Oklahoma Department of Environmental Quality
Water Quality Division | Phone: 405-702-8100
Municipal Discharge and Stormwater Permits Section
707 N. Robinson, OKC, OK 73102-6010
P.O. Box 1677, OKC, OK 73101-1677

Instructions on Application for Permit to Discharge Filter Backwash Wastewater from Potable Water Treatment Plants

Form 2M2W – Filter Backwash

Please Return only the Completed Application Form along with a Site Map and Applicable Fee(s). See instructions for the application and the public notice requirements.

This form must be completed by the owner/responsible official of a potable water treatment facility that wishes to discharge non-sanitary process wastewater **(filter backwash wastewater from conventional plant, rejected wastewater from membrane filtration/reverse osmosis (RO)/electrodialysis (ED) or ion exchange (IE) plants)** to waters of the State. Please read the instructions below while completing Form 2M2W and respond to each item. The Oklahoma Department of Environmental Quality (DEQ) cannot process an application until it is complete. If a particular item does not apply to the facility for which the application is being prepared, or if the correct answer is "N/A" (for not applicable) indicate this on the application. If you have questions about any of the items, please contact DEQ or your local DEQ office for assistance. The application shall be filed in duplicate with the original and one copy to be submitted to DEQ, and one copy to be submitted to the local DEQ office. Effluent analysis must be submitted with the application for membrane filtration/reverse osmosis/electrodialysis or ion exchange plants (see Item-8 of Section-I for additional information)

DO NOT attempt to complete the application form before reading these instructions.

SECTION I

1. Enter the applicant's official or legal name that might be a town, city, public entity or name of the person (if privately owned) legally responsible for operating and maintaining the facility.

2. Give the street address or P.O. Box, city, county, state, zip code, telephone number, fax number, and email address of the main office for the applicant in Item 1. This may or may not be the same location as the facility.

3. Enter the name of the facility, the street address (no P.O. Box), city, county, state, zip code, telephone number, fax number, and email address.

4. Give the physical location of the facility – longitude/latitude and legal description to a 10 acre tract, ¼, ¼, ¼, Section, Township, and Range I.M. (Indian Meridian) or C.M. (Cimarron Meridian). (Note: this is the location of the treatment plant and it is not necessarily the same as the point of discharge in Item No. 12.)

5. Indicate whether this is a Public, Private, Federal or State owned facility.

6. Give the name and title of the facility's point of contact, address, city, county, state, zip code, telephone number, fax number, cell phone number, and email address of a person who is familiar with the facility and information in the application and who may be contacted concerning the application.

7. Indicate the source water for the drinking water treatment plant.

8. Indicate the type of treatment for the source water/potable water.

   Notes for existing non-conventional treatment plant (membrane separation – RO/ED/IE plants): applicant must submit at least one effluent analysis for metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc), chlorides, sulfates, and total dissolved solids (TDS). Procedures listed at 40 CFR Part 136 must be followed for sample collection, preservation, handling, analytical, apparatus, and materials, etc. Sample must be taken at the outfall structure. All laboratory analyses for the parameters specified in this permit must be performed by a laboratory accredited by DEQ for those parameters. The analyses of metals must be performed using detection limit equal to or less than the minimum quantifiable level (MQL) specified for each metal in Table B-1, Appendix B of OAC 252:690 of the DEQ's regulations. Include a copy of the laboratory reports with the application. DEQ may ask for additional testing of wastewater depending on the location of the facility and the receiving stream.

   For new non-conventional treatment plant (membrane separation – RO/ED/IE plants): applicant must submit at least one raw water analysis for the same pollutants following the same procedures listed in the above paragraph for existing plants.

9. Indicate the type of chemical(s) used in the water treatment process.

10. Enter the average quantity of potable water produced during a day in the water treatment plant in million gallons per day (mgd).

11. Indicate the type of discharge, whether the discharge is filter backwash wastewater from a potable water treatment plant, or if other, specify.

12. Indicate the type of treatment for the filter backwash wastewater or rejected wastewater. Give the number of detention pond(s)/lagoon(s) used to treat wastewater from the filter backwash.

13. Enter the number for each discharge point/outfall and the total quantity of treated wastewater discharged each day (in mgd) from each discharge point/outfall. For existing facilities, this should be the highest monthly average discharge for the last three (3) years. For new facilities, this should be an estimate of the upper range of monthly flows. Attach additional sheets, if necessary.

14. Enter name the body of the surface water that receives treated wastewater. If the receiving stream does not have a name, please indicate what named creek or river downstream receives the tributary flow, and fill out as

    "tributary of _____ Creek or River."

Check the item which indicates the frequency of wastewater discharges.

Continuous:	discharging without interruption.
Batch:	discharging several times during the day (i.e. from a sequential batch reactor facility).
Intermittent:	sporadic discharges during the year.
Seasonal:	discharging only during certain periods during the year.

Give the location of the point of discharge to the receiving water. This may be different than the location of the facility. When giving the legal description, provide both the latitude, longitude and ¼, ¼, ¼, Section, Township, and Range I.M. or C.M. to a 10 acre tract. Attach additional sheets if necessary to describe additional outfalls.

15. Enter the location of the sampling points. When giving the legal description, provide both the latitude, longitude and ¼, ¼, ¼, Section, Township, and Range I.M. or C.M. to a 10 acre tract. Attach additional sheets if necessary to describe additional outfalls.).

16. This section of the application concerns the treatment and disposal of residuals.

    A. Give the average amount of residuals produced in dry metric tons per year.

    B 1. Give the residuals management plan number or the land application permit number. In giving the land application sites, provide the legal description ¼, ¼, ¼, Section, Township, Range I.M. or C.M., and County. Attach additional sheets if facility has more than 3 sites.

    B 2. If residuals are landfilled, enter the name and permit number of the landfill. The permittee shall be certain that all landfills used for residuals disposal comply with the state and federal regulations for landfills and solid waste disposal.

17. Indicate whether any of the detention pond(s)/lagoon(s) receive wastewater other than from filter backwash water. If yes, specify.

18. Indicate whether the facility uses any type of flow measuring device(s) to measure the discharge. If yes, specify the type(s).

19. If the answer to this question is yes, a landowner notification form found at (https://oklahoma.gov/deq/permits/water-permits/municipal-permitting.html) must be sent to the landowner and the applicant's certifying official must initial the box certifying that this has been done.

20. Any other information regarding the facility having to do with the environmental/operational permits including maps, process diagrams, or chemical analysis shall be included with the permit application.

21. Provide a facility site map showing the locations of all the features such as water treatment plant, detention pond(s), outfall(s), sampling locations(s), etc.

Certification

The information provided in the application will be considered in the evaluation and processing of a discharge permit for the referenced facility. Be advised that test procedures used in the analyses of influents, effluents and sludge, must conform to approved EPA methodology or it will not be accepted for the discharge permit evaluation.

Please note that the application must be signed by the authorized chief elective or executive officer of the applicant, or by the applicant if an individual. An example of a common mistake is when a Public Works Authority Chairman signs the application as - John Doe, Mayor. The Mayor is not the legal official of the PWA, the chairman is, even if the same individual holds both positions.

Please read the certification carefully. There are significant penalties for submitting false information on this application form.

Public Notice of Filing an Application
Permit to Discharge Filter Backwash Wastewater

In accordance with 27A O.S. §§ 2-14-103 and 2-14-301, upon filing an application for a new permit, renewal of an existing permit, or major modification of an existing permit with the Oklahoma Department of Environmental Quality (DEQ), the applicant must publish a notice of the filing that contains information on how the public may view documents, subscribe to updates, and receive electronic notice of public participation opportunities related to the pending application and agency decision.

The notice of filing shall be published as legal notice in one newspaper of general circulation local to the proposed new site or existing facility ONCE A WEEK for TWO (2) CONSECUTIVE WEEKS. Once the notice of filing has been published:

- Return a **notarized** proof of publication (which you must request from the newspaper company) to DEQ.
- Place a copy of the completed application (Form 2M1, 2M2, etc.) at a location where the public can view it for 30 days (example: library, city hall).

Please use the template below as a guide for what should be included in the notice of filing. Fill in the template blanks below the dotted line using the following prompts:

(1) Choose either "New", "Renewal", or "Major Modification";
(2) Applicant Name and Address;
(3) Estimated date of filing application (Month, Year);
(4) Location of facility (Legal description and street address if any);
(5) Choose either "the same location as the facility" or if different from the facility location include the legal description of discharging point(s);
(6) Name(s) of receiving streams(s);
(7) Category of Reclaimed Water: choose from Cat. 2-5 (see OAC 252:627-1-6);
(8) Purpose of water reuse (example: pasture irrigation for beef cattle, cooling towers, etc.);
(9) Section, Township, Range, and County of reclaimed water application sites;
(10) Name, Address, and Telephone number of contact person for applicant;
(11) Name and address of location where application may be reviewed locally (example: library, city hall).
(12) Include the second paragraph which directs the public to the Electronic Environmental Permit Application Docket on DEQ's website.

(The text below this line is what should be published in the newspaper.)

PUBLIC NOTICE OF FILING AN APPLICATION
FOR A (1) _____ OPDES DISCHARGE PERMIT

This is notice that (2) _____,_____, has filed an application on (3) _____ for a permit to discharge municipal/domestic wastewater from a facility located at (4) _____. The discharge point(s) is/are located at (5) _____ discharging to (6) _____. The permit, if issued, would establish effluent limitations of the discharge. [Omit the following sentence if facility does not supply reclaimed water:] This facility also supplies Category (7) _____ reclaimed water for (8) _____ on site(s) located at (9) _____. If further information is needed, please contact (10)

_____,_____,_____. The application may be reviewed at the (11) _____,_____.

(12) Interested parties are directed to the Electronic Environmental Permit Application Docket on DEQ's website at https://applications.deq.ok.gov/PermitsPublicReview, where the public may view documents related to the pending application, subscribe to receive electronic notice of public participation opportunities, receive updates on other actions related to the pending application, and submit comments on the draft permit (including requesting a public meeting)._____.

OAC 252:690. Water Quality Standards Implementation, Appendix B

Table B-1. Priority Pollutants with State Water Quality Criteria or National Recommended Water Quality Criteria Requiring Reasonable Potential Screening

	Pollutant	CAS Number	STORET Number	Minimum Quantification Level (MQL) [a]
Metals, Chlorides, Sulfates, and TDS	Antimony, total	7440360	01097	60
	Arsenic, total	7440382	01002	0.5
	Beryllium, total	7440417	01012	5
	Cadmium, total	7440439	01027	1
	Chromium, total	7440473	01034	10
	Chromium (3+)	16065831	01033	10
	Chromium (6+)	18540299	01032	10
	Copper, total	7440508	01042	1
	Lead, total	7439921	01051	0.5
	Mercury, total	7439976	71900	0.05
	Nickel, total	7440020	01067	10
	Selenium, total	7782492	01147	5
	Silver, total	7440224	01077	0.5
	Thallium, total	7440280	01059	0.5
	Zinc, total	7440666	01092	20
	Chlorides, in mg/L	16887006	00941	10
	Sulfates, in mg/L	---	00946	10
	Dissolved Solids, total (TDS), in mg/L	---	70300	10

[a] MQL in µg/L, unless otherwise specified.