

MONSTER INDUSTRIAL™



Monster Solutions

HYDRO Monster Rescues The Breakers From Tourists

Newport, RI – Two new solids handling pumps installed at the Breakers Mansion in early 2005 were no match for the debris flushed down the toilets by tourists. After careful consideration, a 2-HYDRO-IX inline solids waste grinder was chosen to rescue the overworked pumps from the demand they faced.

The Breakers, a National Historic Landmark, is the grandest of the “summer cottages” situated on the picturesque shoreline of Newport, Rhode Island. In 1893 Cornelius Vanderbilt II commissioned architect Richard Morris Hunt to design a villa to replace a home destroyed by fire. The result - a 70 room Italian Renaissance-style palazzo inspired by the 16th century palaces of Genoa and Turin.

After Mr. Vanderbilt died in 1899 the Breakers became a “ladies house” with Mrs. Vanderbilt and her two daughters vacationing there. Later the mansion was inherited by Gladys, the youngest Vanderbilt daughter, who opened the house in 1948 to raise funds for the Preservationist Society. In 1972 the Society purchased the house and today it is known as a “hot spot” for Rhode Island tourists.

Several bus loads of tourists converge upon the Breakers at a time many using the bathroom facilities. Tourists flush rags, diapers, pads and a variety of trash down the toilets without a thought as to where it goes. The mansion has approximately 100,000 tourists yearly which increases during the summer months. Flushing is not the end for the debris, but the beginning of the work for the pumps.

In 2006, the Preservation Society contracted Donovan & Sons Inc., a



PROBLEM: Increased volume causing clogged pumps

SOLUTION: 2-HYDRO-IX Monster Grinder

CONTRACTOR: Donovan & Sons, Inc.

An in-line 2-HYDRO-IX Monster was installed to ease the load on the existing pumps.

local plumbing contractor to install new bathrooms on the lower level of the mansion. Ken Marshall, General Manager, said the bathrooms were below grade for the sewer tie-ins; therefore they had to construct a duplex sewer ejector station. They constructed a basin approximately 5’(1.5m) deep and 4’(1.2m) wide located in the catacombs of a sub-level basement. Two solid handling pumps were installed to move the wastewater to the city sewer line.

Unfortunately, the surge of visitors created an abundance of trash and sewage. “The new pumps began clogging with the primary culprit being ‘women’s pads’ said Marshall. “The station was receiving alarms as often as every other week during the peak tourist season as a result of clogged pipes.”

The tremendous wear and blockages resulted in an unusual amount of repairs. Donovan & Sons found themselves removing and re-installing the chopper pumps each time they were called out.

Marshall contacted Sean LaRiviere at Industrial Pump Sales & Service Inc., Donovan’s pump supplier. LaRiviere suggested a macerator to resolve the stoppages. The Society approved Marshall’s proposal and he worked with Bob Mack, owner of New England Environmental in Bedford, to select



the proper equipment for the installation. Mack adds "The 2-HYDRO-IX Monster was an easy sell."

A 3HP(2.2kW) in-line 2-HYDRO-IX inline solids waste grinder (pictured right) grinder was selected for the tough solids dilemma at the mansion based on its ability to shred rags, plastics, and trash into small particles, protecting the pumps. There was no modification to existing pipelines required and no need for a clean-out trap since solids are ground up and passed through.

LaRiviere adds, "Since the 2-HYDRO-IX Monster's installation in July, the pumps have been clog free." Effluent from the primary lift station is carried by gravity to the street and then on to the WWTP for processing. Processed water is discharged into Narragansett Bay's East Passage.

About JWC Environmental

Founded in 1973, JWC Environmental is a global leader in high-efficiency, dual-shafted waste grinders. We've built and shipped over 35,000 Monster shredders, screens and compaction systems to customers around the world. We offer over 200 different shredder configurations. Our commitment to quality and reliability makes Monster waste processing grinders legendary in many industries. Our superior technology provides solutions for the most demanding applications including sludge grinders, sewage grinders, wastewater fine screens, CSO screens, washer compactors and septage receiving stations. When it comes to the most demanding wastewater treatment challenges - you can trust Monster quality

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Originally built in 1893, The Breakers Mansion in Rhode Island now hosts thousands of visitors each month.



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