



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER AND RADIOLOGICAL PROTECTION DIVISION

PUBLIC SWIMMING POOL MONTHLY OPERATION REPORT

Issued under authority of Part 125 of 1978 PA 368, as amended.

(SEE REVERSE SIDE FOR INSTRUCTIONS TO COMPLETE THIS FORM)

POOL ESTABLISHMENT NAME	SP NUMBER (e.g., 99-9999-1)	MONTH AND YEAR COVERED BY THIS REPORT
STREET ADDRESS	MUNICIPALITY	COUNTY

Date	Pool Usage		Cleaning			Water Treatment						Water Conditions												
	No. of Hours	Number of People		Pool Bottom	Deck	Bathhouse	Water Added, In Inches	Filters		Flow Rate, in gpm		Chemical Addition		Disinfectant Residuals <input type="checkbox"/> Chlorine or <input type="checkbox"/> Bromine				pH	Cyanuric Acid, mg/L or ppm	Temperatures				
		Maximum	Total					No. Hours Operated	Wash	Minimum	Maximum	Disinfectant, Lbs. or Gals.	Lbs. or Gals.	Time	mg/L or ppm	Time	mg/L or ppm			Time	mg/L or ppm	Water	Air	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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Date	Residual mg/L	pH	No. of People	Standard Plate Count	Coliform Index
26	27	28	29	30	31

REMARKS: _____

This report is submitted in compliance with 1978 PA 368, as amended, and is true to the best of my knowledge.

SIGNATURE	DATE
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Within 10 days after the end of the month, mail this completed form to the local health department, if required by that agency.

INSTRUCTIONS FOR USING PUBLIC SWIMMING POOL MONTHLY OPERATION REPORTS

Rule 99 states: "A swimming pool operator shall record daily, on a report form furnished by or acceptable to the department, the swimming pool operational data and information about rescues, submersions, and accidents given medical attention. The department or a designated local health department may require the operator to submit a completed operation report to the department or the designated local health department within 10 days after the end of each month in which the swimming pool is in operation." Failure to complete this form is a violation of 1978 PA 368, as amended (Act 368), and is subject to the penalties as outlined in Act 368.

COLUMN NUMBER

POOL USAGE

- 2 Record the number of hours the pool is open for use.
- 3 Record the maximum number of people using the pool at one time. Include both those in the water and on the deck.
- 4 Record the total number of swimmers at the pool during the day.

CLEANING

- 5 Check this column when the pool bottom is vacuumed or otherwise cleaned.
- 6-7 Check these columns when the respective areas are cleaned

WATER TREATMENT

- 8 Record the inches of depth of water added to the pool. The number of gallons of water may be entered instead. If the water is added automatically and cannot be measured, write "automatic" in the column.
- 9 Record the number or hours the water is recirculated, filtered, and disinfected. Rule 96 requires it to be done 24 hours per day, without interruption, except for maintenance and repairs.
- 10 Check this column when the filters are cleaned. Multiple filters should be cleaned the same day.
- 11-12 Record the flow meter readings, in gallons per minute.
- 13 Record the total amount of disinfectant (chlorine or bromine) added to the feeding equipment during the day. Indicate if the measurement is pounds of dry chemical or gallons of liquid. Rule 96 requires the disinfectant to be applied continuously.
- 14 If an additional chemical is used, record the amount added. Indicate the chemical name or type and whether the measurement is pounds or gallons.

WATER CONDITIONS

- 15-20 Indicate whether the disinfectant residuals are chlorine or bromine. Record the time and the reading each time the residual is tested. The water should be tested before the swimming pool is opened for the day and at least twice more during the day. The water for testing should be from the pool itself rather than the recirculation system.

The required minimum disinfectant residuals, in milligrams per liter (*mg/L*) or parts per million (ppm), depend on the pH of the water and are:

<u>Disinfectant</u>	<u>Type of Residual</u>	<u>pH 7.2-7.6</u>	<u>pH 7.7-8.0</u>
bromine	bromine	1 .0	2.0
chlorine	free available chlorine	0.4	1 .0
chlorinated cyanurate	free available chlorine	1 .0	1 .5

- 21 Test and record the pH of the swimming pool water daily.
- 22 If cyanuric acid or a chlorinated cyanurate is used, test and record the cyanuric acid level of the pool water at least weekly. A concentration of 25 mg/L is considered necessary for the stabilization of chlorine. Higher levels are not advantageous and must not exceed 100 *mg/L*.
- 23 Identify and record any other pool water characteristic tested.
- 24-25 Record the water and air temperatures, in degrees Fahrenheit.
The water temperature may not be higher than 86°F, except with the Michigan Department of Environmental Quality (MDEQ) or local health department approval and must not exceed 104°F. The air temperature generally should be 3°F to 5°F higher than the water temperature.

BACTERIOLOGIC ANALYSIS

Rule 95 requires water samples for bacteriologic analysis to be collected at least once each week, and more often if directed by the MDEQ or local health department for unusual conditions, but the sampling frequency may be reduced by the MDEQ or local health department if there is an acceptable history of operation and water quality. The swimming pool owner or operator is responsible for the collection and analysis of the samples.

- 26 Record the date the sample is collected.
- 27 Test and record the chlorine or bromine residual when the sample is collected.
- 28 Test and record the pH of the pool water when the sample is collected.
- 29 Record the number of people in the pool when the sample is collected. These water samples should be collected while people are in the pool and preferably during periods of peak pool usage.
- 30 Record the standard plate count, as determined by the laboratory analysis.
- 31 Record the coliform index, as determined by the laboratory analysis.

Rule 95(2) states: "The presence of organisms of the coliform group or a standard plate count of more than 200 bacteria per milliliter, or both, in 2 consecutive samples or in more than 10% of the samples in a series, as shown by valid tests, is unacceptable water quality."

REMARKS

Record any unusual situation, such as an equipment failure, draining of the pool, or an accident requiring first aid or medical attention.