

Fall RRT5 Planning Subcommittee Meeting

OCTOBER 20, 2021

LED BY KIM CHURCHILL, RRT5 PLANNING SUBCOMMITTEE CHAIR



Welcome and Recap

KIM CHURCHILL, EPA – RRT5 PLANNING SUBCOMMITTEE CHAIR

Summary of Spring 2021 Meeting

- ▶ ESA Workgroup Update
- ▶ EPA Sub-Area Contingency Plan Updates
- ▶ New pages to rrt5.org “Library”
 - ▶ Tribal Fact Sheets
 - ▶ Vapor Intrusion
 - ▶ PFAS/PFOAs
- ▶ Importance of mapping and GIS
 - ▶ Sharing GIS layers across agencies/organizations
 - ▶ USGS Great Lakes Restoration Initiative (GLRI) GIS layers on natural and artificial features
- ▶ Brief on Tribal Outreach/Consultation work in MN

Pre-Meeting Call on October 7, 2021

THANKS FOR ALL WHO PARTICIPATED AND VOLUNTEERED TO
PROVIDE UPDATES AND DISCUSSION TOPICS.

Agenda ~ 9:30 AM – 10:15 AM CT

- ▶ ESA Workgroup Updates
 - ▶ Jerry Popiel, USCG
- ▶ New Species Fact Sheets
 - ▶ John Nelson, DOI
- ▶ Mapping Projects and State Specific Data Layers
 - ▶ Amanda Grimm, GLC; Mark Ellis, UMRBA, and Jon Gulch, EPA
- ▶ Planning Area Updates
 - ▶ Little Traverse Bay Band of Odawa Indians – Traven Michaels
 - ▶ CANUSENT – Jeff Lippert, EPA
 - ▶ Cincinnati – Steve Renninger, EPA
 - ▶ North Lower West Michigan – Betsy Nightingale and Jackie Cole, EPA
 - ▶ Pipeline Incident IAP/SOG – Paul Ruesch, EPA
- ▶ Open Forum/Items of Interest


ESA Workgroup Update

JERRY POPIEL,
USCG

John Nelson, DOI

New Species Fact Sheets and Special Project Detail Update

Mapping Projects and State Specific Data Layers

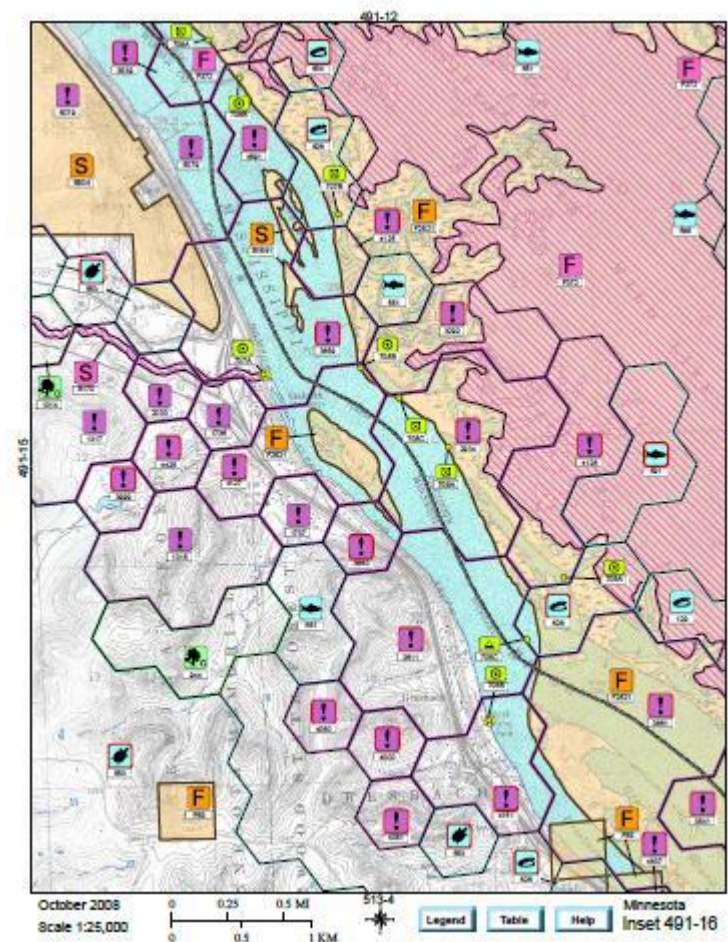


MARK ELLIS, UMRBA
AMANDA GRIMM, GLC
JON GULCH, EPA

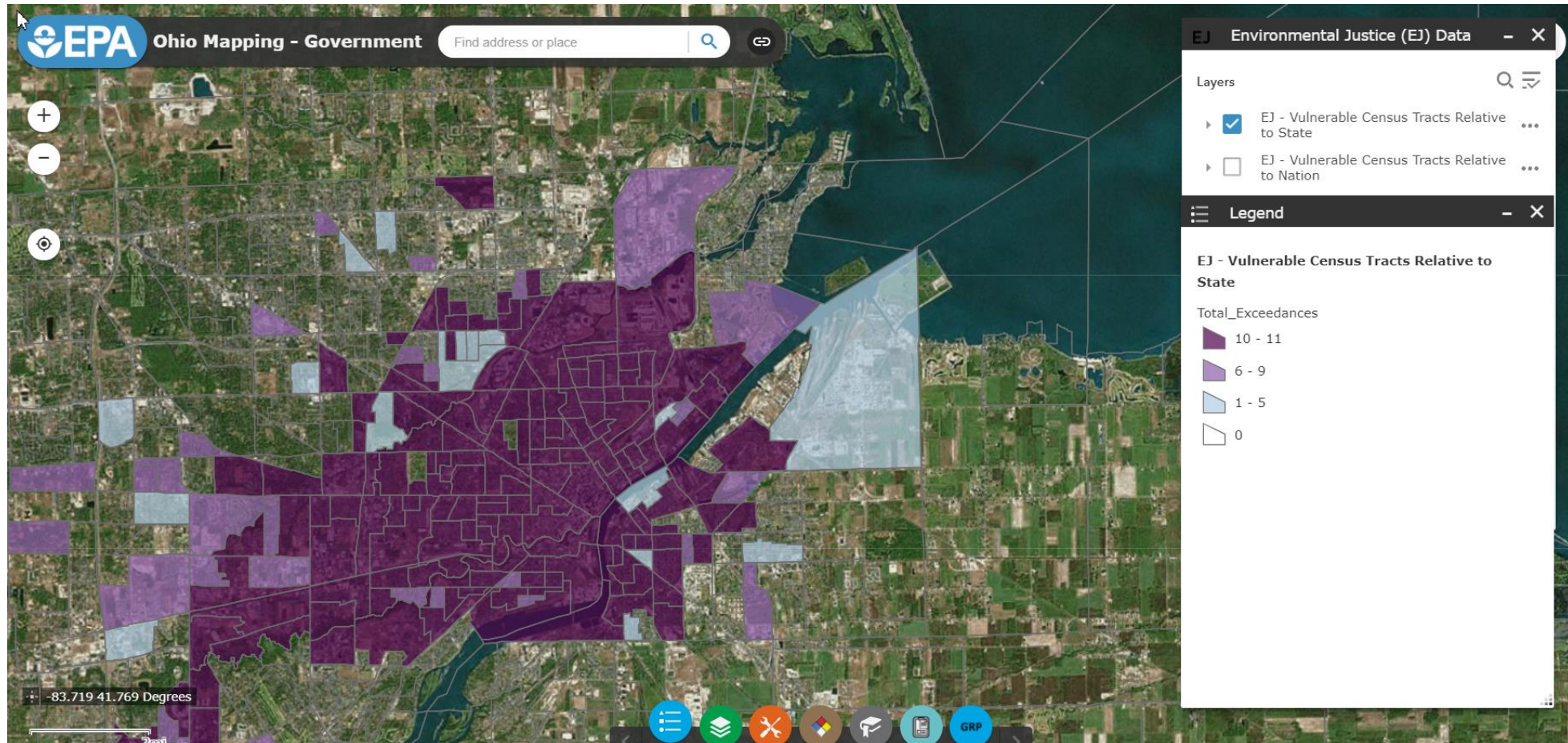
Jon Gulch, EPA Inland Sensitivity Map

- Natural Features Inventory/Natural Heritage Data call
- Improve identification of endangered species & habitats

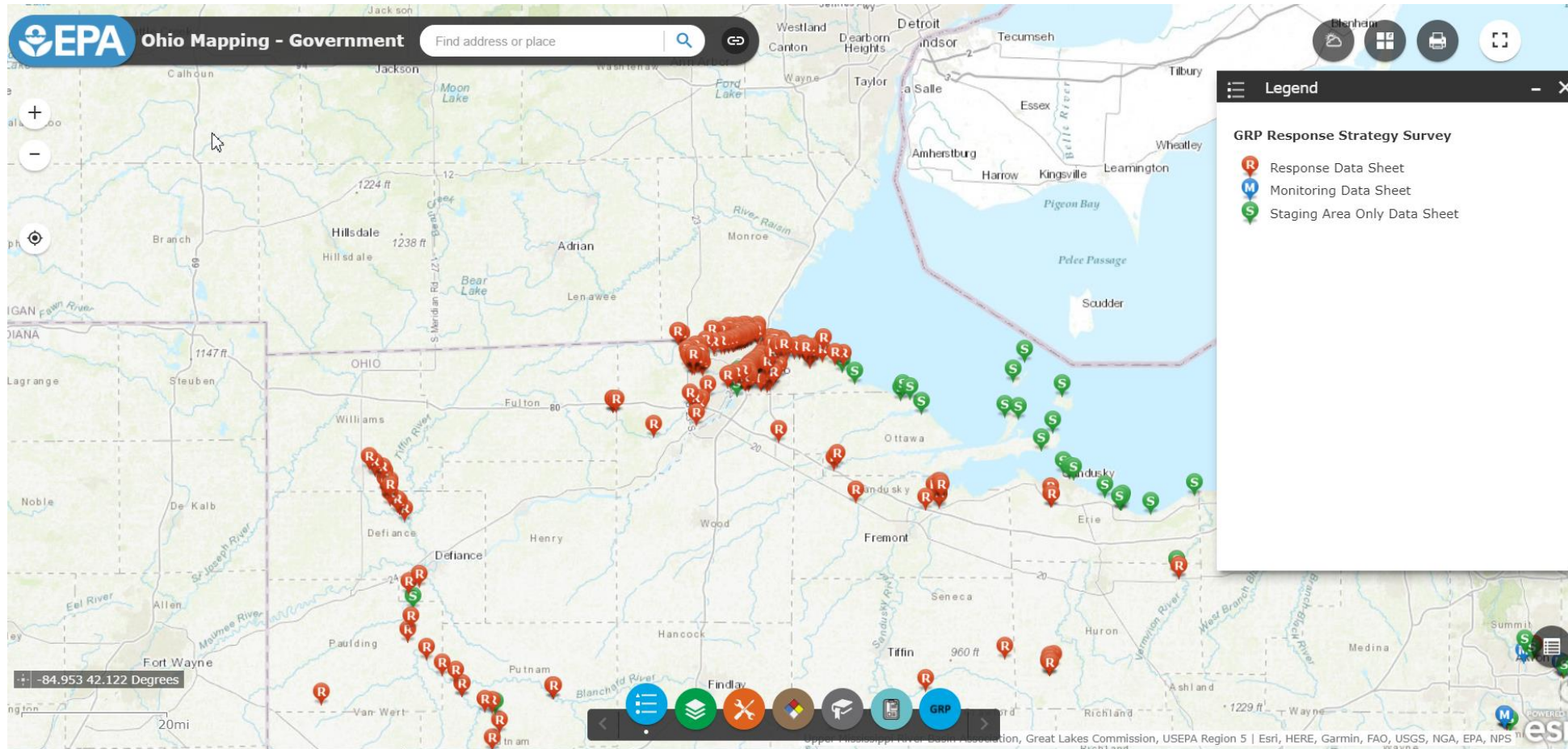
<i>Evaluated Data Layers</i>	<i>Available?</i>	<i>Affordable?</i>	<i>Detailed enough for ISA needs?</i>
<i>NatureServe species data</i>	✓		✓
<i>USFWS IPaC</i>	?	✓	Unlikely
<i>USFWS National GIS Data</i>	✓	✓	
<i>USFWS Critical Habitat</i>	✓	✓	
<i>IUCN Redlist Spatial Data</i>	✓	✓	
<i>Species data from States</i>	Varies by state	Varies by state	✓



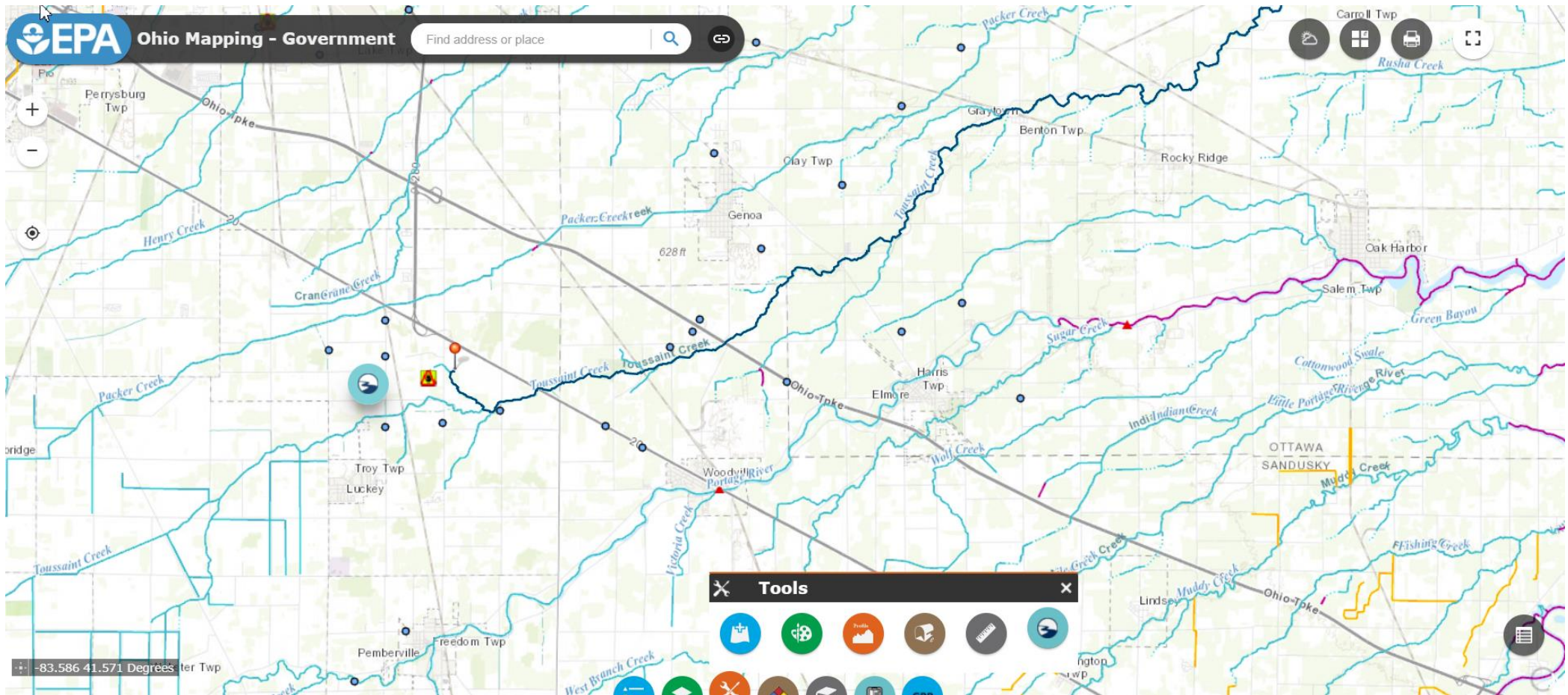
EPA Mapping – EJ Data



Ohio Mapping – Legacy GRPs added



Ohio Mapping – Legacy GRPs added



FEDERAL
STATE
LOCAL
TRIBAL
INTERNATIONAL

Planning Updates

Traven Michaels, Little
Traverse Bay Band of
Odawa Indians

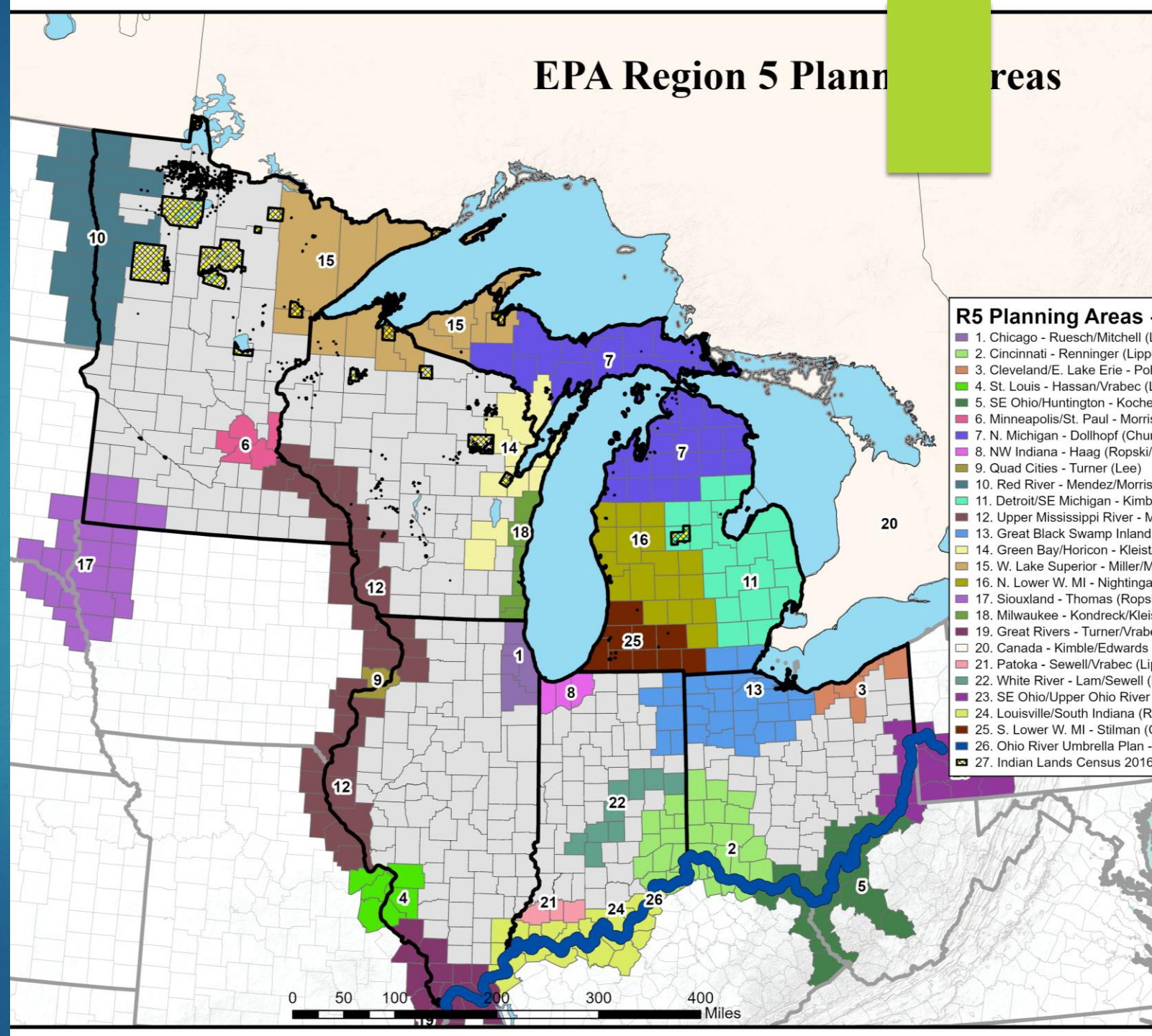
Little Traverse Bay Band of Odawa Indians Response Trailer

CANUSCENT

JEFF LIPPERT, EPA

EPA Sub-Area Updates

- ▶ Northwest Indiana
 - ▶ OSC Dan Haag has left the agency
 - ▶ OSC Jacob Hassan will replace Dan
- ▶ South Lower Western Michigan
 - ▶ Sub-Area Contingency Plan almost complete, will brief out during Spring meeting



EPA REGION 5 INLAND ZONE SUB-AREA CONTINGENCY PLAN FOR OHIO RIVER/CINCINNATI AREA



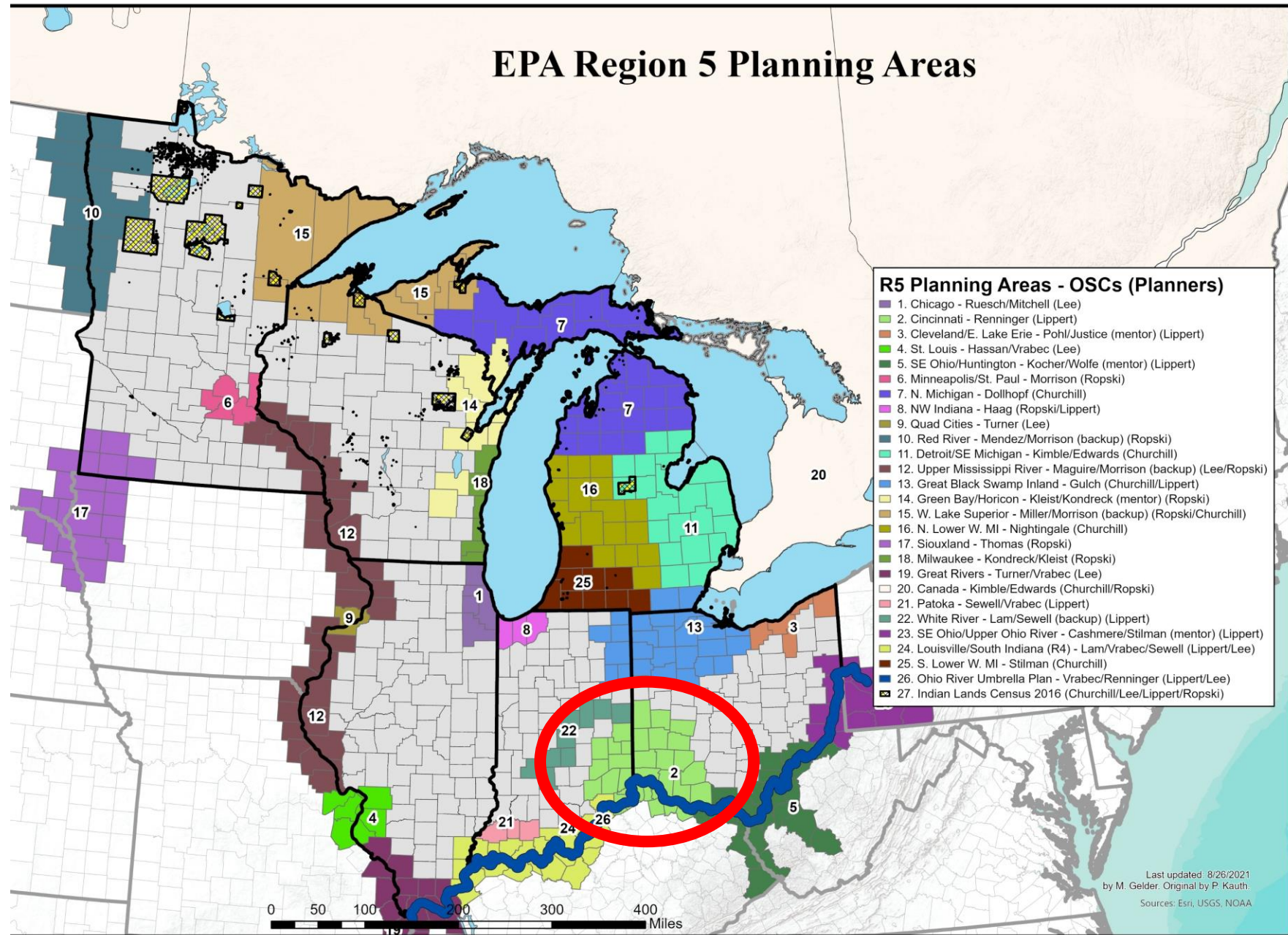
**ENVIRONMENTAL
PROTECTION AGENCY**

Steven L. Renninger
On-Scene Coordinator
Emergency Response Branch

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Cincinnati, OH 45268

Telephone: (513) 569-7539
Fax: (513) 569-7546
E-mail: Renninger.Steven@epa.gov

Cell Phone: 513-260-7849



Ohio River/Cincinnati Sub-Area Contingency Plan (SACP)

This SACP has been prepared by the United States Environmental Protection Agency (EPA) under the direction of an On-Scene Coordinator (OSC) with collaboration from stakeholders of the Ohio River/Cincinnati Sub-Area. This sub-area is located solely within Inland Zone. The Ohio River/Cincinnati Sub-Area SACP covers the Ohio River (including its tributaries) between Ohio River mile marker 374.6 to 546.5. This SACP has been incorporated by reference into RRT5's RCP and EPA Region 5's Inland ACP.

A major goal this SACP is to serve as a mechanism to ensure responders have access to essential sub-area specific information and to promote interagency coordination for an effective response. As such, this SACP has been prepared for the use of all agencies engaged in responding to environmental emergencies and contains useful tools for both government and private parties. It includes response strategies that have proven to be effective in controlling and mitigating the impact of a discharges, including worst case discharges. It also contains detailed lists of critical logistical information for effective and timely action.¹



Collaborating Agency Review:

Organization	Name	Signature	DATE
Indiana Department of Environmental Management (IDEM)	Jared Sawin		8/25/21
Kentucky Department of Environmental Protection (KYDEP)	Robert Francis		7/13/2021
Ohio Environmental Protection Agency (Ohio EPA)	Jodi Billman-Kotsko		08/23/2021
Ohio River Valley Water Sanitation Commission (ORSANCO)	Sam Dinkins		8/5/21
United States Coast Guard (USCG) Sector Ohio Valley	CAPT Amy Beach		8/24/21
US Environmental Protection Agency (USEPA) Region IV	OSC Rick Jardine		27 JUL 21
US Environmental Protection Agency (USEPA) Region V	OSC Steve Renninger		7/29/21

Cincinnati Focus Group:

IDEM

KY DEP

Ohio EPA

ORSANCO

US Coast Guard – Sector Ohio Valley

US EPA Region 4

US EPA Region 5

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Appendix B – Incident Action Plan(s)

Appendix C – County Fact Sheets

Appendix D – Habitat and Species Fact Sheets

Appendix E – Response Plans

Appendix F – Resource Inventory List

Appendix G – Worst Case Discharge Analysis (*Redacted*)

Appendix H – Acronyms

Appendix I – Memorandum of Agreement Between US EPA Region 5 and USCG Regarding Response Boundaries for Oil and Hazardous Substances Pollution Incidents and Federal OSC Responsibilities

Appendix J – USACE Ohio River Navigational Charts

2.1.1 Critical Infrastructure (Dams, Bridges, Recreational Facilities)

The deeper intake is a submerged intake crib located a few hundred feet upstream. It is not visible from the surface. The intakes withdraw water from approximately 8 -35 feet below water surface (at pool stage). The larger square building 300 feet downstream of GCWW's intake is one of Northern Kentucky Water District's intakes/pump stations (PS).

The following water intakes have been identified:

- Maysville at Ohio River mile marker 407.8
- Cincinnati at Ohio River mile marker 462.8
- Northern Kentucky Water District PS #1 at Ohio River mile marker 462.9
- Northern Kentucky Water District PS #2 at Ohio River mile marker 463.5
- Northern Kentucky Water District at Licking River mile marker 4.5

The following locks/dams have been identified within the Ohio River/Cincinnati Sub-Area:

- Meldahl Lock/Dam at Ohio River mile marker 436.2 (photo below)



- Markland Lock/Dam at Ohio River mile marker 531.5 (photo below)



- Covington & Cincinnati Highway Bridge at Ohio River mile marker 470.5
- U.S. 25 Highway Bridge and Chessie Railroad Bridge at Ohio River mile marker 471.0 (joint photo below)
- Brent Spence Highway (Interstate 71/75) Bridge at Ohio River mile marker 471.2 (joint photo below)



- Cincinnati Southern Railroad Bridge at Ohio River mile marker 472.3 (photo below)



- Interstate 275 Carroll Cropper Bridge (Indiana to Kentucky) Ohio River mile marker 491.6 (photo below)



The following recreational facilities are located adjacent to the Ohio River within the Ohio River/Cincinnati Sub-Area:

- River Bend Music Pavilion at Ohio River mile marker 461.3 (photo below)



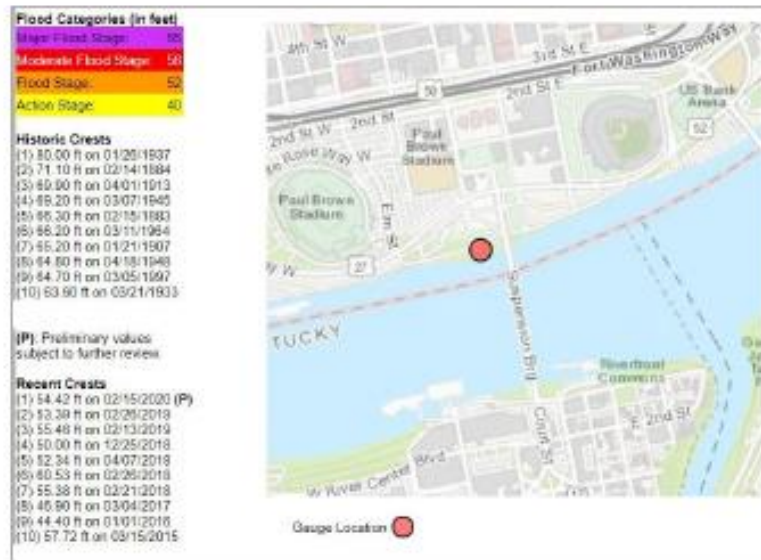
- Great American Baseball Ball Park at Ohio River mile marker 470.3 (photo below)
- Paul Brown Football Stadium at Ohio River mile marker 470.9 (photo below)



Further information regarding the locks, dams, and bridges on the Ohio River can be found in the USACE Navigational Charts provided in Appendix K.

2.1.5 Natural Disaster Impact Areas (Zone 2 Example)

- Zone 2: The Ohio River flood stage in Cincinnati, Ohio (Zone 2) at the Suspension Bridge river gauge has been identified as 52 feet. The Ohio River flood of 1937 took place in late January and February 1937 reaching a level of 80 feet. The Ohio River flood of 1997 took place on March 6, 1997 reaching a level of 65 feet.
- At flood stage, expect flooding in several portions of California, East End and Anderson Township, particularly around the Coney Island area. Access roads at Covington landing may potentially become flooded, and New Richmond may potentially experience flooding. Lower levels of Smale Park and Bellevue Beach Park may potentially flood.



View of the Ohio River in Cincinnati during the 1997 flood (below).



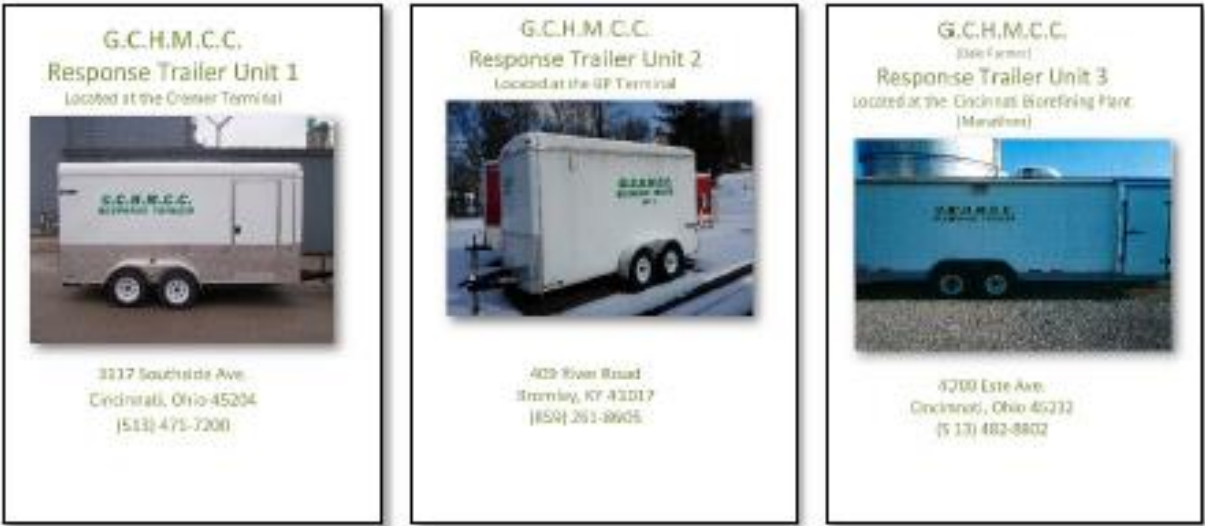
2.1.1-2.2.2 Private Sector & Local Response Plans

2.2.1 Private Sector Response Plans
Region 5's RCP/ACP provides information on the involvement of private sector organization during a response. The Greater Cincinnati Harbor & Maritime Cooperative Committee (GCHMCC) is a private sector organization located within the Ohio River/Cincinnati Sub-Area.

Greater Cincinnati Harbor & Maritime Co-Operative Committee

The GCHMCC is not-for-profit organization. Various companies and public agencies make up the GCHMCC with the common interest of providing assistance and resources to its membership. Those shared interests include mitigating the impact of pollution releases and promoting maritime security awareness in and along the Ohio River and its surrounding tributaries.

The GCHMCC owns three 7-foot by 14-foot enclosed spill response trailers. The trailers contain all the equipment necessary to begin a response in case of accidental oil discharge at a member's facility. These resources are further described in Section 3.3.



Ohio River Weekly Water Quality Report

Week of: 9/10/2021

	PITTSBURGH	WHEELING	HUNTINGTON	CINCINNATI	LOUISVILLE	EVANSVILLE
Temperature	70.9 °F	74.0 °F	76.6 °F	79.8 °F	78.4 °F	80.6 °F
Turbidity	15.7	7.0	16.0	36.0	22.0	44.0
River Stage	16.8 feet	16.2 feet	25.3 feet	26.7 feet	13.1 feet	14.4 feet
River Velocity	0.5 mph	0.8 mph	0.7 mph	1.0 mph	0.6 mph	1.0 mph

Date E. coli was collected: 09/08/21

E. coli RM and Conc.	River Mile	Conc. (CFU/100mL)	River Mile	Conc. (CFU/100mL)	River Mile	Conc. (CFU/100mL)	River Mile	Conc. (CFU/100mL)	River Mile	Conc. (CFU/100mL)	River Mile	Conc. (CFU/100mL)
E. coli RM and Conc.	1.4	NS	86.8	NS	305.1	75	462.6	23	594.6	74	791.5	NS
E. coli RM and Conc.	4.3	NS	92.8	NS	314.8	288	470.0	14	619.3	75	793.7	NS

NS=No Sample

Contact Recreation water quality exceedances are posted in RED.

477.5 20

Ohio River Water Quality Reports are available at the following site:

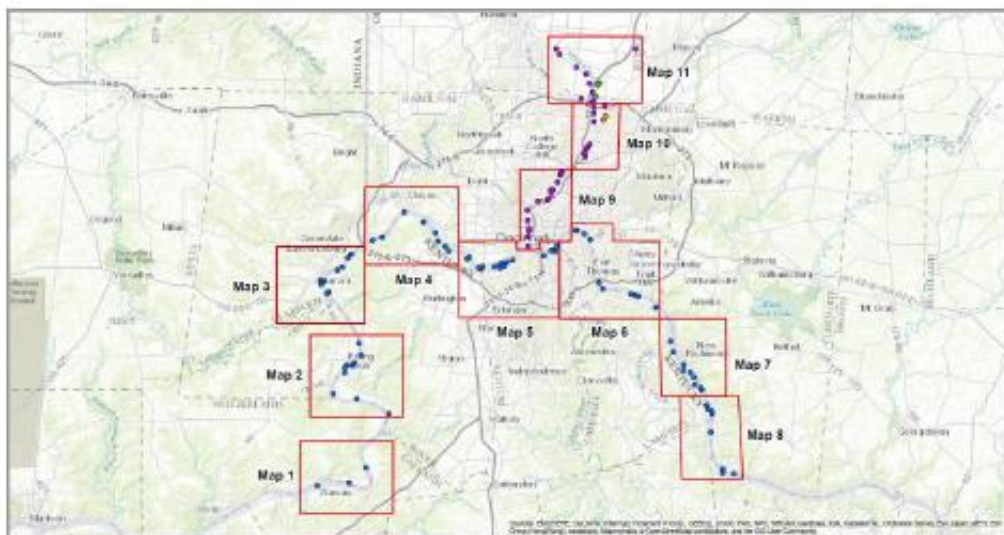
orsanco.org/weeklyohioriverwaterqualityreport/

2.2.3 State Response/ Emergency Management Plan



The blue and purple dots on the Watershed Response Plan Map below symbolize the 105 pre-determined booming and recovery locations on Mill Creek and the Ohio River.

View of the Cincinnati Area River Watershed Response Plan Overview map (below).



Each dot on the Watershed Response Plan Overview Map contains a 2-page GRP including a view of a potential booming location (example below) and optimal boom placement. Blue dots represent Ohio River GRPs and Purple dots represent Mill Creek GRPs.



U.S. EPA REGION 5 – GRP RESPONSE STRATEGY SURVEY Response Data Sheet

GENERAL INFORMATION		
Location Name: Ohio River Containment 486.6	Location ID: OR_C_486.6	
City: North Bend	State: Ohio	County: Hamilton
Property Type: Private		
Fire District: Miami Twp Fire Dept. 513-941-2067		
Latitude: 39.146558492	Longitude: -84.755800029	
Water Body Name: Ohio River	Water Body Type: Riverine	
Inland Habitat Type:		
Operational Area Description: Consider for monitoring and observation. Concrete ramp with area to maneuver equipment. Operational distance 90 ft. Collect from right. For additional containment strategies visit http://www.gchmcc.org		
Detailed Location Description: Mile marker 486.6, Map #4, Trailer Park/Campground, Brower Rd. to 102 Brower Rd. South to Lower River Rd. then west on Lower River Rd. to concrete ramp. PFD. Waders recommended. Boom length and angle are to be determined by the river conditions at the time of the response.		
Safety Concerns: Sloped right and left banks. https://www.law.cornell.edu/cfr/text/29/1926.106		
Description of Access to Location: Access by land and water		

CONTAINMENT LOCATIONS	
Upstream or downstream of containment location?	Downstream
Avg. Depth of Water: 25-35	Depth Units: Feet
Avg. Width of Water: 1500	Width Units: Feet

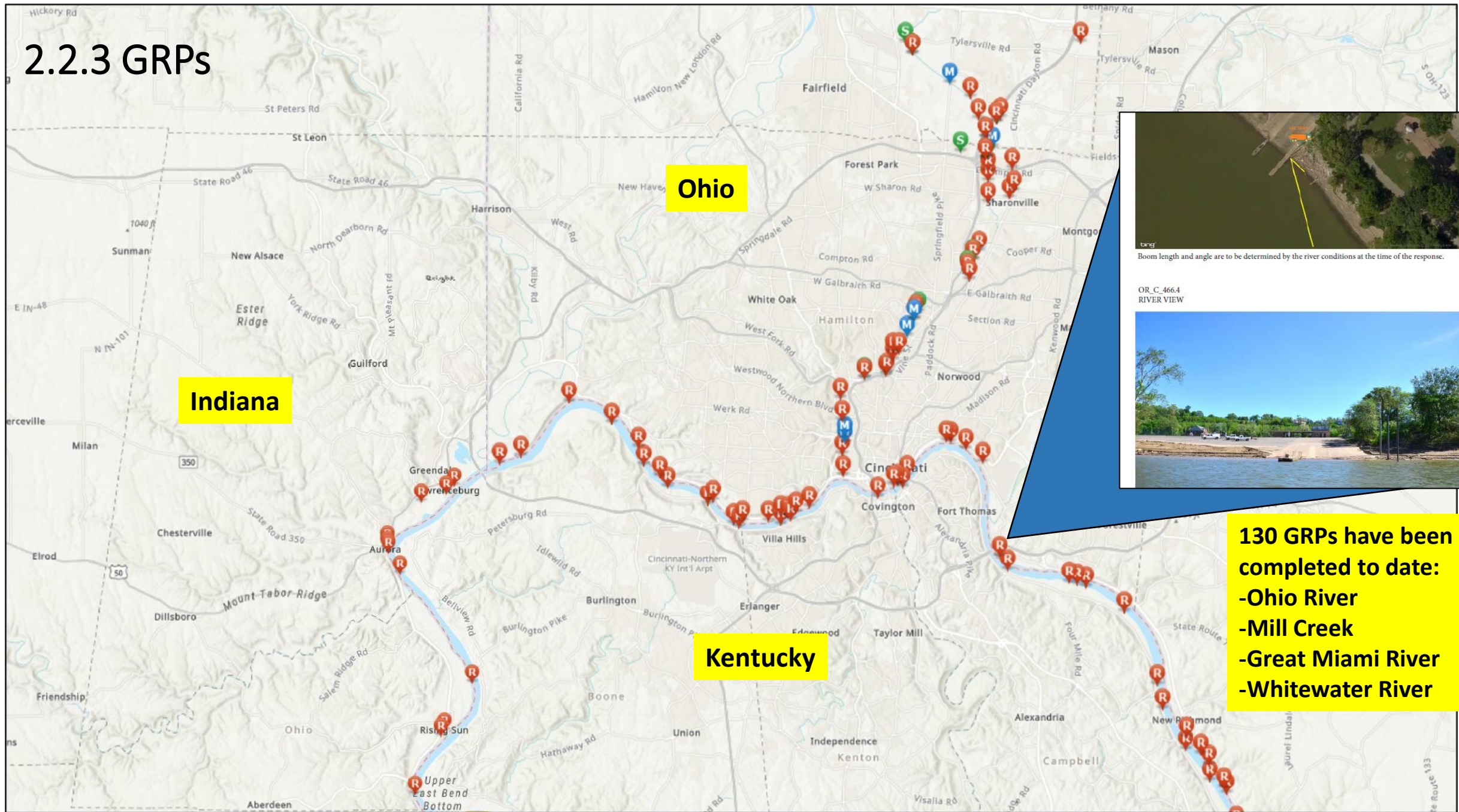
RESOURCES REQUIRED	
Resource: Containment booms—24' float with 16 to 18" skirt 25' long—with tension cable	
Quantity: 60	Units: Units

RESOURCES REQUIRED	
Resource: Work Boat (Flat Bottom less than 12')	
Quantity: 1	Units: Units

RESOURCES REQUIRED	
Resource: Hose	
Quantity: 120	Units: Feet

View of a GRP booming location (top photo) and view of GRP Data Sheet (bottom photo).

2.2.3 GRPs



3.3 Resources



Region 5 Emergency Response Branch

Region 5 maintains 38 Level A response-ready OSCs, who have also received advanced training in biological, chemical, and radiological terrorism response, as well as training in advanced Incident Command System (ICS) operations. The Regional office also has "reach back" capacity to activate several hundred additional emergency trained staff with a wide range of specialized skills and expertise.

Emergency response has recognized the value and benefit of having OSCs work in close proximity to the communities they serve. OSCs stationed in the field develop effective working relationships with local and State responders. They also enhance the understanding of multi-government roles and capabilities during coordinated response actions.



Region 5 has OSCs stationed in 11 locations:

- Chicago, Illinois
- Des Plaines, Illinois
- Collinsville, Illinois
- Willowbrook, Illinois
- Indianapolis, Indiana
- Ann Arbor, Michigan
- Traverse City, Michigan
- St Paul, Minnesota
- Cincinnati, Ohio
- Westlake, Ohio
- Green Bay, Wisconsin



Region 5 has recently increased its total number of field offices. It places 20 OSCs in field offices—over half of all OSCs in Region 5. Superfund emergency response and the Region have already benefited from these recent field offices. Over the past several years, local and State governments referred an unprecedented number of response and removal actions to these offices.

EPA Region 5 Response Capability Catalog

EPA Region 5 Superfund and Emergency Management Division Response Capabilities

This catalog provides an overview of the EPA Region 5 Superfund and Emergency Management Division's (SEMD) capabilities for the local, State, Tribal and Federal response communities.

Superfund Overview

The Superfund program was created in 1980 when Congress passed the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), amended in 1986 by the Superfund Amendments and Reform Act (SARA). These laws created a program to clean up abandoned or uncontrolled hazardous waste sites that pose a threat to human health or the environment. It made "potentially responsible parties" (owners, operators, or transporters to the facility, also known as PRPs) retroactively, jointly, and severally responsible for cleaning up the sites. For those sites where the PRPs cannot be found, are bankrupt, or refuse to perform the cleanup, it created a separate Federal fund (the "Superfund") for the U.S. Environmental Protection Agency (EPA) to carry out the cleanup.



What Type of Emergency Response or Cleanups does EPA Conduct?

Emergency responses that must be addressed immediately, such as:

- Derailed train cars containing hazardous chemicals
- Fires containing hazardous materials
- Traffic incidents involving hazardous materials spills
- Chemical or mercury spills
- Chemical air releases where air monitoring is required
- Potable water system contamination



G.C.H.M.C.C.

Response Trailer Unit 1

Located at the Cremer Terminal



3117 Southside Ave.
Cincinnati, Ohio 45204
(513) 471-7200

3.3 Resources

G.C.H.M.C.C.

Response Trailer Unit 2

Located at the BP Terminal



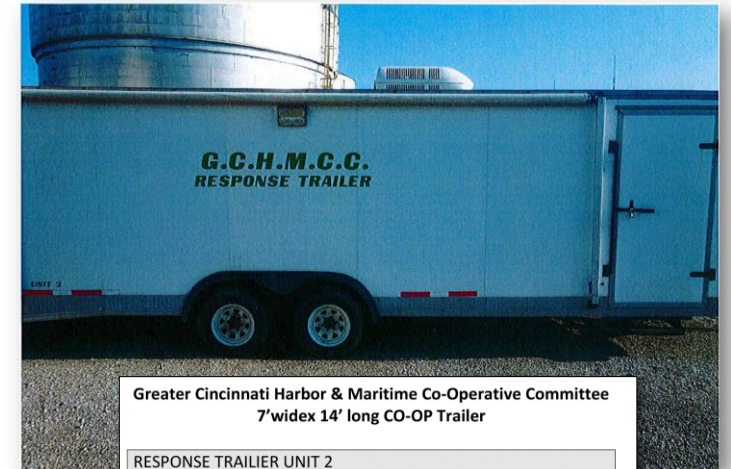
409 River Road
Bromley, KY 41017
(859) 261-8605

G.C.H.M.C.C.

(Dale Farmer)

Response Trailer Unit 3

Located at the Cincinnati Biorefining Plant
(Marathon)



Greater Cincinnati Harbor & Maritime Co-Operative Committee
7'wides 14' long CO-OP Trailer

RESPONSE TRAILER UNIT 2

- 1-1/2" X 75' Rope
- 2-1/2" X 100' Rope
- 2-1/2" X 50' Rope
- 4-1/2" X 25' Rope
- 7-Pair of black pull over rubber boots
- 6-Pair of yellow pull over rubber boots
- 2-Sets of steel wheel chocks
- 1-Reese 5 1/4 drop hitch w/ 2- 5/16 "ball
- 20-Clear Safety Glasses
- 6-Rolls of duct tape
- 5- Rolls of electrical tape
- 2-Mag flashlights
- 7- D-Batteries
- 1-Can of WD40
- 1-Box of 12" X 12" cellulose based non-aggressive spill socks
- 300' 1/2" nylon rope
- 4-Packs of brown Jersey gloves
- 20-Pair of rubber gloves
- 4-Packs of leather gloves
- 12-Rain suits XL, XXL, XXXL
- 20-XXXL white overalls
- 20-Large white overalls
- 1-Post driver
- 1-Husky tripod work light
- 1-Plastic step ladder
- 1-24" Pipe wrench
- 1-tank stop leak kit
- 1-Rescue throw bag
- 1-Rescue throw ring
- 1-Rolyan anchor buoy

4.1 Historical Discharges

A review of historical discharges is extremely beneficial as it allows for consideration of reoccurrence and lessons learned from an actual response.

Historical Discharge #1: 2014 Mid-Valley Pipeline Response (Zone 2)

On March 18th, 2014, Sunoco Logistics reported a crude oil release from the Mid-Valley Pipeline under report number 1076964 to the National Response Center (NRC). The Mid-Valley Pipeline carrying crude oil from Hebron, Kentucky to Lima, Ohio released product into an un-named stream in the Oak Glen Nature Preserve in northern Hamilton County, Ohio.



Photo: 2014 Mid-Valley Pipeline response. Underflow dam

The pipeline, operated by Sunoco Pipeline LP, was shut down on March 17-23, 2014. The 20-inch pipeline was installed in 1950. There was a confirmed release of approximately 45,000 gallons of crude oil into a stream which discharged into a pond within the Oak Glen Nature Preserve and adjacent to the Great Miami River.



Photo: 2014 Mid-Valley Pipeline response: Unified Command at a daily Planning Meeting

A Unified Command was established with EPA, Ohio EPA, Great Parks of Hamilton County, Colerain Township and the responsible party (RP) Sunoco Logistics/Mid-Valley. An Incident Management Team (IMT) comprised of Sunoco, EPA, and Ohio EPA personnel managed the response. The total liquid recovery was 37,850 gallons. A final Pollution Report (POLREP) was issued on April 2, 2014 to conclude emergency response phase activities.

Historical Discharge #2: 2014 Duke Energy Spill Response (Zone 2)

On August 18, 2014, Duke Energy reported a diesel spill at the Duke Energy Beckjord facility in New Richmond, Ohio. Two above ground storage tanks were overfilled resulting in a spill of approximately 8,000 gallons (NRC Report #1092727). EPA and Ohio EPA overflights on August 19, 2014 documented approximately 16 miles of the Ohio River were impacted by the diesel spill. The leading edge of the sheen was observed at Ohio River mile marker 469 on the east side of Cincinnati, Ohio. Northern KY and Greater Cincinnati water intakes were closed and ORSANCO initiated water quality sampling on August 19, 2014.



Photo: 2014 Duke Energy Beckjord response: Ohio River booming

Unified Command was established on-scene with EPA, Ohio EPA, Pierce Township, Kentucky DEP, US Coast Guard, and Duke Energy. An Incident Management Team (IMT) comprised of Duke Energy, US Coast Guard, EPA, Ohio EPA, and local agencies managed the response. During the response, 1,700-feet of boom was deployed, and 2,500 gallons of oil recovered. Additional activities conducted as part of the response included shoreline recovery operations and a sensitive species impact investigation. Response personnel and equipment demobilized on August 21, 2014.

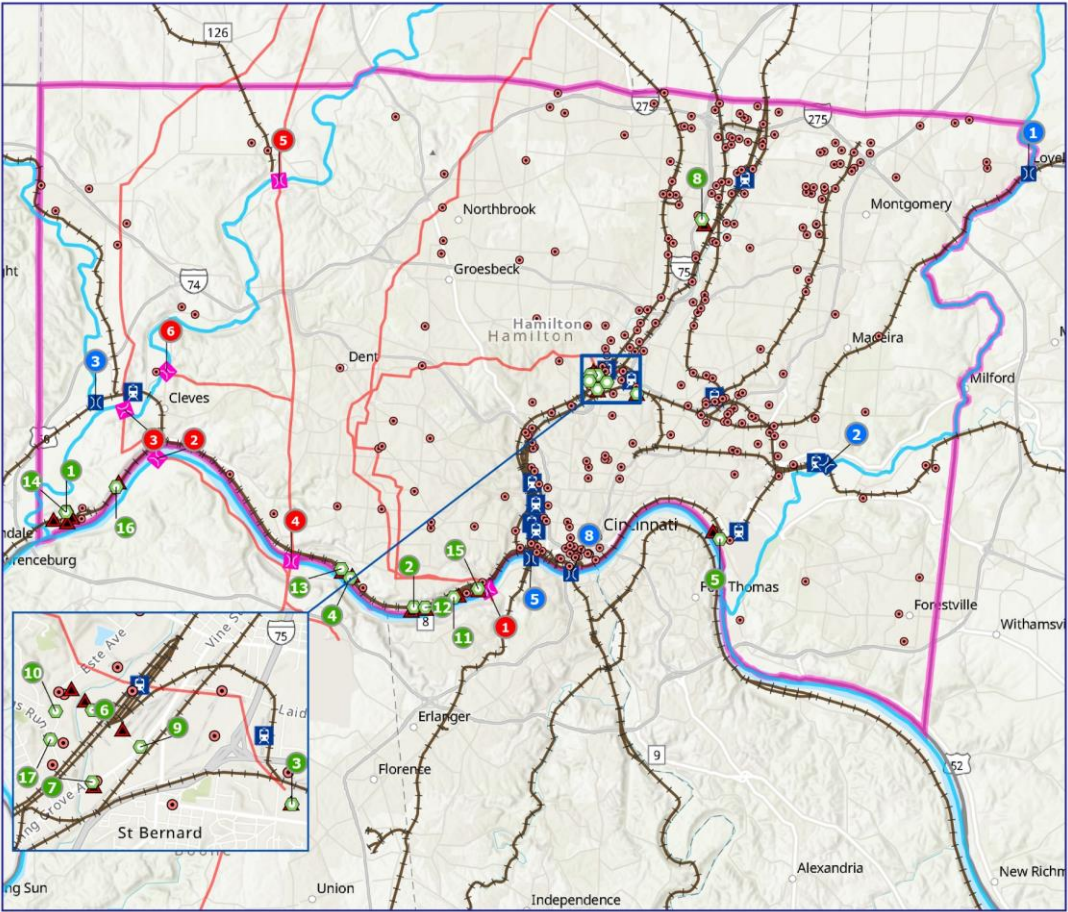


Photo: 2014 Duke Energy Beckjord response: Unified Command at a daily Planning Meeting

4.3 Worst Case Discharge

Zone 2

OHIO RIVER/CINCINNATI SUB-AREA
OVERVIEW OF ZONE 2 POTENTIAL WCD LOCATIONS



Pipeline River Crossing	
ID	NAME
1	BP Pipeline (North America), Inc.
2	Enterprise Products Operating, LLC
3	Enterprise Products Operating, LLC
4	Mid-Valley Pipeline Co.
5	Mid-Valley Pipeline Co.
6	Mid-Valley Pipeline Co.

Railroad Bridges	
ID	Name
1	CSX Transportation Bridge
2	CSX Bridge
3	Baltimore and Ohio Bridge
5	Norfolk Southern Bridge
8	CSX Transportation Bridge

FRP Facilities	
ID	NAME
1	MARATHON PETROLEUM COMPANY LLC - NORTH BEND, OH ASPHALT TERMINAL
2	MARATHON PETROLEUM CO CINCINNATI TERMINAL
3	BP PRODUCTS NORTH AMERICA INC CINCINNATI TERMINAL
4	EQUILON ENTERPRISES LLC CINCINNATI TERMINAL
5	QUEEN CITY TERMINALS, INC.
6	BASF CORP
7	PROCTER & GAMBLE CO IVORYDALE FOOD PLANT
8	GE AIRCRAFT ENGINES
9	PROCTOR & GAMBLE CO
10	EMERY OLEOCHEMICALS
11	WESTWAY TERMINAL CINCINNATI LLC
12	VALVOLINE
13	KINDER MORGAN RIVER TRANSPORTATION
14	DUKE ENERGY
15	CITGO CINCINNATI LUBE PLT
16	OWENS CORNING TRUMBULL ASPHALT
17	CINCINNATI RENEWABLE FUELS

Legend	
	FRP Facilities
	Aboveground Storage Tanks
	Hazardous Materials Storage
	Railroad Bridges
	Pipeline River Crossing
	Railroad Yards
	Petroleum Pipelines
	Railroads
	Rivers
	County Boundary

County in Zone 2:
• Hamilton, OH

Any WCD response in the Ohio River Cincinnati Inland Zone Sub Area shall be managed utilizing ICS



Section 5 Response to Worst Case Discharge

5.1 Roles

Region 5's RCP/ACP includes a list of Federal Agencies that have duties established by statute, executive order, or Presidential directive which may apply to Federal response actions following, or in prevention of a worst-case discharge of oil. Some of these agencies also have duties relating to the rehabilitation, restoration, or replacement of natural resources injured or lost as a result of such discharge.

State, local, private industry, or other federal agencies that may be involved in responding to a WCD in the Ohio River/Cincinnati Inland Zone Sub-Area can be found in the initial IAPs located in Appendix B.

5.2 Response Organization

Any WCD in the Ohio River/Cincinnati Inland Zone Sub-Area must be managed pursuant to the National Incident Management System (NIMS). NIMS is a structure for management of incidents and is a collection of principles and methods that can be utilized by local, state, federal emergency managers as well as industry. NIMS defines operational systems including the Incident Command System (ICS), Emergency Operations Center (EOC) structures, Multiagency Coordination Groups (MAC Groups), and Joint Information Systems (JIS) that guide how personnel work together during incidents. NIMS applies to all incidents, from traffic accidents to major disasters. The jurisdictions and organizations involved in managing incidents vary in their authorities, management structures, communication capabilities and protocols, and many other factors. NIMS provides a common framework to integrate these diverse capabilities and achieve common goals. This SACP commits to the use of NIMS when applicable and warranted during an incident in the Ohio River/Cincinnati Inland Zone Sub-Area.

ICS is a standardized on-scene incident management concept designed specifically to allow responders to adopt an integrated organizational structure equal to the complexity and demands of any single incident or multiple incidents without being hindered by jurisdictional boundaries. In ICS considerable emphasis is placed on establishing a Planning Cycle and developing effective IAPs.

Early operational period IAPs have been developed for the Ohio River/Cincinnati Inland Zone Sub-Area and can be found in Appendix B. These IAPs describe roles and responsibilities for agencies and responders, incident objectives, work analysis matrices, incident organization charts, assignment lists, incident communication plans, emergency contact lists, medical plans, health and safety messages, and unit activities logs.

5.3 Response Strategies

Within the ICS organizational concepts described in the preceding sub-section, EPA's management for response to an Inland Zone WCD will be characterized by the strategic considerations outlined below. When applicable, general response strategies or response strategies specific to the Ohio River/Cincinnati Inland Zone Sub-Area are provided below each item.

5.3.1 Command

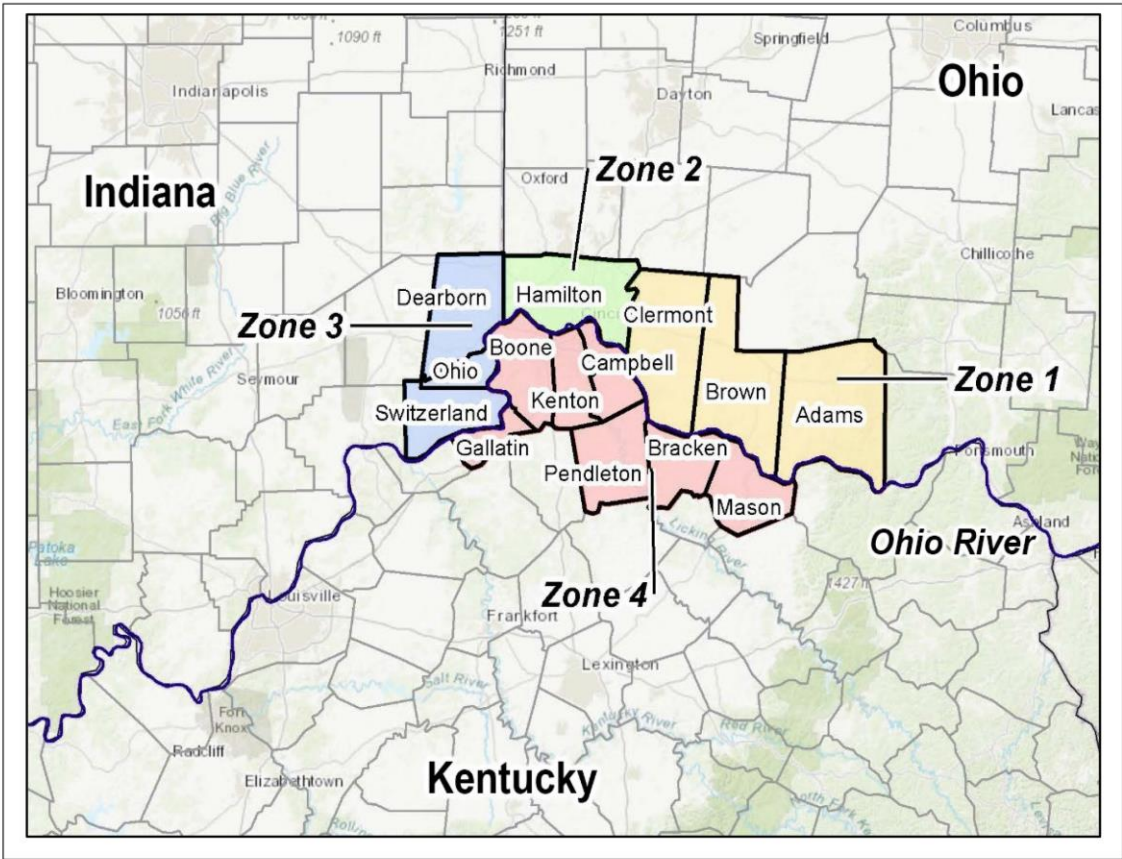
- Protection of Public Health and Safety

OHIO RIVER/Cincinnati INLAND ZONE SUB-AREA INCIDENT ACTION PLAN
(IAP)

Date/Version August 2021

APPENDIX B

Ohio River/Cincinnati Inland Zone Sub-Area Incident
Action Plans



This Initial Incident Action Plan (IAP) is developed to aid in initiating a timely and effective response to spills of oil and other hazardous materials. It is intended to be used during Operational Period #1 of response only at the discretion of the Incident Commander. It is not intended to supersede the direction of the Incident Commander or eliminate the need for ongoing communication during a response.

IAP Approved by Incident Commander(s)			
ORG	Name		DATE/TIME
		First Local IC (Fire Chief., County EM, etc.)	
		First Responding State or Tribal Official	
		EPA On-Scene Coordinator (OSC)	

General Spill Roles and Responsibilities

Agencies	General Roles and Responsibilities
Ohio River Valley Water Sanitation Commission (ORSANCO)	<p>ORSANCO was established in 1948 to control and abate pollution in the Ohio River Basin. ORSANCO is an interstate commission representing eight states and the federal government. Member states include: Illinois, Indiana, Kentucky, New York, Ohio, Pennsylvania, Virginia and West Virginia.</p> <p>ORSANCO operates programs to improve water quality in the Ohio River and its tributaries, including setting wastewater discharge standards; performing biological assessments; monitoring for the chemical and physical properties of the waterways; and conducting special surveys and studies.</p> <p>In addition, ORSANCO assists state environmental agencies, U.S. EPA and USCG in emergency spill response and notification. Specifically, ORSANCO's role in the event of a spill is to serve as an interstate communications center, assisting in emergency notification procedures to downstream drinking water utilities, and coordinating emergency stream monitoring in order to track contaminant plumes as they flow downstream.</p> <p>ORSANCO monitors for the following volatile organic compounds:</p> <ul style="list-style-type: none"> 1,1 Dichloroethylene 1,2 Dichloroethane Chlorobenzene Methylene Chloride Trichloroethylene Ethylbenzene 1,1 Dichloroethane 1,2 Dichloropropane Styrene Chloroform Dichlorobromomethane Bromoform 1,1 Trichloroethane Toluene 1,3 Dichlorobenzene Carbon Tetrachloride Tetrachloroethylene 1,4 Dichlorobenzene Benzene Dibromochloromethane 1,2 Dichlorobenzene <p>Monitoring takes place at the drinking water utilities located along the rivers, including: Pittsburgh Water; Pennsylvania American Water at Hays Mine; Westview Water; Weirton Water; Wheeling Water; DuPont Facility at Washington Works; John Amos Power Plant; Huntington Water; Portsmouth Water; Louisville Water; Evansville Water; and Paducah Water.</p>

Ohio Environmental Protection Agency (Ohio EPA)	<p>Authority: For the state of Ohio, the legal requirements for responding to a discharge or release within the State of Ohio are set forth in The Ohio Administrative Code Title 37, Chapter 3745.</p> <p>Response: Ohio EPA is the designated representative of RRT 5 for Ohio. Ohio EPA is also the State agency charged with investigating releases of oil and hazardous substances from both fixed and mobile facilities. Ohio's spill response program is housed in the Emergency Response Unit (ERU), which is a part of the Division of Environmental Response and Revitalization. This unit, which is responsible for receiving reports of releases to all environmental media, uses 15 spill responders to aid in chemical identification, containment, cleanup, public safety, and the identification of RPs. If a RP cannot be identified or is recalcitrant, the ERU can activate a level-of-effort contractor to initiate actions to contain or clean up a spill.</p> <p>Personnel: OSCs in Ohio EPA's ERU operate a 24-hour spill reporting line for Ohio; provide technical assistance to local responders and responsible parties; and respond to locations 24-hours a day for spills of petroleum, hazardous substances, extremely hazardous substances, and objectionable substances that are of a quantity, type, duration, and in a location as to damage the waters of Ohio.</p>
Ohio Department of Natural Resources (ODNR)	<p>The ODNR acts to protect Ohio natural and recreational resources. Ohio Officers and ODNR employees are tasked in assessing damages, restoration of natural resources, and providing law enforcement functions during a spill. Data acquired by ODNR could be used to determine the extent of damage to natural resources, to develop restoration or replacement strategies, and to develop and submit a claim for damages to the Responsible Party to implement the most appropriate restoration actions.</p>
Ohio Department of Health	<p>Ohio Department of Health will support local health departments and UC to provide expertise /support to UC on identification of risks and assessment of risk to the public posed by spilled oil or hazardous substances. This includes:</p> <ul style="list-style-type: none"> - helping to determine what levels of contaminants are harmful, - what methods are appropriate to measure contaminants, - communication of risk to the public, and - helping make determinations relating to when public health risk has been effectively mitigated.



Incident name:

ICS – 234 INITIAL RESPONSE CHECKLIST
OHIO RIVER - CINCINNATI SUB-AREA SPILL RESPONSE PLAN

UNIFIED COMMAND

Recommended Strategies, Tactics or Tasks

UNIFIED COMMAND:

- ☐ Establish Unified Command. Member should include U.S. EPA, USCG, RP, state and local responders.
- ☐ Establish incident objectives and priorities.
- ☐ Establish a response organization.
- ☐ Determine Responsible Parties (RP).

SAFETY:

- ☐ Develop a Health and Safety Plan
- ☐ Prevent or stop unsafe work conditions.
- ☐ Identify hazardous conditions associated with the incident.
- ☐ Develop a safety message

PUBLIC AFFAIRS:

- ☐ Gather incident data and information for media briefings.
- ☐ Conduct media briefings.
- ☐ Coordinating with County and State emergency managers and local Sheriff, provide emergency communications to impacted public.

LIAISON:

- ☐ Establish interagency contacts.
- ☐ Ensure response agencies are supporting the incident.
- ☐ Ensure notifications to NRC, downstream states, municipalities, drinking water intakes, and economically sensitive businesses (ORSANCO)

OPERATION SECTION

Recommended Strategies, Tactics or Tasks

OPERATIONS:

- ☐ Contain and stabilize spill sources.
- ☐ Establish perimeter and hot zone.
- ☐ Develop work assignments.
- ☐ Develop a spill recovery plan.
- ☐ Open up the Oil Spill Liability Trust Fund (OSLTF) for a Pollution Removal Fund Authorization (PRFA).
- ☐ Mobilize company responders, local spill CO-OP, first responders, county emergency government and hazmat teams, state and federal responders and their contractors.
- ☐ Hire a response contractor(s) if RP not adequately responding.
- ☐ Respond to oiled wildlife. Seek assistance from US Fish and Wildlife Service.
- ☐ See Mill Creek Response Plan Appendix, if applicable
- ☐ **Use of chemical agents in the Ohio River is not pre-approved.**
- ☐ **Sinking agents shall not be used.**

RIVER OPERATIONS:

- ☐ Establish river traffic control, river-traffic evacuation, no-boating area
- ☐ Determine if it is safe for response personnel to be in boats on Ohio River
- ☐ Establish shore land perimeter control areas
- ☐ Notify and evacuate, if necessary, house boats and boat house owners and occupants

PLANNING SECTION

Recommended Strategies, Tactics or Tasks

PLANNING:

- ☐ Establish planning cycle.
- ☐ Collect, process, and display situation information about the incident.
- ☐ Conduct spill modeling and spill trajectories.
- ☐ Develop a monitoring plan for water quality.
- ☐ Identify sensitive resources. See Inland Sensitivity Maps.
- ☐ Conduct spill trajectory and time of travel to predict downstream impacts.
- ☐ Establish data management plan.
- ☐ Identify spill response resources for next Operational Period.

LOGISTICS SECTION

Recommended Strategies, Tactics or Tasks

LOGISTICS/COMMUNICATIONS:

- ☐ Establish an Incident Command Post for briefings.
- ☐ Establish communications protocol for the incident.
- ☐ Acquire additional communication resources if needed.

LOGISTICS/PROCUREMENT:

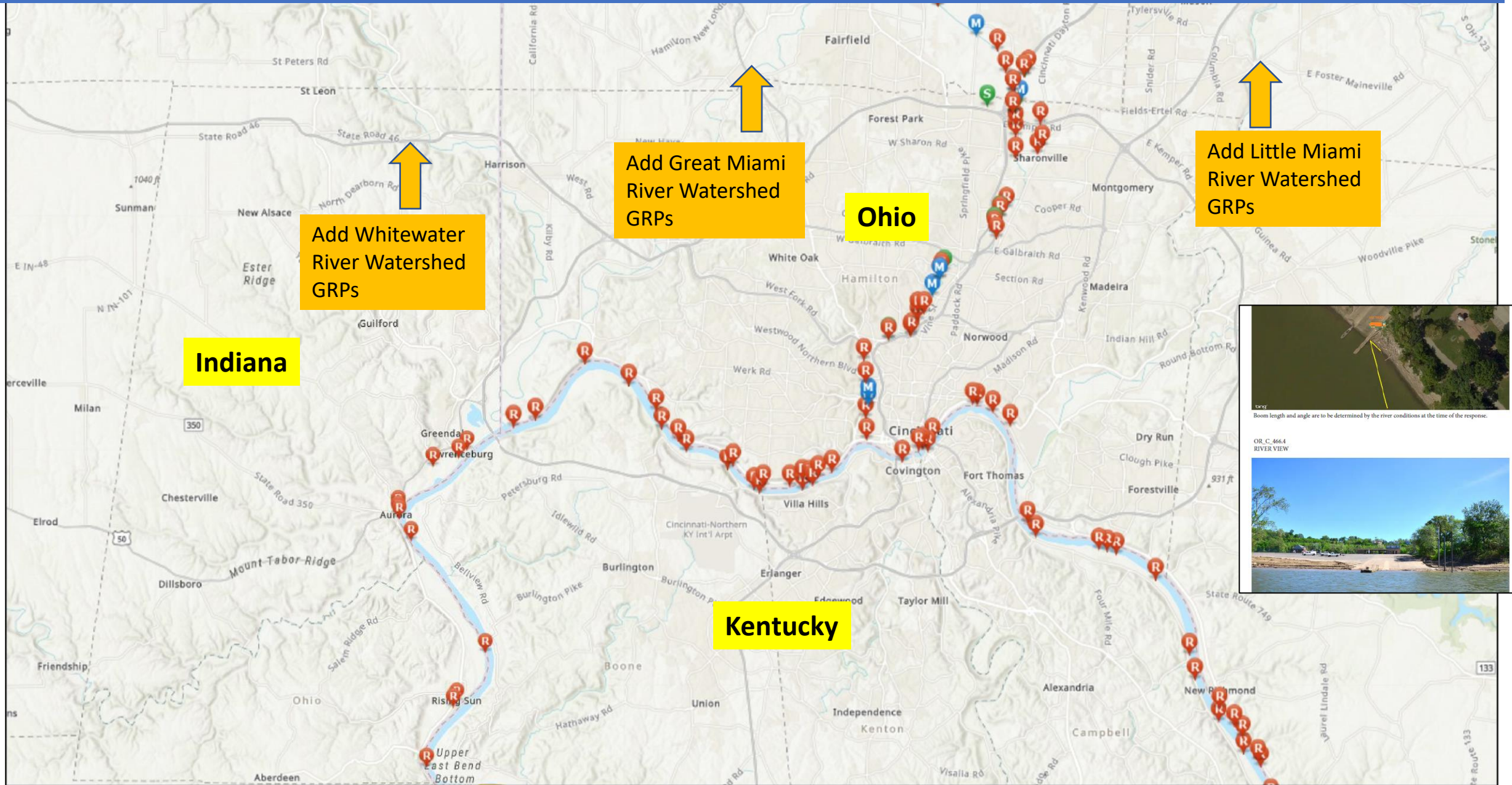
- ☐ Ensure procurement of materials and supplies.
- ☐ Obtain authorization to initiate and finalize purchases
- ☐ Interpret and initiate contracts/agreements.
- ☐ Maintain log of all purchases related to the incident.

1. Incident Name: _____	2. Operational Period # 1: _____ 3. Section: <u>Operations</u> 4. Division/Group: <u>Containment</u>	ICS – 204 ASSIGNMENT LIST Ohio River/Cincinnati Area				
5. Agencies Involved in Contain Release Group						
Agencies that might play a role in Containment Group: <ul style="list-style-type: none"> Responsible Party/Facility/Industry/Contractors Counties and Emergency Management Local Fire, Police, Sheriff, and Hazmat Team Greater Cincinnati Hazardous Material Control Committee (GCHMCC – Spill Co-Op) State Environmental Agency (OEPA, IDEM, KDEP) US Environmental Protection Agency (US EPA) Region 5 						
Agency General Roles and Responsibilities: Refer to the Roles and Responsibilities Table provided in this Incident Action Plan						
6. Recommended Strategies and Tactics						
<ul style="list-style-type: none"> Mobilize company responders, local spill Co-op, first responders, county emergency government and hazmat teams, state and federal responders and their contractors. Utilize company and locally stored equipment such as oil spill boom, sorbents, tanker trucks, vacuum units, oil collection equipment or pre-staged response equipment. Mobilize local personnel and resources. Activate Spill Response Contractors (if company response too slow or inadequate). Activate and implement oil boom collection and recovery plan. Contain and stabilize oil sources. Evaluate the control of river level to facilitate spilled product collection and control (note: changing levels can cause larger smear zones). 						
7. Incident-Specific Assignments						
Insert Specific Assignments						
8. Special Instructions for Division/Group						
Insert special instructions						
9. Operations Personnel (Add rows as necessary)						
Title	Name	Affiliation	Emergency Contact #	Contact #		
_____	_____	_____	_____	_____		
_____	_____	_____	_____	_____		
Communications: Refer to the Emergency Contact List provided in this Incident Action Plan						
10. Resource Summary (Add rows as necessary)						
ID	Resource Type	Description/ Location	Quantity	Size	Status	Notes/ Comments
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
11. Additional Information						
Insert additional information if necessary						
Prepared By: (Name/Title) _____					Date/Time: _____	

OHIO RIVER/Cincinnati EMERGENCY CONTACT LIST					
NAME	ORGANIZATION	Emergency #	Phone #	E-Mail	Other (Radio)
Local (Add rows as necessary)					
Dearborn County and LEPC	William Black, Jr., Director		812.537.3074	wblack@dearbornco.org	
Ohio County EMA	Joe Teke, Director		812.438.2883	jteke@ohioco911.com	
Ohio County LEPC	G. Tom Work, Chair	812.438.3636	812.438.3636	ronrichard@embarqmail.com	
Switzerland County EMA	George Adams, Director		812.427.3346	switzcoema@embarqmail.com	
Switzerland County LEPC	Christopher See, Chair	812.427.3636	812.427.9015	see.christopher@yahoo.com	
Hamilton County EMA	Nick Crossley, Director		513.263.8200	nick.crossley@hamilton-co.org	
Hamilton County LEPC	Nicholas Crossley, Emergency Coordinator	513.825.2260	513.263.8206	Nicholas.crossley@hamilton-co.org	
	Doug Witsken, LEPC Coordinator	513.312.3242		Doug.Witsken@hamilton-co.org	
Clermont County EMA/LEPC	Pam Haverkos, Director		513.732.7661	Clermontema@clermontcountyohio.gov	
			513.735.8502	phaverkos@clermontcountyohio.gov	
Brown County EMA and LEPC	Tom Peterson, Director		937.378.5100	browncountyLEPC@gmail.com	
Adams County EMA and LEPC	Karen Howelett, Director	937.544.2314	937.544.6123	adamsema1@yahoo.com	
Gallatin County EMA	Barry Alexander, Director		859.567.2452	delmar850@insightbb.com	
Boone County EMA	Mark Ihrig, Director		859.334.2279	mihrig@boonecountyky.org	
Kenton County EMA	Steve Hensley, Director		859.392.1480	steve.hensley@kentoncounty.org	
Campbell County EMA	William Turner, Director		859.635.1111	eoc@campbellcountyky.org	
Pendleton County EMA	Mike Morre, Director		859.654.1930	pcdes@fuse.net	
Bracken County EMA	F. Neider Reynolds, Director		606.735.2570	bcas41004@yahoo.com	
Mason County EMA	Jack Fultz, Director		606.564.2570	mccem@maysvilleky.net	
Greater Cincinnati Water Works (GCWW)	24hr staffed control room	513.624.5812			
	24hr staffed shift chemist	513.368.1309			
	Shift Supervisor	513.378.0760			
	Bruce Whitteberry, Water Quality & Treatment	513.378.0679			
ORSANCO	Sam Dinkins	513.231.7719	513.509.2972	sdinkins@orsanco.org	ORSANCO

OHIO RIVER/Cincinnati EMERGENCY CONTACT LIST					
NAME	ORGANIZATION	Emergency #	Phone #	E-Mail	Other (Radio)
Local (Add rows as necessary)					
Greater Cincinnati Hazardous Materials Unit (GCHMU)	Brooke Matzen, Office Administrator		513.779.1200	Link to website: http://www.gchmu.com/home	Cincinnati Hazardous Materials Unit (GCHMU)
Hamilton County Communications Center	To access the GCHMU	513.825.2280			Hamilton County Communications Center
Greater Cincinnati Hazardous Material Control Committee (GCHMCC – Spill Co-op)	Mike Doll		513.557.4212 513.616.4915 cell	Link to website: http://gchmcc.org/ mdoll@petercremerma.com	
Wildlife Rehabilitation Contractors	Focus Wildlife	800.578.3048		Link to website: http://www.focuswildlife.net/	
State (Add rows as necessary)					
IDEM	IDEM Emergency Response Hotline	888.233.7745			
Ohio EPA	Ohio EPA Emergency Response Hotline	800.282.9378			
KDEP	KDEP Emergency Response Hotline	800.928.2380			
Ohio EPA Manger	Southwest District Office – Dayton, OH Jodi Billman-Kotsko	614.230.7311	937.285.6357 614.836.8761	Jodi.billman-kotsko@epa.ohio.gov	
Ohio EPA OSCs	Amanda Browne	937.203.7184	937.285.6599	Amanda.browne@epa.ohio.gov	
	Toni Carmichael	614.867.1055	937.285.6090	Toni.carmichael@epa.ohio.gov	
	Keith Wise	937.478.9177	937.285.6037	Keith.wise@epa.ohio.gov	
IN DNR – Executive Office	Robert Carter, Director		317.232.4020		
IN DNR - Division of Fish & Wildlife	Mark Reiter, Director Division of Fish & Wildlife		317.232.4080		
Ohio Department of Natural Resources (ODNR)	ODNR Communications Center		614.799-9538	odnrcomm@dnr.state.oh.us	
Kentucky Division of Fish & Wildlife	Fish & Wildlife Communications Center	800.252.5378	800.252.5378		
IN DHS	Indiana DHS – Hazardous Materials Incidents	800.669.7362	800.423.0765		
Ohio EMA	Ohio EMA	614.889.7150	614.889.7150		
Kentucky Emergency Management (KYEM)	KYEM Communication Information Center	800.255.2587	800.255.2587		

Next Steps: 2021-2022 expansion to Whitewater River, Great Miami River, and Little Miami River watersheds



EPA REGION 5 INLAND ZONE SUB-AREA CONTINGENCY PLAN FOR OHIO RIVER/CINCINNATI AREA



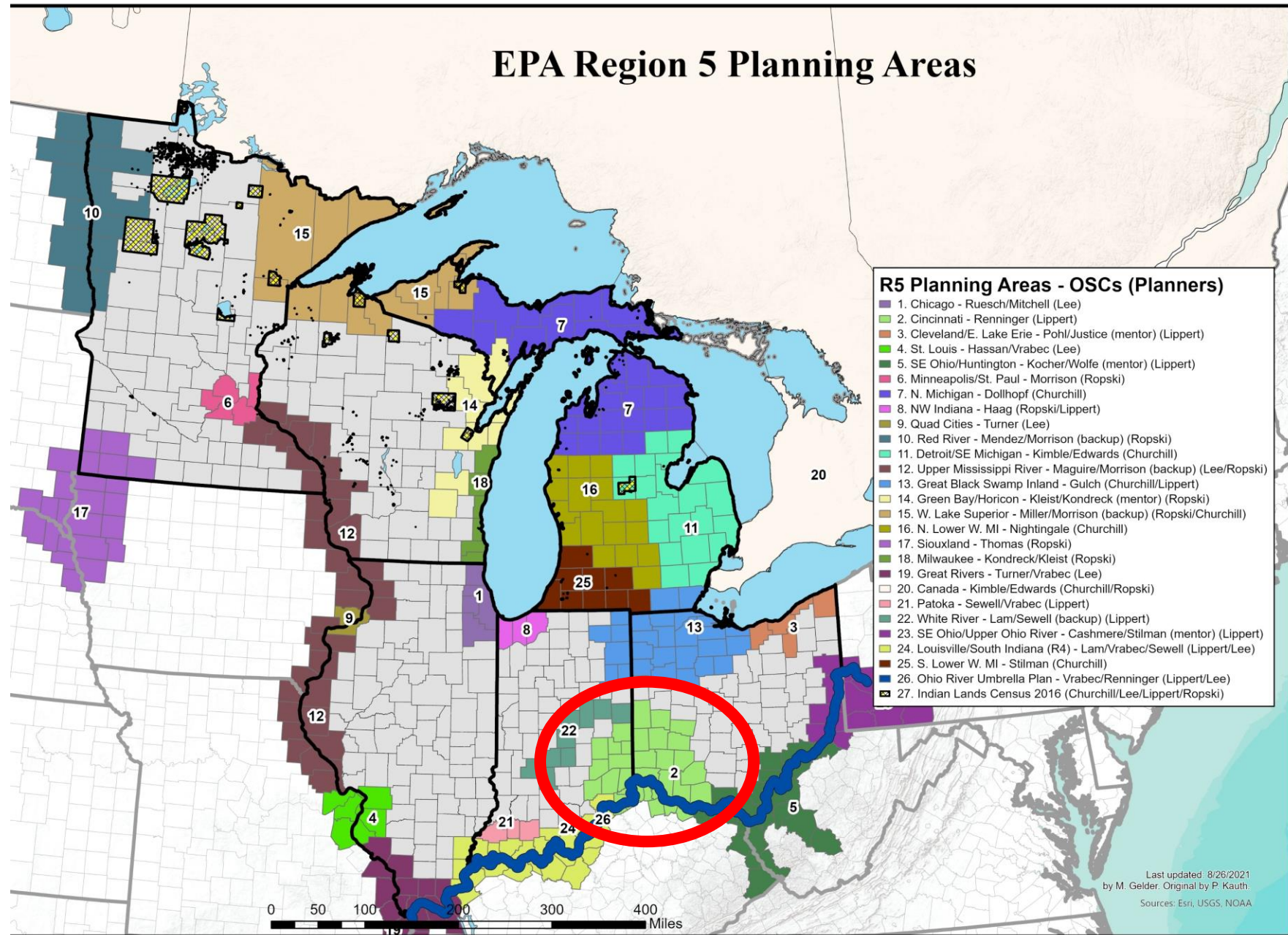
**ENVIRONMENTAL
PROTECTION AGENCY**

Steven L. Renninger
On-Scene Coordinator
Emergency Response Branch

Office B-2
26 West Martin Luther King Dr
Cincinnati, OH 45268

Telephone: (513) 569-7539
Fax: (513) 569-7546
E-mail: Renninger.Steven@epa.gov

Cell Phone: 513-260-7849





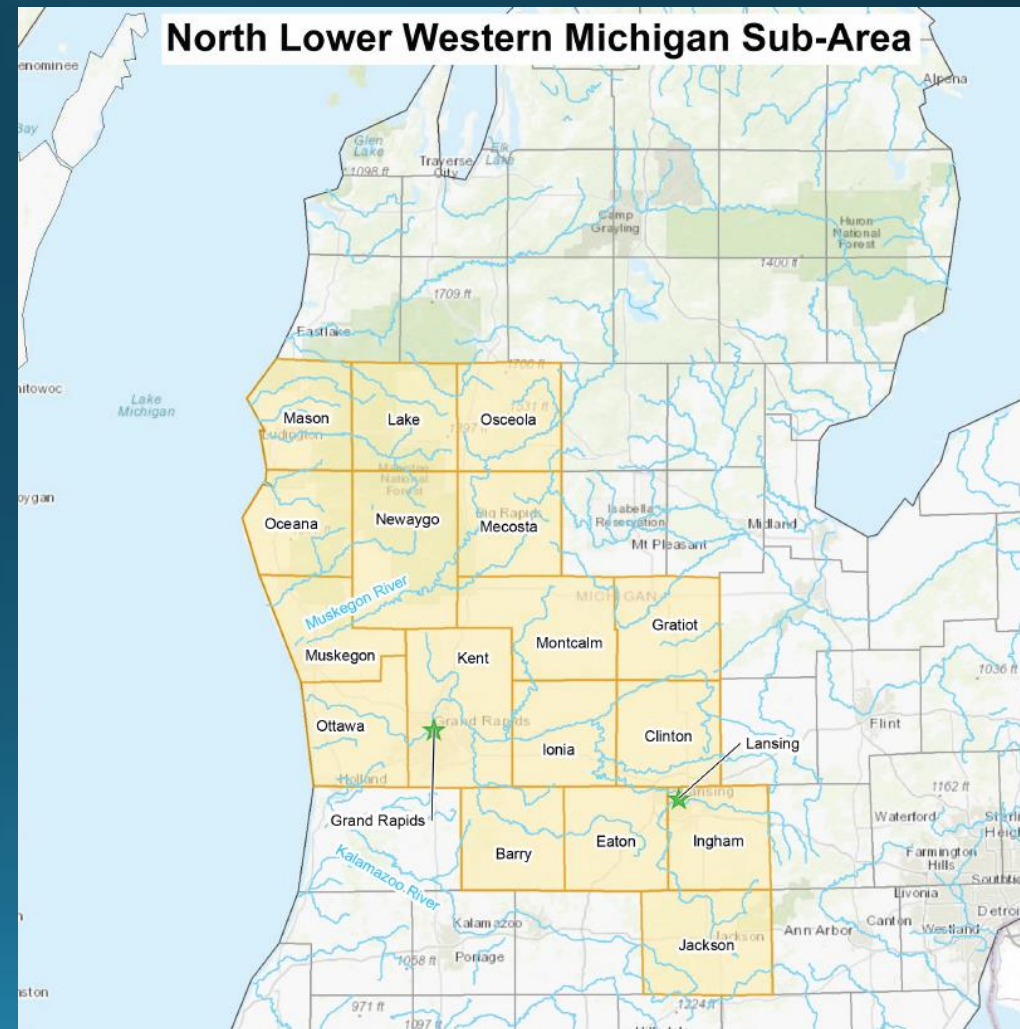
North Lower Western Michigan (NLWM) Inland Area Sub-Area Contingency Plan





NLWM Inland Sub-Area

- **EPA On-Scene Coordinators:** Betsy Nightingale and Jackie Cole
- **EPA Planner:** Kim Churchill
- **Includes 17 counties:** Barry, Clinton, Eaton, Gratiot, Ingham, Ionia, Jackson, Kent, Lake, Mason, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Osceola, and Ottawa
- **Major watersheds** include Lower Grand, Upper Grand, Maple, Thornapple, Pere Marquette-White, and Muskegon



Plan Components

- Section 1
 - Introduction – Authority, Jurisdiction, Scope
- Section 2
 - Areas of Special Economic Interest and Environmental Importance
 - Identifying and Integrating with Other Plans
- Section 3
 - Figures and Mapping Resources
 - Contacts and Notifications
 - Resources
 - Mutual Aid
- Section 4
 - Hazard Analysis – Hist. Discharges, MPD Scenarios, WCD
- Section 5
 - Response to WCD

Applies to discharges of oil subject to CWA Regs. and releases of hazardous substances

Plan Appendices

- Appendix A – Figures
- Appendix B – Incident Action Plan(s)
- Appendix C – County Fact Sheets
- Appendix D – Habitat and Species Fact Sheets
- Appendix E – Response Plans
- Appendix F – Resource Inventory List
- Appendix G – Worst Case Discharge Analysis (*Redacted*)
- Appendix H – Acronyms
- Appendix I – Tribal Fact Sheets

Plan Highlights – Section 2

- Areas of Special Interest and Importance
 - For details see main body of Plan, as well as County Fact Sheets; Habitat and Species Fact Sheets and Tribal Fact Sheets

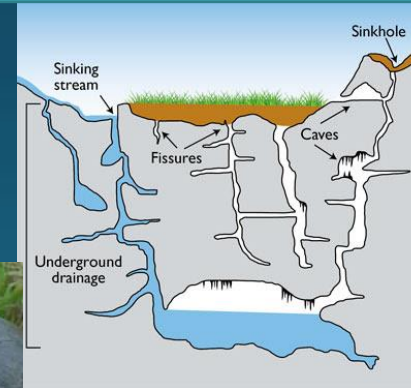
13 Federal T & E
Species



3 Tribal Restoration
Priorities



Many Env. Sen. Areas



Culturally Sen. Areas
236 NHP
6 NHL
14 Arch. Sites
11 Hist. Dist.
Many Tribal Res.



Plan Highlights – Section 3

- Developed Figures and Summarized Mapping Resources
 - For details see main body of Plan, as well Appendix A

MI Mapping Project

Disaster Debris
Recovery Tool



NORTH LOWER WESTERN MICHIGAN SUB-AREA ZONE 1



FRP Facilities

ID	NAME
4	BUCKEYE TERMINALS, LLC - FERRYSBURG TERMINAL
7	CITGO PETROLEUM CORPORATION FERRYSBURG TERMINAL
12	MARATHON PETROLEUM CO - NORTH MUSKEGON MI TERMINAL
14	HOLLAND TERMINAL, LLC (FRP Facility: status to be confirmed)

Watersheds

ID	HUC10	NAME
1	0405000203	Pigeon River-Frontal Lake Michigan
2	0405000204	Macatawa Bay
10	0405000308	Rabbit River
26	0405000604	Rogue River
27	0405000605	Rush Creek-Grand River
28	0405000606	Crockery Creek
29	0405000607	Grand River
34	0406010101	Big Sable River
35	0406010102	Lincoln River
37	0406010104	Big South Branch Pere Marquette River
38	0406010105	Pere Marquette River
39	0406010106	Pentwater River
40	0406010107	South Branch White River
41	0406010108	North Branch White River
42	0406010109	White River
43	0406010110	Stony Creek-Frontal Lake Michigan
49	0406010209	Brooks Creek-Muskegon River
50	0406010210	Muskegon River
52	0406010306	Little Manistee River

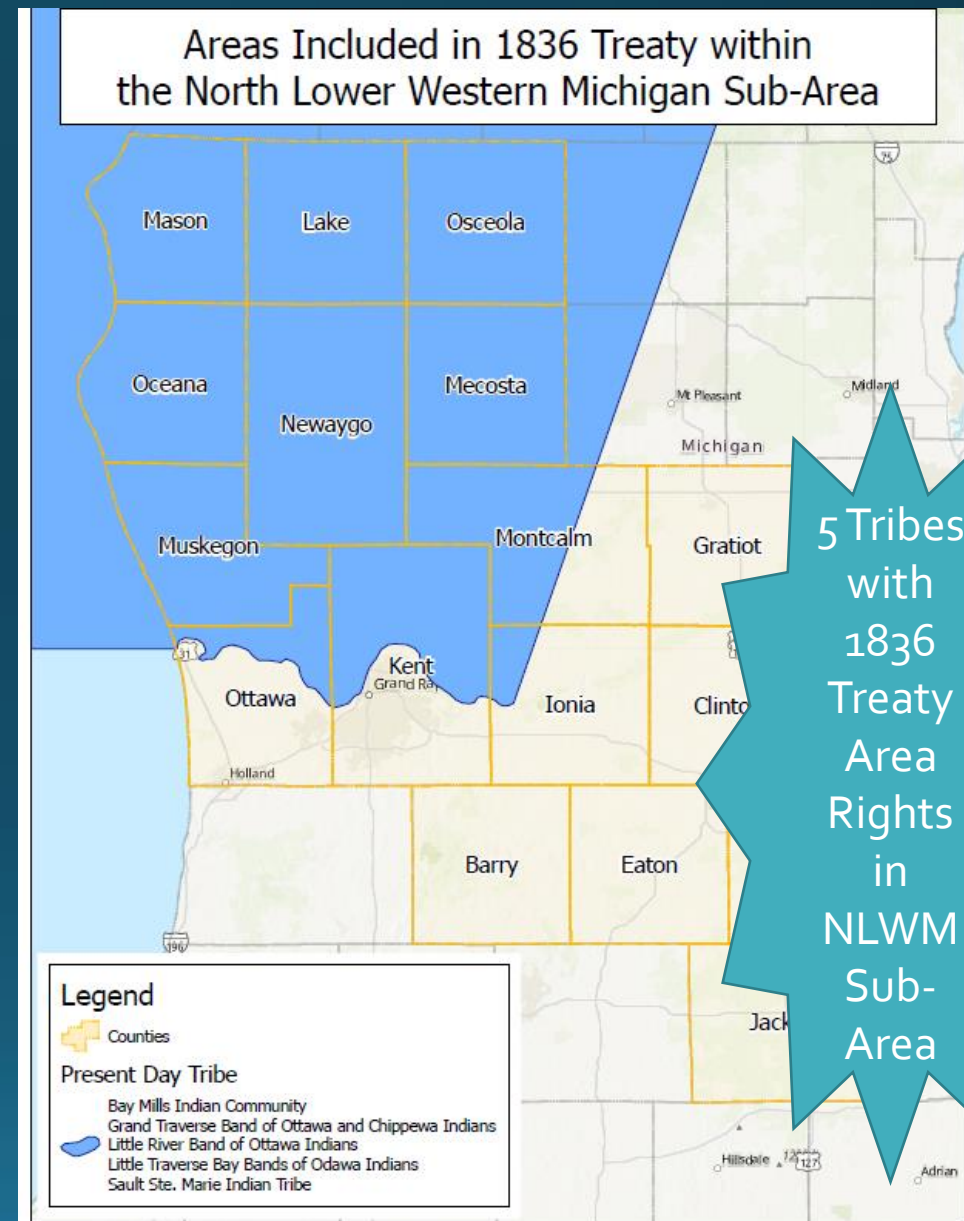
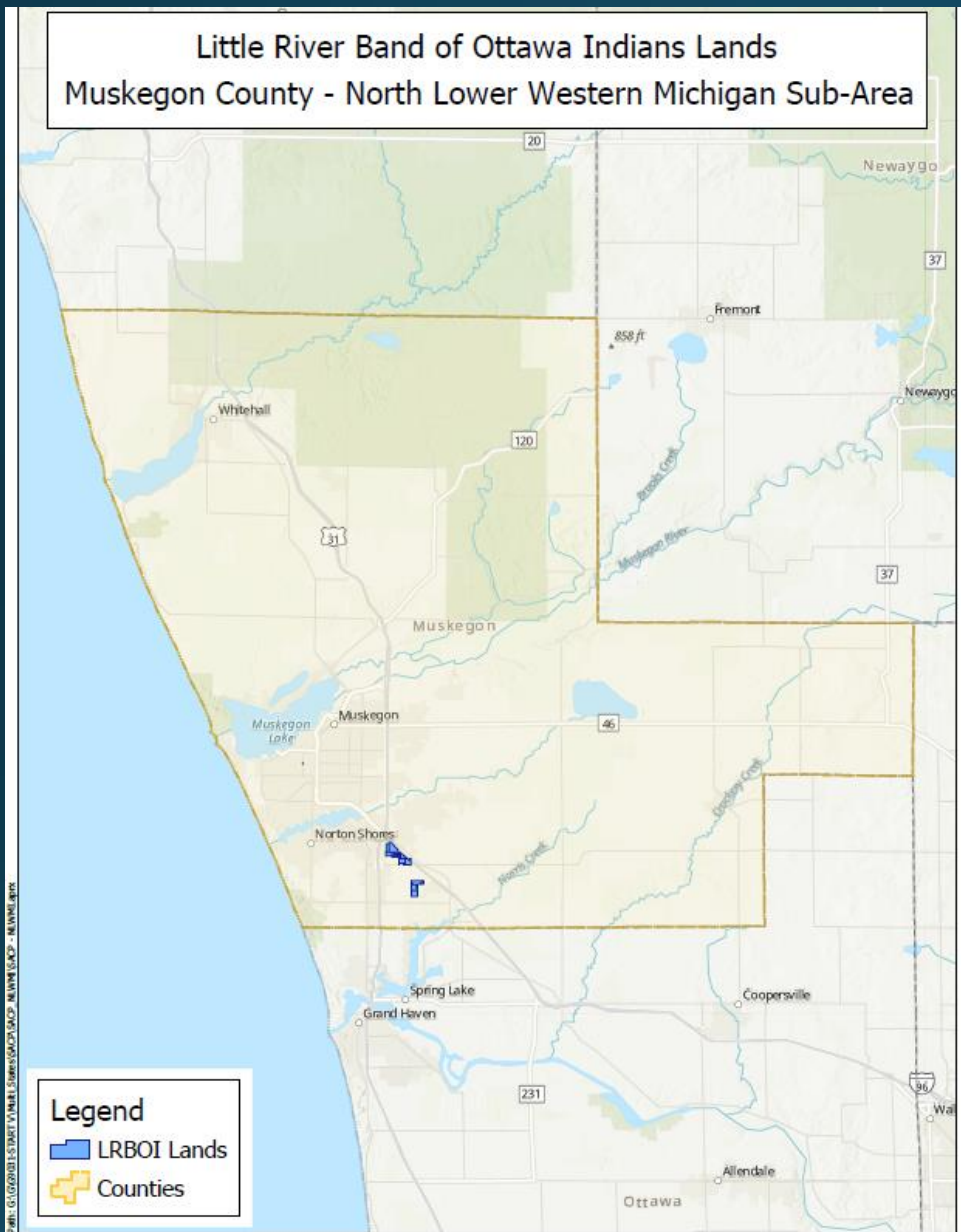
Legend

- FRP Facilities
- ▲ Aboveground Storage Tanks
- Hazardous Materials Storage
- Railroad Yards
- X Railroad Bridges
- X Pipeline River Crossing
- Petroleum Pipelines
- Railroads
- Rivers
- County Boundary

Counties in Zone 1:

- Mason
- Muskegon
- Oceana
- Ottawa

Detailed Maps of Each County

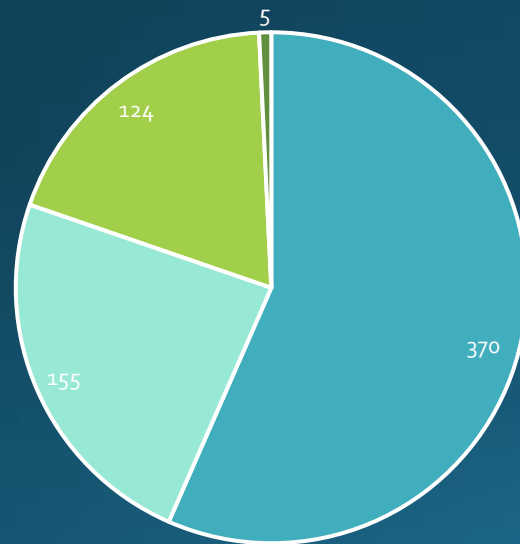


Maps of Tribal Lands and Treaty Areas

Plan Highlights – Section 4

- Hazard Analysis – Hist. Discharges, MPD Scenarios, WCD
 - For details see main body of Plan

NLWM - 2010 to 2020 Spill Reports to NRC



Oil 1 Hazardous 2 Other 3 Unknown 4

Potential major sources of discharges of oil and releases of hazardous substances within the defined sub-area, such as fixed facilities or transportation routes with high volumes of oil or hazardous substances in transit, have been considered



WCD Analysis Considerations

- Location
- WCD amount and type of oil
- Total capacity
- Planning distance and affected waterways
- Vulnerability analysis
 - Drinking water intakes
 - Environmentally sensitive areas



WCD Analysis



- **FRP Facilities**

- ❖ 9* active FRP facilities within sub-area
- ❖ Facility storage capacities ranging from 7.5 to 18.5 million gallons
- ❖ WCD: 6,820,000+ gallons → Muskegon River → Lake MI

- **Pipelines**

- 297 miles of pet. Pipeline
- 6 pipeline terminals

- **Railroads**

WCD is the greater of:

- ✓ 300,000 gallons of liquid petroleum oil; OR
- ✓ 15% of the total lading of liquid petroleum oil transported within the largest unit

- **Vessels**

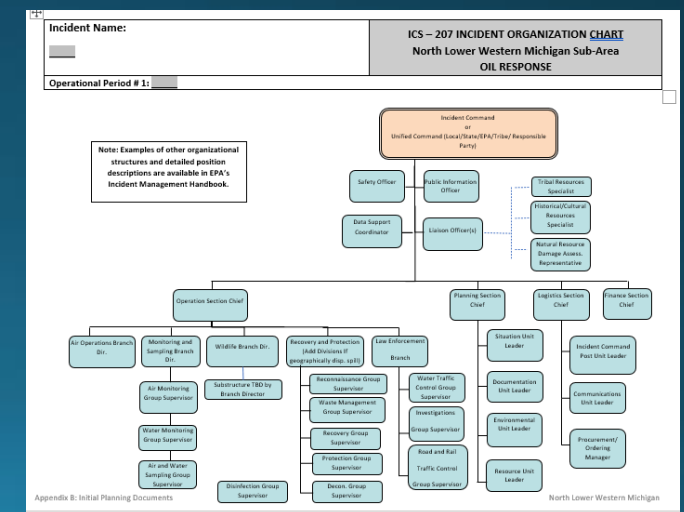
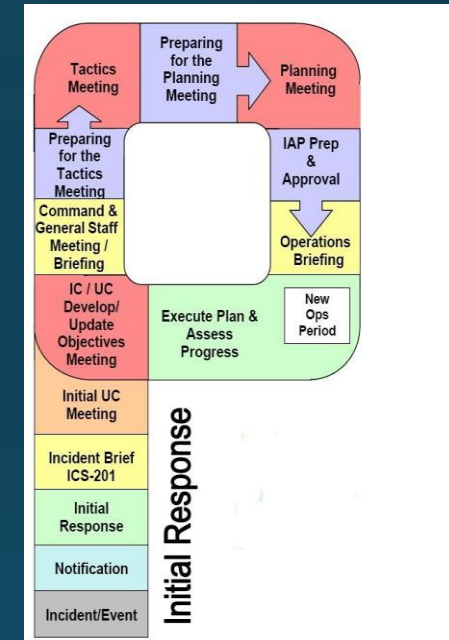
- Bulk oil carriers carry up to 6,300,000 mil. Gal, but do not make MI Port calls
- Carriers with approx. 160,000 gal make port calls in Muskegon and Ludington

- **Roadways**



Plan Highlights - Appendix B – Draft IAP

- Integrates EPA's Planning Process, EPA Forms, and numerous examples including objectives, involved organizations, response structures, staffing
 - Includes:
 - ICS 201 – Initial Briefing Form
 - INITIAL DRAFT INCIDENT ACTION PLAN FOR FIRST OPERATIONAL PERIOD
 - Initial IC/UC Meeting Summary Form
 - ICS – 201 INCIDENT OBJECTIVES
 - ICS – 204 ASSIGNMENT LIST for all major activities
 - ICS – 205 INCIDENT COMMUNICATION PLAN with NORTH LOWER WESTERN MICHIGAN SUB-AREA EMERGENCY CONTACT LIST
 - ICS – 206 MEDICAL PLAN
 - ICS – 207 INCIDENT ORGANIZATION CHART - Oil
 - ICS – 207 INCIDENT ORGANIZATION CHART – Haz Mat
 - ICS – 223 HEALTH AND SAFETY MESSAGE
 - ICS – 234 WORK ANALYSIS MATRICES
 - ICS - 230 DAILY MEETING SCHEDULE



Plan Highlights - Appendix C

- County by county summary of:

Local EOC	Public Health Departments	County Contacts
State Contacts	Major Cities/Towns	Tribal Lands
Hospitals	Urgent Care Facilities	Water Intakes
Wastewater Treatment Plants	Specially Designated Areas	Managed Lands
Historic Places	Archaeological Sites	Other Environmentally Sensitive Areas
Threatened and Endangered Species	Sensitive Species	Aboveground Storage Tank Facilities
Hazardous Materials Storage Facilities	FRP Facilities	RMP Facilities
EPLAN/TIER II Facilities	Railroads	Petroleum Pipelines
Oil and Natural Gas Pipelines	Marinas	Boat Access
Navigational Locks and Dams	Non-Navigational Dams	Rivers and Streams
Lakes and Ponds	Response Strategies	

Please note that information included in these reports may be incomplete or no longer accurate due to outdated database information. Information should be verified as appropriate.

Plan Highlights - Appendix I

Tribal Fact Sheets for Gun Lake Band and Little River Band of Ottawa Indians

Fact Sheet: Match-E-Be-Nash-She-Wish Band of Pottawatomi Indians (Gun Lake Band) Allegan County, Michigan

<p>Michigan State Police, Emergency Management and Homeland Security Division (24 Hour emergency notification): (800) 292-4706</p> <p>Michigan Department of Health and Human Services Division of Environmental Health: (800) 648-6942</p> <p>For public health emergencies, contact the Allegan County Health Department: (269) 673- 5411 and the Gun Lake Tribe Health and Human Services: (269) 397-1760</p> <p>Michigan Pollution Emergency Alert System [PEAS] Hotline (24 Hour): (800) 292-4706</p> <p>Michigan Department of Environmental Quality Environmental Assistance Center (non-emergency): (800) 662-9278</p>	<p>CONTACTS</p> <p>Emergency: 911 Non-emergency Gun Lake Tribe: (269) 397-1610</p> <p>Primary Tribal POC: Richard Rabenort, Director of Public Safety (269) 397-1610 c: (616) 291-9963 Tribal Environmental Response Coordinator: Brant Mitchell, brant.mitchell@glt-nsn.gov (269) 397- 1780 c: (616) 916-2153 Shawn McKenney shawn.mckenney@glt-nsn.gov (269) 397-1780 c: (616) 260- 4361 Tribal Chair: Bob Peters bob.peters@glt-nsn.gov (269) 397-1780 Tribal Administrator: Melissa Brown melissa.brown@glt-nsn.gov (269) 397-1780 Tribal Public Safety: Richard Rabenort richard.rabenort@glt-nsn.gov (269) 397-1610 Tribal Safety Coordinator: Brant Mitchell, brant.mitchell@glt-nsn.gov (269) 397-1780 Tribal Health Center: Kelly Wesaw, kelly.wesaw@hhs.glt-nsn.gov (269) 397-1760</p> <p>https://gunlaketribe-nsn.gov/</p> <p>RESERVATION DESCRIPTION</p> <p>County FIPS Codes: MI.26.005 (Allegan) [Reservation Map]</p> <p>Land Area: 1,200 acres Estimated Population: 581</p> <p>Major Industries: Gaming, Tourism, Government Major Rail Lines: Grand Elk Railroad (WATCO Companies) 269-343-3461 Major Roadways: U.S. Route 131, 129th Avenue, 10th Street Major Towns: Shelbyville, Bradley Major Water Bodies: Gun River, Rabbit River, Kalamazoo River 04050003 Ports: None identified</p> <p>HOSPITALS WITH TRAUMA CENTERS</p>
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County - EMA Count	17
County - HD Count	1
County - Sheriff Count	1
Federal - ATSDR Count	2
Federal - DOI Count	1
Federal - FWS Count	1
Federal - Nat. Resp. Center Count	1
Federal - NOAA Count	3
Federal - NRC Count	1
Federal - NWS Count	1
Federal - OSHA Count	1
Federal - US EPA - OSC Count	2
Federal - US EPA - Planner Count	1
Federal - US EPA - Tribal liaison Count	1
Federal - USCG Count	13
Federal - USDA Count	1
Federal - USGS Count	1
Industry Count	10
Industry - Calcium Chloride Count	1
Industry - Co-op Count	2
Industry - Former Oil FRP Facility Count	2
Industry - Oil FRP Facility Count	20
Industry - Oil Storage Facility Count	1
Industry - Pipeline Count	8
Industry - Rail Count	9
Industry - Response - OSRO Count	6

County – 19
Fed – 31
Industry -49
Muni- 18
State – 29
Tribal - 3

Sub-Area Membership

Municipal - BPW Count	1
Municipal - EMA Count	6
Municipal - EMA/City Manager Count	1
Municipal - Fire Count	1
Municipal - WTP Count	8
Municipal - WWTP Count	1
State - DNR Count	2
State - EGLE Count	11
State - Health Count	3
State - Military Count	2
State - MIOSHA Count	1
State - MSP Count	9
State - SHPO Count	1
Tribal Count	3

NLWM Planning Website



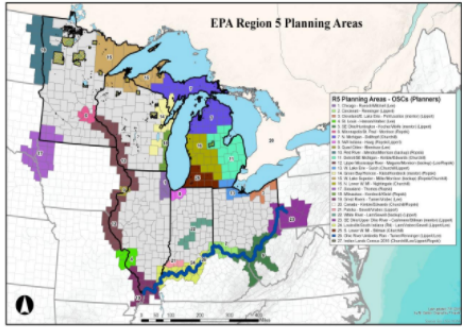
Site Profile - North Lower Western MI (NLWM) Planning Sub-Area

response.epa.gov/site/site_profile.aspx?site_id=14569

OSC On-Scene Coordinator

Profile Notices Images Documents Pol/SitReps Contacts Links Account

North Lower Western MI (NLWM) Planning Sub- Area



Site Contact:
Elizabeth Nightingale / Jackie Cole
OSC
(nightingale.elizabeth@epa.gov)

Site Location:
Ann Arbor, MI 48103
response.epa.gov/NLWM

[Delete Site](#)

Resources

Documents

- Sub-Area Contingency Plan - Ap...
- Barry...
- Clinton...
- Eaton...
- All Documents

Contacts

- OSC
Elizabeth Nightingale
(nightingale.elizabeth@epa.gov)
- OSC
Jackie Cole
(cole.jacquelyn@epa.gov)
- All Contacts

Links

- Michigan Mapping Program (Stak...

[Edit Site Info](#) [Edit Contaminants](#)

[Edit Site Abstract](#)

Website devoted to coordinating emergency planning and preparedness efforts within EPA's North Lower Western Michigan (NLWM) Planning Area. The NLWM planning area is made up of seventeen Michigan counties: Barry, Clinton, Eaton, Gratiot, Ingham, Ionia, Jackson, Kent, Lake, Mason, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Osceola, and Ottawa.

RESPONSE.EPA.GOV/NLWM



NLWM Sub Area Contact Info

❖ **Betsy Nightingale – On-Scene Coordinator, EPA Region 5**

phone: (734) 770-8402

email: nightingale.elizabeth@epa.gov

❖ **Jackie Cole – On-Scene Coordinator, EPA Region 5**

phone: (312) 597-4421

email: cole.jacquelyn@epa.gov

❖ **Kim Churchill – Planner, EPA Region 5**

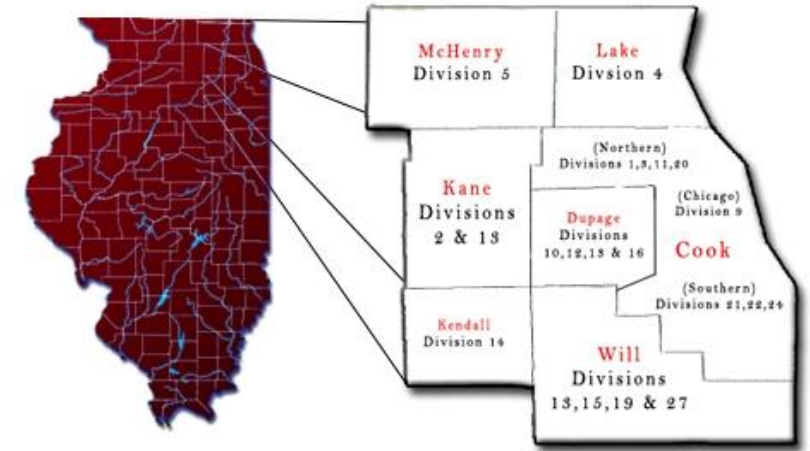
phone: (734) 214-4898

email: Churchill.Kimberly@epa.gov





Division 10



Pipeline Incident IAP/SOG

Deputy Chief James Connolly, Westmont FD

Lt. Steve Vogel, Tri-State FD

Mike Wilson, Hinsdale FD/MABAS 10 Hazmat Team Leader

Shift Commander Rob Grachan, Citgo - Lemont Refinery FD

Paul Ruesch, US EPA Region 5 Emergency Response Branch

Katherine Cooper, TetraTech, Inc.



Division 10

Objectives

- Describe roles that agencies and others would likely play in a pipeline incident
- Give responders a mechanism to help organize both in advance and during a response
- Help multiple agencies to coordinate their operations and resources and to make effective and efficient use of their personnel, supplies, and time.



Division 10

Scope & Products

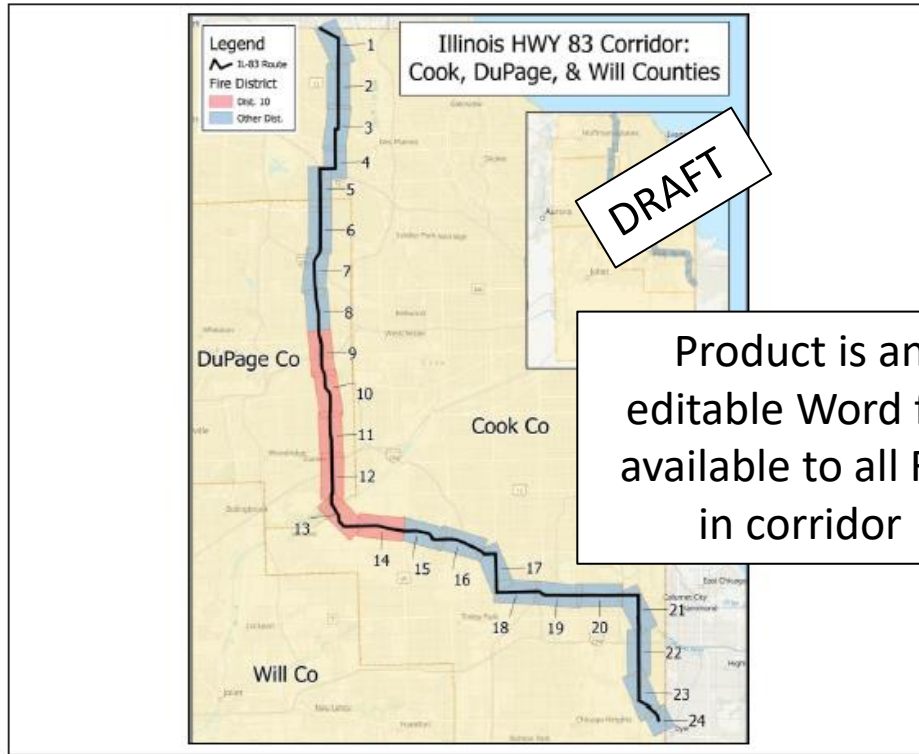
- MABAS 'Standard Operation Guide' (SOG)
 - To effectively respond to pipeline events by isolating the scene, identifying product, notifying the affected pipeline's owner, notify appropriate agencies and containing the hazard
- I-83 corridor-specific IAP (DuPage/Cook/Will Counties)
 - Prepare for a pipeline release originating from pipelines in the corridor
 - Map layers (HSIP, ISA) into on-board GIS platforms on FD/HazMat Team rigs (Flow MSP)
- Generic 'Pipeline Incident Response' IAP

I-83 CORRIDOR PIPELINE INCIDENT RESPONSE

DuPage/Cook/Will County

INCIDENT ACTION PLAN (IAP)

Date/Version: 2021/Version 1



This Initial Incident Action Plan (IAP) is developed to aid in initiating a timely and effective response to a pipeline release. It is intended to be used during the initial Operational Periods of a response only at the discretion of the Incident Commander. It is not intended to supersede the direction of the Incident Commander or eliminate the need for ongoing communication during a response.

IAP Approved by Incident Commander(s)

ORG	Name	Date/Time
	First Local IC (Fire Chief, County EMA, etc.)	
	First Responding State Official	
	US EPA On-Scene Coordinator (OSC)	
	Responsible Party Lead--Representative	
	Law Enforcement	

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BACKGROUND INCIDENT ACTION PLANNING "P"	3
General Spill Roles and Responsibilities	4
IAP COVER SHEET	9
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ICS – 203 ORGANIZATIONAL ASSIGNMENT LIST	12
ICS – 234 WORK ANALYSIS MATRICES	13
ICS – 207 INCIDENT ORGANIZATION CHARTS	20
ICS – 204 ASSIGNMENT LIST	21
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ICS – 205 INCIDENT COMMUNICATION PLAN	27
ICS – 206 MEDICAL PLAN	29
ICS – 223 HEALTH AND SAFETY MESSAGE	30
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AND CONTROL PLAN	31
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DRAFT

Generic objectives taken from
other pipeline incidents

Pre-populated w/ response
entities along corridor

Includes PRP, Local
FD/PD/HazMat, County, State,
Federal agencies

Typical pipeline response OPS

Generic info taken from other
pipeline incidents

Generic ‘Pipeline Incident Response’ IAP

Outreach to:

- Illinois EPA
- Illinois EMA
- Illinois ESMA

- Cook Co DEMRS/EOC
- Chicago OEMC
- Chicago LEPC
- Southern Cook Co LEPC

- Will Co EMA/EOC
- Will Co LEPC

- DuPage Co OHSEM/EOC
- DuPage LEPC

- Lake Co EMA/EOC
- Lake Co LERC



This Initial Incident Action Plan (IAP) is developed to aid in initiating a timely and effective response to a pipeline release. It is intended to be used during the initial Operational Periods of a response only at the discretion of the Incident Commander. It is not intended to supersede the direction of the Incident Commander or eliminate the need for ongoing communication during a response.

IAP Approved by Incident Commander(s)			
ORG	Name		Date/Time
		First Local IC (Fire Chief, County EMA, etc.)	
		First Responding State Official	
		US EPA On-Scene Coordinator (OSC)	
		Responsible Party Lead--Representative	
		Law Enforcement	

LETTER OF PROMULGATION

I-83 Corridor Pipeline Incident Response Incident Action Plan (IAP)

DRAFT

- Purpose.** This Pipeline Incident Response IAP provides a template with geographic information, response organization, and detailed plans for the containment, cleanup and disposal of oil from a liquid or gas pipeline release.
- Discussion.** This plan includes information on general authorities; local, state, and federal response policy; assignment of responsibility for cleanup; multi-agency response organization; unified command including operations, planning, logistics, and finance/administration sections; agency contact lists; response strategies; site safety; and gas/oil release response.
- Action.** All relevant local/state/federal agencies, commercial spill response contractors, environmental stakeholders and responsible parties are encouraged to be guided by this plan during pollution response efforts, regardless of size or scope.

ORG	NAME	DATE/TIME
DuPage OHSEM	Murray Snow, DuPage Co OHSEM	
Cook County DEMRS	William Barnes, Cook Co DEMRS	
Will County EMA	Harold Damron, Will Co EMA	
DuPage/Cook/Will Co LEPCs?		
Local Fire Chief 1		
Local Fire Chief 2		
Local Fire Chief 3		
Local Fire Chief 4		
Local Fire Chief 5		
Local Fire Chief 6		

Incident Name:

2. Operational Period to be covered by IAP (Date/Time)

From: _____ To: _____

IAP COVER SHEET

I-83 Corridor Pipeline
Incident Response

INITIAL INCIDENT ACTION PLAN

The items below are included in this Incident Action Plan

- [ICS 202](#) Response Objectives (select from list as appropriate)
- [ICS 203](#) Organizational Assessment List (select from list as appropriate)
- [ICS 234](#) Work Analysis Matrix (Incident specific objectives from ICS 202, strategies and tactics/tasks)
- [ICS 207](#) Organization Chart
- [ICS 204](#) Assignment List (Fill in operations personnel contact name, incident-specific assignments & resource summary)
- [ICS 205](#) Incident Communications Plan (Phone/Radio Contact list)
- [ICS 206](#) Medical Plan (Medical aid stations, hospitals and emergency procedures)
- [ICS 223](#) Health and Safety Message (General Safety Message and Major Hazards/ Risks)
- [ICS 208](#) Safety Message/Plan (Safety Plan, Location of Plan, Safety Plan Approval)
- [ICS 214](#) Unit Activity Log (details of unit activity, including team activity or individual activity)
- [ICS 230](#) Daily Meeting Schedule (details of meeting purposes, attendees, and locations)

DRAFT

Other Attachments

The following attachments are not included in the IAP template. Please check and include any additional forms or attachments to be added to this IAP.

- ☐ [ICS 232 Resources at Risk Summary](#)
(Sensitive areas list of priorities. Refer to Inland Sensitivity Atlas Maps & Figures. Add tables or maps, as necessary)
- ☒ [Maps / Charts](#)
(Select and add maps, as necessary)
- ☐ [Weather Forecasts / River flow – currents – conditions](#)
- ☐ [Insert Additional Attachment - Delete if not needed](#)

General Incident Summary

Incident Information and Incident Status:

(Include Incident location, latitude/longitude, estimated quantity spilled, spill rate etc.)

Prepared By:
(Name/Title) _____

Date/Time: _____

Approved by:
(Name/Title) _____

Date/Time: _____

IAP Template Form Repository

The following ICS Form hyperlinks lead to FEMA provided fillable IAP templates. Please check and include any additional forms to be added to this IAP.

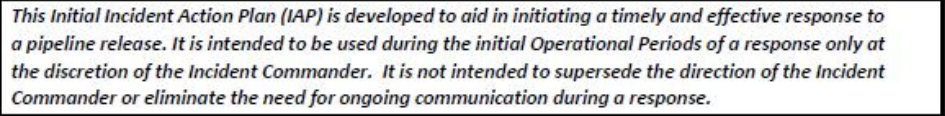
- ☐ [ICS Form 201, Incident Briefing](#)
- ☐ [ICS Form 202, Incident Objectives](#)
- ☐ [ICS Form 203, Organization Assignment List](#)
- ☐ [ICS Form 204, Assignment List](#)
- ☐ [ICS Form 205, Incident Radio Communications Plan](#)
- ☐ [ICS Form 205A, Communications List](#)
- ☐ [ICS Form 206, Medical Plan](#)
- ☐ [ICS Form 207, Incident Organization Chart](#)
- ☐ [ICS Form 208, Safety Message-Plan](#)
- ☐ [ICS Form 208HM, Site Safety and Control Plan](#)
- ☐ [ICS Form 209, Incident Status Summary](#)
- ☐ [ICS Form 210, Resource Status Change](#)
- ☐ [ICS Form 211, Incident Check-In List](#)
- ☐ [ICS Form 213, General Message](#)
- ☐ [ICS Form 213RR, Resource Request Message](#)
- ☐ [ICS Form 214, Activity Log](#)
- ☐ [ICS Form 215, Operational Planning Worksheet](#)
- ☐ [ICS Form 215A, Incident Action Plan Safety Analysis](#)

- ☐ [ICS Form 217A, Comm Resource Availability Worksheet](#)
- ☐ [ICS Form 218, Support Vehicle-Equipment Inventory](#)
- ☐ [ICS Form 219-1, T-Card \(Gray\)](#)
- ☐ [ICS Form 219-10, T-Card \(Purple\)](#)
- ☐ [ICS Form 219-2, T-Card \(Green\)](#)
- ☐ [ICS Form 219-3, T-Card \(Rose\)](#)
- ☐ [ICS Form 219-4, T-Card \(Blue\)](#)
- ☐ [ICS Form 219-5, T-Card \(White\)](#)
- ☐ [ICS Form 219-6, T-Card \(Orange\)](#)
- ☐ [ICS Form 219-7, T-Card \(Yellow\)](#)
- ☐ [ICS Form 219-8, T-Card \(Tan\)](#)
- ☐ [ICS Form 220, Air Operations Summary](#)
- ☐ [ICS Form 221, Demobilization Check-Out](#)
- ☐ [ICS Form 225, Incident Personnel Performance Rating](#)

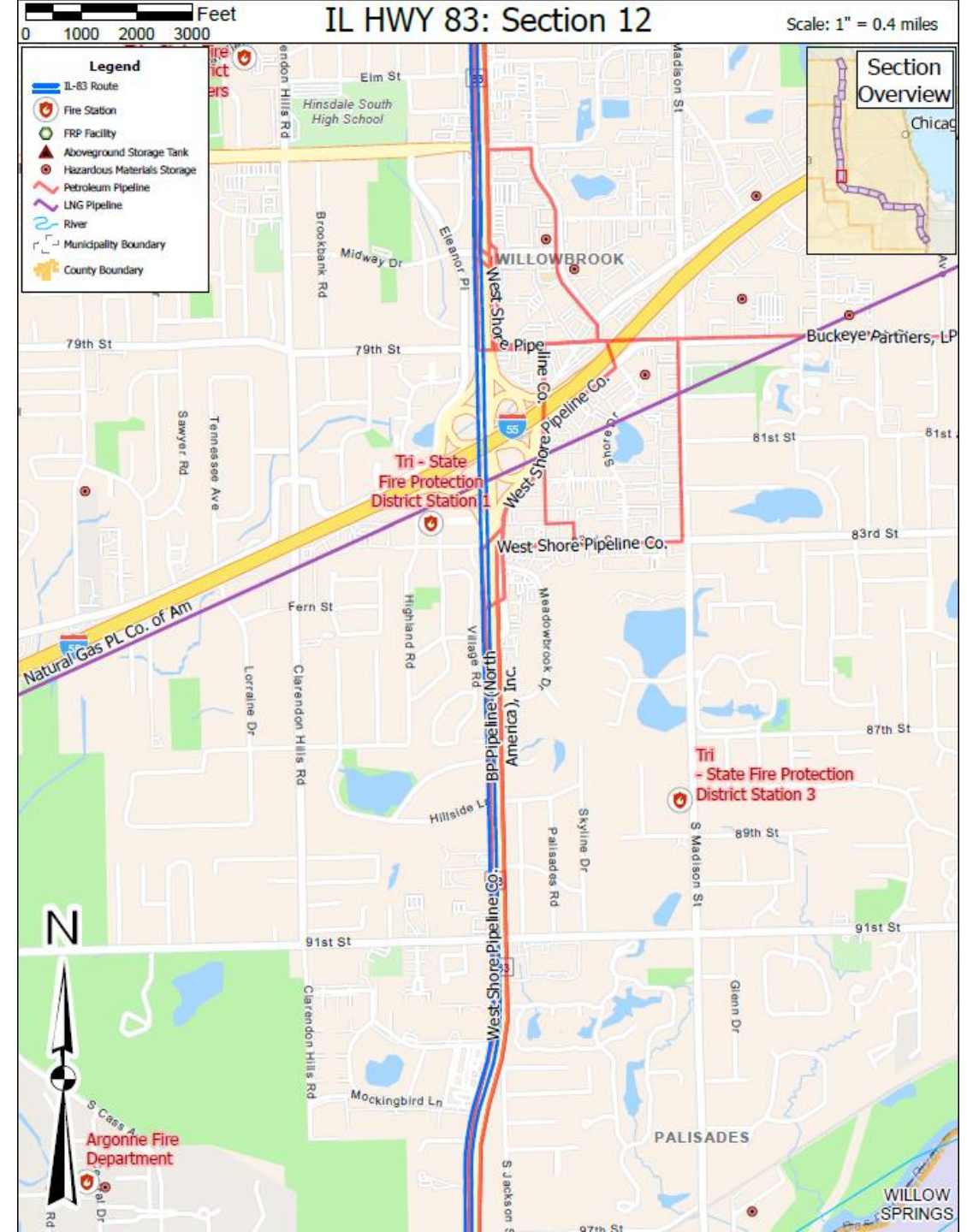
Hot links to fillable forms on
FEMA website

DRAFT

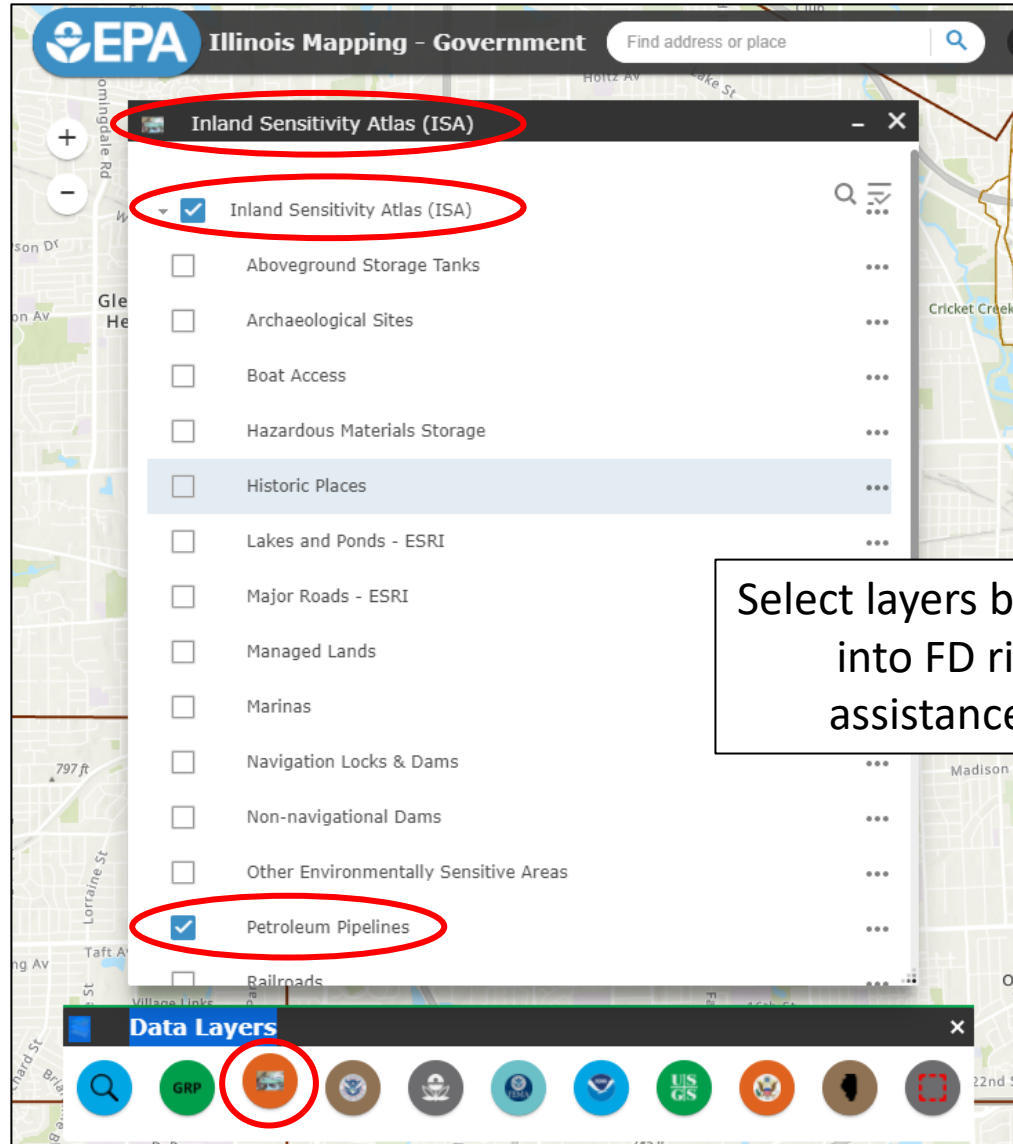
Date/Version: 2021/Version 1



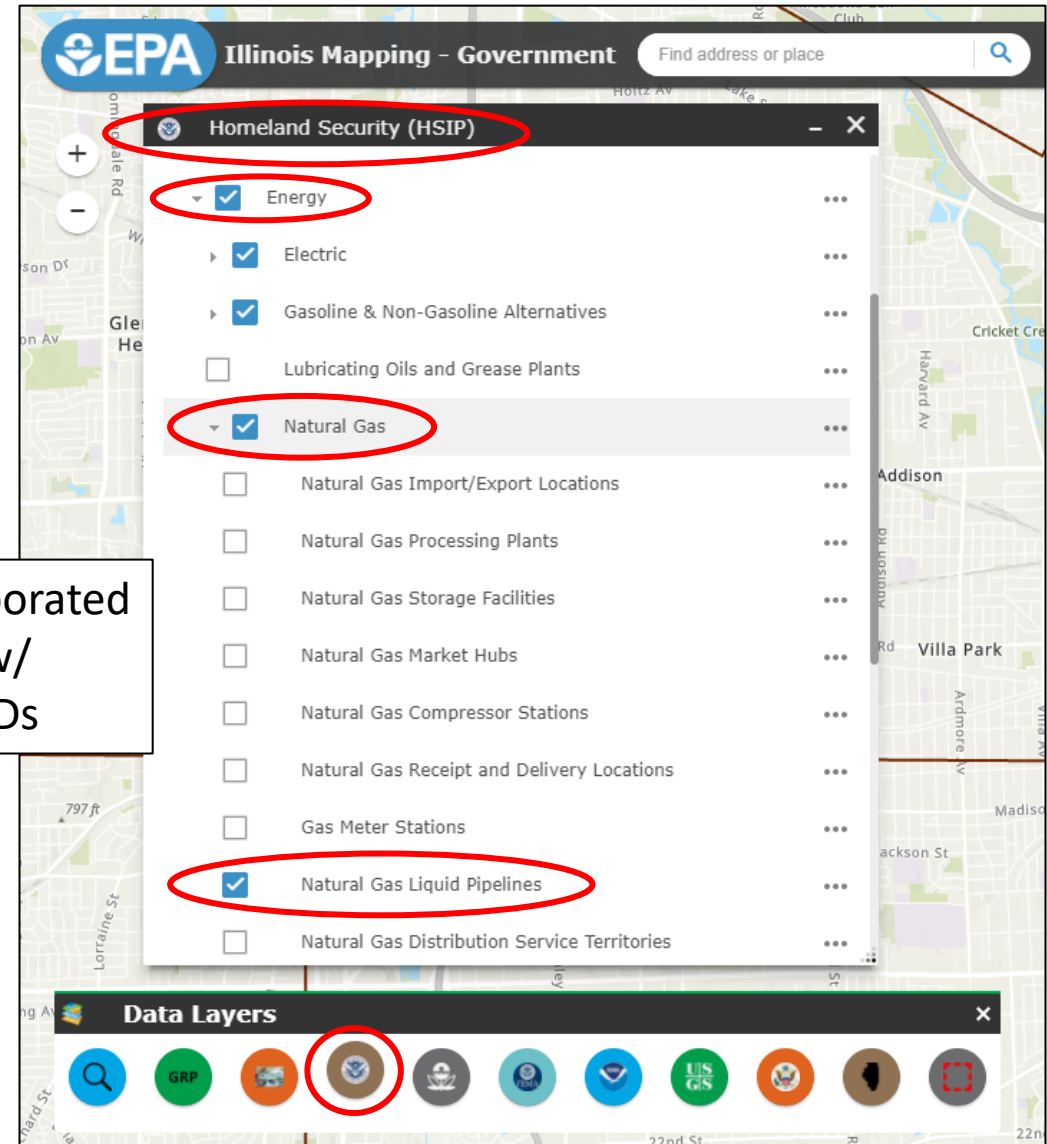
IAP Approved by Incident Commander(s)			
ORG	Name		Date/Time
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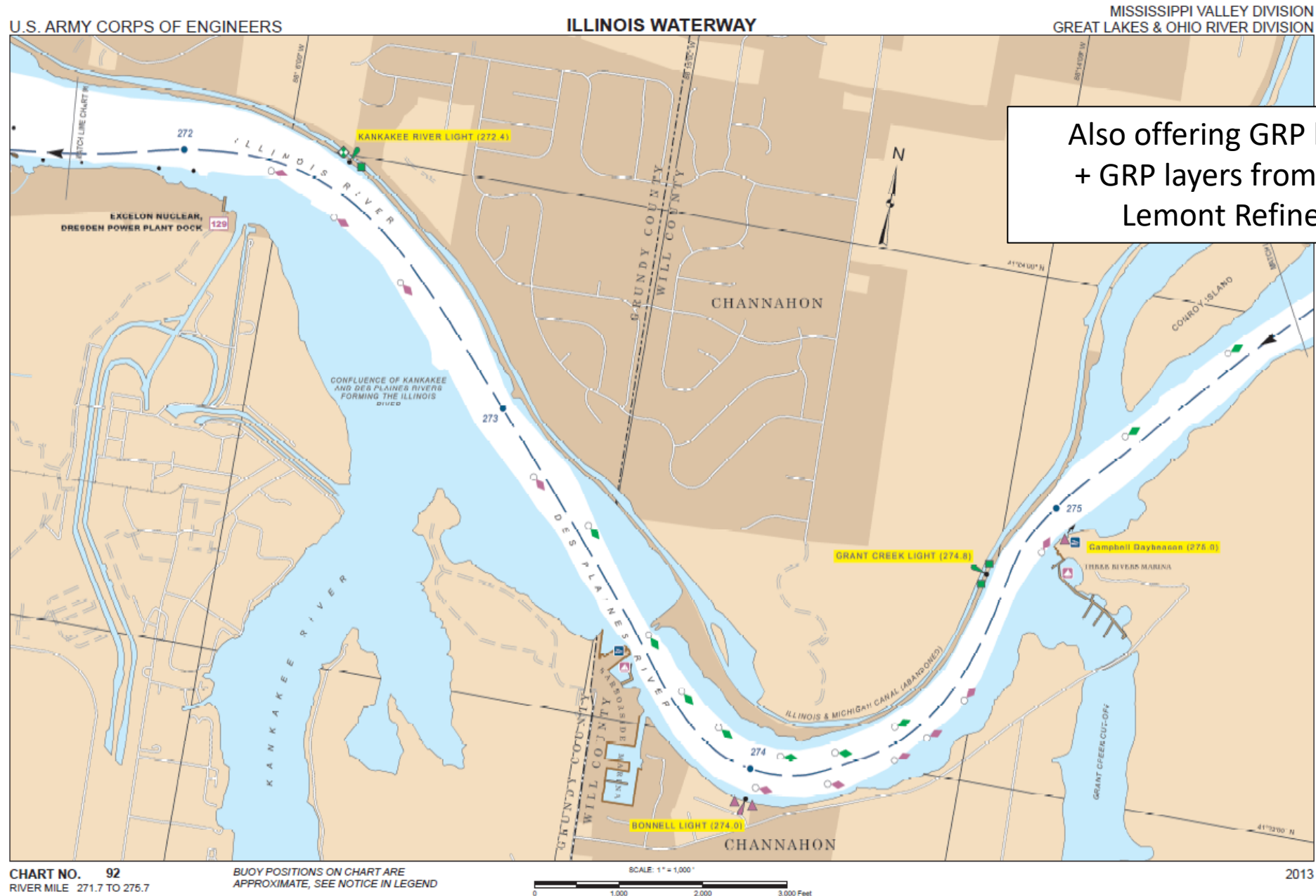
Pipeline Layers – EPA GeoPlatform



Select layers being incorporated
into FD rig viewers w/
assistance from FIELDs

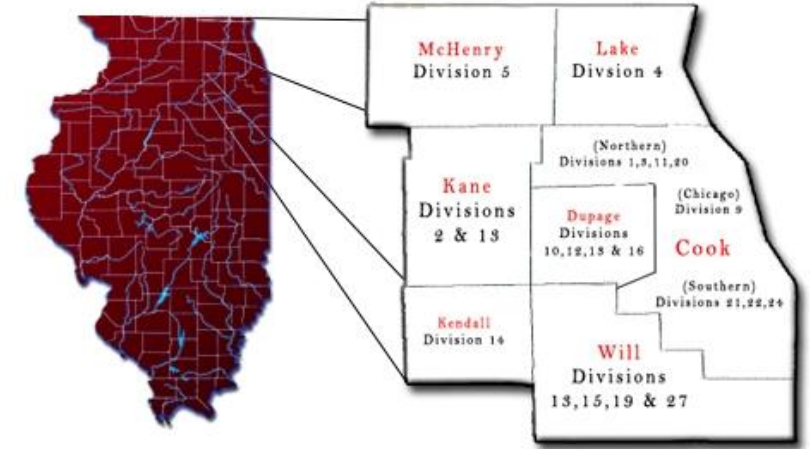


USACE Nav charts





Division 10



Contacts

Deputy Chief James Connolly, Westmont FD, jconnolly@westmont.il.gov

Lt. Steve Vogel, Tri-State FD, svogel@tristatefd.com

Mike Wilson, Hinsdale FD/MABAS 10 Hazmat Team Leader, mwilson@villageofhinsdale.org

Shift Commander Rob Grachan, Citgo - Lemont Refinery FD, rgracha@citgo.com

Paul Ruesch, US EPA Region 5, ruesch.paul@epa.gov

Katherine Cooper, TetraTech, Inc., Katherine.Cooper@tetrattech.com



Open Forum