

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT
GENERAL PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-G760000

Owner:
Address:

Continuing Authority:
Address:

Facility Name:
Facility Address:

Legal Description:
Latitude/Longitude:

Receiving Stream:
First Classified Stream and ID:
USGS Basin & Sub-watershed No.:

Is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

All Outfalls – SIC codes 7997 & 7999
Discharge of filter backwash and pool drainage from swimming pools and lined ponds which use chlorine as a sanitizer.

This permit authorizes only wastewater, including storm waters, discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

April 10, 2009
Effective Date

Mark N. Templeton, Director, Department of Natural Resources

April 9, 2014
Expiration Date

Robert K. Morrison, P.E., Chief, Water Pollution Control Branch

APPLICABILITY

1. This permit includes but is not limited to facilities described under SIC codes 7997 and 7999 that use chlorine as a sanitizer. This permit authorizes the discharge of filter backwash water and water drained from swimming pools and lined decorative ponds and fountains, herein after referred to as a "pool or pond," to waters of the State of Missouri. Discharges from pools and/or ponds at single-family residences are exempted from permit requirements.
2. This permit does not authorize discharges within the watersheds of streams or lakes listed as outstanding national resource waters or their tributaries as identified or described in 10 CSR 20, Chapter 7.
3. Unlined natural or artificial lakes, farm ponds, siltation basins at construction sites, and storm water detention basins are not covered under this general permit.
4. Discharges to sanitary or combined sewer systems that normally receive treatment are exempt.
5. If the Department of Natural Resources determines that the quality of waters of the state may be better protected by requiring the owner of a pool or pond to apply for a site-specific State Operating Permit, the Department may do so.
6. If at any time the owner of a pool or pond desires to apply for a site-specific State Operating Permit, the owner may do so.
7. This permit does not apply to the discharge of any water other than filter backwash water and water drained from a pool or pond.

REQUIREMENTS

1. In the event that the discharge is known to cause a fish kill, the permittee shall immediately cease the discharge and contact the Department's Emergency Response Team at (573) 634-2436.
2. An annual report is required by the terms of this permit. This report will contain a list of all non-chlorine compounds and their estimated quantities that are added to the pond or pool. This report shall be submitted with the effluent data in Table A by October 28th of each calendar year.
3. Water Quality Standards:
 - (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
4. Report as no-discharge when a discharge does not occur during the report period.

5. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C) and (D), 304(b) (2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

6. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2, 5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application;
- (c) Toxic pollutants shall consist of, but are not limited to: pollutants listed in 10 CSR-20, Chapter 7, Table A, or 40 CFR 122, Appendix D.

7. Effluent limits for chlorine can be achieved through Best Management Practices. Installation of a dechlorinating device however may require a Construction Permit. Contact the Regional Office for more information.

8. All outfalls must be clearly marked in the field.

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until three (3) years from the date of issuance of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Filter Backwash</u> ***						
Flow (Note 1)	gallons	*		*	once/month	estimate
Total Residual Chlorine (Note 2)	mg/L	1.0		1.0	once/month	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/month	grab
pH	SU	**		**	once/month	grab
<u>Pool Drainage</u>						
Flow (Note 1)	gallons	*		*	once/year	estimate
Total Residual Chlorine (Note 2)	mg/L	1.0		1.0	once/year	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/year	grab
pH	SU	**		**	once/year	grab
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM	WEEKLY AVERAGE MINIMUM	MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen	mg/L	5.0		5.0	once/year	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2009</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is limited to the range of 6.5 - 9.0 pH units.
- *** If more than one discharge of filter backwash water occurs in a month, testing is required for only one discharge event. If no discharge occurs in a given month, report as "no-discharge" for that month.

Note 1 - Estimate the volume as the total gallons of water that is released. The release rate shall be controlled to avoid high volumes of water being discharged into small streams that can cause stream channel erosion or can cause downstream flooding or property damage.

Note 2 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) Do not chemically dechlorinate **if it is not needed to meet the limits in your permit.**
- (b) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as "0 mg/L" TRC.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 5 of 6	
					PERMIT NUMBER MO-G760000	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective three (3) years from the date of issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Filter Backwash***</u>						
Flow (Note 1)	gallons	*		*	once/month	estimate
Total Residual Chlorine (Note 3)	mg/L	0.019 (0.13 ML)		0.019 (0.13 ML)	once/month	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/month	grab
pH	SU	**		**	once/month	grab
<u>Pool Drainage</u>						
Flow (Note 1)	gallons	*		*	once/year	estimate
Total Residual Chlorine (Note 3)	mg/L	0.019 (0.13 ML)		0.019 (0.13 ML)	once/year	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/year	grab
pH	SU	**		**	once/year	grab
<u>OUTFALL NUMBER AND EFFLUENT PARAMETER(S)</u>	UNITS	DAILY MINIMUM	WEEKLY AVERAGE MINIMUM	MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen	mg/L	5.0		5.0	once/year	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2012</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is limited to the range of 6.5 - 9.0 pH units.
- *** If more than one discharge of filter backwash water occurs in a month, testing is required for only one discharge event. If no discharge occurs in a given month, report as "no-discharge" for that month.

Note 1 - Estimate the volume as the total gallons of water that is released. The release rate shall be controlled to avoid high volumes of water being discharged into small streams that can cause stream channel erosion or can cause downstream flooding or property damage.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Note 3 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- (b) Do not chemically dechlorinate **if it is not needed to meet the limits in your permit.**
- (c) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as “0 mg/L” TRC.

PERMIT TRANSFER

This permit may be transferred to a new owner by submitting an “Application for Transfer of Operating Permit” signed by the seller and buyer of the facility, along with the appropriate modification fee.

TERMINATION

In order to terminate this permit, the permittee shall notify the department by submitting Form H, included with the State Operating Permit. The permittee shall complete Form H and mail it to the department at the address noted in the cover letter of this permit.

PERMIT RENEWAL REQUIREMENTS

Unless this permit is terminated, the permittee shall submit an application for the renewal of this permit no later than six (6) months prior to the permit’s expiration date. Failure to apply for renewal may result in termination of this permit and enforcement action to compel compliance with this condition and the Missouri Clean Water Law.

DUTY OF COMPLIANCE

The permittee shall comply with all conditions of this general permit. Any noncompliance with this general permit constitutes a violation of Chapter 644, Missouri Clean Water Law, and 10 CSR 20-6. Noncompliance may result in enforcement action, termination of this authorization, or denial of the permittee's request for renewal.

This permit authorizes only the activities described in this permit. Compliance with this permit may not be considered a shield from compliance with any local ordinance, State Regulation or State Law.

SCHEDULE OF COMPLIANCE

1. Compliance with Total Residual Chlorine limits shall be achieved as soon as possible but no later than three (3) years from the date of issuance.
2. By one (1) year after the date of issuance submit a report detailing steps taken during the preceding year to eventually attain compliance with the Final Effluent Limitations.
3. By two (2) years after the date of issuance submit a report detailing steps taken during the preceding year to eventually attain compliance with the Final Effluent Limitations.
4. By three (3) years after the date of issuance attain compliance with the Final Effluent Limitations.

Missouri Department of Natural Resources

Fact Sheet – Master General Permit Renewal

MO-G76, Swimming Pools and Lined Ponds

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Permits in Missouri are issued by the Director of the Missouri Department of Natural Resources (department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). NPDES operating permits are issued for a period of five (5) years unless otherwise specified.

A Fact Sheet gives pertinent information regarding the applicable regulations, rational for the development of the NPDES Missouri State Operating Permit (operating permit), and the public participation process for operating permit listed below.

A Fact Sheet is not an enforceable part of an operating permit.

This Fact Sheet is for a Major , Minor , Industrial Facility ; Variance ; Master General Permit ; and/or permit with widespread public interest .

Facility Information

The following Facility Information shall appear on the coverage document issued to a General Permit Covered Facility.

NPDES #:
Facility Name:
Facility Address:
Owner's Name:
Owner's Address:

Facility Region:
Facility County:

Facility Type:
Facility SIC Code(s):

FACILITY DESCRIPTION:

All Outfalls – Including but not limited to SIC codes 7997 & 7999. Discharge of filter backwash and pool drainage from swimming pools and lined ponds which use chlorine as a sanitizer.

COMMENTS:

Outfalls

A full description of each outfall shall appear on the coverage document issued to a General Permit Covered Facility. The following information is required for each outfall.

Outfall #001
Legal Description: (detailed)
Latitude/Longitude: +0000000/-0000000
Receiving Stream: Name (U), (C), (P) etc...
First Classified Stream and ID: Name (C) (P) (03216)
USGS Basin & Sub-watershed No.: (# – #)

Please mark the correct designated waters of the state categories of the receiving stream.

Missouri or Mississippi River [10 CSR 20-7.015(2)]:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Lake or Reservoir [10 CSR 20-7.015(3)]:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Losing [10 CSR 20-7.015(4)]:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Metropolitan No-Discharge [10 CSR 20-7.015(5)]:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Special Stream [10 CSR 20-7.015(6)]:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Subsurface Water [10 CSR 20-7.015(7)]:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
All Other Waters [10 CSR 20-7.015(8)]:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)]. This permit does not allow discharges within two miles upstream of a waterbody with the designated use of drinking water supply.

Rationale and Derivation of Effluent Limitations & Permit Conditions

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); CFR §122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- All limits in this Fact Sheet are at least as protective as those previously established; therefore, backsliding does not apply.

ANTIDegradation:

Applicable - The only pollutant of concern is Total Residual Chlorine (TRC). The facility will be required to meet the water quality based effluent limits of 0.019 mg/L. These compliance limits for TRC are much less than the minimum quantification level of 0.13 mg/L, meaning discharges of TRC are so small that they cannot be determined through approved laboratory methods. Based on the effluent limits requiring total removal of TRC, minimal degradation of water quality is assumed.

APPLICABLE PERMIT PARAMETERS:

Effluent parameters for conventional, non-conventional, and toxic pollutants have been obtained from the previous NPDES operating permit for this facility, technology based effluent limits (TBEL), and from appropriate sections of the renewal application.

PUBLIC NOTICE OF COVERAGE FOR AN INDIVIDUAL FACILITY

The need for an individual public notification process shall be determined and identified in the general permit. [10 CSR 20-6.020(1)(C)5.]

Not Applicable

Public Notice is not required for issuance of coverage under this Master General Permit to individual facilities for the first time.

Public Notice of **reissuance** of coverage is not required unless the facility has been found to be in significant noncompliance [10 CSR 20-6.020(1)(C)4.].

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

A plan to schedule activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the state. The plan may include, but is not limited to, treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Not Applicable

At this time, the permittee is not required to develop and implement a SWPPP.

WASTE LOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the department to release into a given stream after the department has determined to total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable ;

Waste load allocations were not calculated.

WHOLE EFFLUENT TOXICITY (WET) TEST:

As per [10 CSR 20-7.031(1)(CC)], a toxicity test conducted under specified laboratory conditions on specific indicator organism; and as per [40 CFR §122.2], the aggregate toxic effect of an effluent measured directly by a toxicity test.

Not Applicable ;

At this time, the permittee is not required to conduct WET test for this facility.

Each Outfall

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	GALLONS	1	*		*	NO	
CHLORINE, TOTAL RESIDUAL	MG/L	2	0.019		0.019	YES	1.0/1.0
SETTLABLE SOLIDS	ML/L/HR	8	1.5		1.0	NO	
pH	SU	1	6.5-9		6.5-9	YES	6-9
DISSOLVED OXYGEN****	MG/L	1	5.0		5.0	NO	

* Monitoring requirement only

**** Limit is a minimum, not a maximum limit.

Basis for Limitations Codes:

- | | |
|----------------------------------------|-----------------------------------|
| 1. State or Federal Regulation/Law | 6. Antidegradation Policy |
| 2. Water Quality Standard ² | 7. Water Quality Model |
| 3. Water Quality Based Effluent Limits | 8. Best Professional Judgment |
| 4. Lagoon Policy | 9. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy | 10. WET test Policy |

² – Water Quality Standards also includes Reasonable Potential Analysis.

DERIVATION AND DISCUSSION OF LIMITS:

Total Residual Chlorine: To protect against acute effects, discharges from these facilities should not exceed the Criteria Maximum Concentration (CMC). Acute criteria will apply at the end of pipe because discharges are expected to be episodic in nature and lasting less than four days. Also, this permit will be issued to facilities where there is no mixing zone or zone of initial dilution allowed in their receiving streams.

Settleable Solids: Carried over from previous permit, necessary for protection of water quality standards. 10 CSR 20-7.031(3).

pH: pH shall be maintained in the range from six point 5 to nine (6.5-9) standard units. 10 CSR 20-7.031 (4) (E).

Dissolved Oxygen: Protection of aquatic life. 10 CSR 20-7.031, Table A

Minimum Sampling and Reporting Frequency Requirements

Sampling and reporting frequency requirements have been retained from previous state general permit.

Administrative Requirements

PUBLIC NOTICE:

As per the Missouri Clean Water Law, the Missouri Clean Water Commission, and the federal Clean Water Act, persons wishing to comment on Missouri State Operating Permits are directed to do so by a department approved Public Notice coversheet. This Public Notice coversheet is attached to a Missouri State Operating Permit during the Public Notice period.

The Public Notice period for this operating permit is tentatively schedule to begin in February 2009.

Date of Fact Sheet: January 20, 2009

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