



MARATHON PIPELINE RELEASE 03-11-2022

LOCATION: CAHOKIA CREEK, HWY 143 & 159, EDWARDSVILLE, IL

INCIDENT DESCRIPTION

- ON 3/11/22 PRP REPORTS TO NRC THAT A RELEASE OF 3000 BARRELS (138,600 GALLONS) OF OIL HAS OCCURRED NEAR IL 143 AND OLD ALTON ROAD
- UPDATED TO 3900 BARRELS TO NRC
- THE PIPELINE IS A 22" CRUDE LINE THAT RUNS FROM WOOD RIVER, IL TO PATOKA, IL
- THE CRUDE WAS A WYOMING ASPHALTIC SOUR
- OIL WAS ENTERING CAHOKIA CREEK, WHICH FLOWS INTO THE CAHOKIA DIVERSION CHANNEL TO THE MISSISSIPPI RIVER.



7 DAYS - 4 SEASONS

INITIAL CALL WEATHER: 34°

DAY 1: 34-22°

DAY 2: 33-15°

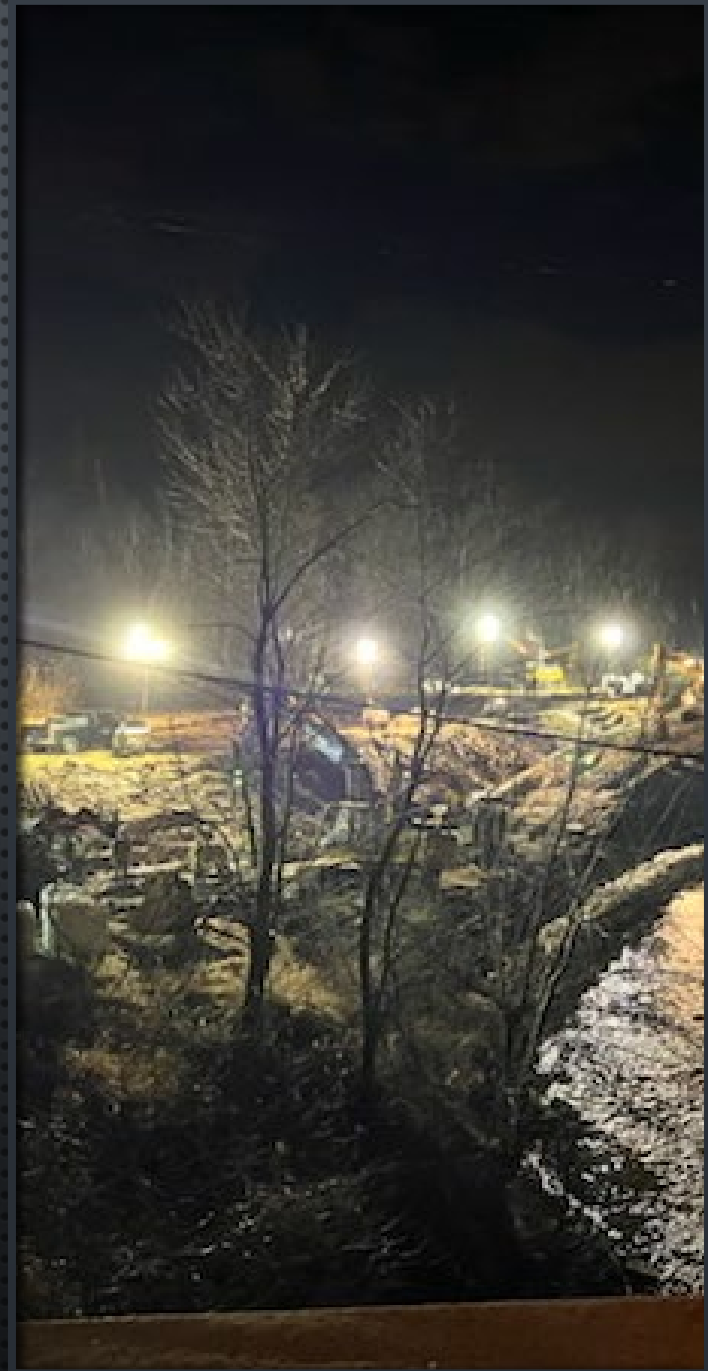
DAY 3: 34-33°

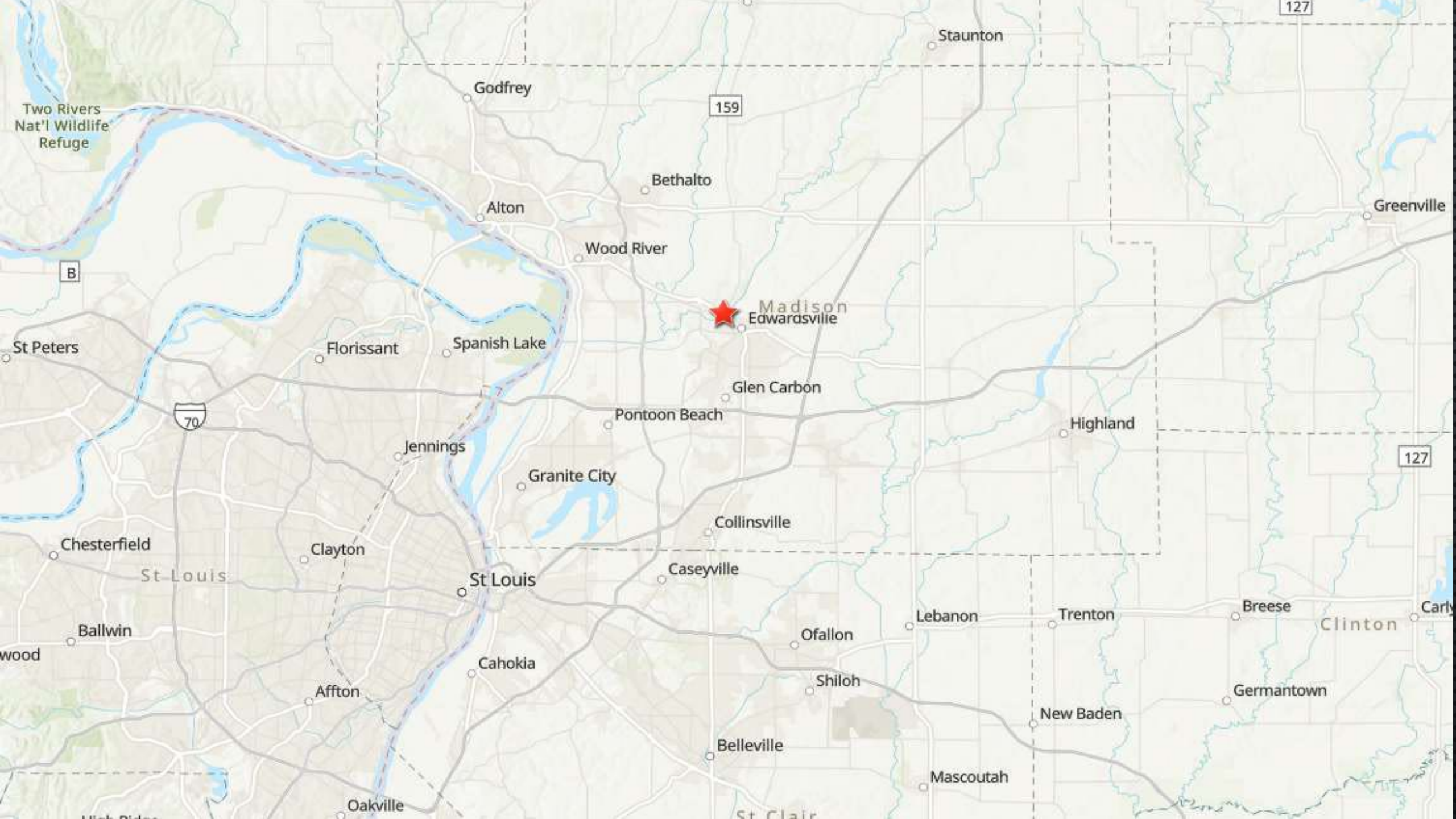
DAY 4: 68-45°

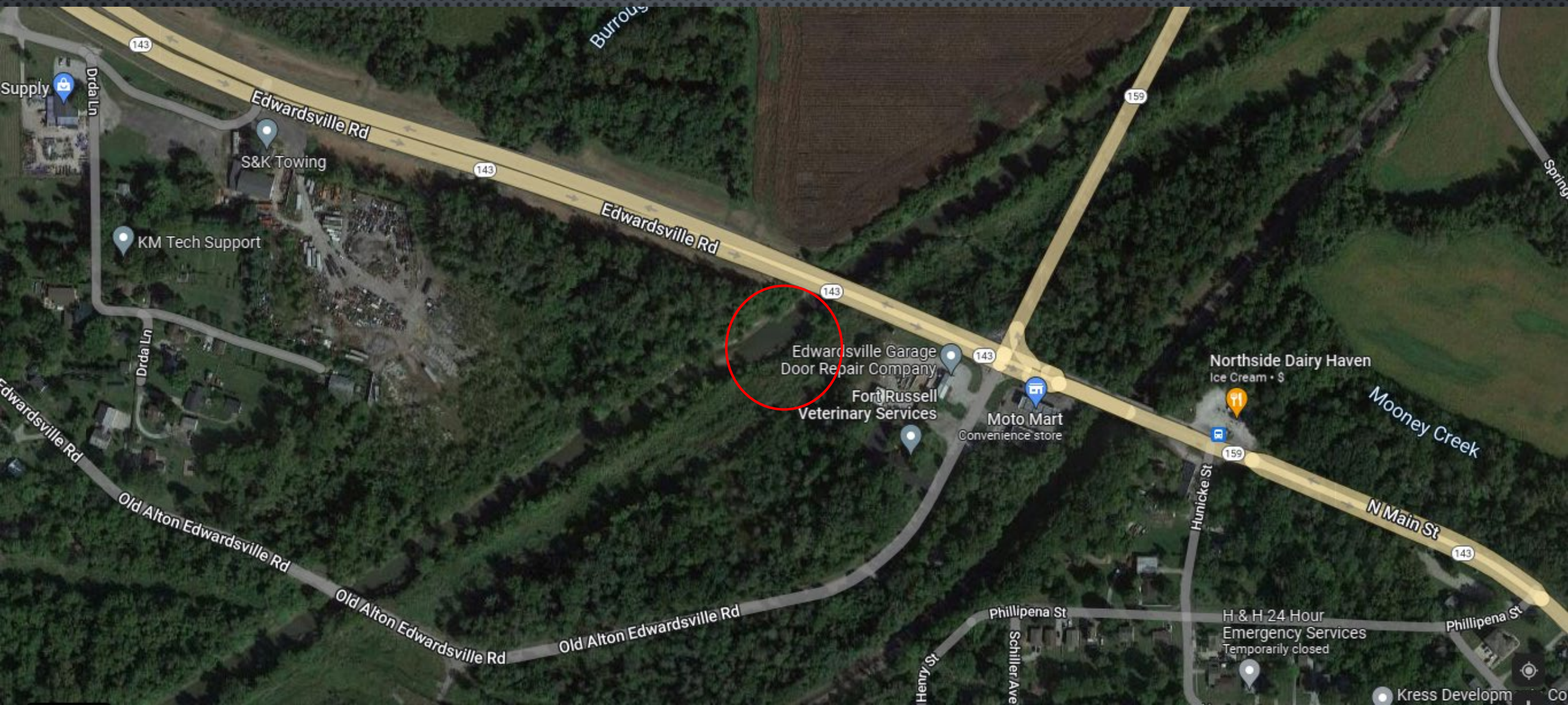
DAY 5: 70-43°

DAY 6: 70-50°

DAY 7: 77-55°





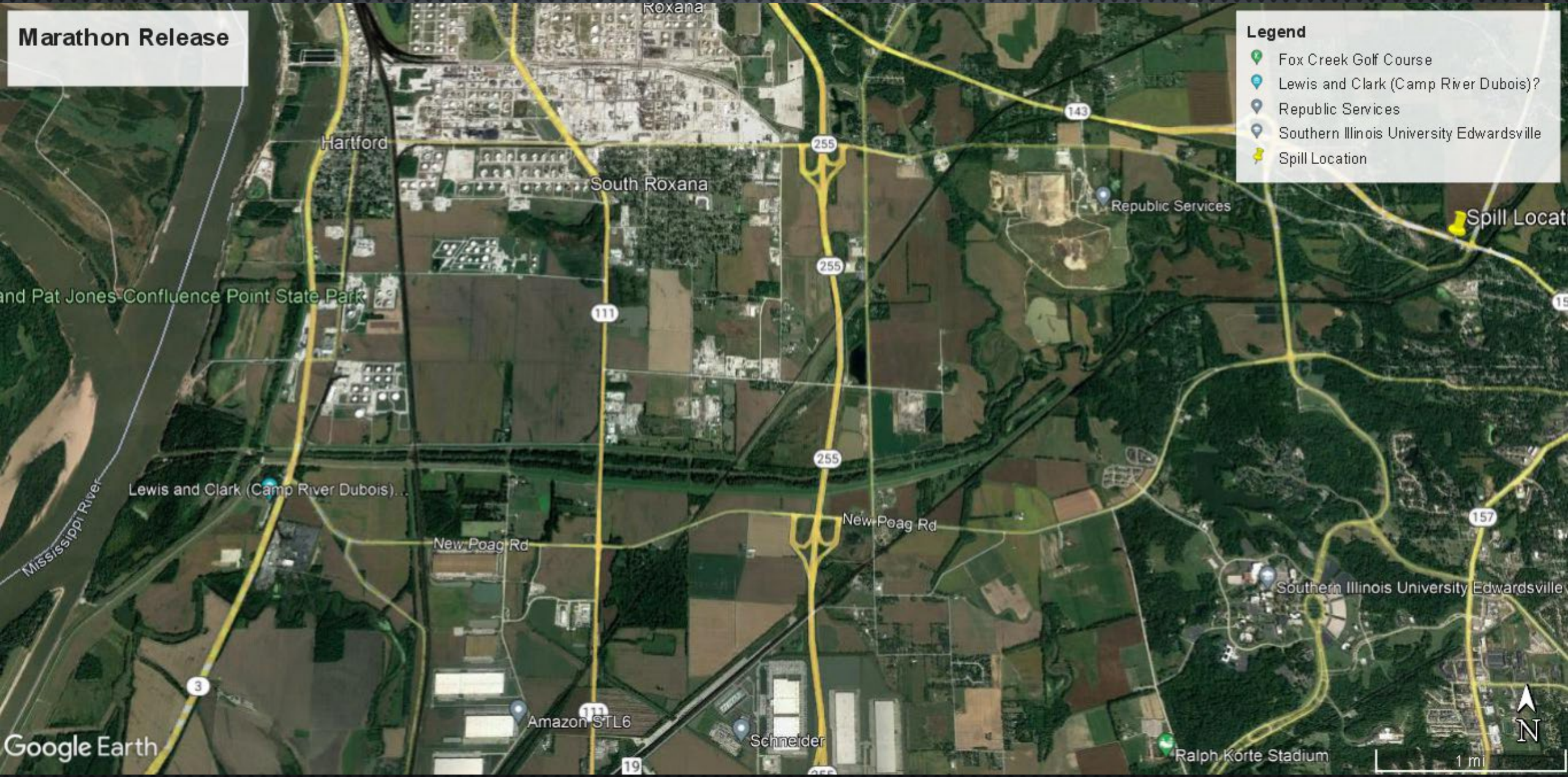




Marathon Release

Legend

-  Fox Creek Golf Course
-  Lewis and Clark (Camp River Dubois)?
-  Republic Services
-  Southern Illinois University Edwardsville
-  Spill Location







CREEK AREA BEHIND LANDFILL



AGENCIES INVOLVED

USEPA

IEPA

USCG

Madison
County EMA
and HAZMAT

City of
Edwardsville
FD

IDNR

PHMSA

NTSB

Illinois Dept.
of
Conservation

NGO's

UNIFIED COMMAND

- CONSISTED OF PRP, USEPA, IEPA AND EDWARDSVILLE, IL FD
- HOUSED IN THE ROXANA COMMUNITY CENTER (7 MILES FROM SITE)
- FULL ICS WAS ESTABLISHED WITH 24-HOUR OPERATIONS THE MORNING OF THE 12TH
- PRP DEPLOYED OSROs AND SUBCONTRACTORS TO PLACE BOOM AND RECOVER OIL



INCIDENT ACTION PLAN

ACTION PLAN PREPARED FOR

OPERATIONAL PERIOD

FROM: 18:00 - 3/16/2022

TO: 18:00 - 3/19/2022

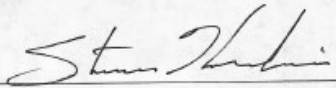
INCIDENT NAME: Edwardsville Response

DATE PREPARED: 3/16/2022

THIS PLAN IS AGREED UPON AND APPROVED BY THE UNIFIED COMMAND.

A TABLE OF CONTENTS FOR THIS INCIDENT ACTION PLAN IS ON THE FOLLOWING PAGE.

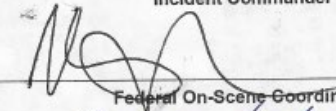
APPROVED BY



Incident Commander

3/16/2022


Date



Federal On-Scene Coordinator

3/16/22

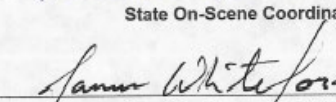
Date



State On-Scene Coordinator

3/16/22

Date



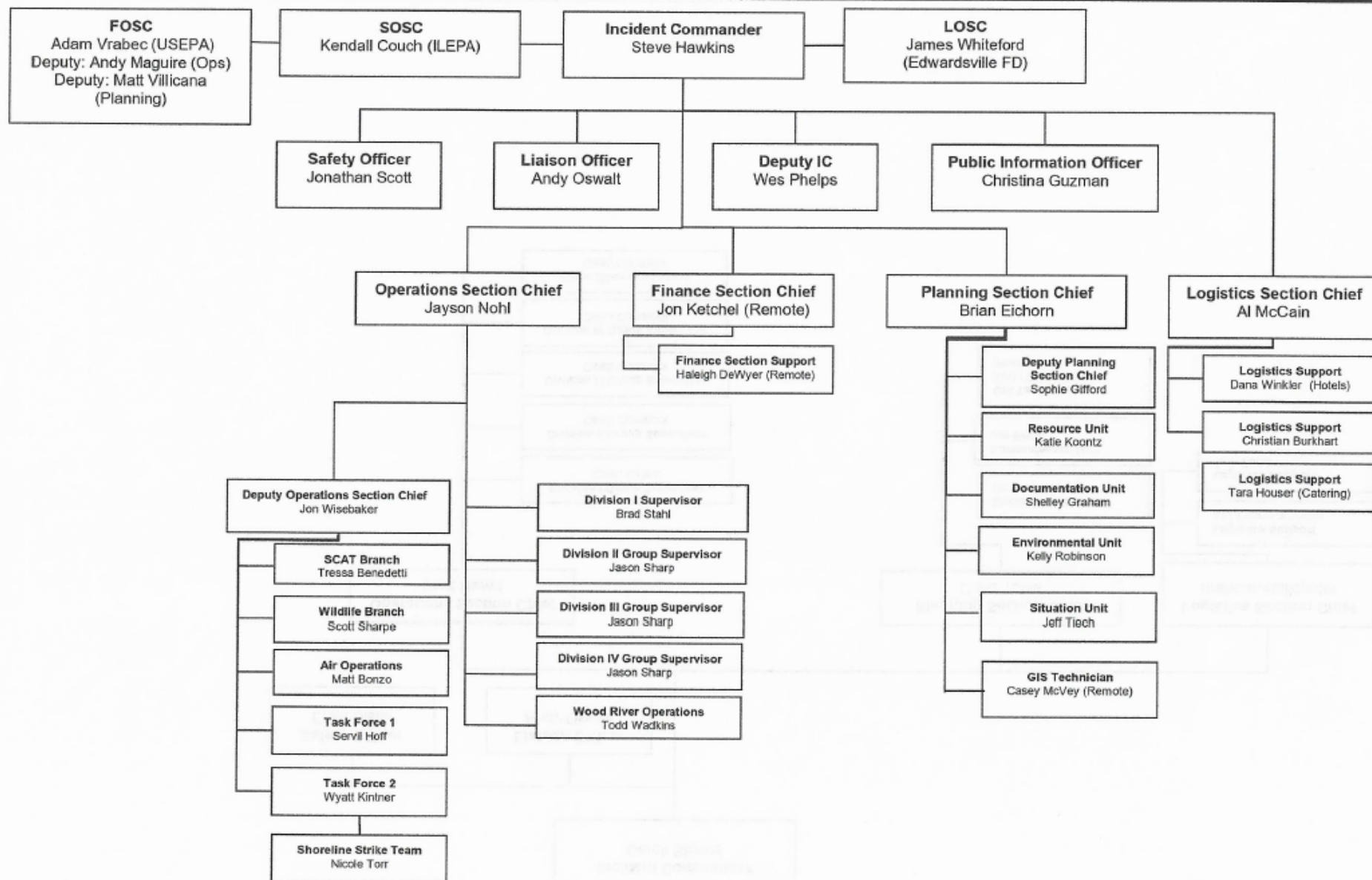
Local On-Scene Coordinator

3/16/22

Date

Revised: September 2019

Incident Name		Edwardsville Response			INCIDENT OPEN ACTION TRACKER ICS 233-CG			
No.	3. Item	4. For/POC	5. POC Briefed	6. Start Date	7. Status	8. Target Date	9. Actual Date	
1	Request drone support	IC/UC	EMA	3/12	Cancelled	3/12	3/12	
2	Update MPC Response website	IC/UC	PIO	3/12	Complete	3/12	3/12	
3	Research potential avian impact in	IC/UC	ENVL	3/12	Complete	3/12	3/12	
4	Meeting space for NTSB Div 2	NTSB	Edwardsville	3/12	Complete	3/12	3/12	
5	Immediate Notification of odor complaints to EPA	IC/UC	PSC	3/13	Complete	3/13	3/13	
7	Analysis of crude buoyancy from RAP	IC/UC	ENV	3/13	COMPLETE	3/13	3/16	
9	Contaminated soil added to 209 report	IC/UC	ENV	3/13	Complete	3/13	3/13	
12	Private Water Well Plan	MPL	IL EPA	3/15	Submitted	3/15	3/19	
14	SCAT Plan approval	MPL	USEPA	3/15	COMPLETE	3/15	3/15	
16	Decreased Wildlife Guidance (documentation)	USFWS	USEPA	3/15	Submitted	3/15	3/16	
17						3/16	3/16	
18	- Wildlife Management Plan	USEPA	MPL	3/15	Submitted / Submitting	3/15	3/16	
19	- Sediment & Soil Sampling Plan	USEPA	MPL	3/15		TBD		
20	Re-notification Plan during Run Event	MPL		3/16	Submitted	3/17	3/18	
22	Request variance for Lighting Policy change	MPC		3/16	Complete	3/17	3/17	
23	Develop plan to transition response to project	MPC		3/17	Pending approval from UC	3/19		
24								
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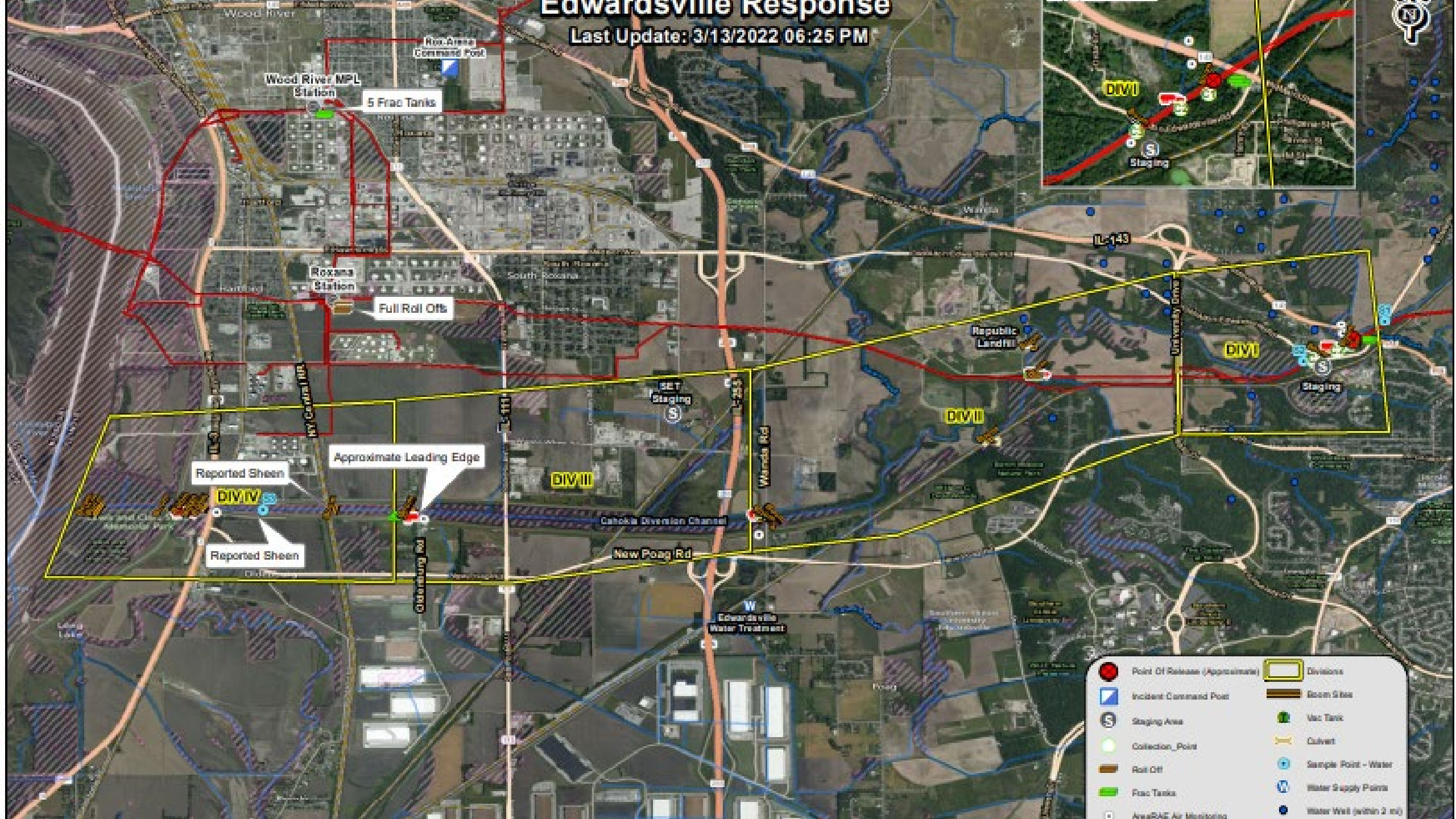


DIVISIONS ESTABLISHED

- DIVISION #1 (GROUND ZERO) = CAHOKIA CREEK, HWY 143 & 159. (MARATHON / GEEDING CONSTRUCTION /SET)
- DIVISION #2 = WANDA BRIDGE (MARATHON / NUMEROUS VAC TRUCK COMPANIES)
- DIVISION #3 = OLDENBURG ROAD (ERLLC / MARATHON)
- DIVISION #4 = FRONTAGE PARK (MARATHON / IRON EAGLE / ERLLC)

Edwardsville Response

Last Update: 3/13/2022 06:25 PM



- | | | | |
|--|--------------------------------|--|--------------------------|
| | Point Of Release (Approximate) | | Divisions |
| | Incident Command Post | | Boom Sites |
| | Staging Area | | Vac Tank |
| | Collection Point | | Culvert |
| | Roll Off | | Sample Point - Water |
| | Frac Tanks | | Water Supply Points |
| | AeraRAE Air Monitoring | | Water Well (within 2 mi) |

GROUND ZERO



EXCAVATION OF IMPACTED SOIL NEAR SPILL LOCATION



WORK IN WETLAND AREA



WETLAND ACCESS







OSRO DEPLOYING
BOOM BEHIND
LANDFILL











ELASTEC
American Marine
www.elastec.com



Oldenburg Rd







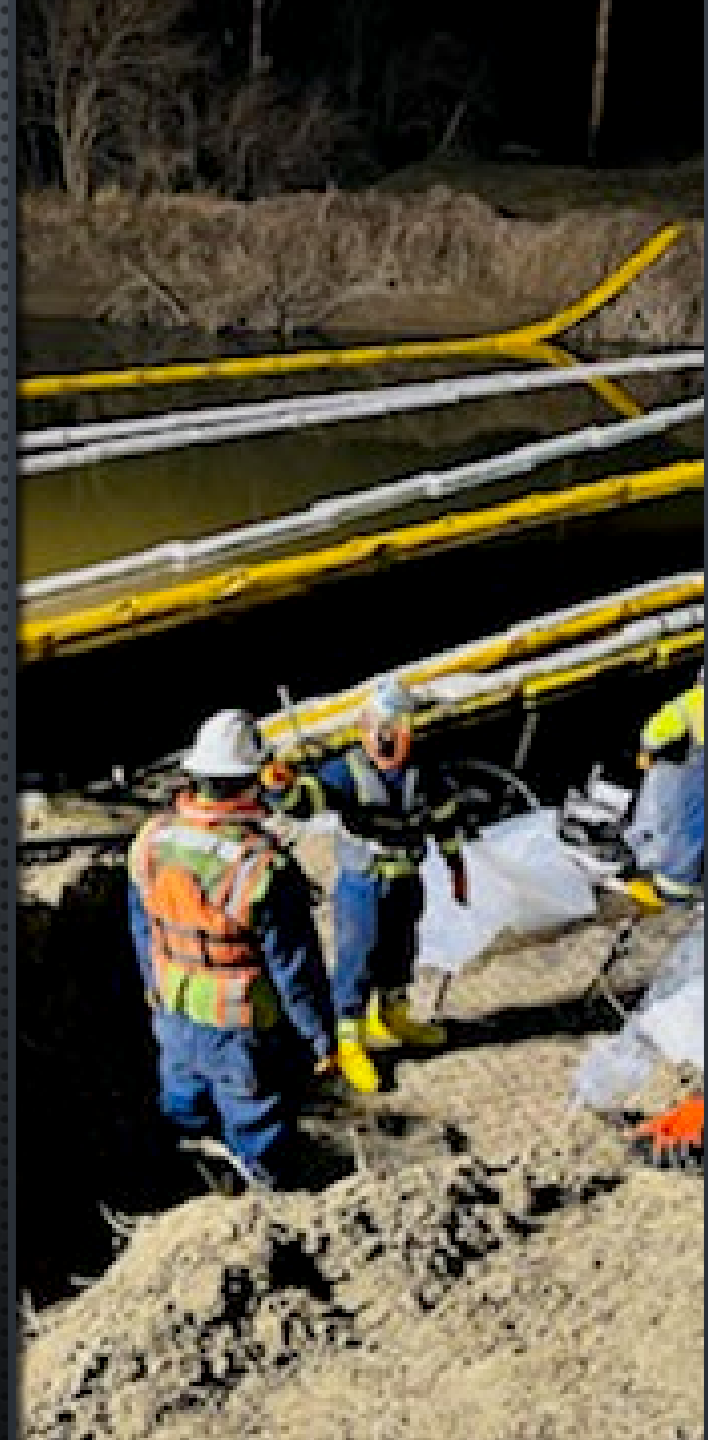




VARIOUS BOOM DEPLOYMENTS WITHIN DIVISIONS

DIVISION 3-OLDENBURG ROAD

NOTE: NO BULK OIL GOT PAST DIV 3











RESOURCES

Description	Assigned
Light Plants	44
Tanker Trucks	2
Frac Tanks	32
Roll-Off (Soft-Top)	10
Vac Trucks	44
Roll-Off (Hard-Top)	126
Skimmers	21
Mats	850+
Compressors	16
Hard Boom (ft)	3450
Sausage Boom (ft)	1100
Steam Genies	9
Trackhoes	7
Drones	1
Dozers	1
Helicopters	1
Telehandler	2
Skid Steers	11
Boats	18
Transfer Pumps	5

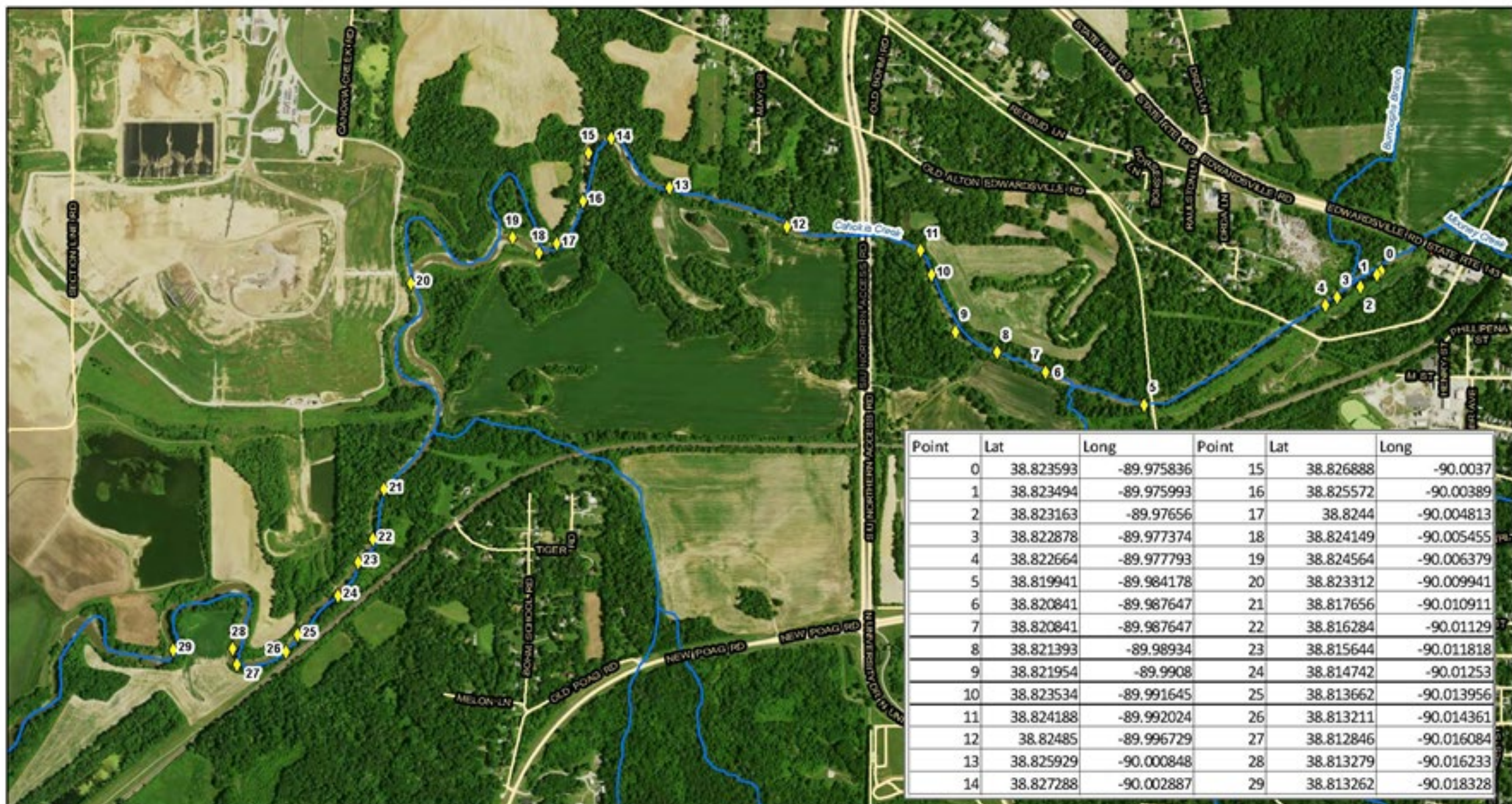
S.C.A.T. (SHORELINE CLEAN-UP ASSESSMENT TOOL/ TEAM)

Conducted after majority of heavy oil was recovered and only sheen being observed in the creek

Identified small areas or pockets still with heavy oil present- GPS and flagged

Recovery teams would follow up and remove the product from the identified locations

Sediment Assessment Poling Plan was created and executed



★ Approximate Release Location

Edwardsville Response
Oil Recovery Locations
Upstream

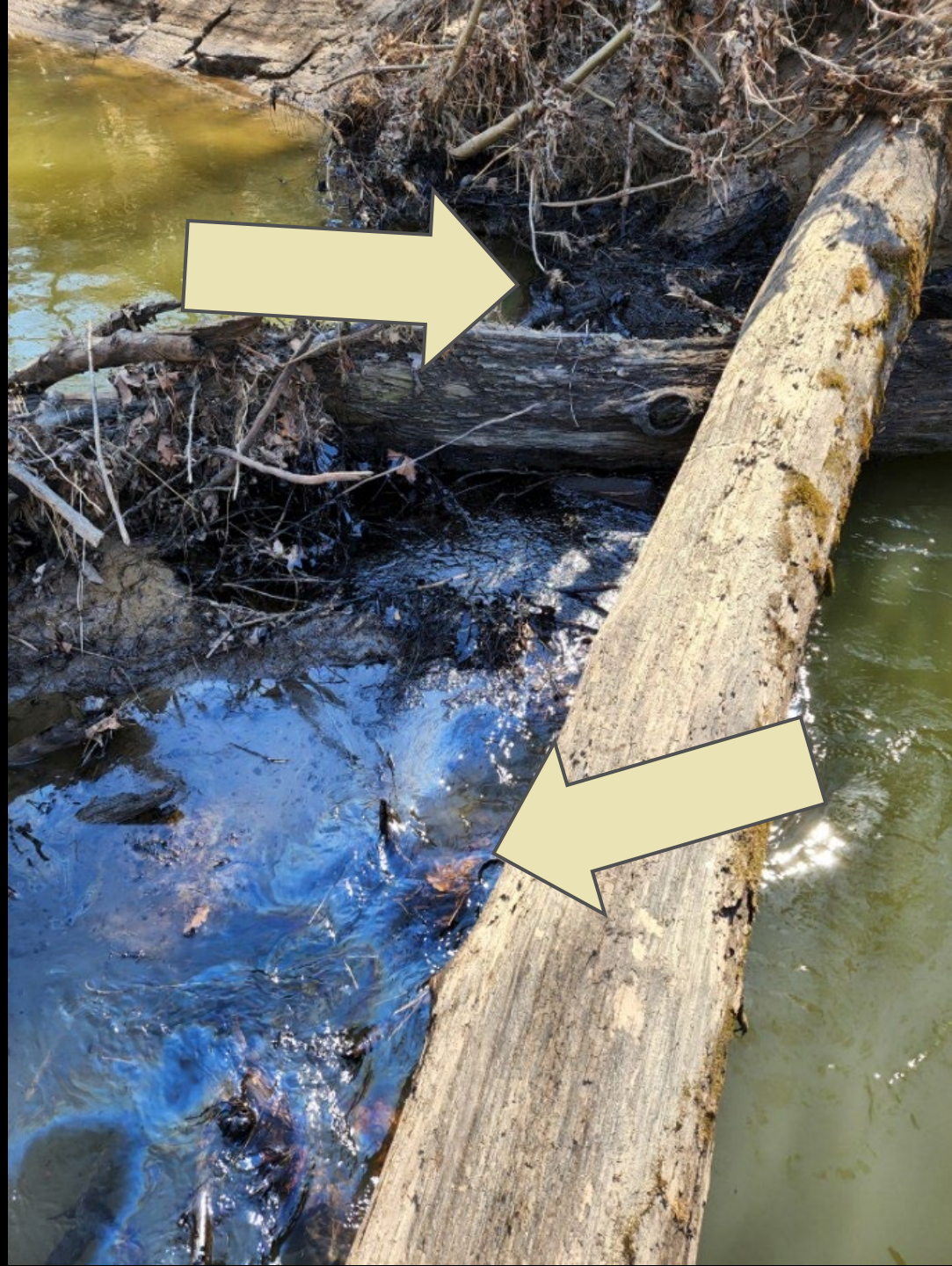


S.C.A.T. OSRO BOAT OPS

OSRO BOAT OPS UTILIZING PUMPS, HOSES AND HAND TOOLS
TO REMOVE CONTAMINATED DEBRIS CAUGHT IN AND AROUND
BANKS AND OTHER CREEK OBSTACLES.



















POLING SEDIMENT ASSESSMENT

Used to determine if submerged oil was present in the creek

24 locations identified for assessment

Teams consisted of PRP Consultant, START, and PRP OSRO

USEPA START contractor conducted real time monitoring using handheld meters throughout the community.

Benzene, VOC's, LEL, and H₂S were being monitored

Summa Cannisters were used to obtain air samples to send to lab

PRP was conducting similar air monitoring, along with personal monitoring

AIR MONITORING

WATER SAMPLING

- IDENTIFIED 6 LOCATIONS TO PULL WATER SAMPLES FROM
- PRP SPLIT SAMPLES WITH USEPA AT THOSE LOCATIONS
- COORDINATED WITH IEPA ON WHAT TO ANALYZE FOR
- PRIVATE DRINKING WATER WELLS IN THE AREA WERE SAMPLED BY PRP WITH OVERSIGHT OF IDPH

Table 2
Petroleum Cleanup Objectives for Groundwater and Surface Water in mg/L
 (Updated 9/15/09)

	Groundwater Remediation		Water Quality Standards/Criteria	
Chemical Name	Class I	Class II	Chronic Aquatic Life	Human Health
Benzene	0.005	0.025	0.86	0.31
Toluene	1.0	2.5	0.60	ND
Ethylbenzene	0.7	1.0	0.014	ND
Xylenes (total)	10.0	10.0	0.360	ND
Acenaphthene	0.42	2.1	0.062	ND
Anthracene	2.1	10.5	0.00053	35.0
Benzo(<i>a</i>)anthracene	0.00013	0.00065	ND	0.00016
Benzo(<i>b</i>)fluoranthene	0.00018	0.0009	ND	0.00016
Benzo(<i>k</i>)fluoranthene	0.00017	0.00085	ND	0.0016
Benzo(<i>a</i>)pyrene	0.0002	0.002	ND	0.000016
Chrysene	0.0015	0.0075	ND	0.016
Dibenzo(<i>a,h</i>)anthracene	0.0003	0.0015	ND	0.000016
Fluoranthene	0.28	1.4	0.0018	0.12
Fluorene	0.28	1.4	0.016	4.5
Indeno(1,2,3- <i>c,d</i>)pyrene	0.00043	0.00215	ND	0.00016
Naphthalene	0.14	0.22	0.068	ND
Pyrene	0.21	1.05	ND	3.5
Methyl tertiary-butyl ether	0.07	0.07	6.7	ND
Chloride	200	200	500 (250 if near a public water supply)	
Sulfate	400	400	Site Specific	

ND standard or criterion not available

Groundwater standards from 35 IAC 620, Objectives from 35 IAC 742 Appendix B Table E.

Surface Water standards from 35 IAC 302, Criteria from IEPA internal document.

WILDLIFE CONSIDERATIONS DURING THE RESPONSE

- THESE ARE WILD ANIMALS, NOT PETS!!!!
- WORK WITH LOCAL, STATE, AND FEDERAL WILDLIFE FOR RECOVERY OF OILED ANIMALS AND NRDA
- WILDLIFE DETERRENTS WERE USED, SUCH AS AIR CANNONS, ANIMAL CALLS, AND PERCUSSION DEVICES. ENSURE LOCAL AND COUNTY LAW ENFORCEMENT ARE AWARE DEVICES ARE BEING USED

WILDLIFE

Wildlife Impacts (as of 5/13/22)						
Description	Impacted Total	Cleaned	Released	DOA	Euthanized	Died in Facility
Ducks	20	6	6	11	2	1
Hawk	1				1	
Frog	2	1	1	1		
Muskrat	1			1		
Blue Heron	3			3		
Beaver	5		2	1	2	
Turtle	4		3			1
Owl	1	1	1			
Snake	3		3			
Fish	14			14		
Total	54	8	16	31	5	2

TREE HOUSE WILDLIFE WASHING STATION



AMOUNT RECOVERED

- OIL PRODUCT = 2578 BBLs = 108,276 GALLONS
- 19,572 BARRELS OF OIL AND WATER MIX = (822,024 GALLONS!!!)
- OILY SOILS – 80 TONS
- DEBRIS = 300 TONS
- ABSORBENTS = 84 TONS
- APPROXIMATELY 18,000 TONS OF NON-HAZARDOUS SOIL
- APPROXIMATE ESTIMATE OF LOST PRODUCT WAS UPDATED TO 3500 BBLs

GROUND ZERO RESTORATION



GROUND ZERO RESTORATION



WETLAND RESTORATION



LESSONS LEARNED

Set up Divisions that are geographically and operationally manageable

Good Communication and Cooperation within Unified Command and responding agencies.

Coordination with NTSB & PHMSA investigation

Depending on type of oil, different recovery methods might work better