

# Municipal Mitigation Strategy Worksheet

Sept. 2021

- Use this worksheet to develop a mitigation strategy for your municipality.
- Use a separate worksheet for each mitigation strategy.
- **By TH Oct. 21**, submit all *mitigation strategy worksheets* in MS WORD format to [mclellan@countyofdane.com](mailto:mclellan@countyofdane.com) and [husen.sara@countyofdane.com](mailto:husen.sara@countyofdane.com) .

<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Emergency power for critical facilities and services</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	<b>Critical Facilities Protection</b>
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Provide emergency back-up power to critical emergency services and public works facilities including but not limited to fire stations, police stations, communication towers, and lift stations. During severe weather and power interruptions, it is imperative that essential City facilities have back-up power generators to ensure that essential services and communications are maintained without interruption. While many facilities buildings have now been equipped for this, some still remain and this remains a key strategy. Grant funding would be very useful for completing this strategy.	
<b>Define the steps to achieving this mitigation strategy</b>		
<p>1. Develop a prioritized list of City facilities based on criticality of need for emergency back-up power during severe weather and power interruptions.</p> <p>a. <i>Responsible Party</i> – City of Madison Engineering</p> <p>b. <i>Funding source</i> – City of Madison</p> <p>c. <i>Completion date</i> – January 2022</p>		
<p>2. Conduct site visits to develop a comprehensive inventory of existing emergency back-up power generators, map circuits and functional areas served by existing equipment and assess current condition.</p> <p>a. <i>Responsible Party</i> – City of Madison Engineering</p> <p>b. <i>Funding source</i> – City of Madison</p> <p>c. <i>Completion date</i> – June 2022</p>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Emergency power for critical facilities and services</b>
<p>3. Inventory and assess the power use of existing equipment, complete a power generator load study to determine the most economical, reliable and efficient solution for each facility.</p> <p>a. <i>Responsible Party</i> – City of Madison Engineering</p> <p>b. <i>Funding source</i> – City of Madison</p> <p>c. <i>Completion date</i> – December 2022</p>	
<p>4. Design, procurement, and installation.</p> <p>a. <i>Responsible Party</i> – City of Madison Engineering</p> <p>b. <i>Funding source</i> – City of Madison, FEMA Hazard Mitigation Grant Program</p> <p>c. <i>Completion date</i> – December 2027</p>	
<p>5. Train facilities maintenance personnel on proper operation and maintenance.</p> <p>a. <i>Responsible Party</i> – City of Madison Engineering</p> <p>b. <i>Funding source</i> – City of Madison, FEMA Hazard Mitigation Grant Program</p> <p>c. <i>Completion date</i> – December 2027</p>	

2023 Dane County Local Hazard Mitigation Plan Update

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>University Ave Flood Mitigation</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	<b>Property Protection</b>	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents and local businesses, and to increase passability of arterial streets by emergency vehicles during large flood events. Improvements to the University Ave corridor storm sewer infrastructure to increase conveyance would reduce risk of private property flooding adjacent to University Ave, making it less likely that private structures will flood in mid-sized storm events.</p> <p>The project would also reduce the depth and frequency of flooding on University Ave, a major east-west corridor through the City that serves several neighborhoods, the University of Wisconsin – Madison, and perhaps most critically, the UW Hospital complex, a major area health center. Currently, the road floods and becomes impassible in relatively small rain events (down to the 5-year event). This project will help keep residents safe as they travel across the City, and improve emergency response times during flood events.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>University Ave Flood Mitigation</b>
<b>6. Complete detailed design and permitting</b> a. <i>Responsible Party</i> – City of Madison Engineering b. <i>Funding source</i> – Municipal Budget c. <i>Completion date</i> – Complete within 2.0 years of project initiation.	
<b>7. Seek public feedback on design</b> d. <i>Responsible Party</i> – City of Madison Engineering e. <i>Funding source</i> – Municipal Budget f. <i>Completion date</i> – Complete within first year of project initiation.	
<b>8. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b> g. <i>Responsible Party</i> – City of Madison Engineering h. <i>Funding source</i> – Municipal Budget i. <i>Completion date</i> – Complete within 2.0 years of project initiation.	
<b>9. Implementation process/construction after awarded grant is received.</b> a. <i>Responsible Party</i> – General Contractor per competitive bidding process b. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget c. <i>Completion date</i> – 2-4 years after project initiation.	
10. d. <i>Responsible Party</i> – e. <i>Funding source</i> – f. <i>Completion date</i> –	

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>University Ave Flood Mitigation</b>
11. d. <i>Responsible Party</i> – e. <i>Funding source</i> – f. <i>Completion date</i> –	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>West Towne Pond Expansion</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	<b>Property Protection</b>	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents, and the West Towne Pond expansion project would reduce flood risk to adjacent properties by providing sufficient flood storage within in the pond up to the 1% chance storm.</p> <p>The project would also reduce the depth and frequency of arterial street flooding on Mineral Point Road, Gammon Road and Odana Road that currently flood frequently, and to impassible depths during large events. The pond project will help keep residents safe as they travel across the City, and improve emergency response times during flood events. Additionally, it would allow for access to the high school, middle school, and neighboring childcare facilities.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		
<p><b>12. Complete detailed design and permitting</b></p> <ul style="list-style-type: none"><li>a. <i>Responsible Party</i> – City of Madison Engineering</li><li>b. <i>Funding source</i> – Municipal Budget</li><li>c. <i>Completion date</i> – Complete within 1.5 years of project initiation.</li></ul>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>West Towne Pond Expansion</b>
<b>13. Seek public feedback on design</b> j. <i>Responsible Party</i> – City of Madison Engineering k. <i>Funding source</i> – Municipal Budget l. <i>Completion date</i> – Complete within first year of project initiation.	
<b>14. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b> m. <i>Responsible Party</i> – City of Madison Engineering n. <i>Funding source</i> – Municipal Budget o. <i>Completion date</i> – Complete within 1.5 years of project initiation.	
<b>15. Implementation process/construction after awarded grant is received.</b> d. <i>Responsible Party</i> – General Contractor per competitive bidding process e. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget f. <i>Completion date</i> – 2-4 years after project initiation.	
16. g. <i>Responsible Party</i> – h. <i>Funding source</i> – i. <i>Completion date</i> –	
17. g. <i>Responsible Party</i> – h. <i>Funding source</i> – i. <i>Completion date</i> –	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Emergency Action Plans</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>Everyone has the right to know where and when to shelter or evacuate during an emergency. The action plan would go over routes to take, where to shelter, where not to shelter, evacuations, safe practices, etc.</p> <p>The desired outcome would be a better overall knowledge and sense of confidence when an event occurs.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		
<p><b>18. Make Emergency Evacuation Maps of all City owned Buildings</b></p> <p>a. <i>Responsible Party</i> – Risk Management</p> <p>b. <i>Funding source</i> – N/A</p> <p>c. <i>Completion date</i> – 2025</p>		
<p><b>19. Display finished Emergency Maps</b></p> <p>p. <i>Responsible Party</i> – Facilities/Engineering/Risk</p> <p>q. <i>Funding source</i> – N/A, but maybe the Budget</p> <p>r. <i>Completion date</i> – After maps are done</p>		



<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Emergency Action Plans</b>
<b>20. Train Employees/Public on Emergency Plans</b> g. <i>Responsible Party</i> – Risk/help from L&D h. <i>Funding source</i> – N/A i. <i>Completion date</i> – Ongoing	
21. j. <i>Responsible Party</i> – k. <i>Funding source</i> – l. <i>Completion date</i> –	
22. j. <i>Responsible Party</i> – k. <i>Funding source</i> – l. <i>Completion date</i> –	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Storm Shelter(s)</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Three mobile home communities are located in the city. Due to the limited protection provided by a mobile home during a tornado, those residents are at greater risk of injury and death. The same is true for homeless people and those living at the Dairy Drive encampment. FEMA approved storm shelters are necessary to protect residents during extreme wind events.	
<b>Define the steps to achieving this mitigation strategy</b>		
<p>23. Determine best location(s) for community storm shelter(s).</p> <p>a. <i>Responsible Party</i> – Emergency Management Coordinator</p> <p>b. <i>Funding source</i> – City budget</p> <p>c. <i>Completion date</i> – January of 2023</p>		
<p>24. Acquire land for construction of storm shelter(s)</p> <p>s. <i>Responsible Party</i> – City Real Estate and City Engineering</p> <p>t. <i>Funding source</i> – City Budget</p> <p>u. <i>Completion date</i> – June of 2024</p>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Storm Shelter(s)</b>
25. Design storm shelter(s) j. <i>Responsible Party</i> – City Engineering k. <i>Funding source</i> – City Budget and Hazard mitigation Grant Funds l. <i>Completion date</i> – To be determined	
26. Construct storm shelter(s) m. <i>Responsible Party</i> – City Engineering n. <i>Funding source</i> – City budget and hazard mitigation grant funds o. <i>Completion date</i> – To be determined	
27. m. <i>Responsible Party</i> – n. <i>Funding source</i> – o. <i>Completion date</i> –	

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<b>Municipality</b>	<b>City of Madison Water Utility</b>	
<b>Mitigation Strategy Name</b>	<b>SCADA-MWU Emergency Generator Monitoring and fueling</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	This will enable the system Operator to monitor the generator status and fuel levels for MWU owned Emergency Generators using our SCADA System. A second goal is in the event of widespread power outage we need to modify current security measures to allow our fuel vendor to daily auto fill our generators with fuel during an emergency, without the need to contact MWU.	
<b>Define the steps to achieving this mitigation strategy</b>		
28. Connecting all MWU Emergency generators to the SCADA system for monitoring purposes.  a. <i>Responsible Party</i> – MWU Supply and Operations as well as NCummins  b. <i>Funding source</i> – Operating budget  c. <i>Completion date</i> – 7-1-2022		

<b>Municipality</b>	<b>City of Madison Water Utility</b>
<b>Mitigation Strategy Name</b>	<b>SCADA-MWU Emergency Generator Monitoring and fueling</b>
<p>29. Establish security protocols and an Emergency fuel provider contract</p> <ul style="list-style-type: none"> <li>v. <i>Responsible Party</i> – MWU Operations and Supply</li> <li>w. <i>Funding source</i> – Operating budget</li> <li>x. <i>Completion date</i> – This will be completed once the generator monitoring and security protocols have been established and an Emergency fuel provider contract has been awarded.</li> </ul>	
<p>30.</p> <ul style="list-style-type: none"> <li>m. <i>Responsible Party</i> –</li> <li>n. <i>Funding source</i> –</li> <li>o. <i>Completion date</i> –</li> </ul>	
<p>31.</p> <ul style="list-style-type: none"> <li>p. <i>Responsible Party</i> –</li> <li>q. <i>Funding source</i> –</li> <li>r. <i>Completion date</i> –</li> </ul>	
<p>32.</p> <ul style="list-style-type: none"> <li>p. <i>Responsible Party</i> –</li> <li>q. <i>Funding source</i> –</li> <li>r. <i>Completion date</i> –</li> </ul>	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Forsythia Place Floodwall</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents, and the Forsythia Place floodwall project would reduce flood risk to adjacent properties by preventing flooding up to the 1% chance storm.</p> <p>The project would include creating a channel to direct stormwater from the north/south Park Division property line along Elder Place and Forsythia Place to the major stormwater system. The project would also build a floodwall along the major stormwater channel that would be high enough to prevent flooding of homes along Forsythia Place and Bordner Drive in the 1% chance event.</p> <p>The project will also help keep residents safe as they travel through their neighborhood, and improve emergency response times during flood events. Additionally, it would allow for access to the public housing facilities that currently flood in the 1% chance event.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Forsythia Place Floodwall</b>
<b>33. Complete detailed design and permitting</b> a. <i>Responsible Party</i> – City of Madison Engineering b. <i>Funding source</i> – Municipal Budget c. <i>Completion date</i> – Complete within 1.5 years of project initiation.	
<b>34. Seek public feedback on design</b> y. <i>Responsible Party</i> – City of Madison Engineering z. <i>Funding source</i> – Municipal Budget aa. <i>Completion date</i> – Complete within first year of project initiation.	
<b>35. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b> bb. <i>Responsible Party</i> – City of Madison Engineering cc. <i>Funding source</i> – Municipal Budget dd. <i>Completion date</i> – Complete within 1.5 years of project initiation.	
<b>36. Implementation process/construction after awarded grant is received.</b> p. <i>Responsible Party</i> – General Contractor per competitive bidding process q. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget r. <i>Completion date</i> – 2-4 years after project initiation.	
<b>37.</b> s. <i>Responsible Party</i> – t. <i>Funding source</i> – u. <i>Completion date</i> –	

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Forsythia Place Floodwall</b>
38. s. <i>Responsible Party</i> – t. <i>Funding source</i> – u. <i>Completion date</i> –	



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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Frisch Rd.-Tottenham Rd. Box Culvert</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	<b>Property Protection</b>	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents, and the Frisch Rd and Tottenham Rd box culvert upgrades would significantly reduce street flooding and structural flooding during the 10% chance storm in this area. Such improvements would also help reduce flooding during the 1% chance storm.</p> <p>The project would include upsizing the box culverts at street crossings to allow for improved conveyance downstream. This effort, combined with improvements in the local storm sewer, would significantly reduce flood risk of the 24 homes that currently flood in the 1% chance storm.</p> <p>The project will also help keep residents safe as they travel through their neighborhood, and improve emergency response times during flood events where impassible flood water is present for several hours.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		
<p><b>39. Complete detailed design and permitting</b></p> <p>a. <i>Responsible Party</i> – City of Madison Engineering</p> <p>b. <i>Funding source</i> – Municipal Budget</p> <p>c. <i>Completion date</i> – Complete within 1.5 years of project initiation.</p>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Frisch Rd.-Tottenham Rd. Box Culvert</b>
<p><b>40. Seek public feedback on design</b></p> <p>ee. <i>Responsible Party</i> – City of Madison Engineering</p> <p>ff. <i>Funding source</i> – Municipal Budget</p> <p>gg. <i>Completion date</i> – Complete within first year of project initiation.</p>	
<p><b>41. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b></p> <p>hh. <i>Responsible Party</i> – City of Madison Engineering</p> <p>ii. <i>Funding source</i> – Municipal Budget</p> <p>jj. <i>Completion date</i> – Complete within 1.5 years of project initiation.</p>	
<p><b>42. Implementation process/construction after awarded grant is received.</b></p> <p>s. <i>Responsible Party</i> – General Contractor per competitive bidding process</p> <p>t. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget</p> <p>u. <i>Completion date</i> – 2-4 years after project initiation.</p>	
<p>43.</p> <p>v. <i>Responsible Party</i> –</p> <p>w. <i>Funding source</i> –</p> <p>x. <i>Completion date</i> –</p>	
<p>44.</p> <p>v. <i>Responsible Party</i> –</p> <p>w. <i>Funding source</i> –</p> <p>x. <i>Completion date</i> –</p>	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>General Flooding Storm Improvements</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	<b>Property Protection</b>	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents, and is currently developing watershed studies that lay out storm sewer system upgrades that will build flood resilience citywide. Each year, the city will upsize stormwater infrastructure along with street reconstruction projects per what is defined within the watershed studies. The City will also complete non-street related flood mitigation projects as budgeting allows. The flood mitigation projects will be prioritized in part based on where the flood risk is the greatest, and where there are vulnerable residents and facilities.</p> <p>By working to implement the master plans established by the watershed studies, the City will begin to reduce the amount of homes that flood in the 1% chance storm, and keep streets passible by emergency vehicles in up to the 4% chance event.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		
<b>45. Complete detailed design and permitting</b>		
a. <i>Responsible Party</i> – City of Madison Engineering		
b. <i>Funding source</i> – Municipal Budget		
c. <i>Completion date</i> – Complete within 1.5 years of project initiation.		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>General Flooding Storm Improvements</b>
<p><b>46. Seek public feedback on design</b></p> <p>kk. <i>Responsible Party</i> – City of Madison Engineering</p> <p>ll. <i>Funding source</i> – Municipal Budget</p> <p>mm. <i>Completion date</i> – Complete within first year of project initiation.</p>	
<p><b>47. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b></p> <p>nn. <i>Responsible Party</i> – City of Madison Engineering</p> <p>oo. <i>Funding source</i> – Municipal Budget</p> <p>pp. <i>Completion date</i> – Complete within 1.5 years of project initiation.</p>	
<p><b>48. Implementation process/construction after awarded grant is received.</b></p> <p>v. <i>Responsible Party</i> – General Contractor per competitive bidding process</p> <p>w. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget</p> <p>x. <i>Completion date</i> – 2-4 years after project initiation.</p>	
<p>49.</p> <p>y. <i>Responsible Party</i> –</p> <p>z. <i>Funding source</i> –</p> <p>aa. <i>Completion date</i> –</p>	
<p>50.</p> <p>y. <i>Responsible Party</i> –</p> <p>z. <i>Funding source</i> –</p> <p>aa. <i>Completion date</i> –</p>	

2023 Dane County Local Hazard Mitigation Plan Update

## Municipal Mitigation Strategy Worksheet

Sept. 2021

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Gettle Ave Box Culvert</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	<b>Property Protection</b>	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents, and the Gettle Ave Box Culvert upsizing project would reduce flood risk to adjacent properties by significantly reducing the flood depths around homes and significantly reduce the number of homes that flood during the 1% chance storm.</p> <p>The project would include upsizing the Gettle Ave box culvert to allow for all of the floodwater running through Bordner Park to enter the box culvert and prevents backups and surcharging of the storm sewer.</p> <p>The project will also help keep residents safe as they travel through their neighborhood, and improve emergency response times during flood events.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		
<p><b>51. Complete detailed design and permitting</b></p> <p>a. <i>Responsible Party</i> – City of Madison Engineering</p> <p>b. <i>Funding source</i> – Municipal Budget</p> <p>c. <i>Completion date</i> – Complete within 1.5 years of project initiation.</p>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Gettle Ave Box Culvert</b>
<b>52. Seek public feedback on design</b> qq. <i>Responsible Party</i> – City of Madison Engineering rr. <i>Funding source</i> – Municipal Budget ss. <i>Completion date</i> – Complete within first year of project initiation.	
<b>53. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b> tt. <i>Responsible Party</i> – City of Madison Engineering uu. <i>Funding source</i> – Municipal Budget vv. <i>Completion date</i> – Complete within 1.5 years of project initiation.	
<b>54. Implementation process/construction after awarded grant is received.</b> y. <i>Responsible Party</i> – General Contractor per competitive bidding process z. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget aa. <i>Completion date</i> – 2-4 years after project initiation.	
55. bb. <i>Responsible Party</i> – cc. <i>Funding source</i> – dd. <i>Completion date</i> –	
56. bb. <i>Responsible Party</i> – cc. <i>Funding source</i> – dd. <i>Completion date</i> –	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Odana Pond Reconstruction</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	<b>Natural Resource Protection</b>
	<b>Property Protection</b>	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents, Enhance Wetland functionality and lessen downstream flooding. The Odana Ponds reconstruction project would reduce flood risk to adjacent properties by providing sufficient flood storage to keep the 1% storm from inundating surrounding homes maintaining the existing peak discharge rate.</p> <p>The project would also reduce the depth and frequency of residential street flooding on Dearholt Rd and Milward Drive that currently flood frequently, and to impassible depths during large events. The pond project will help protect resident's property and improve travel on the residential streets.</p> <p>The last component of this project is to provide natural resource protection. Odana Pond is a shallow kettle pond and the ecological function of the pond has been degraded due to stormwater. The pond retrofit will enhance emergent vegetation zones, provide areas for sediment removal and improve the habitat in the pond.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Odana Pond Reconstruction</b>
<b>57. Complete detailed design and permitting</b> a. <i>Responsible Party</i> – City of Madison Engineering b. <i>Funding source</i> – Municipal Budget c. <i>Completion date</i> – Complete within 4 years of project initiation.	
<b>58. Seek public feedback on design</b> ww. <i>Responsible Party</i> – City of Madison Engineering xx. <i>Funding source</i> – Municipal Budget yy. <i>Completion date</i> – Complete within first two years of project initiation.	
<b>59. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b> zz. <i>Responsible Party</i> – City of Madison Engineering aaa. <i>Funding source</i> – Municipal Budget bbb. <i>Completion date</i> – Complete within 3 years of project initiation.	
<b>60. Implementation process/construction after awarded grant is received.</b> bb. <i>Responsible Party</i> – General Contractor per competitive bidding process cc. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget dd. <i>Completion date</i> – 4-5 years after project initiation.	
61. ee. <i>Responsible Party</i> – ff. <i>Funding source</i> – gg. <i>Completion date</i> –	



<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Odana Pond Reconstruction</b>
62.  ee. <i>Responsible Party</i> –  ff. <i>Funding source</i> –  gg. <i>Completion date</i> –	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Old Sauk Trails Business Park Ponds</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	<b>Prevention</b>	Natural Resource Protection
	<b>Property Protection</b>	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>The City of Madison is working to mitigate flood impacts on residents, and the Old Sauk Trails Business Park Ponds reconstruction project would reduce flood risk to adjacent properties by providing sufficient flood storage within in the pond up to the 1% chance storm.</p> <p>The project would also reduce the depth and frequency of arterial street flooding on Deming Way, Excelsior Drive, and Fourier Drive that currently flood frequently, and to impassible depths during large events. The pond project will help keep residents safe as they travel through the business park City, and improve emergency response times during flood events. There are childcare and healthcare facilities within the business park and this project would improve travel to/from those facilities.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		
<p><b>63. Complete detailed design and permitting</b></p> <ul style="list-style-type: none"> <li>a. <i>Responsible Party</i> – City of Madison Engineering</li> <li>b. <i>Funding source</i> – Municipal Budget</li> <li>c. <i>Completion date</i> – Complete within 1.5 years of project initiation.</li> </ul>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Old Sauk Trails Business Park Ponds</b>
<p><b>64. Seek public feedback on design</b></p> <p>ccc. <i>Responsible Party</i> – City of Madison Engineering</p> <p>ddd. <i>Funding source</i> – Municipal Budget</p> <p>eee. <i>Completion date</i> – Complete within first year of project initiation.</p>	
<p><b>65. Grant writing to FEMA – Pre-Disaster Mitigation Grant Program, Wisconsin DNR, Dane County, and other applicable parties</b></p> <p>fff. <i>Responsible Party</i> – City of Madison Engineering</p> <p>ggg. <i>Funding source</i> – Municipal Budget</p> <p>hhh. <i>Completion date</i> – Complete within 1.5 years of project initiation.</p>	
<p><b>66. Implementation process/construction after awarded grant is received.</b></p> <p>ee. <i>Responsible Party</i> – General Contractor per competitive bidding process</p> <p>ff. <i>Funding source</i> – FEMA, DNR, Dane County, City of Madison Municipal Budget</p> <p>gg. <i>Completion date</i> – 2-4 years after project initiation.</p>	
<p>67.</p> <p>hh. <i>Responsible Party</i> –</p> <p>ii. <i>Funding source</i> –</p> <p>jj. <i>Completion date</i> –</p>	
<p>68.</p> <p>hh. <i>Responsible Party</i> –</p> <p>ii. <i>Funding source</i> –</p> <p>jj. <i>Completion date</i> –</p>	

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<b>Municipality</b>	<b>City of Madison</b>	
<b>Mitigation Strategy Name</b>	<b>Debris collection site</b>	
<b>Mitigation strategy goal</b>		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	<b>Critical Facilities Protection</b>
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	<p>Natural hazards can create significant amounts of debris, from construction materials to downed trees and limbs. Further snow events often require hauling to offsite location from locations near downtown due to limited storage creating vision hazards for pedestrians, bikes and autos.</p> <p>The city needs a site to collect debris. A perfect site would be a fenced hard surface, minimum 3 acres with electric service and located within 6 miles of the State Capitol.</p>	
<b>Define the steps to achieving this mitigation strategy</b>		
<p>69. Identify three potential properties that can be used as debris collection sites. Conduct feasibility study and solicit neighborhood input.</p> <p>a. <i>Responsible Party</i> – Streets and Real Estate</p> <p>b. <i>Funding source</i> – City Budget</p> <p>c. <i>Completion date</i> – October 2023</p>		
<p>70. Purchase the selected property</p> <p>iii. <i>Responsible Party</i> – City Real Estate</p> <p>jjj. <i>Funding source</i> – City budget and hazard mitigation funds</p> <p>kkk. <i>Completion date</i> – January 2025</p>		

<b>Municipality</b>	<b>City of Madison</b>
<b>Mitigation Strategy Name</b>	<b>Debris collection site</b>
71. Design and bid site work. Obtain city approvals. hh. <i>Responsible Party</i> – Streets, City Engineering, City Real Estate, Zoning ii. <i>Funding source</i> – City budget jj. <i>Completion date</i> – July 2025	
72. Site improvements kk. <i>Responsible Party</i> – City Engineering ll. <i>Funding source</i> – City budget mm. <i>Completion date</i> – November 2025	
73. kk. <i>Responsible Party</i> – ll. <i>Funding source</i> – mm. <i>Completion date</i> –	