

### Memorandum

**To** Peoria County Multi-Jurisdictional Multi-Hazard

Mitigation Planning Committee (HMPC)

From Cindy Popplewell

Tel / Email (303) 704-8939 / cindy.popplewell@wsp.com

**Date** March 15, 2023

Subject Minutes from Peoria County Multi-Jurisdictional Multi-Hazard Mitigation

Plan Update – MEETING #3 Mitigation Strategy

This memorandum presents the meeting minutes from the March 15, 2023, meeting for the *Peoria County Multi-Jurisdictional Multi-Hazard Mitigation Plan* Update. It provides a review of the planning process and progress, recap of the hazard identification and risk assessment, review of mitigation goals, and mitigation plan update and mitigation ideas.

### **Attendees**

Last Name	First Name	Organization				
Abi-Akar	Reema	Tri-County Regional Planning Commission				
Braun	Andrew	Peoria County				
Bruner	Michael	Tri-County Regional Planning Commission				
Leach	Tim	Greater Peoria Sanitary District				
Marks	Jason	Director of Emergency Management, Peoria County EMA				
McLaren	Amy	Peoria County				
O'Neal	Tony (virtual)	Crisis Management Group, Ameren Illinois				
Orr	Roger (virtual)	Street Superintendent, Village of Hanna City				
Blumenshine	Joyce	Sierra Club				
Nelson	Larry	City of Bartonville				
Smith	Kyle	American Water				
Marfell	David	American Water				
Krider	Kinga	West Peoria				



### Goals

The goals of the 2018 State of Illinois Hazard Mitigation Plan, the 2018 Peoria County Hazard Mitigation Plan, and the 2019 Tri-County Hazard Mitigation Plan were reviewed. The following updated goals were agreed upon by the HMPC:

# Goal 1: Reduce the vulnerability of current and future people, property, and environment of Peoria County from the effects of natural and man-made hazards.

- Strengthen protection of critical facilities and infrastructure to create a safer, more sustainable community.
- Build and support local capabilities to respond and recovery from natural and man-made hazard events.
- Increase the local floodplain management activities and participation in the NFIP.
- Protect community historic/cultural/environmental resources from identified natural and man-made hazards

Goal 2: Enhance public education programs to raise awareness of and preparedness for hazard events.

Goal 3: Improve and coordinate mitigation activities with surrounding communities, non-profits, and private businesses.

Goal 4 - Incorporate natural and man-made hazard mitigation into community plans, regulations and activities.

# **Mitigation Actions**

The HMPC Committee discussed the development of new mitigation actions utilizing the following criteria:

- Must have two actions for every high and moderate priority hazard
  - "All hazards" actions count as one project for each hazard
  - Emergency Services actions do not count toward this requirement
- Must have at least one Structural or Property Protection action
- CRS communities should have actions in 5 of the 6 FEMA mitigation categories to maximize credit

FEMA's Mitigation ideas guidance document was provided as a reference with example mitigation projects. A variety of mitigation ideas was then presented to the HMPC for each of the hazard types.

# Next Steps

### **HMPC Members/Attendees**

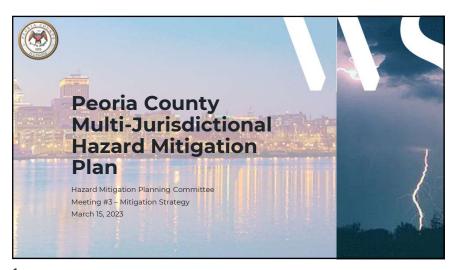
- Review draft documents once received from WSP.
- Finalize and prioritize Mitigation Actions

### **WSP**

Finalize Draft Document

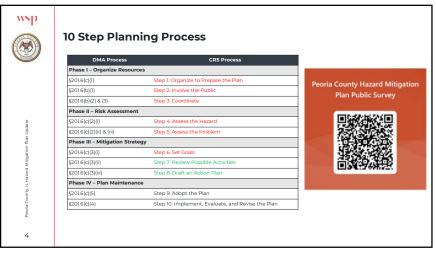


# Attachment A – Powerpoint Presentation











### Phase II: Risk Assessment

**Hazards Profiled** Dam/Levee Failure Drought Earthquake Extreme Temperatures Land Subsidence/Sinkhole Landslide Severe Thunderstorm (hail, lightning, and wind) Severe Winter Storms Tornado Wildfire Hazardous Materials Incidents Terrorism Event Active Shooter

### **Profile the Hazards:**

- · Hazard Description
- · Geographic Location
- · Magnitude/Severity
- · Past Occurrences
- · Probability of Future Occurrence
- · Future Conditions

1150



- Hazard Description
- Geographic Location
- High (18) More than 25% of population
- Medium (12) 10 to 25% of population
- Low (6) less than 10% of population

### Magnitude/Severity

- High (18) 5+ fatalities, property destroyed/damaged (\$15,000,000), or 3+ days of shutdown for essential facilities.
- Medium (12) Serious injuries (more than 50), property destroyed/damaged (\$1M to \$15M), or 24-72 hrs of shutdown for essential facilities.
- (6) Minor injuries (under 50), property destroyed/damaged (under \$1M), or less than 24 hr shutdown for essential facilities

Planning Significance

Low - 0 to 12 points

Severe - 49 to 60 points

Elevated - 25 to 36 points

Guarded – 13 to 24 points

High - 37 to 48 points

Past Occurrences

### Probability of Future Occurrence

- High (18) More than 60 occurrences Medium (12) - 13 to 60 occurrences
- Low (6) 0 to 12 occurrences
- Future Conditions

6

8



### **Hazard Summary**



Land Subsidence Medium Low Low Landslide Medium Dam/Levee Failure Drought Terrorism Events Active Shooter Hazardous Materials Incidents Medium Extreme Temperatures Flood Medium High High Severe Thunderstorms Medium High High High Medium High Severe Winter Storm Medium

## 2023 Peoria County Mitigation Goals



- Strengthen protection of critical facilities and infrastructure to create a safer, more sustainable community.
- Build and support local capabilities to respond and recovery from natural and man-made hazard events.
- Increase the local floodplain management activities and participation in the NFIP.
- Protect community historic/cultural/environmental resources from identified natural and man-made hazards

Goal 2: Enhance public education programs to raise awareness of and preparedness for hazard events.

Goal 3: Improve and coordinate mitigation activities with surrounding communities, non-profits, and private businesses.

Goal 4 - Incorporate natural and man-made hazard mitigation into community plans, regulations and activities.

### **Mitigation Action Plan Requirements**

- Must have two actions for every high and moderate priority hazard
  - "All hazards" actions count as one project for each hazard
  - Emergency Services actions do not count toward this requirement
- Must have at least one Structural or Property Protection action
- CRS communities should have actions in 5 of the 6 FEMA mitigation categories to maximize credit

# FEMA Mitigation Categories:

- Prevention
- Property Protection
- Natural Resource
   Protection
- Structural Projects
- Emergency Services
- Public Education & Awareness

wsp

### **Mitigation Action Plan Requirements**



Scoring Example

	Severe Winter Storms	Tornado	Severe Thunderstorms	Flood	Extreme Temperatrues	Drought	Dam/Levee Failure	Landslide	Land Subsidence	Wildfire	Earthquake	Hazardous Materials Incidents	Active Shooter	Terrorism	All Hazard
Bartonville	1	1		7	1				2						4
Chillicothe				8											5
Greater Peoria Sanitary District				3			3	1	1						1
Hanna City		1		4		1									7
City of Peoria				5			1								7
Peoria Heights				8											5
Peoria County	1			14		1	3		1		1	1			14

9





### Mitigation Ideas

- FEMA resource
- Provides example mitigation actions for 16 natural hazards
- Actions are categorized into four types:
  - Local Planning & Regulations
  - Structure & Infrastructure Projects
  - Natural Systems Protection
  - Education & Awareness Programs



Plan Update

# usb

10

### Mitigation Ideas - Multi-Hazard Actions

- Limit or regulate development in high-hazard areas:
  - Encourage cluster development to position lots outside hazard areas
  - Prohibit capital improvements or critical facilities development in hazard areas
  - Protect hazard areas with conservation easements
  - Designate hazard areas and development restrictions in the zoning ordinance
  - Develop a post-disaster redevelopment plan and/or post-disaster recovery ordinance
- Create local funding mechanisms for mitigation
- Install backup generators for critical facilities
- Create a public education campaign

12

11 12

### wsp



ard Mitigation Plan Upda

13

13

### Mitigation Ideas - Severe Winter Weather

- · Installing redundancies and loopfeeds.
- Ensuring the development and enforcement of building codes for roof snow loads.
- Retrofitting public buildings to withstand snow loads and prevent roof collapse.
- Identifying specific at-risk populations that may be exceptionally vulnerable in the event of long-term power outages.

 Including safety strategies for severe weather in driver education classes and materials. wsp

14

### Mitigation Ideas - Tornado

• Require wind-resistant building techniques such as structural bracing, straps and clips, anchor bolts, etc.

 Encourage construction of safe rooms at manufactured home parks, fairgrounds, shopping malls, and other vulnerable public structures



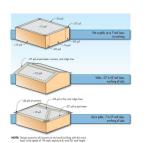
### usp



Encourage structural bracing, shutters, laminated

Mitigation Ideas - Severe Thunderstorms

- glass, hail resistant roof coverings and sheathing
- Install lightning rods and grounding on communication infrastructure and critical facilities
- Install surge protection on critical electronic equipment
- Encourage wind-resistant roof shapes and architectural designs that limit potential for wind-borne debris
- Establish standards for tree pruning around power lines



Peoria County, IL

### Mitigation Ideas - Flood



• Use land use planning to guide development away from flood prone areas

 Establish watershed-based planning initiatives to address flood hazards with neighboring jurisdictions

• Install, re-route, or increase storm drainage system capacity

- Conduct regular drainage system maintenance
- Limit allowable impervious surface
- Protect and preserve wetlands
- Adopt higher regulatory standards



# Mitigation Ideas – Extreme Temperatures Increase tree plantings around buildings and public rights-of-way to increase shade Assist vulnerable populations by providing and publicizing the availability of cooling centers Encourage the installation of green roofs and/or cool roofs Reflects 80% Warm Roof Cool Roof Reflects 80% Cool Roof Cool Roof Reflects 80%

Mitigation Ideas - Drought

Develop a drought emergency plan with criteria for drought-related actions

Establish mandatory water conservation measures during drought emergencies

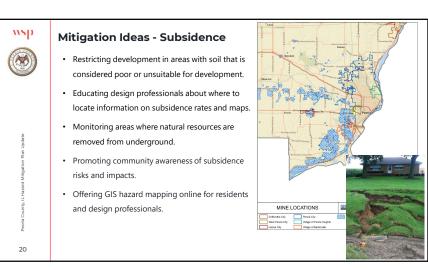
Encourage drought-tolerant landscaping such as xeriscaping

Promote permeable paving to reduce runoff and promote groundwater recharge

Educate residents on water saving measures

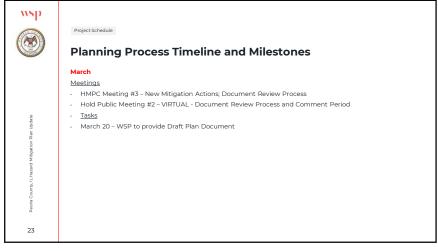
Encourage the installation of graywater systems













Last Name	First Name	Jurisdiction	Organization	Email	Signature
Abi-Akar	Reema	Stakeholder	Tri-County Regional Planning Commission	rabiakar@tricountyrpc.org	PSA
Baylor	Brian	Hanna City	Village of Hanna City	administrator@hannacityil.com	
Blumenshine	Joyce	Stakeholder	Sierra Club	joblumen@yahoo.com	Ing Blunestin'
Braun	Andrew	Peoria County	Peoria County	abraun@peoriacounty.org	1000
Bruner	Michael	Stakeholder	Tri-County Regional Planning Commission	mbruner@tricountyrpc.org	
Callear	John	Stakeholder	Home Builders Association	candlhomes@hotmail.com	
Cooper	Jeremy	Chillicothe	City of Chillicothe - Police Departme	jcooper@chillicothepd.org	
Corrie	Richard	Stakeholder	Lutheran Hillside Village	rick.gorrie@lssliving.org	
Crider	Beth	Stakeholder	Peoria Regional Office of Education	bcrider@peoriaroe.org	
DeWitte	Dori	Stakeholder	Women's Council of Realtors	doridewitte@gmail.com	
Erbentrout	Troy	Stakeholder	OSF St. Francis	Troy.W.Erbentraut@osfhealthcare.org	
Haines	Cody	Peoria Park District	Peoria Park District	chaines@peoriaparks.org	
Hathaway	Guy	Stakeholder	American Red Cross	Hathaway Guy@yahoo.com	
Heiden	Shelly	Stakeholder	Lutheran Hillside Village	shelly.heiden@lssliving.org	
Johnson	Brian	Greater Peoria Sanitary Dis	Greater Peoria Sanitary District	bjohnson@gpsd.org	
Kirchhofer	Patrick	Stakeholder	Peoria County Farm Bureau	pcfbmanager@sbcglobal.net	
Krider	Kinga	Peoria - West Peoria	City of West Peoria	administrator@cityofwestpeoria.com	
Krolicki	Ryan	Stakeholder	Illinois American Water	ryan.krolicki@amwater.com	
Krost	Mike	Stakeholder	Friends of River Beach Drive	mkrost@mchsi.com	

			·		,
Leach	Tim	Greater Peoria Sanitary Dis	Greater Peoria Sanitary District	tleach@gpsd.org	Dearl
Learned	Julie	Stakeholder	Red Cross	Julie.Learned@redcross.org	
Marks	Jason	Peoria County	Peoria County	jmarks@peoriacounty.org	
Maroon	Sie	Peoria	City of Peoria	smaroon@peoriagov.org	
McLaren	Amy	Stakeholder	Peoria County	amclaren@peoriacounty.org	aly Boech Hur
Meyer	Patrick	Bartonville	Village of Bartonville	pmeyer@mtco.com	
Miller	Mike	Peoria Park District	Peoria Park District	mmiller@peoriaparks.org	
Naven	Joshua	Peoria	City of Peoria	jnaven@peoriagov.org	
Nelson	Larry	Bartonville	Bartonville ESDA	lcnelson@mtco.com	Larry Welson
O'Neal	Tony	Stakeholder	Ameren Illinois	e132606@ameren.com	
Orr	Nick	Stakeholder	OSF Healthcare Systems	Nicholas.V.Orr@osfhealthcare.org	
Rezba	Eric	Stakeholder	American Red Cross	eric.rezba@redcross.org	
Rogers	Lisa	Stakeholder	Friends of River Beach Drive	lsealine@yahoo.com	
Ruhland	Terry	Stakeholder	Local Homebuilders Association	terry@plumcreekbuilders.com	
Shake	Melody	Stakeholder	Heartland Health Services	m.shake@hhsil.com	
Stanley	Heather	Stakeholder	National Weather Service	heather.stanley@noaa.gov	
Sutton	Dustin	Peoria Heights	Village of Peoria Heights	dsutton@heightspd.com	
Tamm	Alan	Stakeholder	US Army Corps of Engineers	alan.tamm@usace.army.gov	
Traenkenschuff	Gerald	Stakeholder	Retired	GerryT1@comcast.net	
Urban	Kathi	Peoria County	Peoria County	kurban@peoriacounty.org	

Weick	Kerilyn	Peoria	City of Peoria	kweick@peoriagov.org
Weindel	Jack	Peoria County	Peoria County	jweindel@peoriacounty.org
Witbracht	Sarah	Peoria Heights	Village of Peoria Heights	sarah.witbracht@peoriaheights.org
5mith	Kyle	ILAW		Kyle. Snith a go An watel. con

Last Name	Last First Jurisdiction Name		Organization	Email	Signature	
Abi-Akar	Reema	Stakeholder	Tri-County Regional Planning Commission	rabiakar@tricountyrpc.org		
Baylor	Brian	Hanna City	Village of Hanna City	administrator@hannacityil.com		
Blumenshine	Joyce	Stakeholder	Sierra Club	joblumen@yahoo.com		
Braun	Andrew	Peoria County	Peoria County	abraun@peoriacounty.org		
Bruner	Michael	Stakeholder	Tri-County Regional Planning Commission	mbruner@tricountyrpc.org	Mahr floor	
Callear	John	Stakeholder	Home Builders Association	candlhomes@hotmail.com		
Cooper	Jeremy	Chillicothe	City of Chillicothe - Police Departme	jcooper@chillicothepd.org		
Corrie	Richard	Stakeholder	Lutheran Hillside Village	rick.gorrie@lssliving.org		
Crider	Beth	Stakeholder	Peoria Regional Office of Education	bcrider@peoriaroe.org		
DeWitte	Dori	Stakeholder	Women's Council of Realtors	doridewitte@gmail.com		
Erbentrout	Troy	Stakeholder	OSF St. Francis	Troy.W.Erbentraut@osfhealthcare.org		
Haines	Cody	Peoria Park District	Peoria Park District	chaines@peoriaparks.org		
Hathaway	Guy	Stakeholder	American Red Cross	Hathaway Guy@yahoo.com		
Heiden	Shelly	Stakeholder	Lutheran Hillside Village	shelly.heiden@lssliving.org		
Johnson	Brian	Greater Peoria Sanitary Dis	Greater Peoria Sanitary District	bjohnson@gpsd.org		
Kirchhofer	Patrick	Stakeholder	Peoria County Farm Bureau	pcfbmanager@sbcglobal.net		
Krider	Kinga	Peoria - West Peoria	City of West Peoria	administrator@cityofwestpeoria.com	Minge Under	
Krolicki	Ryan	Stakeholder	Illinois American Water	ryan.krolicki@amwater.com		
Krost	Mike	Stakeholder	Friends of River Beach Drive	mkrost@mchsi.com		

Leach	Tim	Greater Peoria Sanitary Dis	Greater Peoria Sanitary District	tleach@gpsd.org	
Learned	Julie	Stakeholder	Red Cross	Julie.Learned@redcross.org	
Marks	Jason	Peoria County	Peoria County	jmarks@peoriacounty.org	
Maroon	Sie	Peoria	City of Peoria	smaroon@peoriagov.org	
McLaren	Amy	Stakeholder	Peoria County	amclaren@peoriacounty.org	
Meyer	Patrick	Bartonville	Village of Bartonville	pmeyer@mtco.com	
Miller	Mike	Peoria Park District	Peoria Park District	mmiller@peoriaparks.org	
Naven	Joshua	Peoria	City of Peoria	jnaven@peoriagov.org	
Nelson	Larry	Bartonville	Bartonville ESDA	lcnelson@mtco.com	
O'Neal	Tony	Stakeholder	Ameren Illinois	e132606@ameren.com	
Orr	Nick	Stakeholder	OSF Healthcare Systems	Nicholas.V.Orr@osfhealthcare.org	
Rezba	Eric	Stakeholder	American Red Cross	eric.rezba@redcross.org	
Rogers	Lisa	Stakeholder	Friends of River Beach Drive	lsealine@yahoo.com	
Ruhland	Terry	Stakeholder	Local Homebuilders Association	terry@plumcreekbuilders.com	
Shake	Melody	Stakeholder	Heartland Health Services	m.shake@hhsil.com	
Stanley	Heather	Stakeholder	National Weather Service	heather.stanley@noaa.gov	
Sutton	Dustin	Peoria Heights	Village of Peoria Heights	dsutton@heightspd.com	
Tamm	Alan	Stakeholder	US Army Corps of Engineers	alan.tamm@usace.army.gov	
Traenkenschuff	Gerald	Stakeholder	Retired	GerryT1@comcast.net	
Urban	Kathi	Peoria County	Peoria County	kurban@peoriacounty.org	

erilyn	Peoria	City of Peoria	kweick@peoriagov.org	
ack	Peoria County	Peoria County	jweindel@peoriacounty.org	
arah	Peoria Heights	Village of Peoria Heights	sarah.witbracht@peoriaheights.org	
David	IL American Jaker Stakeholder	Il American Water	david. Martell@ amuster con	
a	ck ırah	ck Peoria County nrah Peoria Heights	ck Peoria County Peoria County  rah Peoria Heights Village of Peoria Heights	ck Peoria County Peoria County <u>jweindel@peoriacounty.org</u> rah Peoria Heights Village of Peoria Heights <u>sarah.witbracht@peoriaheights.org</u>

1. Summary

Meeting title Peoria County Hazard Mitigation Plan - MITIGATION STRATEGY MEETING

Attended participants 3

Start time 3/15/23, 1:06:35 PM End time 3/15/23, 2:40:06 PM

Meeting duration 1h 33m 31s Average attendance time 1h 1m 35s

2. Participants

Name	First Join	Last Leave	In-Meeting Duration	Email	Participant ID (UPN)	Role
Popplewell, Cindy	3/15/23, 1:27:32 PM	3/15/23, 2:40:06 PM	1h 12m 34s	cindy.popplewell@woodplc.com	cindy.popplewell@woodplc.com	Organizer
ONeal, Tony S	3/15/23, 1:28:51 PM	3/15/23, 2:29:25 PM	1h 33s	AONeal@ameren.com	E132606@ameren.com	Presenter
Roger Orr	3/15/23, 1:34:39 PM	3/15/23, 2:26:18 PM	51m 38s	streets@hannacityil.com	streets@hannacityil.com	Presenter

3. In-Meeting Activities

Name	Join Time	Leave Time	Duration	Email	Role
Popplewell, Cindy	3/15/23, 1:27:32 PM	3/15/23, 2:40:06 PM	1h 12m 34s	cindy.popplewell@woodplc.com	Organizer
ONeal, Tony S	3/15/23, 1:28:51 PM	3/15/23, 2:29:25 PM	1h 33s	AONeal@ameren.com	Presenter
Roger Orr	3/15/23, 1:34:39 PM	3/15/23, 2:26:18 PM	51m 38s	streets@hannacityil.com	Presenter