

# TUG DOUGLAS B. MACKIE/BARGE ELLIS ISLAND

## ATB TRAILING SUCTION HOPPER DREDGE



### DIMENSIONS

Hull	480 x 92 x 28 ft	146 x 28 x 11 m
Draft	30 ft	9.2 m
Suction Diameter	2 @ 36 in	914 mm
Discharge Diameter	36 in	914 mm

### PERFORMANCE

Hopper Capacity	14,800 yd <sup>3</sup>	11,315.4 m <sup>3</sup>
Dredging Depth	122 ft	37.2 m

### MACHINERY & POWER

Dredge Pump Power	10,000 hp	7,460 kW
Total Installed Power	28,625 hp	21,346 kW
Dumping System	Bottom Doors	
Anchoring	Two Bow Anchors	

Articulated Tug Barge (ATB) hopper dredges are designed to vacuum material from the sea floor through drag arms that load the material into the hold of the vessel. The cargo of dredged material can then be transported to an open water disposal site where the material is placed on the seabed through openings in the bottom of the hull. Alternatively, the material is transported to an upland site such as a beach or reclamation where it is pumped ashore by the vessel.

### CERTIFICATION

Tug: ABS • ✱A1 Towing Vessel • AMS, ACCU  
U.S. Coast Guard • Unlimited Oceans

Barge: ABS • ✱A1 Barge Ⓢ  
U.S. Coast Guard • Unlimited Oceans

