

2-21-02

SITE VISIT - MERRIMACK STATION

COKE YARD UNLINED.

NO STORM WATER RUNOFF DIRECTLY TO RIVER

2 SCREEN HOUSES

[Bow Bob Brook]

Discharge canal ~ 1/4 mile

diverted

1958- plant - Bow Bob Brook - diverted when plant was built.

Do - 85 - 95% saturation

Do ^{monitor} end of canal - 50

Do data ever collected in discharge canal?

fish return ~~yes~~ No 48 hr - 1 week?

50 significant impingement event?

6/99 - fish kill - Bill Ingham -

by chlorine - discharge.

monitored chlorine @ end of pipe. - Mexal

- Screen house needs work?

screen wash.
→ psi?

#767
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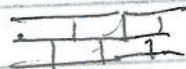
2-21

screen mesh size

intake approach velocity?

framing screens.

$\approx 1/2 \times 1/4$



fish return no.

pressure wash ~~font~~? 100 psi

intake channel - opening?

river depth @ opening?

dimensions of each intake

total 9 MGD.

spring
Smolts, herring -

1:00 pm meeting w/ DES, FWS

thermal limit MAX AT 2°C 83^{\circ}\text{C} max

cool water

warm water - summer

cold water - winter

seasonal

Thermal Discharge Modeling Study

1997

reel this

smolt \rightarrow foy

daphnia

ambient - 23°C 77.2°F

med annual report, from last year.

2d 28°F

Apr. 15 - June 15 - anadromous [fish - peak mid-May.]

mid May (5/15) - mid June - smelts
Sept 1 - Oct. 15 juv. herring, blue

2°C above ambient

900 cfs - required

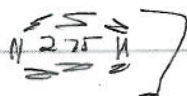
June 15 - Sept 1 - nowhere?

D.E.S. - decided ^{not} to make channel - water at the State.

intake velocity →

position ~~to~~ paper. 0.2

[187 mgd - cooling water]



Next than March →



C1 0.2 - headworks



[Wed - 17]

[obs @ effluent pipe & bridge]

[Garvin Falls → Hookset Dam]

Discrete Population