# GENESEE COUNTY COALITION FOR CLEAN WATER CONCERNED CITIZENS

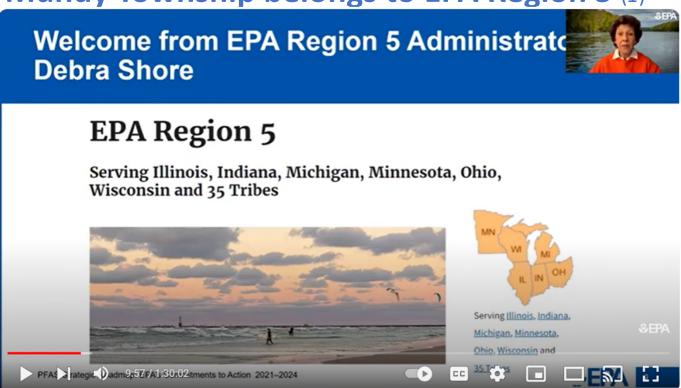
# MORATORIUM PETITION

presented by JoAn K.Mende, PE 7430 Marsack Dr Swartz Creek, MI 48473 October 23, 2023

- 1. INTRODUCTION
- 2. EPA AWARENESS (INFORMATION NOT MIS-INFORMATION)
  - > PFAS
  - WATER REGULATIONS
- 3. ADVANCED MANUFACTURING
  - > LOCATION
  - > ADVERSE HEALTH AFFECTS
  - **ECONOMIC AFFECTS**
- 4. CONCLUSIONS
  - > CONCERNS
  - > MUNDY TOWNSHIP BOARD ACTIONS

# 2. EPA AWARENESS:

Mundy Township belongs to EPA Region 5 (1)



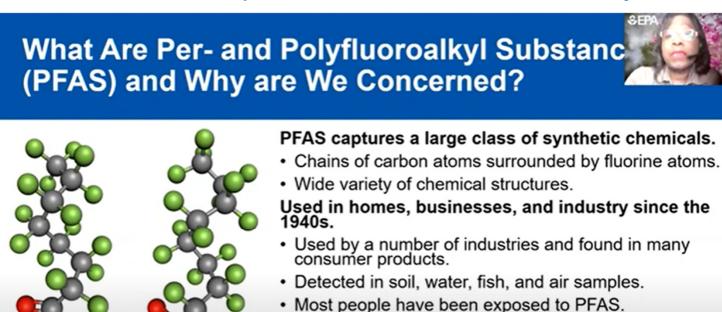
1. EPA PFAS Listening Session: Region 5; April 19, 2023, https://www.youtube.com/watch?v=2CU3\_IfhQKY

### 2. EPA AWARENESS:

> PFAS-(POLYFLUOROALKYL SUBSTANCE) used in Semi Conductor Industry

and others (1)

MOST PFAS
ARE A SOLID,
POWDERY
MATERIAL AT
ROOM
TEMPERATURE



Known or suspected toxicity.

· Some are relatively well understood; many others are

· Resist decomposition in the environment and in the

1. EPA PFAS Listening Session: Region 5; April 19, 2023, https://www.youtube.com/watch?v=2CU3\_IfhQKY

PFAS rategic DadmL6:59A/s130x02ments to Action 2021–2024

acid (PFOS)

Perfluorooctanoic Perfluorooctanesulfonic

acid (PFOA)

not.

human body.

### 2. EPA AWARENESS:

- > EPA'S COMMITMENT TO MONITOR PFAS (1)
- > TWO LAWS TO LIMIT AND PROTECT AGAINST PFAS (1):
  - TOXIC SUBSTANCE CONTROL ACT (TSCA)
  - TOXIC RELEASE INVENTORY PROGRAM (TRI)
- MARCH 14, 2023 EPA ESTABLISHED GUIDELINES FOR PFAS IN DRINKING WATER (1)
- ➤ MORE DATA AND INVESTIGATION IS NEEDED (1)
  - 1. EPA PFAS Listening Session: Region 5; April 19, 2023, https://www.youtube.com/watch?v=2CU3\_IfhQKY

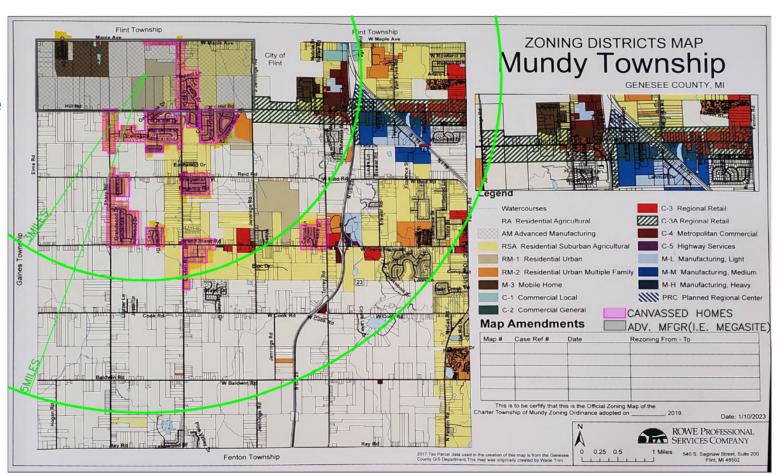
# **>** LOCATION

### Affected property

- > 9 subdivision within ½ mile
- **2** subdivisions within site
- 4 Manufactured Home Communities (Maple & Elms)
- > Swartz Creek Elementary
- > 2 Child Day Care Centers
  - (1 within site)

### Concerned Citizens

- Canvassing since August2023
- Over 1200 Signatures



ADVERSE HEALTH AFFECTS

### **CANCER AND RESPIRATORY HEALTH**

- Exposure during wafer manufacturing, fabrication and packaging/testing presents most significant incidents. (1)
- Organic solvents, acids, and metals are irritants to skin or respiratory organs. (1)
- Other materials are carcinogens or reproductive toxins and or neurotoxins. (1)
- Water contamination in groundwater
- 1. Kim MH, Kim H, Paek D. The health impacts of semiconductor production: an epidemiologic review. Int J Occup Environ Health. 2014 Apr-Jun;20(2):95-114. doi: 10.1179/2049396713Y.0000000050. Epub 2013 Dec 19. PMID: 24999845; PMCID: PMC4090871

ADVERSE HEALTH AFFECTS

### REPRODUCTIVE HEALTH

- The Semiconductor Health Study by the Semiconductor Industry
   Association (SIA) is the largest reproductive health study in the industry
   & included 14 US companies. (1)
- Elevated risks for Spontaneous miscarriages, irregular menstrual cycles, fertility problems. (1)
- Children born to female workers found an elevated risk for cancer. (1)
- Children born to male workers found more than a casual relationship of infanticide due to congenital malformation especially heart defects. (1)
- 1. Kim MH, Kim H, Paek D. The health impacts of semiconductor production: an epidemiologic review. Int J Occup Environ Health. 2014 Apr-Jun;20(2):95-114. doi: 10.1179/2049396713Y.0000000050. Epub 2013 Dec 19. PMID: 24999845; PMCID: PMC4090871

### > ECONOMIC AFFECTS

- PFAS use is monitored, but new, minerals with little safety date are being added to the manufacturers' needs for semi-conductor production: Gallium and Germanium. (1)
- The U.S. has deposits of gallium but imports 100% Germanium (1)
- Semiconductors are a top U.S. export. Over 80% of U.S. companies' sales are to over seas customers. The US exported \$61.1 billion in 2022 and maintains a consistent trade surplus in semiconductors, with major trading partners such as China.(2)
- China has transitioned to military power instead of economic priority (3)
- Increasing trade tensions between China and the US and Europe could crush US exports slowing or eliminating the need for production from newly constructed plants. (3)
  - 1. The U.S. Wants More Chips, Less PFAS. Can It Have Both? (Verisk Analytics, September 14, 2023)
  - 2. https://www.semiconductors.org/wp-content/uploads/2023/04/SIA-Industry-Factsheet-2023.pdf
  - 3. It's official: The era of China's global dominance is over (Business Insider, October 15, 2023)

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### 4. CONCLUSIONS

### KNOWN INFORMATION

- Our group of concerned citizens has canvassed the homes and received signatures from Mundy Township as well as surrounding areas.
- Citizens are concerned about the changing landscape, unknown health hazards as well as over inflated projections of job and economic prosperity.
- The resources made available to the public by the EPA, as well as significant institutions such as the Semiconductor Industry Association (SIA) substantiate our request for caution.

### > BOARD ACTIONS

• We are requesting the Mundy Township Board, take action at the next meeting and vote in favor of a one year moratorium on accepting any proposed development for the Advanced Manufacturing Overlay District (MEGA-SITE) as presented in the petition.

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### **CITED RESOURCES:**

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4090871/

https://www.epa.gov/pfas

Region 5, April 2023 EPA presentation on YouTube:

https://www.youtube.com/watch?v=2CU3\_IfhQKY

https://www.epa.gov/laws-regulations/summary-toxic-substances-control-act

https://www.epa.gov/toxics-release-inventory-tri-program/what-toxics-release-inventory

http://core-usw.verisk.com/Insights/Emerging-Issues/Articles/2023/September/Week-3/Semiconductors-and-PFAS-Risk

https://www.businessinsider.com/china-xi-jinping-economy-real-estate-debt-bust-american-companies-2023-10

https://www.semiconductors.org/wp-content/uploads/2023/04/SIA-Industry-Factsheet-2023.pdf

### **ADDITIONAL INFORMATION:**

Next GCCCW (Genesee County Coalition for Clean Water) Community Meeting at 5pm Sunday October 29, 2023 ST BARTHOLOMEW ANGLICAN CHURCH 9252 MILLER ROAD. SWARTZ CREEK

www.megasiteinfo.com

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