

# AMPHIDROME<sup>®</sup> FACILITY REPORT

**Plant & Location:** Norfolk Commons, Norfolk, MA

**Massachusetts DEP Permit Number:** 692-0

**Facility type:** Housing development.

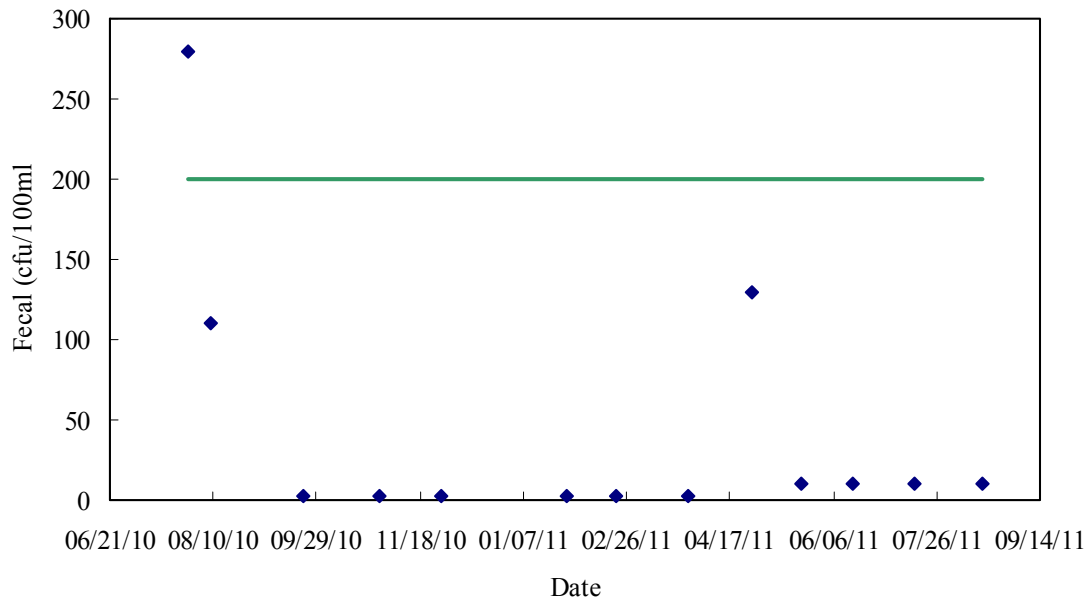
**Chemical Feeds:** Carbon & alkalinity

**Design Flow:** 30,000 gpd

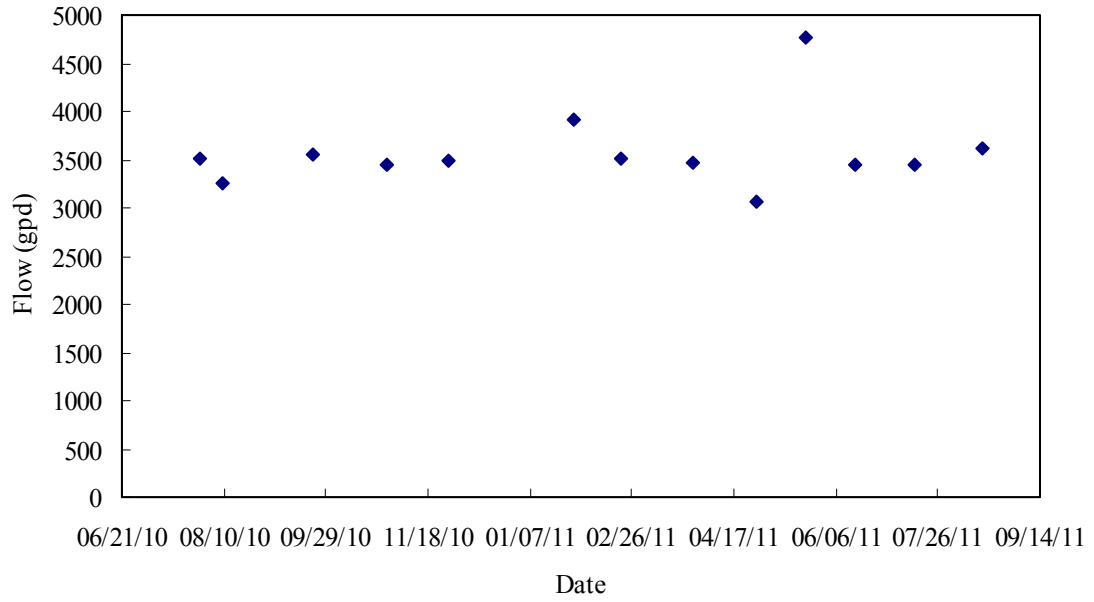
**Design:** This plant was designed to meet groundwater discharge limits including total nitrogen of  $\leq 10$  mg/L and a fecal limit of  $\leq 200$  cfu/100ml. The UV unit is a Wedeco IH-20L designed to disinfect wastewater at 65% UV Transmittance (UVT).

**Summary:** This Amphidrome<sup>®</sup> Plus system has been in operation since 2005. The average effluent results for the most recent 12 months of the plant operation are shown in the table below.

	<b>BOD<sub>5</sub></b>	<b>TSS</b>	<b>Total N</b>	<b>Total N</b>
<b>Permit Limit</b>	<i>30 mg/L</i>	<i>30 mg/L</i>	<i>10 mg/L</i>	<i>200 cfu/100ml</i>
<b>Average</b>	3.4 mg/L	6.6 mg/L	10.0 mg/L	44 cfu/100ml



**Figure 1. Norfolk Commons Total Fecal**



**Figure 2. Norfolk Commons Total Flow**