

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

**Plant & Location:** CVS, Jackson Twp, NJ

**NJ Pinelands Application Number:** 1981-2118.003

**Facility type:** Convenience Store

**Chemical Feeds:** Carbon & alkalinity

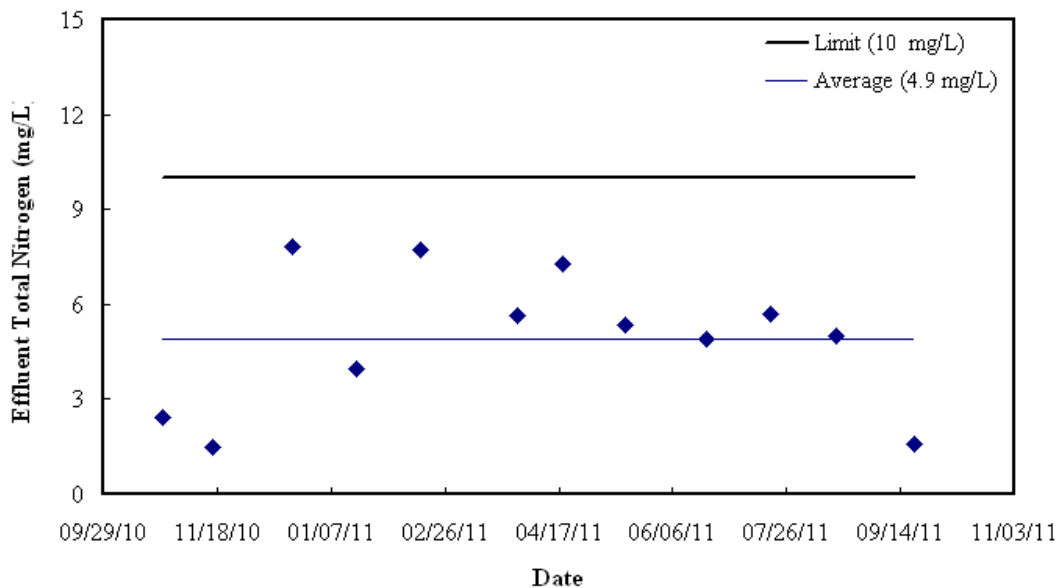
**Design:** This plant was designed to meet NJ Pinelands discharge limits including a total nitrogen limit of  $\leq 10$  mg/L. Design and average values are provided below.

Parameter	Design Values	Actual Values
Flow	1,825 gpd	110 gpd
BOD <sub>5</sub>	500 mg/L	n/a
TKN	170 mg/L	n/a
C/N	2.9	-

C/N - Carbon-to-nitrogen ratio measured as BOD<sub>5</sub>/TKN.

**Summary:** This Amphidrome<sup>®</sup> Plus was designed based on data obtained by sampling seven different CVS stores. Although the plant is currently receiving less than 10% of the design flow, the system is still operating well within discharge limits. The average effluent results for the life of the plant are shown in the table below.

	BOD <sub>5</sub>	TSS	Total N
<b>Permit Limit</b>	<i>30 mg/L</i>	<i>30 mg/L</i>	<i>10 mg/L</i>
<b>Average</b>	n/a	n/a	4.9 mg/L



**Figure 1. CVS Jackson Effluent Total Nitrogen**