



Menominee, Michigan Warehouse Fire Response Unified Command



Night of the Fire

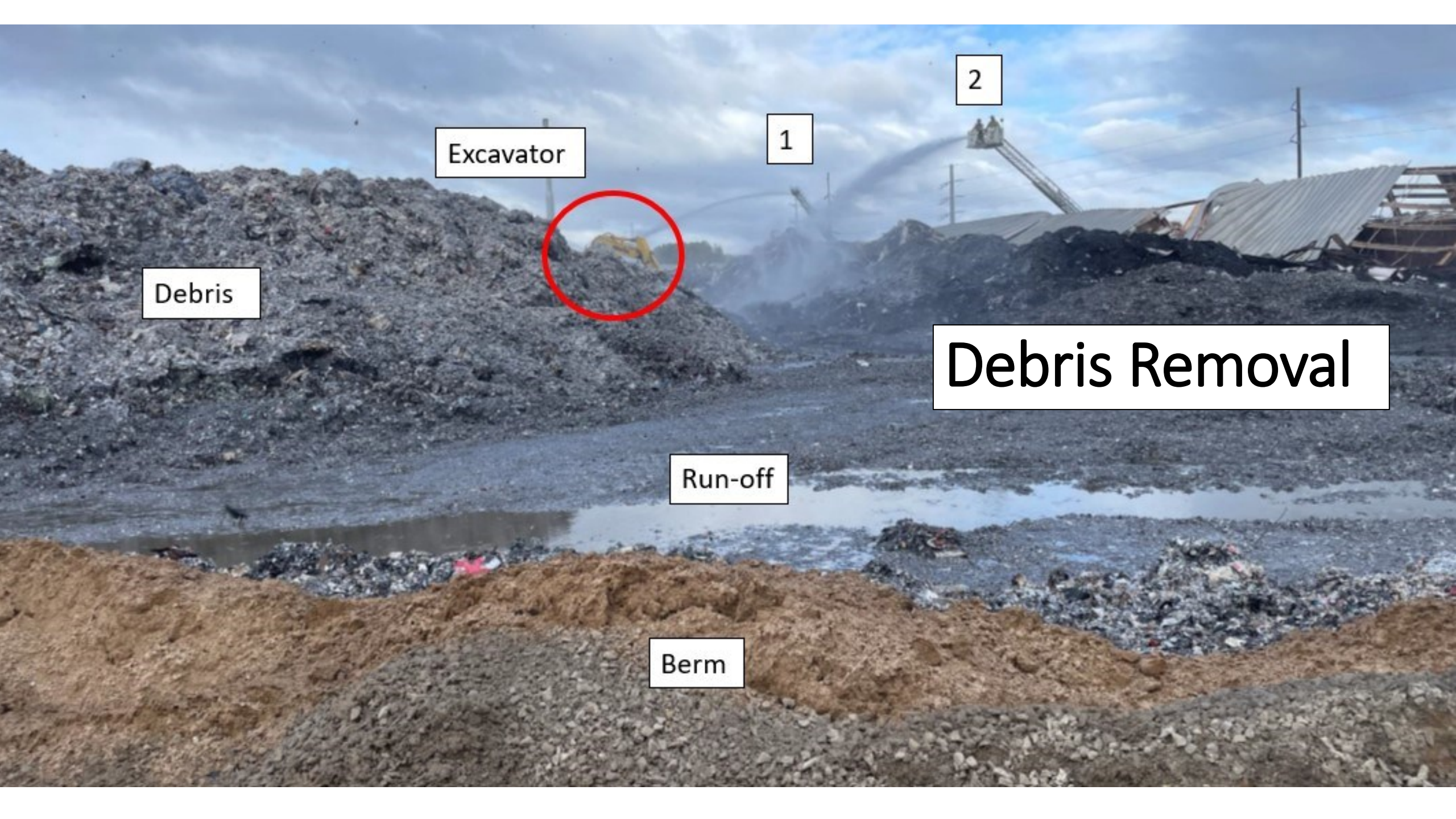


Morning After the Fire



Extinguishing 'Hot Spots'





Debris

Excavator



1

2

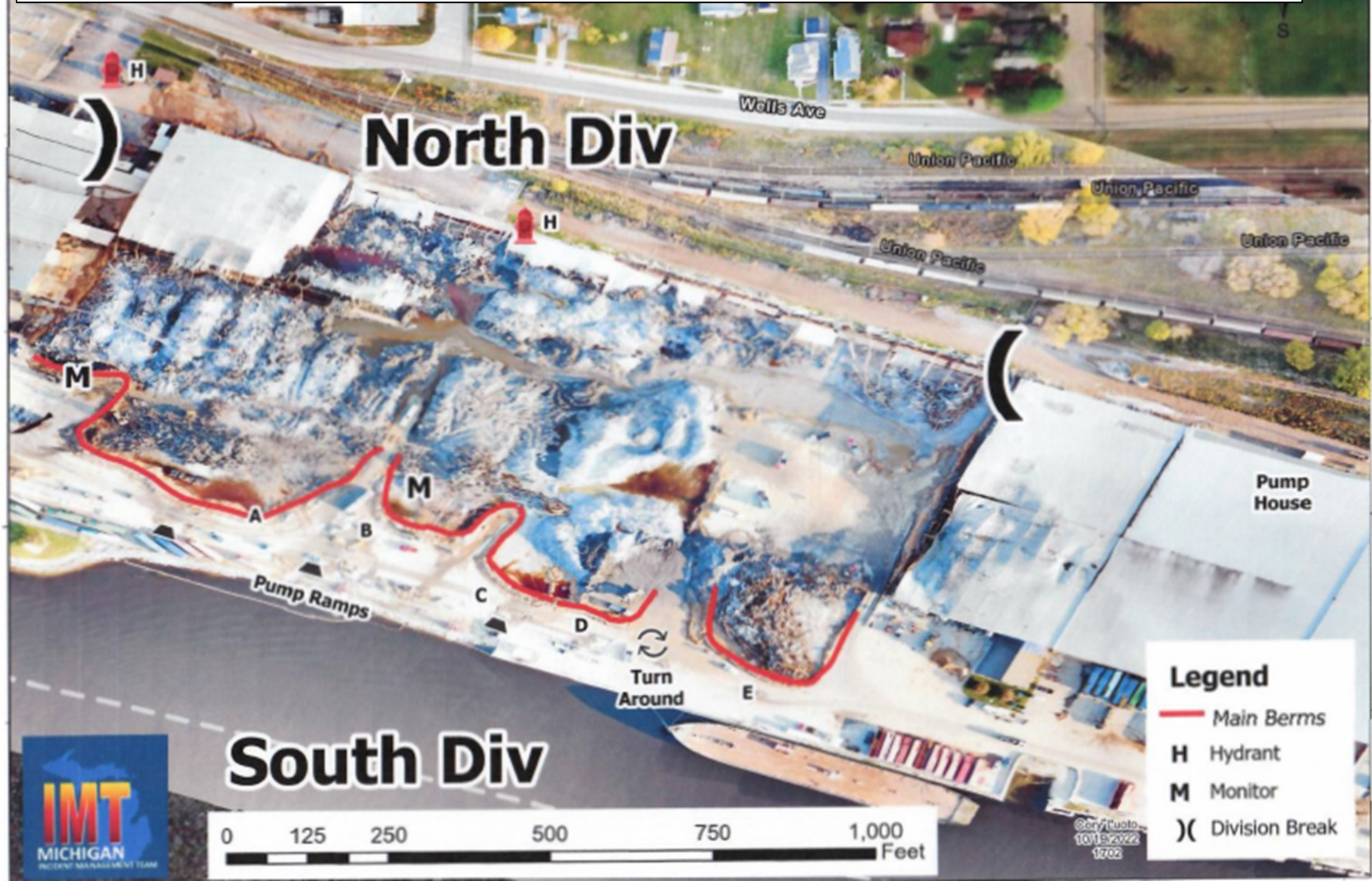
Debris Removal

Run-off

Berm

Resolute Paper Mill Incident IAP Map

10/20/2022




Site Photo




Site Photo



LEGEND

 PARCEL BOUNDARY

 TYCO LEASED WAREHOUSE AREA

0 400 800

SCALE IN FEET

MENOMINEE FIRE
MENOMINEE, MICHIGAN

SITE LAYOUT MAP



**INTEGRATED
LOGISTICS®**

Efforts to Manage Firewater



Tanks

This aerial photograph shows an industrial facility, likely a water treatment plant, situated along a river. A red rectangular box highlights two specific areas: a large circular tank in the foreground and a larger rectangular pond behind it. Both contain a thick, brown, slurry-like substance, which is the firewater being managed. The surrounding area includes various industrial structures, shipping containers, and a nearby residential neighborhood.

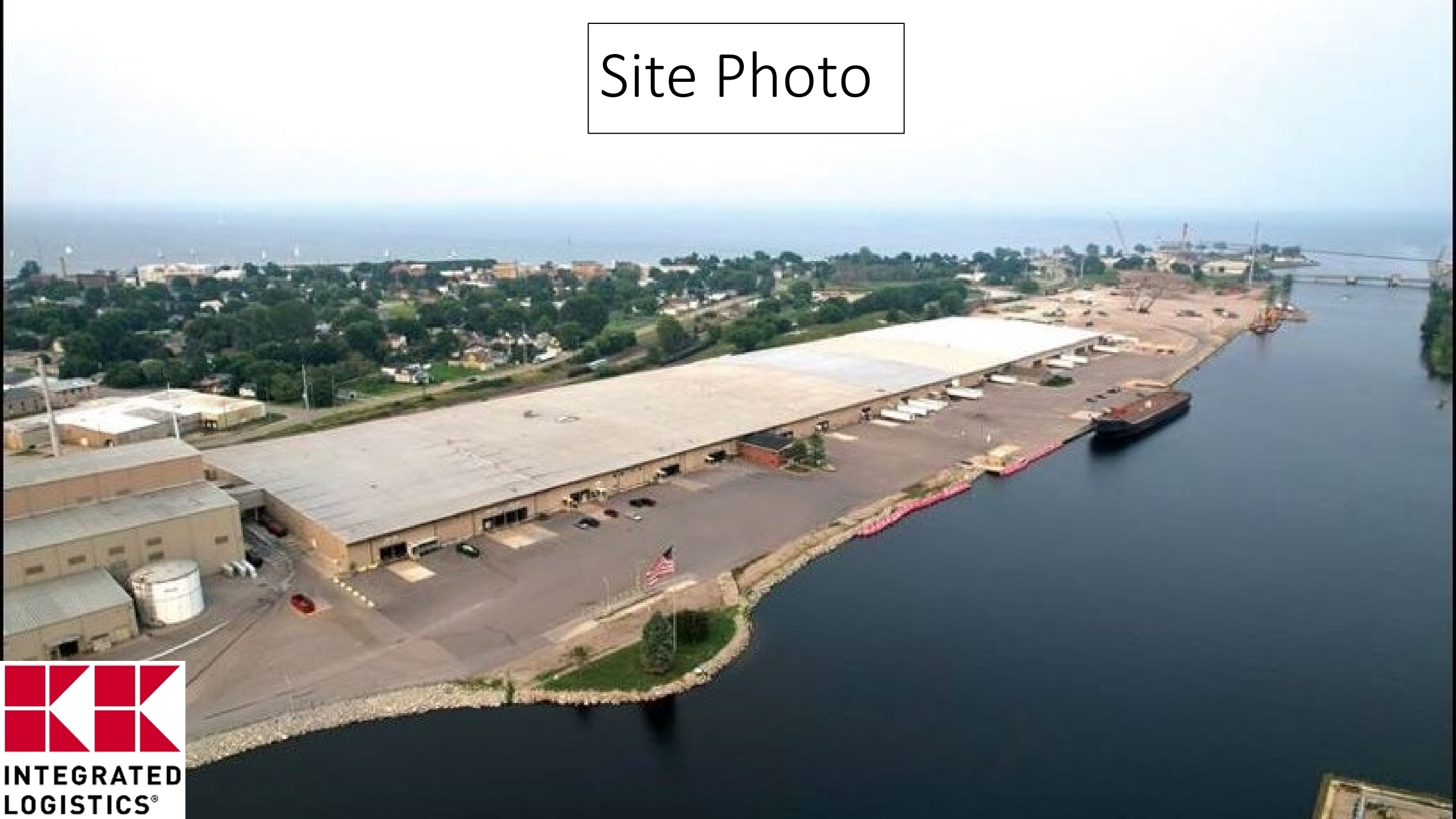
Efforts to Control & Contain Firewater

Containment area

Efforts to Control & Contain Firewater



Site Photo



Unified Command Meeting Marinette Water Treatment Facility





Air monitor



Air sample canister

Surface Water Sampling



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Background

- EGLE has been monitoring PFAS in public water supplies since 2018.
- PFAS are detected routinely in Lake Michigan and other Great Lakes
- [Maximum Contaminant Levels \(MCLs\)](#) established in MI, Aug-2020 for seven compounds
- City completed all required monitoring and results are in the annual [Water Quality Report](#)

Michigan's PFAS Response

- EGLE established a daily sampling and analysis strategy starting Sunday Oct 9th
- Raw and treated results indicate an impact from the release
 - More compounds detected
 - Higher concentration detected
- All treated water samples are below Michigan MCLs
- Results peaked early and are trending down



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

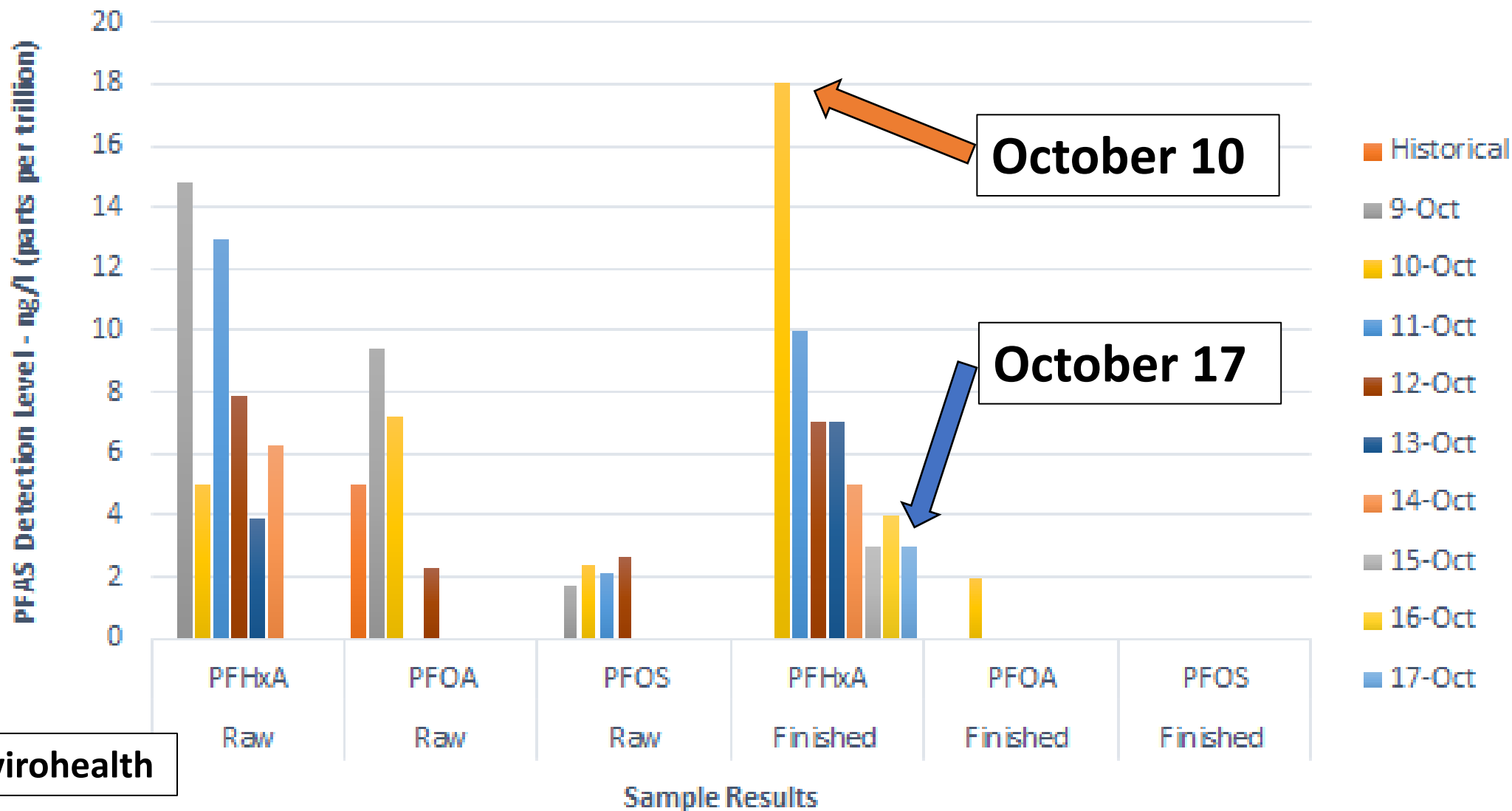


Michigan.gov/envirohealth

PFHxA: State of Michigan MCL of 400,000 ng/L in Finished Water

PFOA: State of Michigan MCL of 8 ng/L in Finished Water

PFOS: State of Michigan MCL of 16 ng/L in Finished Water



Michigan's PFAS Response

Michigan's Drinking Water Concerns

- The Menominee WTP is not designed to remove PFAS compounds
- The amount and fate of chemicals released is uncertain
- PFAS compounds are persistent in the environment

Ongoing Response

- EGLE will continue to routinely monitor the DW
- Results will be reviewed in concert with MI DHHS and other partners
- EGLE will coordinate with Menominee WTP operators
- **Residents will be notified immediately if a change in risk is determined**

Michigan Department of Health and Human Services

- MDHHS has reviewed and will continue to review both historic and current data from the Menominee Water Treatment Plant.
- This review process includes comparing measured PFAS values against health screening values.
- These screening values are designed to protect against a lifetime of exposure, and ensure the protection of all individuals, including those who may be more sensitive, such as bottle-fed infants less than 12 months of age.
- To date, the amount of PFAS measured in the drinking water of Menominee has not exceeded these health screening values.
- Taking all of these factors into account, MDHHS does not find a public health risk associated with these levels of PFAS found in the finished drinking water, and no actions are recommended at this time. Residents can continue using their water as they did before the fire.
- Monitoring of the drinking water will continue to ensure the ongoing protection of the public's health.
- MDHHS' technical evaluation of all the data can be found at

www.michigan.gov/mdhhs/safety-injury-prev/environmental-health/menominee-warehouse-fire

Menominee, Michigan Warehouse Fire Response

Unified Command



WISCONSIN DEPARTMENT
of **HEALTH SERVICES**



Background

- The City of Marinette has voluntarily been monitoring its drinking water for PFAS regularly since 2017.
- There are low levels of PFAS compounds found in Lake Michigan and in historical drinking water samples taken by Marinette.
- Wisconsin DHS recommended health-based standards for 18 PFOS compounds in November 2020 as well as a guidance for evaluating mixtures of PFAS compounds in drinking water.
- Wisconsin DNR set Drinking Water MCLs for PFOA and PFOS in August 2022.
- All historical samples taken by Marinette were below WI DNR MCLs as well WI DHS recommended standards and guidance.

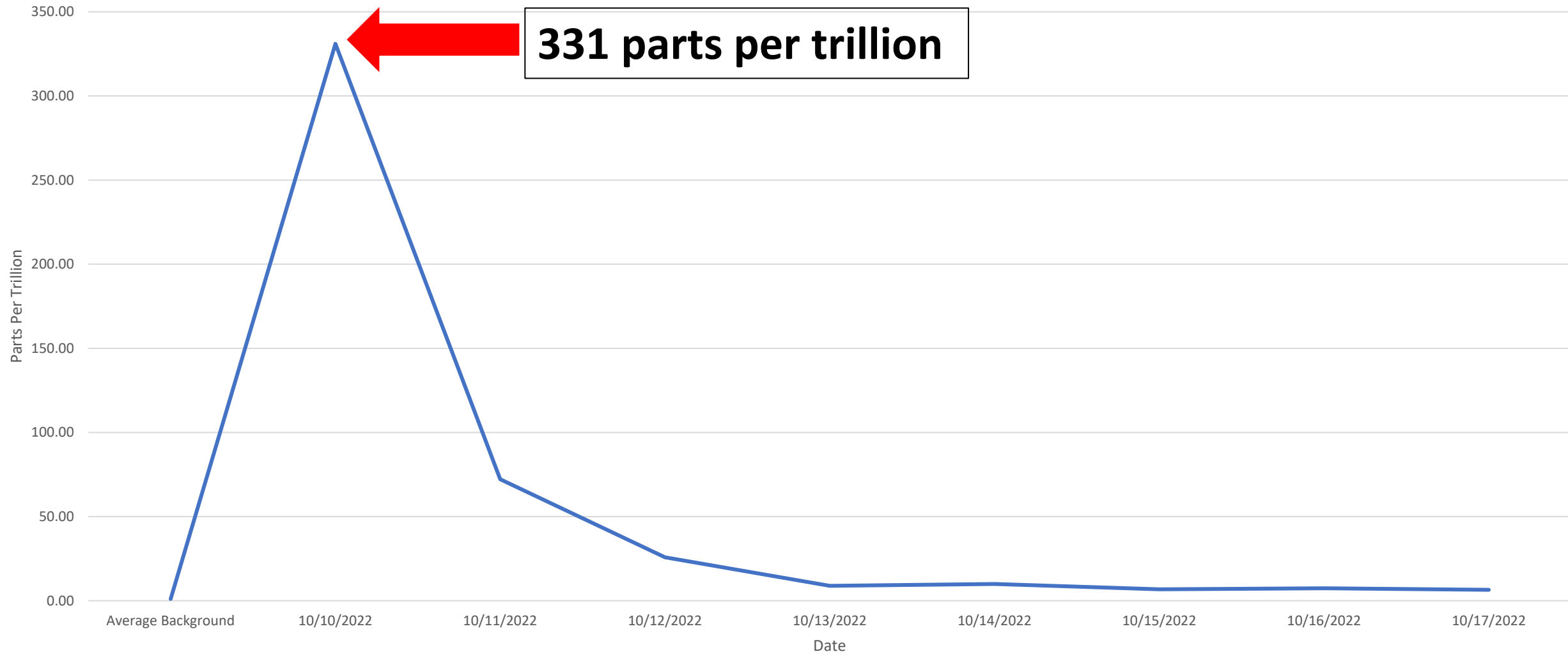
Response and Results

- In response to the fire in Menominee, MI, the City of Marinette has been voluntarily monitoring its drinking water for PFAS daily since Oct. 10, 2022.
- WI DNR and WI DHS have been evaluating those drinking water results and comparing them to WI DHS recommended health-based standards and guidance.
- Results show there was an impact to drinking water from the incident noted by a spike in one compound (PFHxA) when compared to historical data.
- Other PFAS compounds concentrations have remained near historical levels.
- ***All results indicate levels of PFAS compounds in drinking water remained below WI DNR MCLs and WI DHS recommended health-based standards and guidance.***

Response and Results

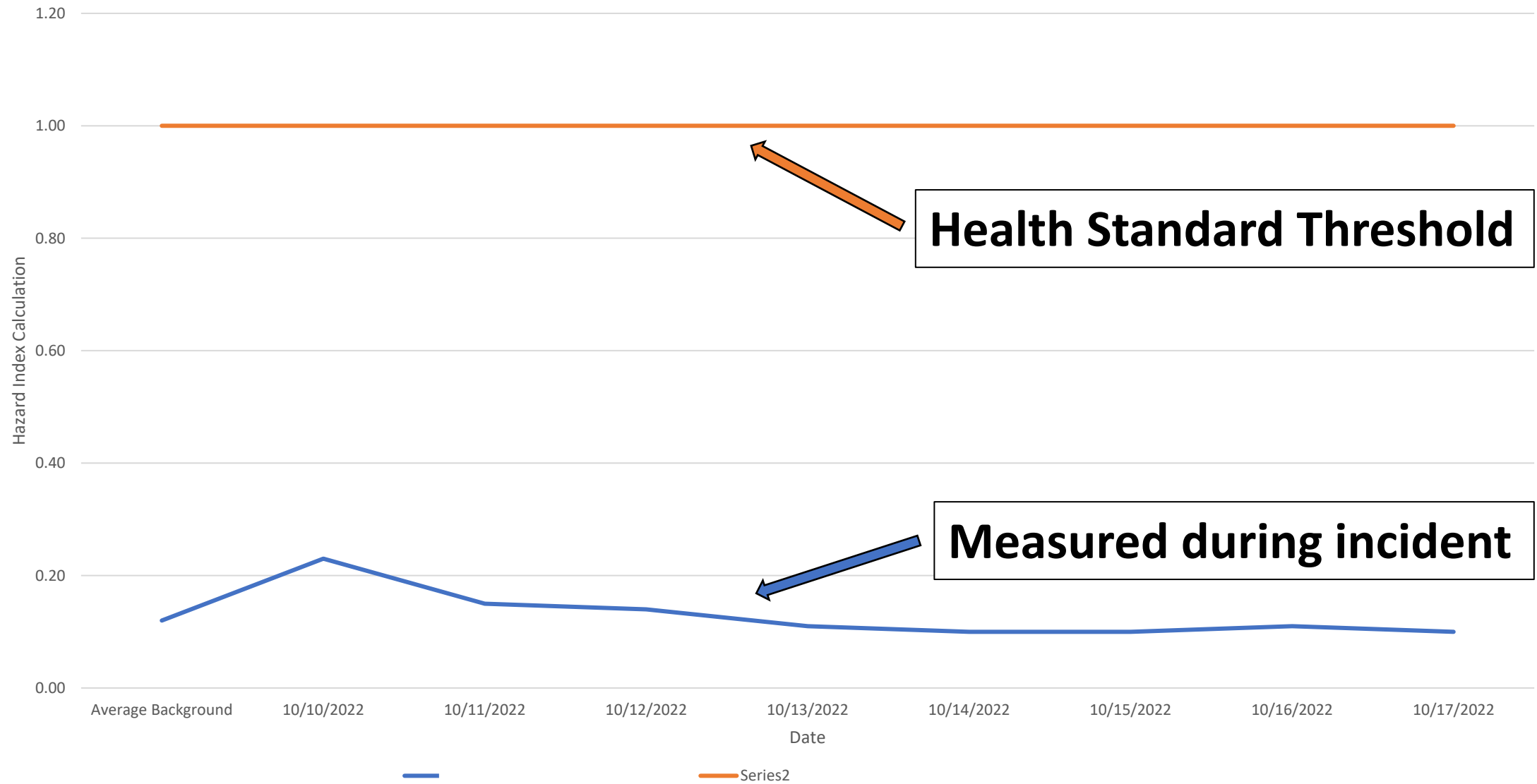
- Daily sample results now indicate levels of all PFAS compounds are trending toward historical average levels.
- The City of Marinette will continue to voluntarily monitor its drinking water regularly for PFAS.
- WI DNR and WI DHS will continue to evaluate data already received and future data for risk to public health based on WI DHS recommended health-based standards and guidance.
- *Marinette residents will be notified immediately if a change in the risk to public health is identified.*

Marinette Drinking Water PFHxA Results
WI DHS Recommended Health Based Standard = **150,000ppt**



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of **HEALTH SERVICES**

Marinette Drinking Water Hazard Index Calculation



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CONNECT WITH US

Kyle Burton WI DNR
Kyle.Burton@wisconsin.gov

Curtis Hedman
Curtis.Hedman@dhs.wisconsin.gov



/WIDNR



@WIDNR



@WI_DNR



/WIDNRTV



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OFF THE RECORD"

More Information - Links



<https://response.epa.gov/menomineewarehousefire>



<https://dnr.wisconsin.gov/topic/PFAS>



<https://www.dhs.wisconsin.gov/chemical/pfas.htm>



<https://www.marinette.wi.us/361/PFOA-and-PFOS-Investigation>



<https://www.michigan.gov/envirohealth>