

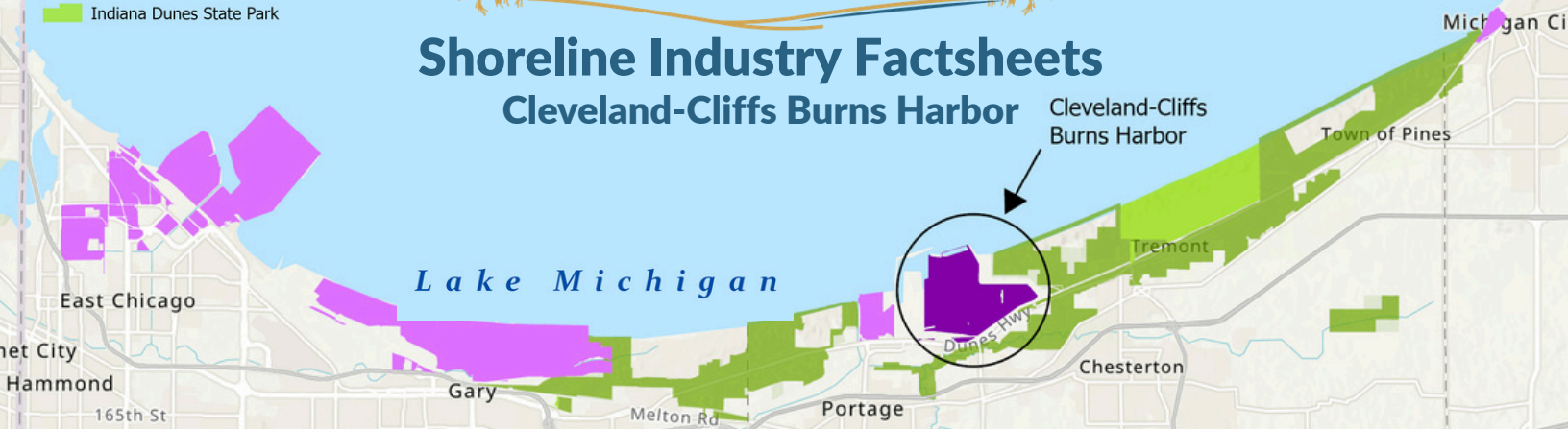
Legend

- Major Shoreline Industry Lands
- Indiana Dunes National Park
- Indiana Dunes State Park



Shoreline Industry Factsheets

Cleveland-Cliffs Burns Harbor



CLEVELAND-CLIFFS BURNS HARBOR OVERVIEW

- Burns Harbor is Cleveland-Cliffs largest U.S. facility
- Burns Harbor is a fully integrated steelmaking facility located on Lake Michigan in NWI, 50 miles southeast of Chicago
- Principal products made at this location are hot-rolled, cold-rolled, hot-dip galvanized coils, and heat-treated plate

CLEVELAND-CLIFFS BURNS HARBOR NPDES PERMIT: NUMBER IN0000175

- NPDES permits are valid for five year periods
- Before the NPDES permit is renewed, a public comment period will be announced by IDEM
- **The public comment period is the best opportunity for the public to influence the five-year NPDES permit discharge levels and monitoring and reporting requirements**



WHAT DOES SAVE THE DUNES DO?

- We work to protect the Indiana Dunes and Lake Michigan through meaningful conservation, advocacy, and community engagement
- In the event of an emergency, Save the Dunes will alert members and supporters via an "Action Alert" to empower community members to take action. Sign up for newsletters and become a member at savethedunes.org

OUTFALL LOCATIONS

- Large pipes, called "outfalls" discharge water from industrial facilities into adjacent waterways
- Burns Harbor Facility has three outfalls that discharge to nearby waterways. Each outfall is regulated by the NPDES permit
- Outfall 001 discharges into the East Branch of the Little Calumet River
- Outfall 002 discharges non-contact cooling water and storm water into the East Arm of Burns Harbor
- Outfall 003 discharges rinse water from the intake filters back into Lake Michigan



DID YOU KNOW?

Lake Michigan is the source of drinking water for more than 40 million people

DID YOU KNOW

Non-profit organizations hold industries accountable through advocacy campaigns and lawsuits if permit violations are severe and/or a systemic pattern of violations is evident

CLEVELAND-CLIFFS BURNS HARBOR
CONSENT DECREE SUMMARY

- In 2019, the ArcelorMittal Burns Harbor steel mill (now owned by Cleveland-Cliffs) began discharging large amounts of ammonia and cyanide into the Little Calumet River at levels far exceeding their NPDES permit limits, resulting in 3,000 dead fish and beach closures at the Indiana Dunes National Park
- Following the incident and subsequent lawsuits, a Consent Decree was issued to Cleveland-Cliffs, which required them to pay a \$3 million civil penalty, transfer 127 acres of land into permanent conservation, and perform weekly monitoring on ammonia and cyanide levels
- Cleveland-Cliffs was also required to install and maintain dedicated ammonia and cyanide treatment systems to be operated during high-risk circumstances

NPDES PERMITTED POLLUTANTS OF INTEREST

*Health effects listed are subject to extreme exposures in certain cases and are not guaranteed above permitted levels

Pollutant	Health Impacts Above Permitted Levels
Ammonia	High levels of ammonia can irritate and burn the skin, mouth, throat, lungs, and eyes. Very high levels of ammonia can damage the lungs or cause death.
Mercury	High levels of mercury can lead to neurological and behavioral disorders symptoms including tremors, insomnia, memory loss, neuromuscular effects, headaches and cognitive and motor dysfunction.
Mercury (ng/l)	
Total Cyanide	The health effects from high levels of cyanide exposure can begin in seconds to minutes. Signs and symptoms include headaches, nausea, difficulty breathing, seizures and cardiac arrest.
Thermal Effluent Limitations	These temperature changes may adversely affect fish and aquatic health in surface waters by reducing the reproductive success of fish and aquatic life, and in extreme cases lead to fish kills.

DID YOU KNOW

IDEM compiles all permit related information which is available online at <https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/>

- Be aware of permit renewal dates
 - The public can usually provide comments around 30 days after a permit draft is published. Be sure to research any specifics that you are interested in including prior to submitting your public comment
- Stay Connected
 - Make sure you are connected with Save the Dunes on social media and join our email list to be notified of emerging situations and action alerts