contain hazardous chemicals
- Absolutely this is true. And what is concerning is that we won't know how bad the problem will be until the future.
- Not only the potential for electrical and chemical concerns, but also just the physical concerns of causing the river to flow in unnatural ways.
- More than a "potential" threat. Simply a threat... no need for the weak adjective.
- ABSOLUTELY!!!
- The large objects themselves are polluting the river but it goes beyond the large objects. Chemicals in the lithium batteries can be a harmful pollutant. It is harmful to animals, plants, and people that depend on the river. River otters are very sensitive to pollutants even the smallest part will send them away. These large objects and the chemicals that can come from them discourages river otters from coming back into this area.
- There are already issues with the Red Cedar and e-coli. The bikes don't help.

Q3: AGREE MODERATELY

- The size of any item discarded into a waterway seems far less relevant to potential environmental threat than the material components of an item may contain. For example, I fail to see a standard bicycle as a significant environmental threat. However, the scooters may present a threat due to their batteries. Yet, I question whether the quantity of environmental contaminants in 200 scooters is likely to be a serious threat when measured against the magnitude of water flowing down the Red Cedar River.

Q3: NEITHER AGREE OR DISAGREE

- I have no scientific evidence to support or reject this statement.

Q3: DISAGREE MODERATELY**Q3: DISAGREE STRONGLY**

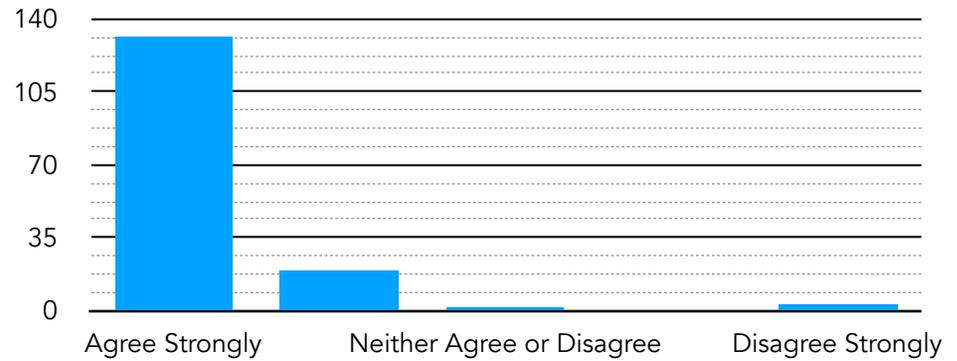


#4. Large objects like bicycles, scooters, and other items tossed into our rivers creates a potential personal safety risk.

QUESTION #4

Agree Strongly	131	84.0%	
Agree Moderately	19	12.2%	96.2%
Neither Agree or Disagree	2	1.3%	
Disagree Moderately	1	0.6%	
Disagree Strongly	3	1.9%	
Total	156	100.0%	

QUESTION #4



QUESTION #4 RESPONDENTS LEAVING COMMENTS

Agree Strongly	16	
Agree Moderately		
Neither Agree or Disagree		
Disagree Moderately		
Disagree Strongly	1	
Total	17	10.9%

Comments

The concern generally expressed was about snagging users of the river, including paddlers, fishermen, boaters, and those who may just wade.

Q4: AGREE STRONGLY

- Yes. People kayak in the river. These are potentially dangerous obstructions.
- I have seen fishermen in waders in the river. This is another dangerous trip and fall accident waiting to happen
- If a person is using the waterway, it could cause a foot entrapment that could lead to a drowning.
- I would hate to get caught up in a pile of metal when wading, fishing, or canoeing down the river.
- See #3
- Could be a real danger for paddlers or others who use the river
- Refer to #1
- It tells me people are drunk, I don't think someone of sound mind would do that
- Yes again- for those using the waterways for their intended use- canoeing, kayaking even fishing where permitted- these items can hamper and be dangerous.
- Absolutely for divers and boaters.
- Again... more than a "potential" risk. It is simply a risk, period.
- Especially to people using the river for kayaking or canoeing
- A fence on Bouge needs to be built, similar to fences on overpasses so things aren't dropped on cars
- It is a safety risk for canoers, kayakers wanting to paddle down the Red Cedar as well as a potential health and safety risk for the workers tasked with the retrieval and clean up.
- Just because it's a large object doesn't mean that people can see it in the river. it could snag on boats or harm children who are playing in or around the water. It all around could be a potential personal safety rivers.
- Red Cedar isn't much for swimming, but people do kayak and canoe in the river. These objects in the river could cause significant injury to others.

Q4: AGREE MODERATELY**Q4: NEITHER AGREE OR DISAGREE****Q4: DISAGREE MODERATELY****Q4: DISAGREE STRONGLY**

- Why would it cause a personal safety risk?

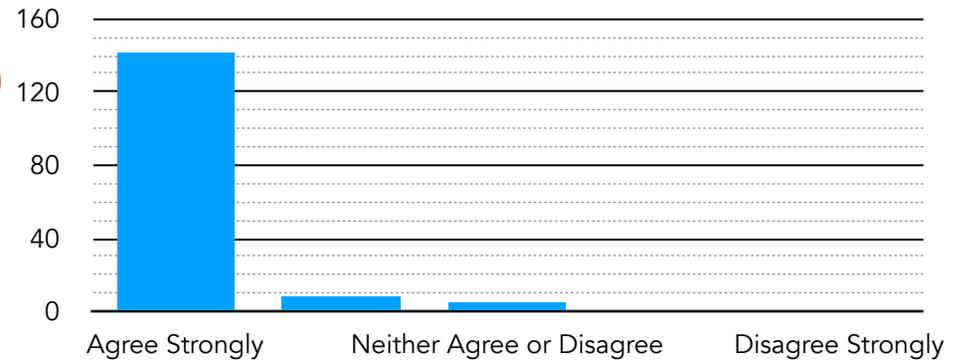


#5. Those persons who throw large objects like bicycles, scooters, and signage into our rivers should be held accountable for their actions?

QUESTION #5

Agree Strongly	141	90.4%	
Agree Moderately	8	5.1%	95.5%
Neither Agree or Disagree	5	3.2%	
Disagree Moderately	1	0.6%	
Disagree Strongly	1	0.6%	
Total	156	100.0%	

QUESTION #5



QUESTION #5 RESPONDENTS LEAVING COMMENTS

Agree Strongly	27	
Agree Moderately	3	
Neither Agree or Disagree	2	
Disagree Moderately		
Disagree Strongly	1	
Total	33	21.2%

Comments

It is generally believed unless there is some enforcement of laws which may related to theft, property damage, environmental ham, or other, this will continue if not worsen.

Several comments about deterrence was brought up, including cameras, signage, and education. Also, frustrations spilled over about the general management of scooters.

Q5: AGREE STRONGLY

- Where this is a particularly large problem cctv cameras should be installed by MSU Police or EL Police where appropriate.
- Fines, city ordinance in place.
- Absolutely! 100%!!!
- This must be done. If there is a way to identify these persons, they should be charged by the prosecutor.
- The vendors also need to be held accountable in order to resolve this problem.
- Definitely on those who throw them into the water, but I can imagine that might be hard to keep track of, so perhaps fining the companies whose scooters are found might be best?
- Prosecute them.
- Responsibility needs to be required for returning these to a secure location.
- I have not heard of people being arrested and charged for this.
- There should be strong messaging on campus from the university and from the scooter companies
- Refer to #1
- Scooters - yes, bikes - hard to find the owner and if it is stolen, who can be held responsible?
- Not only are they destroying people's ability to use the devices, they are creating an environmental hazard for all of us to suffer with no consequences for themselves, and lastly, they are creating a hazard for all other users of the river
- There is no other answer than this.
- Yes and the scooter companies who clearly knew where all of their inventory was.
- This needs to be enforced. Having more MSUPD bike patrols may help, plus other surveillance tools. Have officers holding sting operations occasionally will help
- They should be charged for the price of the entire scooter as well as any clean-up cost associated with the removal of the scooter from the water.
- They should not have done so, and should be dealt with if found.
- Absolutely. An idiot who heaves a scooter into any waterway should get a \$\$fine and 100 hours of community service - to clean up the river.
- Vandalism
- "Legally" accountable, with strong legal language described in the rental agreement. Are there laws already in the books which would make this a felony? If lithium batteries can explode, how is that different than throwing a grenade in the water? Wouldn't that be a felony?
- Fines above \$200 or more for each charge for being guilty tossing them the waterways, (this also for bicycles).
- Absolutely, including suspension from MSU, financial restitution for clean up, and no-trespassing orders for campus.
- They are polluting the river. It should be illegal, just like throwing garbage out of your car window. Most likely, they are destroying property that doesn't belong to them (stolen?), which could be illegal.
- Good luck with that.
- If you are knowingly causing harm to the environment and those around you, you should face the consequences. As I also stated above, these large objects are typically not owned by the people who are throwing them which is theft and destruction of property. They should be held accountable for what they are doing.
- YES.

Q5: AGREE MODERATELY

- They should be fined. But, with each additional occasion the penalty to be increased.
- I think they should as best they can try and hold people accountable but I just don't know how you'll do this, additional surveillance?? You'll need to balance the ethics of constant supervision/surveillance with the need to keep these items out of the river.
- The reaction of consequences is not always best applied through harsh actions. For example, those who have the money or don't care will pay or not pay a fine - but having the impact of community service to resolve these things helps build education more than a simple presentation.

Q5: NEITHER AGREE OR DISAGREE

- While this behavior is abhorrent, I don't place fault solely on the individual. There is a lack of education in place (and thinking ahead on the individual's part) that should be addressed, rather than an attempt to punish community members making stupid decisions. The entity at fault in this situation is SPIN, both for not maintaining their fleet, but also for the lack of oversight and recovery taking place on their behalf.
- If it was happening because of where the scooters are left or how and where they are driven (ie. in the middle of sidewalks crowded with pedestrians) then I'd be less inclined to impose a stiff penalty.

Q5: DISAGREE MODERATELY

Q5: DISAGREE STRONGLY

- Hold the companies responsible for dumping their trash all over the city and it's sidewalks.

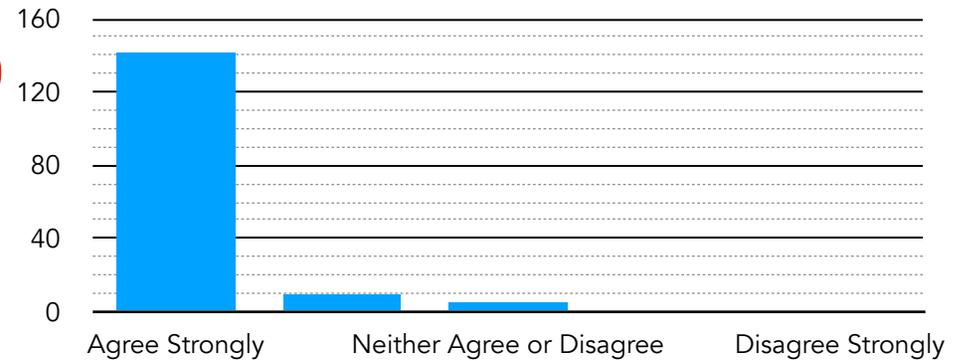


#6. To assist in the retrieval efforts of electric scooters, Spin should feel compelled to share the number, and last know location, of their scooters lost to our local rivers.

QUESTION #6

Agree Strongly	141	90.4%	
Agree Moderately	9	5.8%	96.2%
Neither Agree or Disagree	5	3.2%	
Disagree Moderately	0	0.0%	
Disagree Strongly	1	0.6%	
Total	156	100.0%	

QUESTION #6



QUESTION #6 RESPONDENTS LEAVING COMMENTS

Agree Strongly	31	
Agree Moderately	5	
Neither Agree or Disagree	2	
Disagree Moderately		
Disagree Strongly	1	
Total	39	25.0%

Comments

It is generally believed that Spin should be doing much more and disappointed about the perception of their not being cooperative or responsible for the retrieval of their product.

Several feel spin should be legally compelled to share and wonder how they are not. It is suggested that revealing of such information should be contractually required.

Q6: AGREE STRONGLY

- Absolutely!
- They must be provided with the proper procedure and path for reporting these losses.
- And SPIN should be fined through local ordinance or a contract with accountability clauses.
- Only if they care about the environment. If they don't, then they should not be allowed to do business here.
- How can they not be?
- I personally have decided to boycott Spin and am encouraging others to do the same. They clearly do not care what happens to their scooters.
- and fined.
- If they fail to solve the problem, hold them(Spin) criminally responsible.
- That is the VERY least they should do. The costs and burden of recycling and remediation of toxic materials and plastics should be carried more by the manufacturers of these materials and not solely left to the consumer with little to no gov't support. The economics and incentives for toxic materials and plastics should be changed greatly. Manufacturers and corporations get all of the profit and pay none of the environmental costs.
- I would like to think that spin would be a contributing partner to our communities well-being as they are attempting to provide us transportation on the final mile of most people's public journey which can be difficult as buses don't always take you to where your final destination is, So it seems to me and their best interest to help us prosecute people who destroy their property on purpose and at the same time help us keep our river ways clean
- They need to be accountable for proper treatment of their property
- Absolutely they should. The use of these scooters is out of control, they are left everywhere and not only are a dangerous menace they are eyesores!
- Spin should not just share their location, Spin and other scooter service providers really should have a dedicated department to retrieval...its their product they should retrieve and/or pay for it to be retrieved.
- Any company that is renting electric scooters electric bikes or bikes in the state of Michigan should retrieve these items when they are left in places that they should not be left. This includes bodies of water sidewalks people's front yards people's driveways. If a person renting them from a location where they are in a port and want to go to a place where there is not a port then the scooter company should be responsible for picking them up and not allowing them to be left on private property, or public property creating hazard. One of the bike companies has contracted with an employee who is responsible for picking up bikes and that employee is in the west side of Lansing in the west side neighborhood. I cannot begin to tell you how many bikes I have seen left in the West Side neighborhood in the road in the right away sidewalks of private property. Should not be allowed
- They should be able to identify the person who last person who used scooter and then have a pretty good idea who tossed it in river and when.
- But what good does that do if they leave it in an appropriate place and someone else tosses it?
- Feel compelled? This should say, are legally compelled
- The scooter was used to commit a crime so the company should turn over records. It's no different than a rental car being dumped. Police should have access to that info. Require the MSU contract with SPIN to have wording that when customers use their equipment it gives Spin permission to turn over crime investigation records to PD
- How was this not already standard practice?
- Spin should be held legally responsible to recover their abandoned junk wherever it ends up.
- Only if your going to toss them in the garbage when you get them out.
- I don't understand why they would not cooperate. Crappy scooters and crappy company.
- Spin should meet certain standards or lose their license.
- Spin should be legally compelled to share.

Q6: AGREE STRONGLY continued

- I find it ridiculous that they are not sharing this information already. Just like Purdue pharma. greedy bastards
- Spin's scooters are also often left in neighborhoods for long periods of time. A rider left a scooter on my lawn where it sat for two weeks. I called Spin repeatedly and finally had to threaten to toss it in the garbage before they retrieved it.
- I don't understand a company that lets its assets lie on River bottoms and people's yards.
- Spin shouldn't "feel compelled" to share this information. They should be required as part of their contract/permit to operate in the community.
- WHY are they not willing to cooperate at all???
- This should be written into Spin's contract in the future.
- I would think this would be in Spin's best interest. If they are going into the river and are unable to fixed they would need to purchase more product to replace the scooter right?
- Spin should want to be a part of the solution and not the problem. If you know how to help a situation and you don't help then you are just as much at fault than if you were the one who was creating the problem.

Q6: AGREE MODERATELY

- We need to create the legal foundation via EL's Scooter Ordinance as well as through cooperation agreement with use on MSU grounds.
- So then what? The police follow up with each person and interview them? Can someone pick up a scooter not by the river, and transport it to the river and throw it in? Just because it was parked near the river does not mean that the last person to ride it threw it in. They now have a geofence on the units to not end the ride near the river or bridge.
- Share with whom? [BTW, micro mobile transportation is really mobile trash. These scooters are unsafe at any speed in most environments and unlikely to be a real solution to real mobility problems. Healthy people should walk -- at 3MPH -- or use other available public transportation. Improve that other transportation.]
- Share the location or be responsible for aiding in their recovery.
- While sharing this information would be helpful, it seems the more important issue be that they take responsibility for retrieving their property from the river voluntarily.

Q6: NEITHER AGREE OR DISAGREE

- Retrieval or fines sufficient for retrieval and water remediation must be levied.
- The scooters can be picked up without paying, so there is no way to find out who threw them in the river.

Q6: DISAGREE MODERATELY**Q6: DISAGREE STRONGLY**

- Spin is a private company, it is also not the only company supplying scooters in the region, and it should not be compelled to share its proprietary data. Spin isn't throwing its scooters into the river; doing so would be commercially unreasonable and irresponsible to its shareholder(s). Find a way to hold the actual perpetrators accountable rather than the micro-mobility supplier and/or manufacturer.

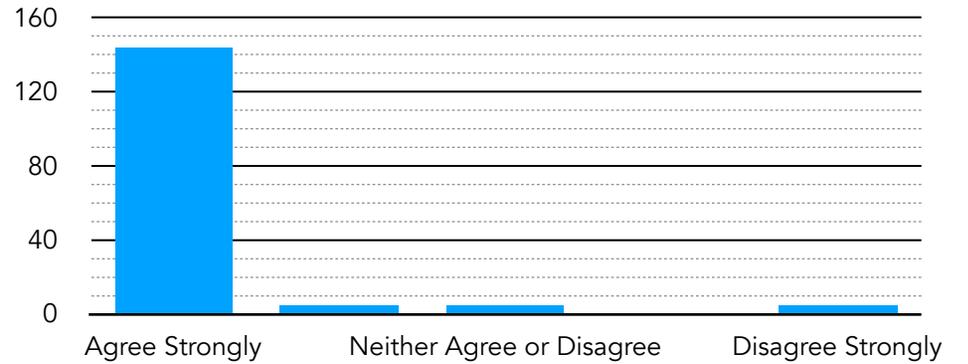


#7. If Spin does not voluntarily share the number and location of their known scooters lost to our local rivers, Lansing, East Lansing, and MSU officials should feel compelled to ask Spin to share.

QUESTION #7

Agree Strongly	143	91.7%	
Agree Moderately	5	3.2%	94.9%
Neither Agree or Disagree	4	2.6%	
Disagree Moderately	0	0.0%	
Disagree Strongly	4	2.6%	
Total	156	100.0%	

QUESTION 7



QUESTION #7 RESPONDENTS LEAVING COMMENTS

Agree Strongly	31	
Agree Moderately	1	
Neither Agree or Disagree	1	
Disagree Moderately		
Disagree Strongly	2	
Total	35	22.4%

Comments

It is generally thought that if the information is not forthcoming, than those partners (cities and university) should require (demand) such information, or rescind their contract or take other measures.

It is suggested that revealing of such information should be contractually required.

Q7: AGREE STRONGLY

- Not so much how they feel, but simply held accountable.
- Ask is a rather mild word
- I prefer DEMAND.
- They should feel more than compelled to get info. SPIN should be put on notice that their contracts or permits will not be renewed and that damages will be sought in court for enabling littering and environmental damage.
- If they are being used and tossed on campus, for sure, that should be a requirement (for them to share!) or they should be the ones paying for remediation activities.
- Nope, kick them out.
- We should use all measures to get this information.
- Or rescind their contract
- Any electric scooter concessionaire should be bound by requirements to report locations of inactive scooters.
- Whomever agreed to partner with Spin should also be held accountable.
- Local ordinances need to be introduced requiring more responsibility
- Spin should pay 100% of the cost, not the taxpayers.
- Refer to #6
- Ask them? How about sue them or terminate their contract?
- And they must know who rented it.
- I feel very strongly that if you offer a device or product for use in our city that you should be partially responsible for how that thing is used and maintained.
- If scooters are on campus, it is also MSU's responsibility to make sure they are accounted for. Otherwise don't allow them on campus!
- I do not agree that this is an ask. This should be "you will." The environmental damage caused to our waterways is irreparable not to mention the public safety aspects associated with this debris. In the natural environment we deal with "strainers" on the river. For the uninitiated a "strainer" is made up of downed trees and deadfall that traps "debris" as it travels downstream. While the "strainer" permits water to pass through it doesn't permit solid objects to pass through. The material is trapped. If it is an unfortunate water user the result is typically serious injury and often death. The under water debris is identical to a "strainer" except it is far more hazardous and can lead to foot entrapments that will pull a recreational user under because of the force of the current. They should either be compelled to turn over the data or stop doing business in the designated municipalities. The implementation of the SPIN program was supposed to be temporary and then studied to ascertain if it was viable. Was that study ever completed?
- This information should be required as part of any contract any government or MSU enters into with spin and other bike companies which allows them to operate in our communities.
- Ask? How about sue
- Again, how was this not standard practice?
- So you can toss them in the trash.
- Or just kick them off the MSU campus completely.
- And their funding organization and insurers.

Q7: AGREE STRONGLY continued

- Someone is writing off the loss.
- "feel compelled to ask Spin to share" ??? That language is VERY weak. The entities should be legally allowed to ask for this information. If Spin does not comply, then fines can be levied.
- Fine Spin for each scooter found in the rivers. If they furnish the locations, no fines for Spin.
- Spin shouldn't "feel compelled" to share this information. They should be required as part of their contract/permit to operate in the community.
- Isn't there another company that could replace SPIN???
- Why wouldn't they, given the harm that the batteries can do to the river's ecosystem?
- As stated above, when people do this it is not their property. If Spin does not want to cooperate then I think they should be encouraged by our local officials to share that information.
- Should be part of the contract with Spin or any scooter rental company for the company to be responsible for cleaning up and retrieving their inventory, no matter where it is at including the River.
- Yes. I am sure there is some legal form of contacting Spin to cough up the data.

Q7: AGREE MODERATELY

- Through ordinance or initial contract or renewal contract.

Q7: NEITHER AGREE OR DISAGREE

- They need to be fined and face possible contract cancellation for letting their property be a danger to others and/or cause of dangerous pollution and drowning hazard.

Q7: DISAGREE MODERATELY**Q7: DISAGREE STRONGLY**

- Well, then can ask them to share, but there is nothing to compel them to share.
- Let Spin figure out where their junk is. If enough of it disappears, maybe they will go out of business.

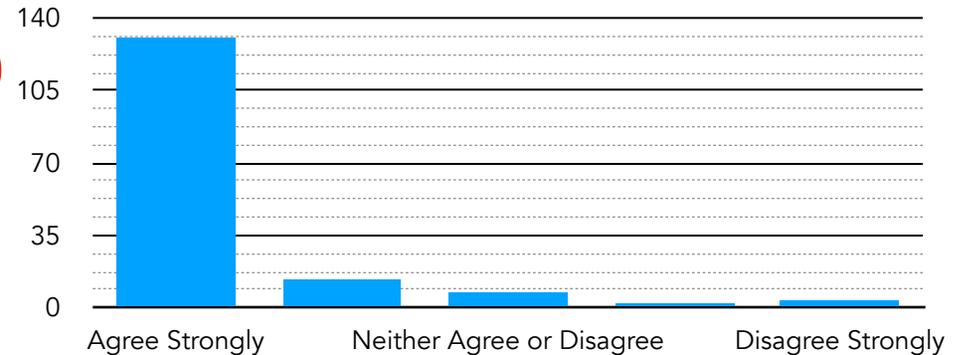


#8. Spin should feel compelled to contribute to the efforts and costs, whether it be in part of whole, to retrieve their known scooters lost to our local rivers.

QUESTION #8

Agree Strongly	130	83.3%	
Agree Moderately	14	9.0%	92.3%
Neither Agree or Disagree	7	4.5%	
Disagree Moderately	2	1.3%	
Disagree Strongly	3	1.9%	
Total	156	100.0%	

QUESTION #8



QUESTION #8 RESPONDENTS LEAVING COMMENTS

Agree Strongly	32	
Agree Moderately	4	
Neither Agree or Disagree	2	
Disagree Moderately	1	
Disagree Strongly	2	
Total	41	26.3%

Comments

Absolutely! The level of disappointment with this matter, and Spin, is clearly expressed here. A very soon consensus that Spin should be contributing or covering the entire cost of retrieval. If not, consideration to fine them or revoke their license to operate was suggested.

One wrote, "If they wish to be part of the community, they need to responsible corporate members."

Q8: AGREE STRONGLY

- They may have already claimed insurance monies .
- They need to take responsibility for the damage they have taken part in on The Red Cedar.
- It is insane that Spin just looks the other way
- Who are these people?
- "...feel compelled..."?? Spin will never "feel compelled" to clean up their mess. The local contracts should REQUIRE that they clean up after themselves; including getting wet and retrieving their scooters. Or, they HIRE someone to do so on a regular basis including a "Contractual Requirement" with mounting fines should Spin NOT fulfill their agreement. Period! ONLY when Spin's bottom line is impacted will they grow a pair and become a responsible company!
- Even if they don't feel compelled, they should pay for the cost of retrieving their equipment!
- Yes, or leave.
- Absolutely.
- They should be billed for the time and labor it takes to retrieve their property.
- They should pay a significant DEPOSIT to a licensing agency in order to operate.
- Spin should treat their scooters like Kroger does their shopping carts, Kroger retrieves their carts at their expense.
- Yes, they should share in the cost of recovering their scooter
- They should be solely responsible for the cost of the removal of their property.
- Or lose their license to do business here.
- It is absolutely their responsibility - they are the ones profiting from these things.
- Like any other environmental hazard/clean up the main contributor should be held responsible and accountable.
- They are legally required. This is public dumping. Did anyone alert the AG office? The EPA?
- This should mostly be the concern of the company owning and operating them.
- Spin should pay the total cost plus a penalty.
- Share the info and apply penalties to users. Needs to be a level playing field among distributors
- Spin should be charged an amount for each scooter removed from the River. They also should be required to send workers to the River to help with clean up.
- The company that owns the equipment should be recovering their equipment. And or offering compensation for others recovering their equipment.
- "Spin should feel compelled" ??? Once again, language is very weak. If Spin does not share costs, then costs should be passed along to Spin, and they should be legally liable to pay. Perhaps there should be only 2 parties who should pay: Spin and the last user. Spin has the credit card # of the last user, so that should be used for re-payment. If this language is part of the rental agreement, then Spin can easily do this.
- Absolutely!
- The scooters are Spin's property. Therefore, they should be held responsible for cleanup and retrieval costs.
- Spin could charge the last person who rented the scooter, etc. with a fee for throwing it in the water.
- Spin should be required to retrieve their property within a timely manner from public waterway/bodies at their expense.

Q8: AGREE STRONGLY continued

- I am so mad I will never rent one of their bikes EVER!
- If Spin has an inoperable scooter, the company should be obliged to make a reasonable effort in a timely manner to recover the scooter and dispose of it properly.
- If they wish to be part of the community, they need to responsible corporate members.
- I think that any assistance that they can provide is better than no assistance at all. They are part of the problem by ignoring the problem so they should help be apart of the solution.
- Should be part of the contract with Spin or any scooter rental company for the company to be responsible for cleaning up and retrieving their inventory, no matter where it is at including the River.
- Yes. They should retrieve their own scooters. They know who had them last and could deal with it in a legal way but should minimally get them out of the rivers.

Q8: AGREE MODERATELY

- They don't need to "feel" compelled. They need to be legally responsible for the removal of its property when it is no longer in service.
- They should be compelled to help search for them by giving locations. A collaborative effort. Not just shoving all burden on them. Community members & community as whole also have some burden to solve this behavior
- I agree but I'm not sure how they would be required to contribute--for instance McDonald's is not required to cover costs of litter of items purchased at the restaurant. But perhaps an alternative company to Spin would be more willing to help with costs and be promoted as a better option for people to use.
- Spin should contribute to the effort but they are not the ones who threw the scooters in the river.

Q8: NEITHER AGREE OR DISAGREE

- While I agree SPIN should share scooter locations, it is not their fault the scooters end up in the river.

Q8: DISAGREE MODERATELY

- I think they should have some sort of a program to recover lost scooters.
- Maybe MSU in the contract letting Spin be on campus should have contractual language saying they will monitor and retrieve scooters from the river.

Q8: DISAGREE STRONGLY

- Spin isn't responsible for other people's poor choices. The individuals who dump the scooters should cover ALL costs associated with retrieving the scooters and any environmental damage fines that result from those scooters - similar to how cars are handled.
- Thus far, the U.S. has not broadly adopted, and certainly hasn't mandated, triple bottom line accounting under GAAP. Spin has a fiduciary responsibility to its shareholder(s), and should make a decision about whether or not to fund retrieval of its scooters based upon inventory replacement costs vs. salvage cost and corresponding impact on profitability. With that said, if any scooter company chooses not to fund retrieval of discarded scooters, then those devices should be treated as abandoned property by local units of government (universities and cities).

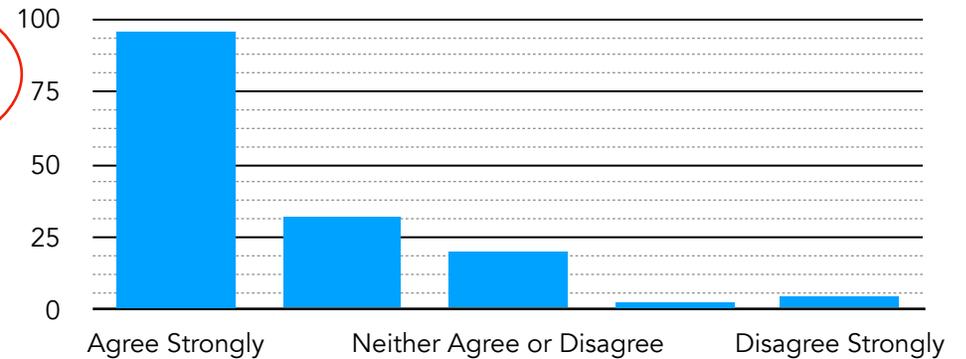


#9. Our local cities and University should feel compelled to contribute to efforts and costs, whether it be in part or whole, to retrieve scooters, bicycles, and other objects discarded into our rivers.

QUESTION #9

Agree Strongly	96	61.5%	
Agree Moderately	32	20.5%	82.1%
Neither Agree or Disagree	20	12.8%	
Disagree Moderately	3	1.9%	
Disagree Strongly	5	3.2%	
Total	156	100.0%	

QUESTION #9



QUESTION #9 RESPONDENTS LEAVING COMMENTS

Agree Strongly	19	
Agree Moderately	7	
Neither Agree or Disagree	8	
Disagree Moderately	1	
Disagree Strongly	3	
Total	38	24.4%

Comments

Many state the opinion, if the university/city is allowing these scooters, they should share in clean up costs. It is thought to be part of their environmental responsibility

As much as I don't like wasting city resources on preventable issues... I also believe it is our public responsibility to keep our waterways clean for our children and their children.

Q9: AGREE STRONGLY

- This is not just for scooters, though. Other things get in the river, scooters are just a new thing thrown in the river.
- Here is a question that needs to be answered: Why are the scooters being thrown in? Do people get aggravated with them being parked everywhere and getting in the way? Is it pranks and stupidity? Remember MSU is trying to provide transportation alternatives. This issue of things being thrown in the river can be solved so that the scooters can serve their purpose.
- I agree that this would be nice but good luck making them contribute to the costs.
- If they truly cared about The Red Cedar they would not have ignored its decline and pollution over time
- Governmental units and the university create the contracts and approve them. See #8. Without local municipalities and LCC/MSU requiring and enforcing clean up, as well as participating in said clean up, the problem will continue to grow.
- It will help us to preserve our resources for future generations.
- If they gave them the contract to allow scooters they need to share in responsibility and all costs associated with scooters. I would be fairly confident in saying the cities and university(s) already receive guns from Spin as part of the contract.
- Support and contractual guarantees should be part of the deal. It seems that contracts need to be renegotiated or terminated.
- Spin should pay a fee to operate covering the cost to retrieve these
- If the university is allowing these scooters, they should share in clean up costs.
- This is part of their environmental responsibility.
- Camaraderie seem obvious tool. Not my fav but a deterrent. Maybe a lock up place when done using them.
- As much as I don't like wasting city resources on preventable issues such as this one which involves human arrogance and stupidity at its height, I also believe it is our public responsibility to keep our waterways clean for our children and their children
- I'm sure we could also locate grants and other sources of money to help with this
- Are statistics available to determine how many person(s) have been apprehended in conjunction with the destruction of this property?
- If the university and/or city has an agreement that allows the scooters to be on campus, and especially if the university/city is making a profit from the scooters, then they should also provide resources to remedy the unsafe, environmentally damaging presence of scooters from campus tossed in the river.
- OK, if the cities and the University allow scooter organizations to operate, then maybe they should share in costs associated with their activities. All this can be spelled out in the agreement between parties.
- At least in the areas under their respective jurisdictions.
- The river flows through their city & university. It's no different than keeping streets maintained.
- I especially feel that MSU being a very environmentally conscious university should help contribute to the efforts of cleaning up the river.
- Should be part of the contract with Spin or any scooter rental company for the company to be responsible for cleaning up and retrieving their inventory, no matter where it is at including the River.

Q9: AGREE MODERATELY

- Not so much how they feel, but simply held accountable.
- While this makes sense, it essentially puts students and taxpayers in a position of subsidizing SPIN. Rather, the jurisdictions should learn from this experience and pursue legislation, ordinances and contract changes to make SPIN fully responsible.
- If Spin does not meet their reasonable expectations, then the cities and/or University needs to jump in.
- Probably because they encouraged the stupid devices and made money off of it too
- The costs should be borne by the perpetrators if the individuals responsible can be identified. In lieu of that, DNR, state and local units of government should fund retrieval efforts IF it is determined that the devices present a material threat to the environment. That determination should NOT be made by a special interest group like Michigan Waterways Stewards.
- Companies like Spin should be held 100% responsible for the cost of retrieval. For other items, when it is difficult to identify the offender, municipalities should provide assistance.
- Municipalities and the University have staff on site to retrieve scooters. The cost should be passed on to Spin.

Q9: NEITHER AGREE OR DISAGREE

- The current way to do this for the property owners to petition the county drain commissioner to make the Red Cedar River a County Drain. This then creates a revenue source for drain maintenance. This is a difficult process and has ramifications which may not be desired.
- We have a long history of riparian cases related to ownership, navigation, and resource management as it relates to the rivers of Michigan.
- I think this is the responsibility of the corporation that owns the item which is hazards. Or dangerous or prevents us from safely navigating our waters. In the city of Marquette, Michigan where I spend more time than Lansing MI we have cans for cigarette butts to keep cigarette butts out of our waterways. Those are tiny items compared to bikes so I would think that the bikes could be more easily controlled.
- Seems like it should be the business that foots the bill.
- Not all costs need to be a commercial clean up effort. Volunteerism is a great activity that we seek support from but don't really seek enough effort to complete.
- This should mostly be the concern of the company owning and operating them.
- The owners of the scooters should be responsible, this should not be on the tax payers dime. Hold the companies that are profiting off the scooters accountable, its their responsibility to monitor and retrieve their equipment. Maybe fine them for each scooter pulled out to offset the cost for the tax payers.
- Spin should be required to retrieve their property within a timely manner from public waterway/bodies at their expense.
- I strongly agree that items need to be removed from the river, but it should be Spin's responsibility, or responsibility of whoever threw them in. It is unfortunate that local city needs to clean up after others (presumably students) who throw things in the river.

Q9: DISAGREE MODERATELY

- This should a joint responsibility.

Q9: DISAGREE STRONGLY

- Spin should treat their scooters like Kroger does their shopping carts, Kroger retrieves their carts at their expense.
- I do t want my taxes and resources going for the clean up of products and services that I do not use, have never used and will never use.
- Make Spin deal with it. Taxes and tuition shouldn't have to go up to retrieve their junk that they are making money off of.

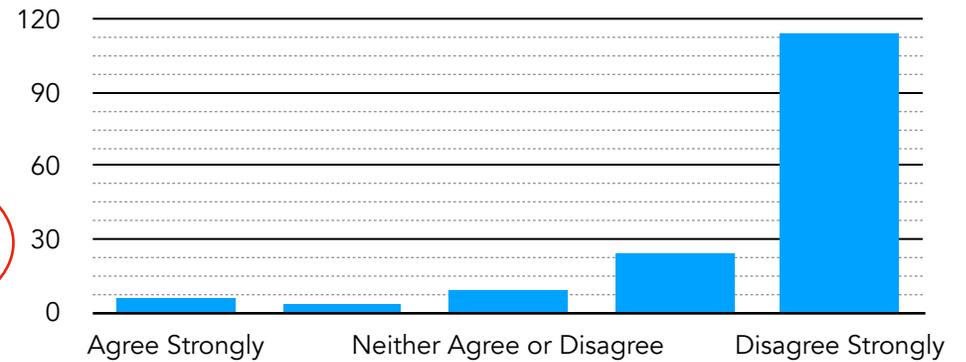


#10. The responsibility and cost to retrieve scooters, bicycles, and other objects discarded into our rivers should solely be that of volunteers and/or volunteer organizations.

QUESTION #10

Agree Strongly	6	3.8%	
Agree Moderately	3	1.9%	
Neither Agree or Disagree	9	5.8%	
Disagree Moderately	24	15.4%	88.5%
Disagree Strongly	114	73.1%	
Total	156	100.0%	

QUESTION #10



QUESTION #10 RESPONDENTS LEAVING COMMENTS

Agree Strongly		
Agree Moderately	2	
Neither Agree or Disagree	3	
Disagree Moderately	2	
Disagree Strongly	29	
Total	36	23.1%

Comments

The current practice of searching and retrieval of electric scooters and bicycles is general though unacceptable. One wrote, "Somebody else needs to step up and help with the costs in cleaning up the river." Another shared, "Volunteer groups are subsidizing SPIN."

It is generally thought that Spin, the city and university should be responsible, with many suggesting to have Spin be solely responsible, or at least step up or have their license revoked.

Q10: DISAGREE STRONGLY

- Regarding the scooters, it should fall on the companies who made the scooters available in the first place.
- It has to be shared by those who cause it to happen -- Spin and the City and MSU. Otherwise, the City and MSU should not allow them on campus.
- Volunteers in this effort are truly dedicated and energized for this effort
- Somebody else needs to step up and help with the costs in cleaning up the river .
- Volunteer groups are subsidizing SPIN. Unless compensated by SPIN, their role should be that of monitoring and notification to SPIN and the permitting/contracting authority of the presence of scooters in the river.
- Completely disagree that it should be the responsibility of volunteer organizations. These corporations make lots of money out of the scooters, and they don't have to pay for any of the consequences that the poor use of them causes. They should pay for scooters' retrieval from waterways, and if it is shown that many of them are being wasted, perhaps the licenses to operate them in cities, or especially on campus, should be revoked. They are a hazard not just in waterways, but in how they're left thrown in sidewalks and streets at times.
- The corporations that are profiting should pick up the cost of their irresponsibly.
- Volunteers should be used as an incremental resource, not as a FREE public service. The real and opportunity costs are too great for a few to solely take on.
- Responsibility should not just fall on volunteers
- Volunteers are important contributors to identifying and reducing problem, but public and private sector have responsibilities.
- Thank GOD for volunteers, but they shouldn't have to have their time taken up by issues that seem, at least to me, municipal and private in terms of responsibility for stewardship.
- Spin should treat their scooters like Kroger does their shopping carts, Kroger retrieves their carts at their expense.
- It is wonderful we even have such organizations that are willing to tackle this. They should not, however, be responsible for all of even most of the cost of corns up
- NO!
- Volunteering is a great way to intercede on problems that are unique to individual communities. However, there is absolutely no explanation as to why a private business would be allowed to shirk its responsibility to keep its product safe and usable and our environment clean from their waste, and with that failing the public good is served by the removal of these dangerous materials from our waterways. So it should fall onto public entities if we are unable to force the corporate entities into fulfilling their basic responsibility
- This should be SPIN's responsibility and MSU's responsibility not something that volunteers only should shoulder.
- The debris didn't "magically appear" in the waterways. Hold the people responsible for the hazards and environmental impact they are having.
- I am thankful for the volunteers and the volunteer organizations who help keep our waterways and our communities safe. I think that the agreements that MSU E Lansing and Lansing enter into with these companies that allow the bikes should have a statement that the cost to retrieve the bikes regardless of who is doing so will ultimately be the responsibility of the owner of the bikes.
- This should mostly be the concern of the company owning and operating them.
- As stated above. Legally force Spin to deal with it.
- It should only be the responsibility of the company that owns them. If you remove them, you should be sending them a bill. If they don't pay it, sue them.
- At a minimum others can facilitate cleanups, share info and educational stewardship materials
- That is completely the wrong way to go. The volunteers are not, in ANY way, responsible for the "dumping" action. It would be the same as saying that volunteers should clean up the mess left behind by DOW chemical - as an example. How crazy is that?

Q10: DISAGREE STRONGLY (continued)

- Should be Spins responsibility
- The owners of the scooters and the cities who allow them to be used in our public areas of our cities should should retrieve them at their cost!!
- Absolutely not - Spin is a private company using public space/right of way to operate. This is part of their business operations.
- NO! Spin, the city and university should be responsible. If Spin is not involved, the contract should be revoked and scooters impounded.
- I praise volunteers who clean up after others. They should not have to, but I am glad they do.
- It's nice that people volunteer. Volunteer days should continue, but Spin, the cities, & university should be responsible since they own the scooters and/or brought them to the city/campus.
- It is great the volunteers are able to help but the weight should not be solely on them.

Q10: DISAGREE MODERATELY

- It shouldn't be this way, but there are so many 'clean up the river days' that the public probably thinks that is how it works, rivers get polluted, people volunteer to clean them.
- I think the cost to retrieve should be shared by many. Municipalities, organizations, private donations, etc

Q10: NEITHER AGREE OR DISAGREE

- It's everybody's responsibility (Spin, localities, the public/volunteers, etc.) to do their part in keeping the waterways clean and safe from debris large and small.
- It could be a combination of all leading efforts by all parties.
- Someone needs to do it and if it's volunteers that is great. But then there is no way to follow through and take legal action.

Q10: AGREE MODERATELY

- In the absence of an unbiased, scientifically sound determination by an appropriate regulatory agency that discarded objects like scooters present a material threat to the environment, any retrieval of such items, if undertaken by volunteers, should be funded by said volunteers.
- Volunteer organizations can donate their time, but the ultimate responsibility should be Spin. Volunteer organizations can donate their time, but the ultimate responsibility should be Spin.

Q10: AGREE STRONGLY

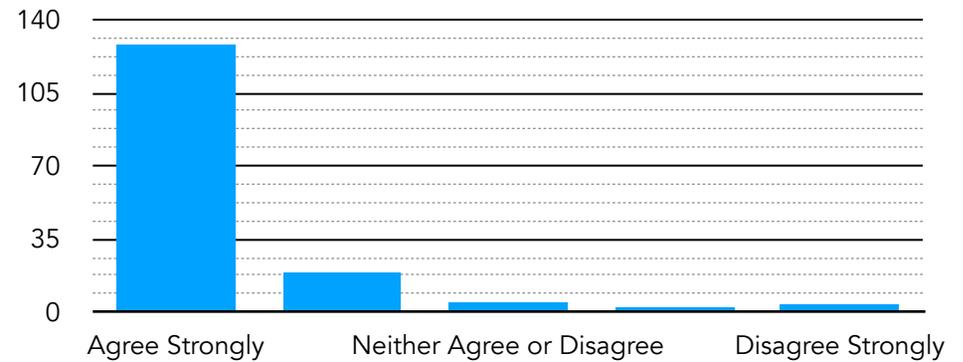


11. Spin, Lansing, East Lansing, MSU, and volunteer organizations such as Michigan Waterways Stewards, should work together to create a long-term solution to the problem of our student and young adult populations throwing scooters, bicycles, and other objects.

QUESTION #11

Agree Strongly	128	82.1%	
Agree Moderately	18	11.5%	93.6%
Neither Agree or Disagree	5	3.2%	
Disagree Moderately	2	1.3%	
Disagree Strongly	3	1.9%	
Total	156	100.0%	

QUESTION #11



QUESTION #11 RESPONDENTS LEAVING COMMENTS

Agree Strongly	25	
Agree Moderately	4	
Neither Agree or Disagree	2	
Disagree Moderately	2	
Disagree Strongly	2	
Total	35	22.4%

Comments

It is generally thought a collaborative process is best. That partnerships like this are really the best way to turn this situation around. One wrote, "100% agree, this is a community solution for a community problem!"

Several share their concern about how the slowness of such a process would likely take.

Many comments spilled into other areas of responsibility, blame, and deterrence.

Q11: AGREE STRONGLY

- To we have proof that it is the young adult population
- This is the one good way to accomplish the goal we all should be looking for for now and in the future
- I agree that all parties can collaborate but the long term solution has to include education, regulation and enforcement.
- Sure, the solution should be a group effort with input from the stakeholders, but I still think the cost should not be a shared responsibility.
- Yes. A collaborative approach is best. But, I worry about this slowing the process.
- Having all involved will bring the most workable solution.
- Posters and/or banners addressing the problems caused by dumping things into the river.
- Partnerships like that are really the best way to turn this situation around
- I think MSU should cancel the contract with SPIN and stop using the scooters. They tried it and it didn't work. The students obviously don't know how to respect things and people, so the privilege of using the scooters should be taken away. I know that won't stop the bicycle issue, but at least it will stop the scooter issue.
- 100% agree, this is a community solution for a community problem!
- I fully expect that "student and young adult populations" are likely primarily responsible for this curious behavior, yet I feel that this phrase could be more inclusive/less targeted. "People"?
- I 100% agree that without collaboration each individual entities efforts will probably go for naught.... Therefore, a rallying of resources to confront this major problem is necessary
- Our students need to be taught that this is a valuable resource and to treat with respect
- Create some sort of system wherein you use the scooter and then return it to a charging/lock up station. If you don't check it in you get charged additional fees. I see them laying all over the place like litter.
- Don't omit students as key stakeholders. Likewise, don't limit scooter suppliers to Spin; it is not the sole supplier in the region, and singling out Spin is not likely to elicit full cooperation.
- Only if the solution is banning or eliminating the scooters. Otherwise, I side with the people throwing them in the river.
- This group should also discuss ways to enhance the River and make kore usable for families and fishermen.
- To also include Delta Township as these scooters get into the township.
- All parties should come together to work with Spin so that a solution to the problem can be found before punitive measures are necessary.
- Again, all cost should be put on those that profit from the objects in the river.
- A fence on bouge needs to be built, similar to fences on overpasses so things aren't dropped on cars
- Not always students/younger people doing this kind of thing FYI
- Cameras at strategic points, better tracking and record keeping by Spin. What options for its liability to insure responsibility for users causing physical injuries to others and property damages?
- We won't get anywhere with only one organization doing all the work. This is a multi-organization effort that needs to take place and at different levels. Constantly cleaning up the river isn't a solution to the problem either. We need to educate and stop the problem at the source. It will take multiple organizations to clean up this problem.
- As said above but it takes the company of the scooters to provide the data of who had the scooters last.

Q11: AGREE MODERATELY

- Spin needs a plan/contingency plan in place, regulated by federal law.
- I think the DNR or some other State agency should be involved also, since they are given the responsible stewardship of the waters of the State.
- If a student is stupid enough to throw a scooter into the Red Cedar, they don't belong at a university.
- Once again, other organizations should not have to clean up after others, or "teach" others not to trash our river -- but I am thankful that they do.

Q11: NEITHER AGREE OR DISAGREE

- You have no proof that it is only young people though it may be only blaming young people for your problems is a hateful thing because I run a river clean up twice a year full of young people who clean up the river and by pigeonholing the problem as coming from young people you dismiss others young peoples support in cleaning up the river. this is hateful speech.
- Spin is a for-profit entity. They should be responsible for their assets.

Q11: DISAGREE MODERATELY

- I'm not sure why this is anyone's responsibility other than Spin and any entities they contracted with to be here, as well as the riders or other people who did this
- Should be Spin's responsibility

Q11: DISAGREE STRONGLY

- It is only the responsibility of the company, no one else.
- The 1st 4 listed should work together. The Waterways Stewards could be on the sidelines. There are other challenges that the org. should address. Let's not add this to their menu.



#12. Open ended to all survey participants to share any thoughts and opinions.

Please share any thoughts and opinions about this matter or any other waterways environmental matter.

AGREE STRONGLY

- Other organizations have joined with Michigan Waterway Stewards to keep the water and trail clean. However, removing bicycles and motorized scooters need attention. Spin should step up and work together with the city, university, and non-profit organizations to set protocols for their scooter use and return addressing inappropriate dumping to remove the risk of having them end up in our rivers. If this cannot be done, the city and MSU should take action against Spin.
- I was horrified to learn of the scope of the problem!
- I think I was fairly thorough when answering the previous questions.
- It is SHAMEFUL that Spin has allowed this take place
- I would be interested in knowing what their reasoning is on this issue
- SPIN is maximizing profit with the lowest possible investment. The permitting/contracting jurisdictions need to demand that SPIN invest in infrastructure that requires a rack system to which scooters must be returned in order to receive a refund of a substantial deposit. Unclaimed deposits can fund retrieval efforts.
- This would also help remove scooters that are trip hazards when just dropped in public walkways.
- With implementation of the new MSU to Lake Lansing trail it is imperative to get this under control before scooters start showing up abandoned along the trail and in the lake.
- After working on campus for 10 years, it still amazes me how much trash from students (and tailgaters) ends up in river. They need to learn to be more responsible and be held accountable for their mistreatments of our waterways. Thank you for the work you are doing.
- Have any other municipalities (college towns?) in other states encountered the issue of scooters being abandoned in waterways and if they have found ways to mitigate the problem?
- If mobility companies choose not to share location information, the cities/university should take action to compel compliance, up to and including revoking any franchise agreements or ordinances allowing their use.
- It breaks me heart. It's hard to describe my disappointment.
- Ban scooters in Lansing/East Lansing if the provider (Spin) is not willing to come to the table to discuss. Scrap out scooters and don't return to Spin
- I would identify the source of the problem and do more to educate the public of the issue. Who knew this was happening?
- So grateful that this serious threat to our watershed and waterways is being highlighted and addressed. Thank you to all who are involved in solving this problem.
- It is just plain unacceptable that a business strategy is simply to write off lost inventory in spite of environmental consequences.

AGREE STRONGLY continued

- While many strides have been made in the last calendar year, almost exclusively fronted by the MWS, there is work to be done. **I believe community engagement and education is the next big hurdle for MWS to vault as that helps contribute to long-term sustainability and success with stewardship.**
- Also needed: A survey of MSU students to learn when (Saturday night after binge drinking?) and why (didn't want to pay for my use of the scooter?) scooters are thrown into the river. Seems necessary for an effective education campaign.
- College students and others that take part in tossing objects into the river thinks its funny but it is really upsetting—especially to fellow college students and community members who feel very strongly on the cause. It's upsetting to me that my peers are so ignorant that they feel like they can do whatever. And the most annoying part is how they aren't held accountable and thus are able to continue to do it.
- Spin needs to be held accountable for the environmental degradation they cause. MSU and the city of East Lansing should consider cutting ties with Spin if the company continues to remain apathetic. I am thankful for the Michigan Waterways Stewards, and the effort their volunteers have made to clean up the Red Cedar River. Without them, the enormity of the problem may never have been discovered.
- **Remember the Native American crying in the 70's?**
- Spin (and other e-scooter companies) should be held accountable and pay fines for the environmental damage caused by their devices.
- Scooters should always be returned to a locked installation and be the user's responsibility until docked. They should not be able to leave a scooter on a sidewalk, patio, or lawn as we now see happening. Such "abandoned" scooters should bear a service charge and there should be paid company staff who locate and return them to a locked docking station.
- There are more hazards in the bottom of rivers that can't be seen and has been in the water for many years
- fuck spin
- Comments would generally be same for each question other companies must mitigate their pollution so should SPIN and others like them. Unbelievable that they don't want to get their property back.
- **I would also suggest a new pricing model. Very high deposit that they get back. I realize it us a nit of a logistics nightmare.**
- At the very least they should be required to locate and contribute to the recovery.
- I'm grateful your organization cares so much about our waterways. I like to kayak and enjoy the water. Personally I feel MSU needs to stop using the scooters period. Cancel the SPIN contract. Not sure if there are any surveillance cameras around the bridge sites, but if there are, and SPIN can give you the time the scooter went off the grid - you could potentially catch some of them in the act of committing the crime and go after them. If the kids don't respect the scooters, they should be taken away.
- **The University has a responsibility to the community to be good stewards of the land they have been granted, and to advance and educate people about this concern. The University needs to be more proactive at finding a solution to the clean-up effort and at evaluating the companies that they choose to work this for such services.**
- "Michigan State University occupies the ancestral, traditional, and contemporary Lands of the Anishinaabeg–Three Fires Confederacy of Ojibwe, Odawa, and Potawatomi peoples. The University resides on Land ceded in the 1819 Treaty of Saginaw."
- **Like most things in our world, it is a privilege to be able to sell and provide services to our community, and if an entity is unable to protect us from the damage done by its product, that product should no longer be available.** And frankly, I am troubled by the scooters, not just because of their lack of safety on sidewalks, but the amount of damage that could occur to our environment based on the fact that each individual scooter can be afford to be lost by the company, but that every one of them that ends up in our water is toxifying the water that we use for virtually every portion of our society.

AGREE STRONGLY continued

- Thank you for taking this matter to the public. Many of us didn't realize it was possible for so many electronic items to be hidden beneath the water surface
- **Through my years working for the City and involvement with enforcement of property maintenance codes I have long known that large items get thrown into the river. I have observed large items in the river over the years from the some of the properties that back up to the river.**
- I have also been pretty outspoken to the property owners and property managers about the responsibility they have to be good stewards of the river.
- If the Spin scooters and any other scooters cannot be regulated and monitored by the companies that are monetarily benefiting from the use of them in our community then those companies should not do business in our community.
- This effort requires a proactive not a reactive response. I'm sure much of this will be "well its youthful exuberance and victimless." That is until some unsuspecting child or adult falls out of a paddle sport conveyance and doesn't come to the surface because the person has been entangled in a scooter pile or busted up bicycles.
- **Our sidewalks and streets are hazardous thanks to this partnership. Our river is full of junk. How many pedestrians, bikers, and automobile drivers have nearly collided with scooters? How much \$ is MSU making from their arrangement with Spin?** Is it enough to compensate someone who is seriously injured by a scooter driver, or to remediate the trashed Red Cedar? We're hearing so much talk about "safety" on campus, yet MSU supports the use of vehicles without appropriate lanes near pedestrian traffic and alcohol-saturated public events. It's irresponsible. We're constantly being told that we're "going green," but MSU is averting its eyes from a self-imposed ecological nightmare.
- It would be my opinion that most would be vandalism by individuals that did not rent or own the scooters or bikes.
- Thank you for the work the volunteers do and for this survey. I am a bicyclist and have been since I was a child. A large part of my career was spent working to protect and clean up our waterways our environment. Applaud you for your efforts. **An issue that needs to be addressed is educating the individuals who use these bikes.** I know it's not an issue just in Michigan as I've seen the problem elsewhere. I do see these bikes as being a great alternate to people owning vehicles and it's very helpful in that regard. But I do not support recklessness by the individuals, the organizations who are allowing these bikes or the corporate owners of these bikes.
- **Let's not pretend this is some community issue to resolve, this is public dumping and the relevant authorities should be dealing with this asap**
- Individuals who throw these items in the river should be fined and loss the privilege of future use.
- **It is disheartening to see that Spin is taking no action to remedy the problem that is crested by their presence. Given the environmentally sensitive nature of their scooters, they should be fully engaged in life cycle management of their products.**
- Having used a scooter from this company once, and only once, because of the terrible way they are managed, I can offer the following. The rider is unable to end a ride unless at a specific location, that might not be near the actual destination. It then continues to charge you until you find one of those locations which has then taken you out of your way and wasted your time and money. I found the entire process appalling. It was much more rider friendly when the Bird scooters were around.
- Can only how much I appreciate your efforts. Thank you.
- - Put a hold on a card when renting a scooter for the price of the scooter and price of clean up if you do not get the scooter back.
- - Spin should have records of who didn't bring scooters back. Those that didn't should be prosecuted for the price of the scooter and clean up.
- - if Spin isn't willing to help, then their business should be banned.
- **I believe that Spin should bear the greatest responsibility for the damage their scooters are causing.** I don't think they should have the right to leave their private (and commercial) property on public spaces, let alone allow it to pollute our waterways. I doubt it's a profitable company anyway, so hopefully this problem solves itself.

AGREE STRONGLY continued

- This is a no-brainer for me. Spin has access to the last user. Spin can spell out an air-tight rental agreement with any user. The entities which grant a license to e-scooters should also have an air-tight agreement. In the end, the clean-up expenses should rest on the shoulders of the e-scooter operators. They could then chase after the last user to pay.
- You would think the loss of that many scooters would be costly to their company. Wonder if they could put some type of alarm on them that would go off when they hit the water.
- How about surveillance cameras near the bridges?
- **I hope Spin can be forced to release info on number of scooters lost and the location.**
- I would suspect that individuals throwing these items into the river may not be the ones that are checking them out via the app. Have these companies explored using some sort of "black box" video/audio surveillance that could be retrieved to help hold the individuals responsible for these actions accountable?
- **PSA sign's in university classrooms and permanent signs along the river and ridges should be added for education including any fines. Additionally, when starting a new session with a scooter, there could be a quick graphic from Spin showing a NO Tossing in waterways.**
- I feel that Spin contract expire, not allow them to be used on our public areas!!
- Housings and apartments along the river should participate the effort to clean river.
- People dumping any trash should be fined.
- **We all love our rivers and worry about their health and safety.** The concern for the river outweighs the rights of Spin and the students. The health of the rivers and the environment should be our first concern. We have gone years and years without the scooters and without this problem - please get rid of them!!! Ban them!!! Students and Spin have lost their rights to use them. Also, this problem should be addressed at every orientation for incoming students. That and the issue of pollution in general. The campus is awash in trash and plastic!
- Keeping trash out of our rivers is vitally important. Addressing the scooters going to the river is of critical importance.
- A fence on Bouge needs to be built, similar to fences on overpasses so things aren't dropped on cars
- Perhaps trail type cameras could be installed (at a height to discourage removal/destruction) at bridges? With pictures of perpetrators perhaps heavy fines or other penalties would deter this behavior.
- The Lansing Board of Water & Light strongly values environmental stewardship and the sustainability of our communities. We support efforts to keep our surface waters clean through our annual Adopt A River volunteer event and community sponsorships. If you see further opportunities between our municipal utility and this initiative, contact our sustainability administrator at Claire.Drolshagen-Puck@LBWL.com.
- Thanks to Michigan Waterways Stewards for your leadership role in these important efforts!
- I am fairly certain that I spend more time actually on the river (not just looking at the river) than anyone else. I canoe on the Red Cedar regularly. I greatly appreciate all of the support and attention to the problem that Michigan Waterways Stewards has provided.
- Ban scooters from campus. If I was on the City Council, I would move to get them banned from the city as well. They are unnecessary tech whose only value is to make some tech bro rich. At a minimum, they should be banned from sidewalks. They can't be ridden on the street either, so why do they exist? I don't want them on bike paths either because they are a hazard to cyclists. Sadly, this seems to be a way for MSU to make a few dollars and nothing more.
- Our waterways are so important to us here in Michigan. **We think that this is an issue that is close to home, but they are having this same issue in Grand Rapids and other cities.** The Red Cedar River connects to the Grand River which connects to Lake Michigan. We need to keep our rivers clean in order to also keep our Great Lakes clean!

AGREE STRONGLY continued

- Can the City and/or University impose a fine on throwing scooters in the river?
- Water is going to become precious in the future. We need to take care of it sooner than later and before it is too late.
- Line 5 issues not being addressed on a 60-year-old pipeline that has lived past its life expectancy, is truly an accident waiting to happen. When Line 5 bursts because of age issues and spills oil into the Great Lakes the toll on wildlife, fisheries, tourism in Michigan will be extreme. And where will the accountability fall? On the companies in both scenarios but ultimately the expense falling in the laps of the middle class...again.

AGREE MODERATELY

- **Its shocking that in this day and age people still treat rivers like this. Garbage disposal, chemicals in storm water to the river and overall apathy.**
- Look at the quality of the water in many Michigan rivers, its so much better than it used to be, industries made to pollute less (Detroit river and walleye fishing) and even the Grand in Lansing. The Cayahouga River caught fire, as did the Rouge River. Society decided that was not acceptable, but somehow people throwing so many things in the river still happens.
- Keep up the good work!
- Last question tells me you're on the right track. Thanks
- Fuck these stupid e scoots

NEITHER AGREE OR DISAGREE

- I'm a bit disappointed in Michigan Waterways Stewards for formulating questions with summary statements that appear intended to influence survey responses.
- Likewise, I think the repeated references to Spin seriously misplace responsibility in an unhelpful way. The only parties responsible for scooters, bicycles and other manmade objects in the river are the individuals who irresponsibly threw them into the river.
- Finally, I read in the LSJ that MWS is soliciting 100 responses to the survey. 100 survey responses in cities with combined populations exceeding 150,000 and a university with 50,000+ students should not be construed as representative of anything other than the individual opinions of a statistically INSIGNIFICANT number of respondents. The survey would need to collect substantially more responses before any policy makers should take the results of this survey into consideration.

DISAGREE MODERATELY

DISAGREE STRONGLY

- Waterways are certainly important but the business that has the scooters that are the main problem, they should be responsible fir this issue.
- Get rid of the scooters and the problem is solved.



RECOMMENDATIONS



REIMAGINE - REDISCOVER - RECONNECT

We now present the most scenic, varied, pleasant, urban paddling experience in Michigan.

Since October 2022, business and industry, clubs, churches, schools, passionate individuals and with the growing support of government, have come together and the rivers flowing through the greater Lansing/East Lansing metropolitan safe and pleasant for all. For the first time in years, possibly ever, our greater metro area rivers are free of river-wide obstructions.

This is an extraordinary and unique opportunity. Let us:

- Be unapologetic
- Own it
- Protect and build upon it

Let's maintain our forward momentum and do all that we can to maintain our status as being Michigan's best. It is what you would expect of:

- Lansing, our state's capital city
- MSU, our nation's premier land-grant university
- East Lansing, home of MSU





EVERYONE CAN AGREE. WE WANT CLEAN AND SAFE WATERWAYS.

We have unveiled an inconvenient truth. The previously unknown problem of the large amounts of electric scooters being tossed and left abandoned in our rivers, in addition of decades of bicycles and other evidence of urban and campus living.

What sets us apart from prior administrations and environmental stewards is how we:

- Take ownership
- Accept responsibility
- Respond

While our immediate challenge is with Spin lithium ion powered scooters, the name is interchangeable. It could be Lime, Bird, or any other mode of micromobility. Then there is the next soon-to-be released technology that will likely pose a similar challenge, perhaps even worse.

Let's set the stage as to where we are today:

- It was only by chance that we discovered the enormity of the problem of scooters and bicycles being tossed and abandoned in our rivers.
- Spin, the area's large micromobility provider, has been uncooperative in providing:
 - The number of scooters lost to our rivers
 - The location of their abandoned and inoperable scooters lost our rivers
 - Support to retrieve their lost inventory

Spin's practice has been to deflect and to dismiss. Hardly the traits expected of a community partner and global leader passionate about sustainability. While we can only guess as to their motivation, we suspect the two primary drivers are:

- Worry of brand impairment
- Impact to their bottom line





INACTION IS NOT AN OPTION

As we all wish to have safe, clean, and navigable waterways, we all have a responsibility to protect and improve them for the benefit of current and future generations. Based on the answers given and comments made in the August 2023 - Michigan Waterways Stewards Environmental Survey, our respondents and constituents are wanting and expecting a solution.

As attempts to engage and work with Spin, we must work around them. In attempt to improve focus and simplify the process we have identified four core components to slow and stop these types of incidents from continuing:

- Awareness
- Deterrence
- Enforcement
- **Retrieval**

We currently find ourselves in the area of the fourth, **retrieval**. This is the most costly, ineffective, and labor intensive (dangerous) method of managing this problem. We must shift our focus toward the first two; awareness and deterrence. This is where the greatest, most effective, and sustainable win is.



BE STRATEGIC IN APPROACH WHILE REMAINING OPPORTUNISTIC

Creating a Cross Functional and Collaborative Team

It is always desirable to be collaborative in approach. Creating a cross functional team consisting of experts, industry leaders, and influencers improves thinking, understanding, and acceptance. We must be mindful of the need to act quickly and understand that we will continue to improve on any campaign over time and as additional learnings are made.

Steps to create a cross functional team have begin as of the week beginning September 4. Representation includes members from Rotary of East Lansing, MSU Rotoract Club, MSU students, and Michigan Waterways Stewards. We are seeking greater representation from business (including Spin, Lime, or Bird), schools, clubs, government, and from a broader geography (specifically Lansing).

Desirable member traits include:

- Like-minded: Community oriented and environmentally minded
- Expert: Subject matter expertise in areas of strategy, marketing, communications, environment, and regulatory/law
- Entrepreneurial: Creative, collaborative, innovative, and results driven
- Influencers: Business, government, community, clubs, and social groups

It is amazing the joy and ease in which we can accomplish great things when working together.



STEP 1: BUILDING AWARENESS

Caring for our treasured and vulnerable waterways should be ongoing.

Building Awareness

Considerable progress has been made to heighten awareness of this problem. We have benefited from:

- Media: television, print and on-line, and radio
- Social Media
- Direct Outreach: newsletters, surveys, and personal presentations

But, those most effective campaigns are those which have broad reach, are frequent, and influence decision making at the moment of truth, the point of purchase.

Suggested Awareness Building Campaigns

- MSU and LCC student orientation, handbooks, and programs
- University, college, township, environmental agency or organizations websites and social media
- Public Service Announcements (PSAs) in student halls, dormitories, multi-unit housing, bicycle shops, sporting events
- Point-of-Sale (POS): Spin, Lime, and Bird apps
- On Product: Scooters and bicycles (part of required annual registration)
- Signage at bridges and mass transit hubs