SCDHEC	System	Number

S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

WATER DISTRIBUTION SYSTEM CHEMICAL AND BACTERIOLOGICAL EXAMINATION

MONTH

NUMBER REQUIRED PER MONTH_

Water	Plant

INSTRUCTIONS FOR COMPLETING MONTHLY OPERATION REPORT FOR SURFACE WATER TREATMENT PLANTS

This form, properly completed, is required to be submitted to the South Carolina Department of Health and Environmental Control each month by Section 44-55-40, paragraph e, South Carolina Code of Laws, 1976, as last amended by Act 658 of 1976. Its purpose is to assure the safety of water supplies served to the public with respect to bacteriological and chemical quality and to further efficient processing through adequate tests and records.

Operating data should be entered on the report daily. While in many plants this may be the only form required, some plants will wish to develop additional daily log sheets to reflect the operation and control of specific functions of the plant such as pumps, filters, etc. This record should be prepared in duplicate, the original to be forwarded to the Division of Water Supply, South Carolina Department of Health and Environmental Control no later than the 10th of the following month. A copy should be filed with other records of the operating plant.

given day.

Enter name of chief operator on duty.

Enter number of hours (to nearest half-

hour) the plant is in actual operation.

Enter, in thousand gallon units, the

amount of raw water pumped daily.

Enter in thousand gallon units the

amount of finished water pumped daily.

Enter number of filters washed during a

Enter average service time (in hours) of

all filters operated during a given day.

Enter average time (in minutes) each

filter was backwashed during a given

Enter average time in minutes each filter

Enter, in thousand gallon units, the total

was rewashed during a given day.

washwater used during a given day.

A.	Operator on duty	

Description

B. Hours plant in operation

C. Thousand gallons raw water pumped

- D. Thousand gallons finished water pumped
- E. Operation of **Filters**
- (I) Number Washed (2) Average time
- in service (3) Average time backwash
- (4) Average time rewashed
- (5) Thousand gallons washwater
- F. Chemical and Physical Analyses

Enter, in the units specified, the values for each column heading for raw, coagulated and finished water analyses. All tests must be performed as listed in Standard Methods for the Examination of Water and Wastewater, 14th Edition. If more than one test per day is performed, enter the average daily concen-

NOTE: All tests must be performed daily except finished water distribution.

G. Treatment

(I) Pounds Chemicals used

Enter the amount of chemical, in pounds, added to the water on a given day.

(2) Chemical Dosages

Enter, in parts per million the calculated concentration for each chemical addition based on lbs chemical added per day (lbs./day = ppm x MGD x 8.34) and raw water pumped.

Enter the number of organisms counted

Enter the number of positive tubes (with

gas production) noted in the multiple

ppm = lbs/day x %MGD x 8.34

% - % available compound

H. Bacteriological Analyses

(I) Raw Water

(a) Agar Plate Count

(35°C) (b) Number positive 5-10

ml tubes (c) Membrane Filter Coli-

Enter the average number of coliform colonies counted per plate.

form per 100 ml

(2) Finished Water (Same as raw water.)

- I. This section is an indication of the amount of water lost through
- J. This section is for use in determining treatment efficiency.

per I ml.

	SAMPLING INFORMATION							Memb. Filter	m 23				SAMPLING INFORMATION							S		
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Remarks: