

AMPHIDROME® FACILITY REPORT

Plant & Location: Easton Crossing Condominiums, Easton, MA

Massachusetts DEP Permit Number: 647-0

Facility type: Housing development.

Chemical Feeds: Carbon & alkalinity

Design: This plant was designed to meet groundwater discharge limits including a total nitrogen limit of ≤ 10 mg/L. Design and average values are provided below.

Parameter	Design Values	Actual Values
Flow	36,500 gpd	23,800 gpd
BOD ₅	250 mg/L	154.5 mg/L
TKN	70 mg/L	36.0 mg/L
C/N	3.6	4.3

C/N - Carbon-to-nitrogen ratio measured as BOD₅/TKN.

Summary: This is one of the few systems, designed using Title 5 flow guidelines, that we have ever seen exceed the design flows. The average effluent results for the past 10 years (since January, 2001) are shown in the table below.

	BIOCHEMICAL OXYGEN DEMAND	TOTAL SUSPENDED SOLIDS	TOTAL NITROGEN
PERMIT LIMIT	30 mg./L.	30 mg./L.	10 mg./L.
EFFLUENT	6.51 mg./L.	6.06 mg./L.	7.13 mg./L.

