

Lake Erie Outfall Project

Presenter: Jason Hockran Owner/Vice President



H&H ENTERPRISES



THE UNDERGROUND UTILITIES EVENT | JANUARY 25-27, 2022 | FORT WORTH, TEXAS

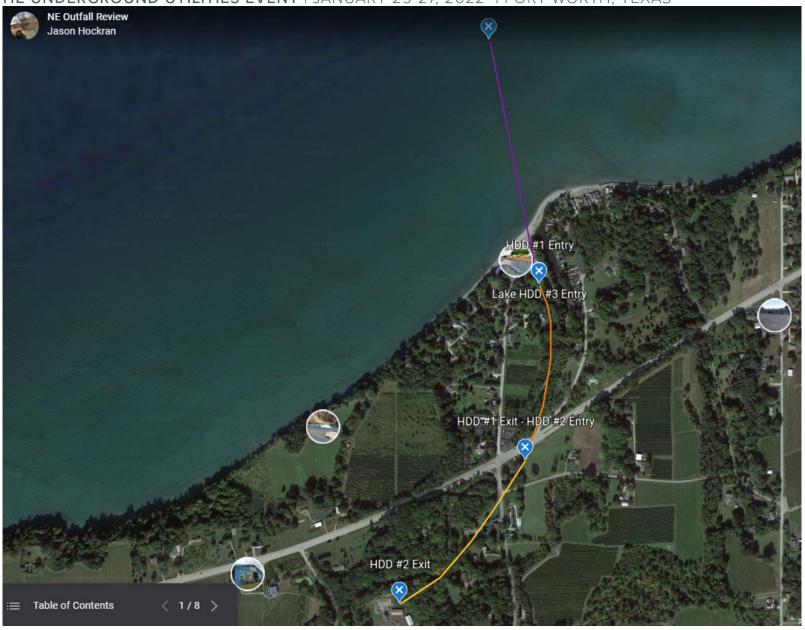
Who: Northeast Borough Sewer Authority & GPI Inc.

Why: Carry treated wastewater from Sewer plant into Lake Erie EPA approved outflow location

When: Planning begins 2015, H&H & GPI Inc.
Construction begins Nov. 2019
Completed & Operating July 2020





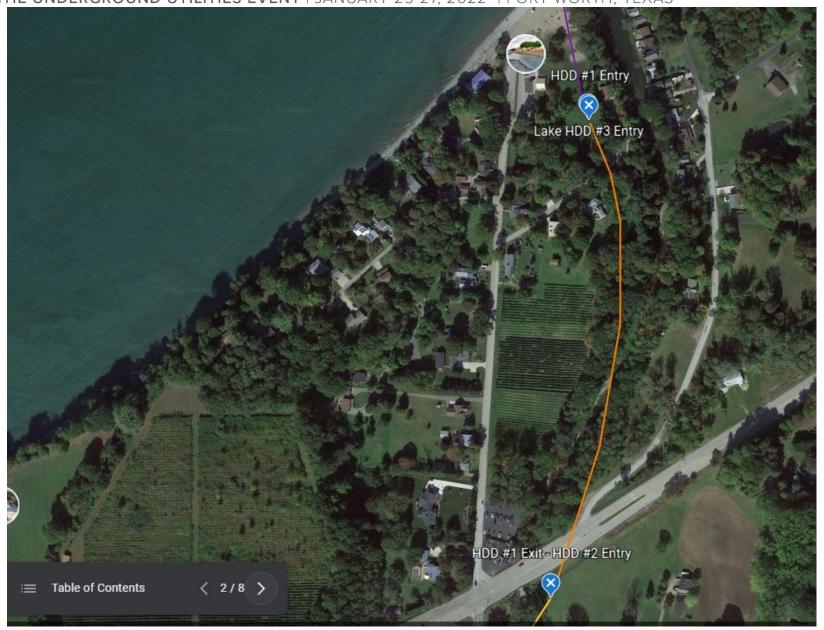




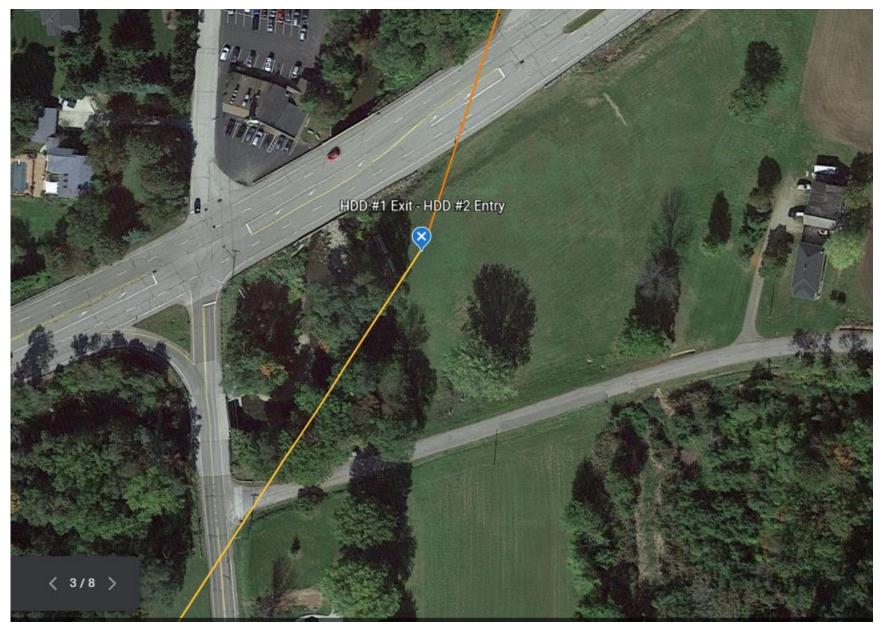












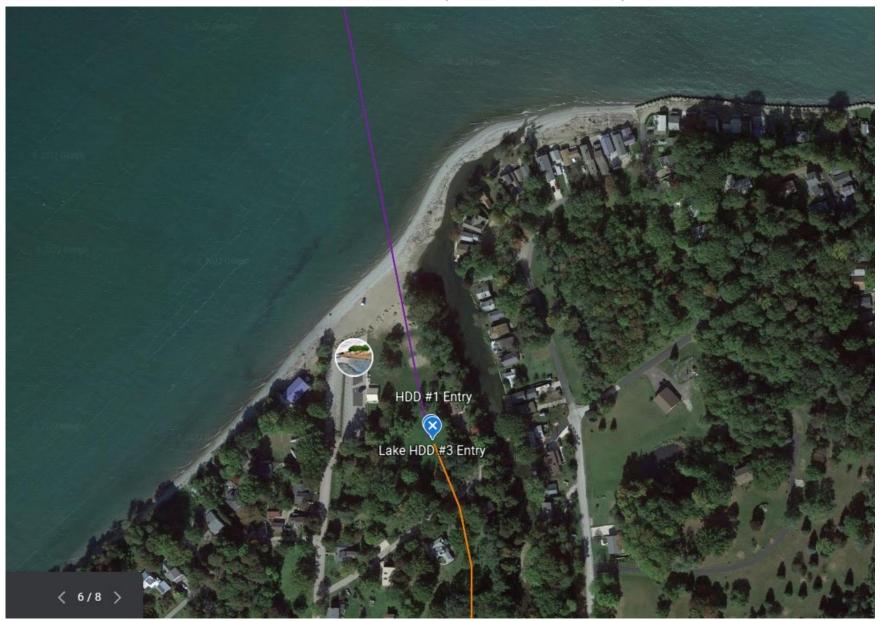








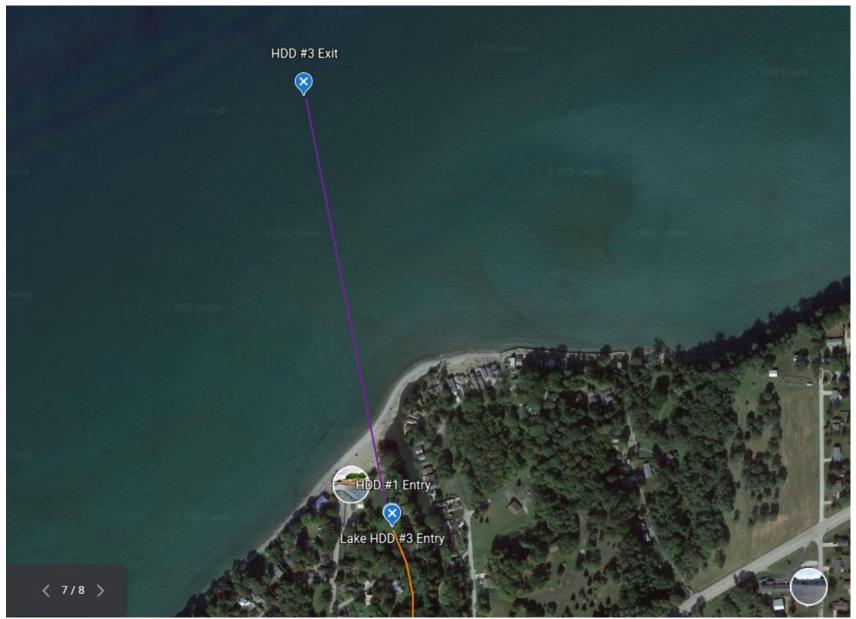














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DESIGN & PLANNING FACTORS

- Environmental Impact Reduction
- ROW Property, Terrain & Geology issues
- Critical Design Timeframe planning
- Multiple HDD Segments
- Coordination HDD, Public Access & Marine
- TEAM shared RISK, Communication





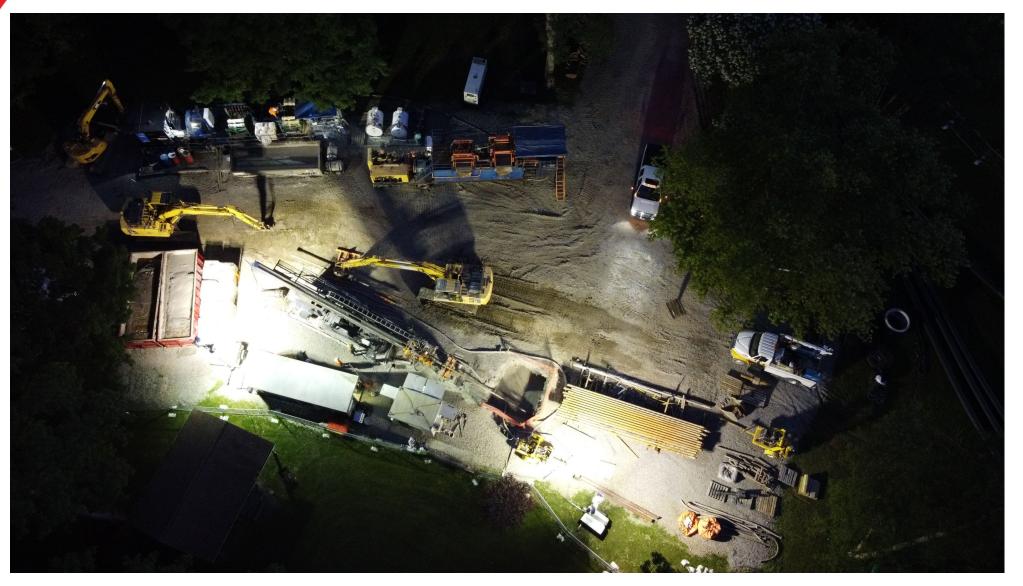
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HDD OPERATIONS KEY ELEMENTS

- March 2020, Pandemic Mobilization HDD #3
- Unknown formation @ Lake bottom rock/dirt
- Minimize Mud into Lake, Sedimentation & Efficiency









HDD OPERATIONS KEY ELEMENTS

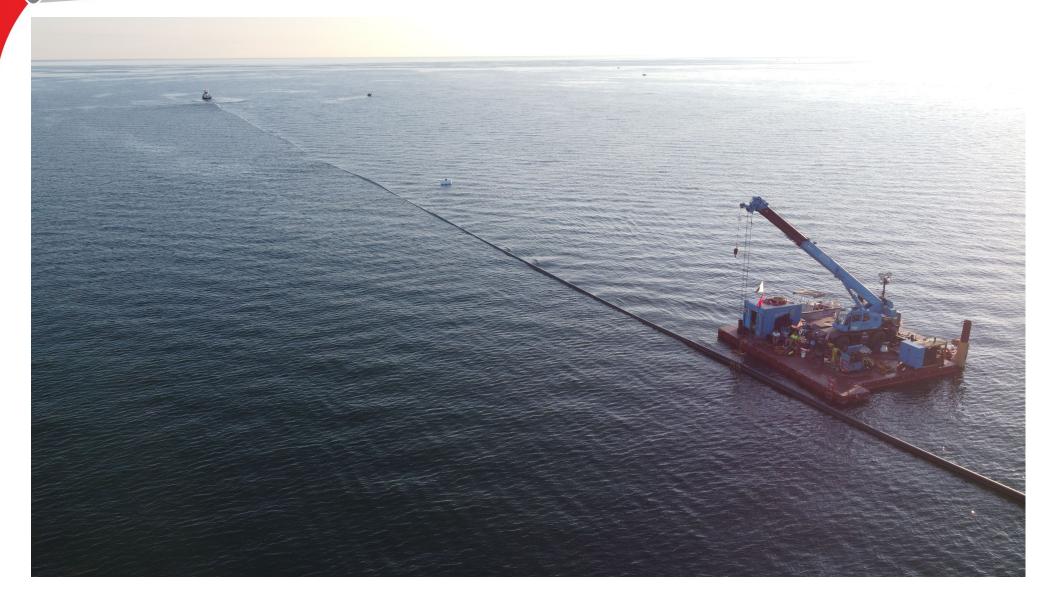
- Hole Tripping Pipe management on Barge Hole Openers – with Pup joint
- Fractured Formation last 20 ft. of drilled hole
- Gyro & Paratrack combo
- Mud Weight















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PIPE HANDLING on WATER

- 2,200 ft. fused on beach
- Utilize barge and supply boats to maneuver
- Alignment of HDPE with drill pipe on barge
- Pipe remove air, fill with water
- Length of pipe calculations









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QUESTIONS?

Jason Hockran **Owner/Vice President** jason.hockran@handhent.com

