BUILT DIFFERENT

Inland Waterways Dredge



Mission Requirements

This self-propelled cutter suction dredger with hopper capacity will support maritime operations within the Nigerian Lagos Lagoon and associated waterways through channel deepening and maintenance dredging. It is designed to operate at extremely shallow drafts and has capability for offshore discharge of spoils.

Principal Particulars

| Length Overall | 98.1 m |
|-------------------------------|---------------------|
| Length Between Perpendiculars | 88.0 m |
| Breath, Molded | 30.0 m |
| Depth, Molded | 6.4 m |
| Full Load Draft, Molded | 2.5 m |
| Maximum Sailing Speed | 10 kts |
| Total Installed Power | 7680 kW |
| Hopper Capacity | 1000 m ³ |
| Hopper Fill Time | 45 min |
| Maximum Dredging Depth | 12 m |
| Complement | 10 persons |
| | |

Operating Modes

- Discharge through bow nozzle during dredging
- Discharge through floating pipeline during dredging

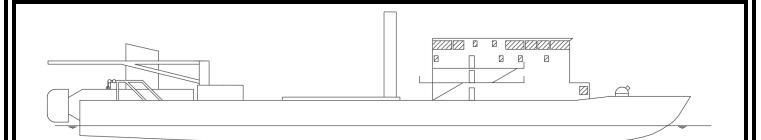
Complicated

Shovel LLC

- Dredging spoils to hopper for intermediate storage
- Hopper discharge through hopper doors, bow nozzle, or pipeline

Design Highlights

- Hopper / Cutter Suction Dredge hybrid design
- Self-reliance in a variety of operating modes
- Flexible diesel-electric powering
- 10 knot full-load top sailing speed
- Twin-screw fixed pitch propellers in stern tunnels
- Bureau Veritas NR217 Compliant



Team Member Profiles

Jonas Armstrong

Addison Harris



<u>Hometown</u>: Flagstaff, AZ <u>Work Experience</u>:

- Westport Yachts, WA
- HydroComp Inc.

<u>Aspirations</u>: Marine Software and Propeller Design



<u>Hometown</u>: Wichita, KS <u>Work Experience</u>:

- Detyens Shipyard, SC
- Stolt Tanker

American Bureau of Shipping
<u>Aspirations</u>: Graduate School

Kevin O'Keefe



<u>Hometown</u>: North Babylon, NY <u>Work Experience</u>:

- Detyens Shipyard, SC
- Stolt Tanker
- American Bureau of Shipping <u>Aspirations</u>: Undecided

Gracie Schmitz



<u>Hometown</u>: Locust Valley, NY <u>Work Experience</u>:

- Metal Shark Boats, LA
- Cape May-Lewes Ferry
- Gibbs & Cox, Inc.

Aspirations: Business School