

Micron Semiconductor Fab Project Clay, New York

Public Open House
August 1, 2023
6:00pm-8:30pm

Agenda

—
6:30pm
Welcome
Remarks

—
6:40pm
Presentation

—
7:00-8:30pm
Open House

—
8:45pm
Doors Close

Welcome!



Preliminary illustration, subject to change.

Opening remarks

Carson Henry

US Expansion SPMO
Senior Director
Micron

Ryan McMahon

County Executive
Onondaga County

Joseph Bick

Deputy Supervisor
Town of Clay

Presentation Panel

Carson Henry

US Expansion SPMO
Senior Director
Micron

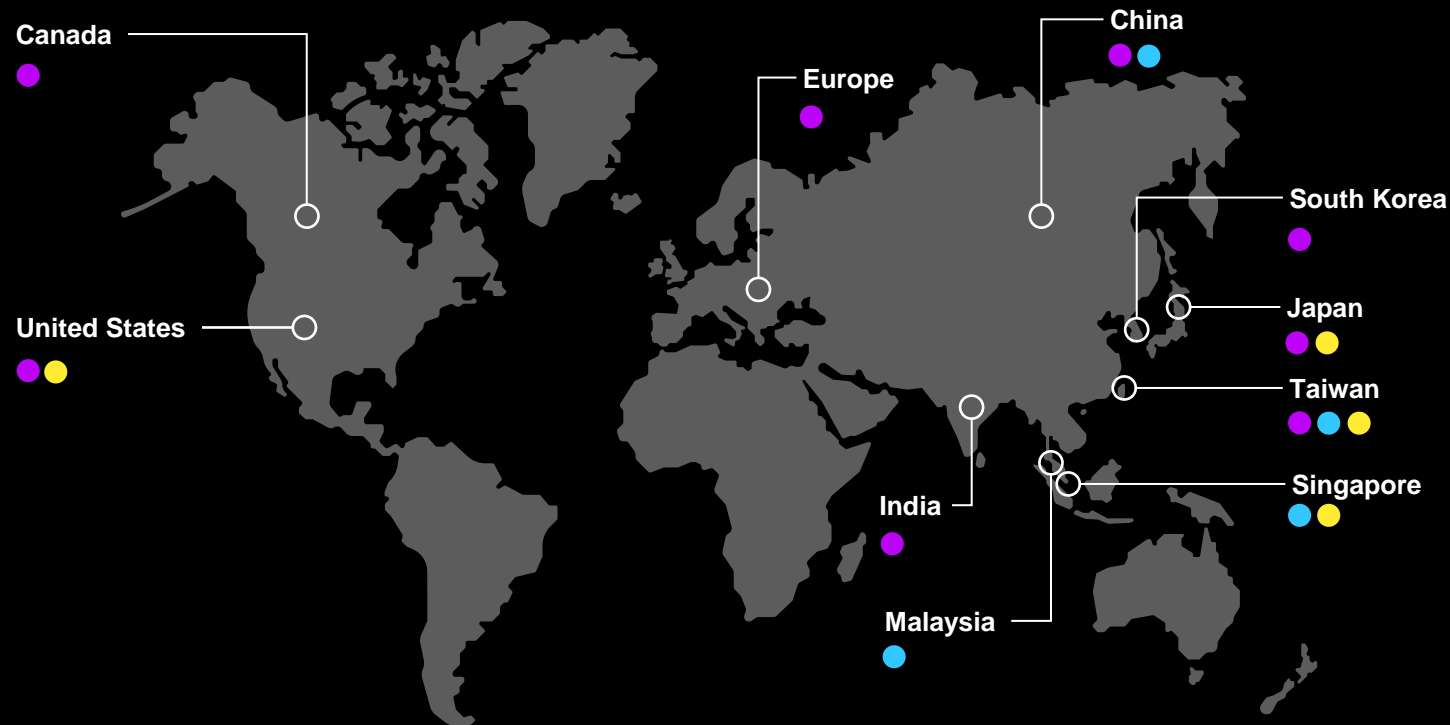
Graham Trelstad

AICP
Senior Vice President
WSP USA

Transforming how the world uses information to enrich life for all

- Engaged team members
- Leading-edge products
- Responsible operations

- Front-end manufacturing sites
- Assembly and test manufacturing sites
- Micron offices



Founded on
October 5, 1978

Headquartered in
Boise, Idaho, USA

\$30.8B

FY2022 revenue

5th

largest semiconductor company in the world

~44,000

team members

Data is Transforming the World

Digitization of the Global Economy

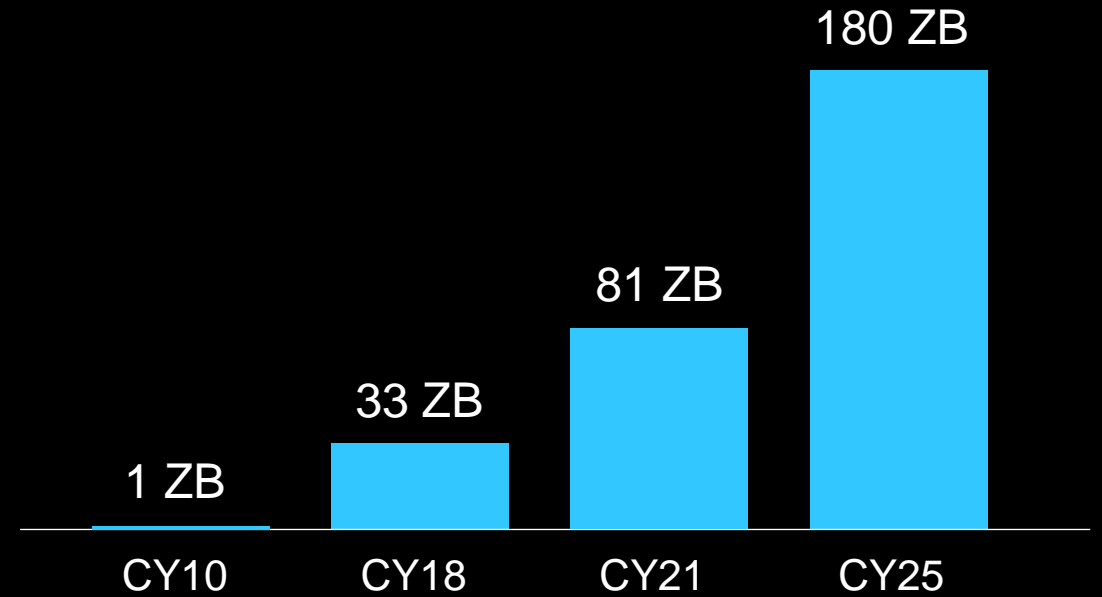
Hyperconnectivity

Insights from AI/ML

Source: IDC, Global DataSphere, March 2021
ZB = Zetabytes

Global Data Creation

1 ZB = 1 trillion gigabytes



Technology innovation unlocks the data economy



AI

Disruptive end-to-end
workload innovation



5G

Foundation for high-performance
connectivity

New Wave of Innovation Will Transform Multiple Industries Over the Next Decade



Mobility

- Connected smart vehicles
- Fully autonomous driving



Health Care

- Remote health monitoring and early prognosis
- Remote operations and IoT in hospitals



Media and entertainment

- Immersive media, AR/VR, ubiquitous live streaming
- AI-enabled user content generation



Agriculture

- Robotics, drones, satellite and soil sensors
- End-to-end traceability for food safety and spoilage



Industrial

- Cloud control of machines
- Augmented reality, Video analytics

New York Fab Investment

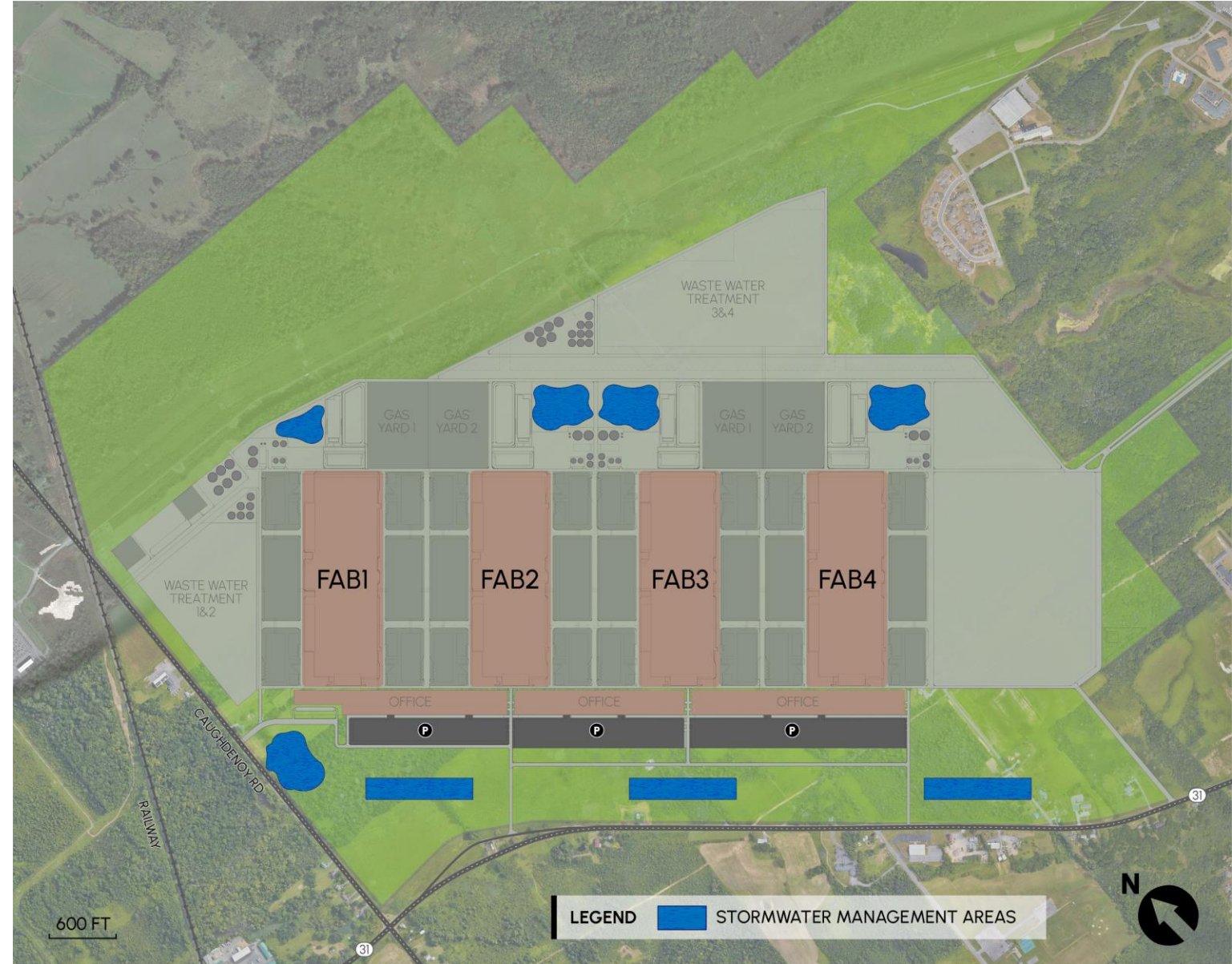
- 4 fabs totaling 2.4M sq. ft of cleanroom space planned and over \$100B investment over the next 20+ years
- Approximately \$20 billion investment through the end of the decade
- New fab for leading-edge memory manufacturing
- Approximately 9,000 Micron jobs and over 40,000 community jobs
- Construction start in CY24 with production ramping in the second half of the decade



Project Benefits

NY Site Master Plan

- Approx. 1,400-acre assemblage of properties
- Access from NY 31, NY 11, Caughdenoy Road
- LEED Gold Fab Buildings
- LEED Platinum Admin Buildings
- On-site wastewater pre-treatment
- Water supply from OCWA
- Wastewater conveyance through OCDWEP
- Electric & Natural Gas through National Grid
- Ancillary properties for pumping station, childcare facility



Micron's commitment and progress

- Current achievement
- Next milestone
- Aspirational goal

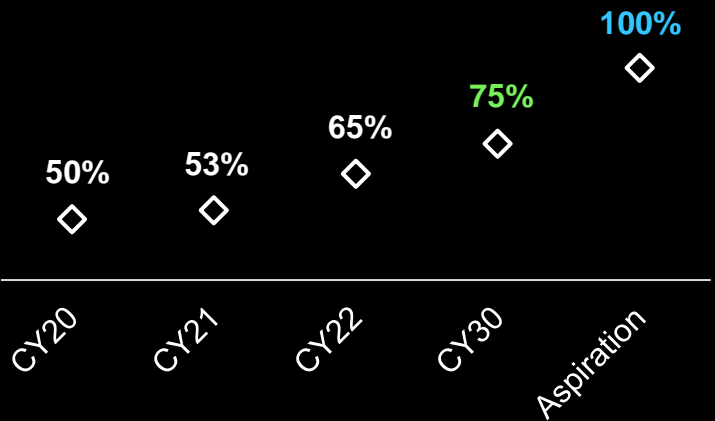
Emissions

52% reduction in GHG emissions per unit of production from CY18 achieved in CY22

42% absolute reduction in Scope 1 emissions by CY30 from CY20 baseline

Net zero Scope 1 and 2 emissions by CY50

Water (reuse, recycle, restore)



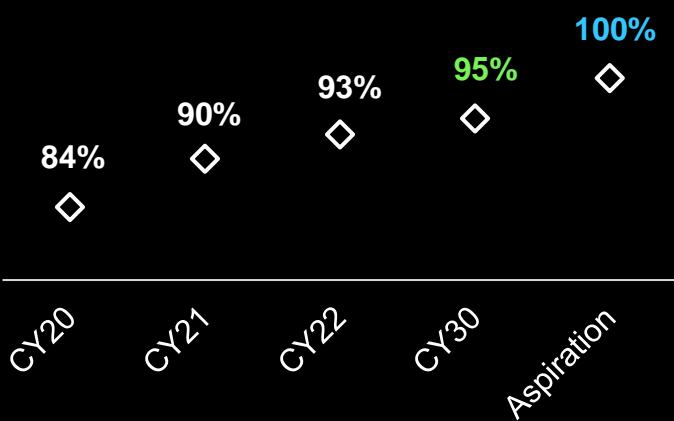
Energy (purchased electricity)

100% renewables in Malaysia achieved in CY22

100% renewables in United States by CY25

100% renewables globally, where available

Waste (reuse, recycle, recovery)



GHG = Greenhouse Gas | CY = Calendar Year



Investing in Community

- Micron and the state of New York announced a historic **\$500 million** investment in community and workforce development over the duration of the project.
- Micron will invest **\$250 million** in the Green CHIPS Community Investment Fund working with community partners.
- An additional **\$250 million** is expected to be invested, with **\$100 million** from New York and **\$150 million** from local, other state and national partners.



Purpose and Need

—
Help to meet the growing global demand for memory and storage.

—
Reduce economic and national security risks by expanding the capacity for domestic memory manufacturing - in the process, strengthening regional supply chains and furthering R&D collaboration.

Environmental Review

NEPA

National Environmental Policy Act (NEPA)

- Applies to all Federal agencies and “actions” (including permitting and funding)
- NEPA Lead Agency assumed to be Department of Commerce
- Early agency outreach with:
 - US Army Corps of Engineers
 - US Fish & Wildlife Service
 - US Environmental Protection Agency
 - Federal Highway Administration

SEQRA

New York State Environmental Quality Review Act (SEQRA)

- Applies to State and Local actions (including sale of property)
- SEQRA Lead Agency will be Onondaga County Industrial Development Agency (OCIDA)
- Early agency outreach with:
 - NYS Department of Environmental Conservation
 - NYS Department of Transportation
 - NYS Office of Parks, Recreation and Historic Preservation (SHPO)

Environmental Impact Statements

- Micron will complete an Environmental Impact Statement (EIS) to satisfy NEPA and SEQRA.
- The EIS will:
 - Consider the potential impacts of the project on a broad range of topics including natural and physical environment and social and economic effects.
 - Document the project's compliance with Federal, State, and local regulations.
 - Document Micron's outreach to Environmental Justice communities.
 - Include information on agency permitting and outreach.

Key EIS Milestones

- 1. Publish the Notice of Intent and Conduct Scoping**
Scoping includes a public opportunity to comment on purpose & need, alternatives, and topics to be covered in the EIS.
- 2. Release of the draft EIS and a public comment period.**
The draft EIS (DEIS) will describe the Proposed Project, identify any impacts, and describe proposed mitigation for impacts. A public hearing and public comment period will allow the public to provide input on the contents of the DEIS.
- 3. Release of the final EIS.** Using the public comment as input, the Lead Agency will prepare a final EIS (FEIS) to clarify or update the technical analyses. The FEIS will include a summary Response to Comments sections documenting how public comments was addressed.
- 4. Issuance of a Record of Decision.**
The Record of Decision (ROD) documents the Lead Agency's conclusions (or findings) relative to environmental impacts and required mitigation. Publication of the ROD completes the NEPA process.

Environmental Review Timeline



Technical Studies

Environmental Review will include analyses in the following areas:

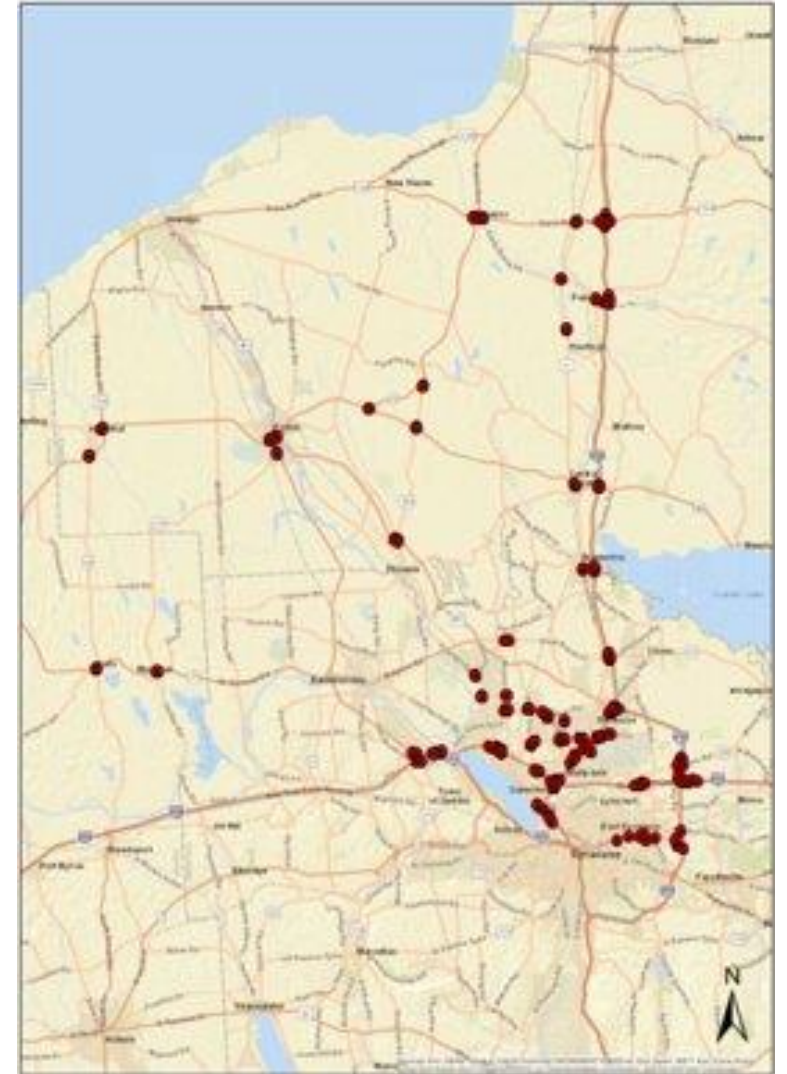
- Project Alternatives
- Land Use, Zoning, and Public Policy
- Socioeconomic Conditions
- Environmental Justice
- Historic and Cultural Resources
- Natural Resources
- Greenhouse Gas Emissions/Climate Change
- Hazardous Materials
- Traffic and Transportation
- Air Quality
- Noise and Vibration
- Utilities and Infrastructure
- Use and Consumption of Energy
- Construction



Preliminary illustration, subject to change

Traffic and Transportation

- Micron is conducting detailed local and regional transportation analyses to assess the potential impacts of the proposed project.
- In Spring of 2023 Micron conducted detailed traffic counts at over 200 locations surrounding White Pine Commerce Park.
- Data will be analyzed in models developed with the assistance of NYSDOT and the Syracuse Metropolitan Transportation Council (SMTC).
- The models will identify areas of existing congestion and areas where project traffic may require additional measures to mitigate project traffic along key highway corridors serving the Project Site.



Traffic and Transportation

Local & Regional Transportation Analysis

- **Local Analysis:** Studies of roadways and intersections near the proposed project site.
- **Regional Analysis:** Generalized study of the Syracuse Metro area, with a focus on evaluating the region's highways and interstates.

Ongoing Coordination

Micron and the planning and engineering teams have regular meetings with officials to keep all parties up to date on project progress:

- Regular meetings with Town of Clay, Town of Cicero, Onondaga County DOT, NYSDOT, and FHWA.
- Public engagement meetings to solicit feedback from residents and local business.

Analysis Steps

- Study existing infrastructure and traffic patterns.
- Model future traffic patterns from traffic generated by the project and other developments in the area.
- Identify locations that will require infrastructure changes to accommodate increased traffic demand while minimizing impacts.
- Propose and test possible infrastructure improvements and share feasible options with stakeholders.

Air Quality & Noise

Air Quality

- Micron is developing information in collaboration with NYSDEC to comprehensively identify potential air emissions from the proposed Fabs.
- This information will be part of a detailed Title V permit application that will be reviewed by NYSDEC and the US Environmental Protection Agency.
- The permit application will also analyze the effects of the additional traffic entering and exiting the project site during construction and operations of the Proposed Project, including an assessment of Mobile Source Air Toxics (MSAT) following Federal Highway Administration protocol.

Noise

- Micron is assessing the effects of the Proposed Project on noise levels within the surrounding area.
- In Spring 2023, Micron conducted detailed monitoring of noise levels in the area.
- These data will be analyzed in a model that evaluates noise generated by the Proposed Project to identify where any noise levels may exceed thresholds established by various agencies.
- The model will be developed following guidance from NYSDOT, FHWA, and NYSDEC.

Air Quality & Climate Change

Greenhouse Gas Emissions

- Micron is conducting a detailed assessment of potential greenhouse gas (GHG) emissions from the Proposed Project. The analysis will be prepared following guidance from the US Council on Environmental Quality (CEQ), US Environmental Protection Agency (USEPA), and New York State's Climate Leadership and Community Protection Act (CLCPA).

Climate Change

- Micron will include evaluation of the Proposed Project's effects on climate change and resiliency, including the effects of increased impervious areas on local flooding. This analysis will follow guidance provided by the US Council on Environmental Quality (CEQ).

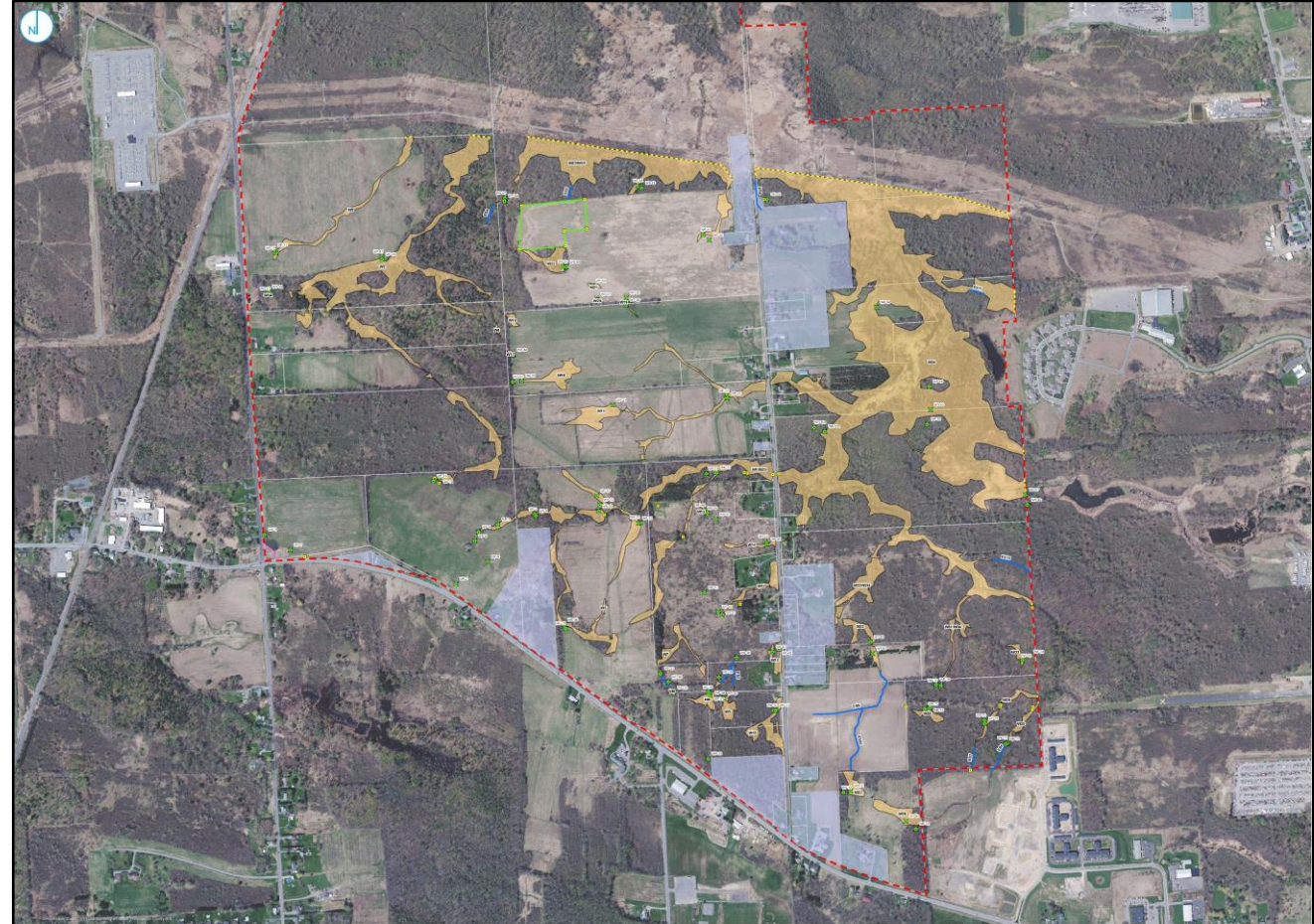
Habitat Assessment

- Micron is coordinating with federal and state agencies to conduct detailed site evaluations of potential habitat for threatened & endangered species or New York State Species of Special Concern. In consultation with the U.S. Fish & Wildlife Service and New York State Department of Environmental Conservation, Micron conducted field inspections in Spring 2023 to supplement information from various databases and maps.
- Field work to be completed in Spring/Summer 2023 will evaluate the potential presence of the federally- or state-listed Indiana bat, northern long-eared bat, and northern harrier. Field work will also determine if the state-listed short-eared owl, which has previously been documented on the Project Site, is actually present. Grassland breeding bird surveys will also identify whether the state-listed sedge wren or any other state-listed birds could be found on the Project Site.
- Micron will be developing draft permit applications in coordination with the appropriate Federal and State agencies that will identify the potential impacts and proposed mitigation. This information will be contained within the Environmental Impact Statement.



Wetlands

- Micron is coordinating with federal and state agencies to conduct detailed site evaluations of wetlands on the Project Site. In consultation with the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation, Micron conducted field inspections in Spring 2023 to identify Federal and State wetlands on the Project Site.
- The proposed Micron Campus contains portions of NYS mapped wetlands BRE-11 and BRE-14, part of the Youngs Creek watershed
- Off-site utility corridors will also be evaluated. The proposed alignment for industrial wastewater force mains crosses NYSDEC wetland BRE-09 and BRE-13.
- USACE and NYSDEC staff have initiated review of the field-delineated wetlands and will be reviewing a formal Jurisdictional Determination request to be submitted by Micron.
- As currently proposed, the Micron Campus will likely result in wetland impacts requiring federal and state permits and associated mitigation.



Cultural Resources, Socioeconomic & Regional Effects

Cultural Resources

- The assessment will follow the requirements of Section 106 of the National Historic Preservation Act as well as Article 14.09 of the State Historic Preservation Act.
- Consultation with Indigenous Nations will be facilitated by SHPO.
- All areas of Proposed Project work will be screened for the potential presence of archaeological resources.

Socioeconomic Effects

- The evaluation will identify any Environmental Justice communities consistent with Federal and State Executive Orders and policies.
- The evaluation will identify any Disadvantaged Communities (DAC) consistent with the New York State Climate Leadership and Community Preservation Act (CLCPA).
- The evaluation will address potential changes in demographics and residential housing markets.
- The evaluation will assess changes in labor supply and effects on existing businesses.
- The evaluation will assess potential induced development in communities surrounding the Project Site.

Community Resources & Facilities

Water

- Micron has been working with Onondaga County Water Authority (OCWA) to identify any improvements to OCWA's existing water infrastructure required for the Proposed Project.
- An existing OCWA transmission line already services the Project Site, but additional capacity will be required to provide up to 48 million gallons per day (MGD) for Micron's operations.
- OCWA has sufficient capacity to serve Micron's initial Fab, but will likely require an additional intake at Lake Ontario, as well as upgrades to the water treatment plant, pumping stations, and transmission lines.

Wastewater

- Micron has been working with Onondaga County Department of Water Environment Protection (OCDWEP) to identify any improvements to OCDWEP's infrastructure required for the Proposed Project.
- Micron will provide its own industrial wastewater pre-treatment operations on the Project Site and will coordinate with OCDWEP on re-use and reclamation of treated industrial wastewater to reduce overall potable water consumption.
- Micron is investigating other techniques such as rainwater collection for gray-water use on the Project Site.

Community Resources & Facilities

Solid Waste

- Micron will coordinate with Onondaga County to provide detailed information on project solid waste generation and recycling operations.
- In addition, Micron will be coordinating with NYSDEC to identify any regulated solid waste (including any universal waste or hazardous waste) generated at the Project Site and develop appropriate storage, handling, and disposal practices to meet all applicable regulations

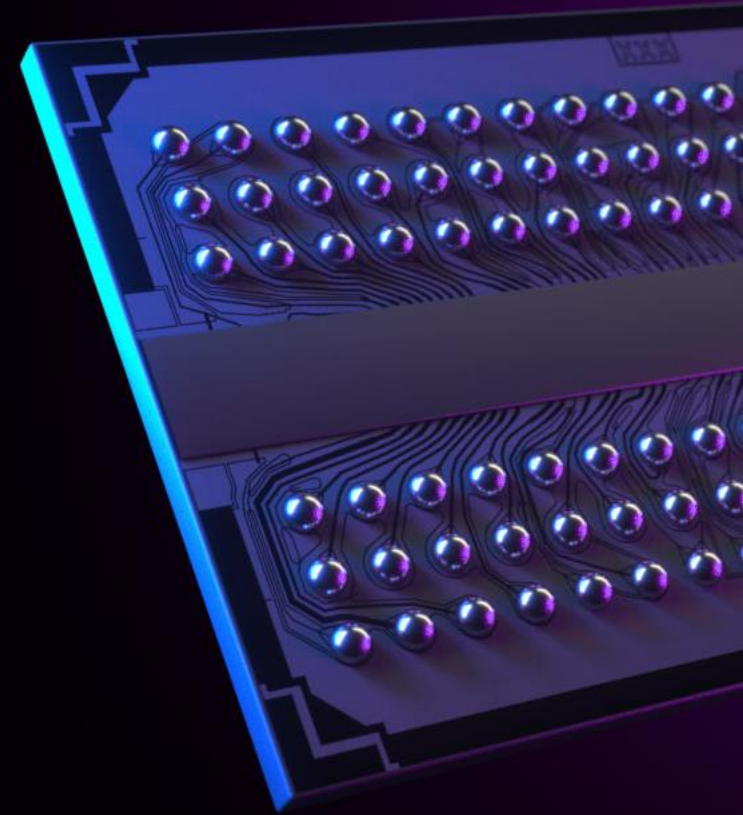


Open House Exhibits

- » Welcome!
- » About Us
- » Project Overview
- » Purpose & Need
- » Project Benefits
- » Environmental Review
- » Sustainability Initiatives
- » Transportation/Traffic
- » Natural Resources
- » Air Quality, Noise & Climate Change
- » Cultural, Socioeconomic & Regional Effects
- » Micron's Proposed Campus
- » Community Resources & Facilities
- » Share Your Feedback
- » What's Next?

Thank you!

- Get Up-to-Date Information
www.micron.com/ny
- Fall 2023 Scoping Process
 - Attend Public Scoping Meetings
 - Submit formal comments
- Contact Us
 - outreach@micronnewyork.com
 - 315.220.0322





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