



**SMART
TURNER
PUMPS**

Manufacturing & Commissioning of 2LHUO Heavy Duty Horizontal End Suction Pumps for Waste Management Industry



Rendering of the Pump

With an extensive expertise in a wide range of pumping applications, **Smart Turner Pumps Inc** was able to meet the challenge of designing and producing this heavy duty horizontal end suction pump, used in the waste management industry. The particular application of this pump, which moves leachate water from a landfill transferred via tanker for treatment, required special attentive considerations in material selection and pump design. As such, cast iron was used for the bearing frame, and a 316 stainless steel selected for the casing, impeller, and shaft, to certify and enable superior contaminant resistance, and performance longevity.

Following our standard strict quality control, the pump was machined, assembled, tested, approved, and directly expedited to the required landfill site on time and error free. Using the installed ANSI flat faced flanged connections, we installed and commissioned the pumps to ensure proper levels, valve configurations, and starting parameters were both met and followed.

Project Highlights Producing Heavy Duty Horizontal End Suction Pumps

Product Description	These 2LHUO Horizontal End Suction Pumps are used to pump Leachate Water for a landfill.	
Capabilities Applied/Processes	Castings, Lathe, Horizontal Boring Machine, Mill machine Hydrostatic Test 175 psi / 10 minutes On-Site Commissioning Start-Up Supervision	
Overall Pump Dimensions	Length: 47.375" Width: 10" Height: 15.75"	Suction Inlet: Ø3" Discharge Outlet: Ø2"
Tightest Tolerances	+.0005(I assume this is in the Manufacture of the unit)	
Material Used	Pump Casing, Open Impeller, Shaft: 316 Stainless Steel, Casting 316 Stainless ASTM A351 Grade CF8M. Bearing Frame: Cast Iron	
Features	Pump 189 USGPM 115 feet of head	3/60/575Volt TEFC Enclosure 256T Frame

	1,750 RPM Motor Specifications: 20 HP 1,800 RPM	Severe Duty IEEE841 NEMA Premium Efficiency 150# ANSI Flat Faced Flanged Connections
Pump Flow Data	Fluid: Water Viscosity of 1.105 cP	Temperature of 60°C
Estimated Part Weight	700 lbs.	
Industry for Use	Wastewater Treatment	
Quantity	3	
Turn Around Time	10-12 Weeks After Approval of Drawings	
Delivery Location	London, Ontario	
Standards Met	Customer supplied specifications	
Product Name	Manufacturing & Commission of 2LHUO Horizontal End Suction Pump	