



19. Total number of withdrawal points addressed in this application:

20. Length of time for which permit is being requested:      20 Years      Greater than 20 years – Total number of years:

\*Note that for a permit period greater than 20 years supporting documentation must be attached – see instructions.

### **C. Intake Specific Withdrawal Information**

21. Intake Number One:

Facility designated name for intake:

Name of source waterbody:

Type of source waterbody:

County in which intake is located:

Latitude and Longitude of intake in decimal format:

Check here to indicate location map has been included with application (see instructions):

Quantity of water requested for this intake in millions of gallon per month:

Provide supporting documentation that justifies the requested withdrawal amount for this intake (see instructions).

Method that will be used to measure volume of water withdrawn:

22. Intake Number Two

Facility designated name for intake:

Name of source waterbody:

Type of source waterbody:

County in which intake is located:

Latitude and Longitude of intake in decimal format:

Check here to indicate location map has been included with application (see instructions):

Quantity of water requested for this intake in millions of gallon per month:

Provide supporting documentation that justifies the requested withdrawal amount for this intake (see instructions).

Method that will be used to measure volume of water withdrawn:

23. Intake Number Three

Facility designated name for intake:

Name of source waterbody:

Type of source waterbody:

County in which intake is located:

Latitude and Longitude of intake in decimal format:

Check here to indicate location map has been included with application (see instructions):

Quantity of water requested for this intake in millions of gallon per month:

Provide supporting documentation that justifies the requested withdrawal amount for this intake (see instructions).

Method that will be used to measure volume of water withdrawn:

24. Check here if you have more than 3 intakes to include on this application. If you have more than 3 intakes, please provide the information requested above for each additional intake and attach the information to this application.

### D. System Water Return Information

25. Location(s) of water returns and anticipated percent of withdrawn water returned at each location (see instructions):

Return #1 - Name:	Lat/Long:	% Water Returned:
Return #2 - Name:	Lat/Long:	% Water Returned:
Return #3 - Name:	Lat/Long:	% Water Returned:

Check here to indicate that location maps have been included with this application for each return (see instructions).

If you have more than 3 return points to include in this application, please provide the information requested above for each additional return on a separate sheet attached to this application.

Please check here if you have more that 3 returns included with this application:

26. Estimated ratio between water withdrawn and consumptive use of water withdrawn:

Check here to indicate supporting documentation has been attached to this application.

### E. Non-Consumptive Use Permits

27. Are you requesting a "non-consumptive" use permit?      YES                      NO

If the answer to 27 above was "yes", please provide the information requested in this section.

- A. Attach tax map indicating property boundaries with intake and discharge points located. Note that if this map is provided the maps requested in B above are not required.
- B. Attach a discussion of the timing of the withdrawal and discharge to establish that the amount not returned to the stream does not exceed 3 million gallons in any one month.
- C. An engineering analysis demonstrating that 90% of the water withdrawn is returned and that the 10% not returned will not exceed 3 million gallons in any one month must be submitted.

Please check here to indicate the above items have been included with this application.

### F. Drought Operations and Contingency Plan

28. Check here to indicate that a draft Drought Operation and Contingency Plan has been attached to this application as required by R.61-119 Section E.4.

### G. Fees

29. Indicate application fees included with this application:

Application fee for new surface water permit -	\$7,500
Application fee for modification to existing permit -	\$2,000
Application fee to modify an existing permit at time of renewal-	\$1,000

**H. Signature of Responsible Party**

30. I hereby certify the information contained in this application is true, complete and fully represents the planned withdrawal of surface water for the use(s) detailed in this application.

Printed / Typed Name

Title / Company

Signature

Date

**I. Submittal of Application**

31. This application and all supporting documentation should be submitted to: SCDHEC – Bureau of Water  
Water Monitoring, Assessment and Protection Division  
Attn: Rob Devlin  
2600 Bull Street  
Columbia, SC 29201

# Surface Water Withdrawal Permit Application

**Purpose** - This application form and guide are for registration of a new, previously unregistered surface water withdrawal after January 1, 2011 or the expansion or modification of any existing surface water withdrawal under the Surface Water Withdrawal, Permitting, Use, and Reporting Act (the Act).

## **General information for the applicant**

- This surface water withdrawal permit application is for the following: applying for a new, non-agricultural, surface water withdrawers after January 1, 2011; requesting an increase in the quantity of water that can be withdrawn under an existing surface water withdrawal permit; and an existing surface water withdrawer requesting that their initial permit include additional flow as allowed by Section 49-4-70(B)(3) of the Act (Section D.2 of the regulation). A **surface water withdrawer** is defined as a person withdrawing surface water in excess of three million gallons during any one month from a single intake or from multiple intakes under common ownership within a one-mile radius from any one existing or proposed intake.

- New surface water withdrawers must obtain a permit prior to withdrawing water unless:

1. The proposed withdrawal is for an agricultural use, for which a registration is required; or
2. The proposed withdrawer does not anticipate use exceeding the 3 million gallon in any single month. (Note that multiple intakes within a mile radius are considered jointly when considering whether or not a withdrawer meets the permitting threshold; however, water use will be reported separately by intake and appropriate operations fees assessed for each individual intake); or
3. The withdrawal is exempt from permitting as provided in Section 49-4-30 of the Act as described in A-E below:

A. Withdrawals associated with active instream dredging or sand mining operation or other nonconsumptive instream mining operations;

B. Agricultural uses from farm ponds;

C. Persons withdrawing surface water from any pond completely situated on private property and which is supplied only by diffuse surface water or springs completely situated on the private property or groundwater withdrawals;

D. Withdrawals for the purpose of wildlife habitat management; or

E. A special purpose district withdrawing surface water from any pond completely situated on property owned by a special purpose district and which is supplied only by diffuse surface water or springs completely situated on the special purposed district's property.

4. If a withdrawal is exempt, a permit is not required; however, nothing in the Act prevents an exempt withdrawer from applying for and receiving a permit to withdraw surface water.

- For additional information, a copy of the regulation is available on the Department web site at: <http://www.scdhec.gov/environment/water/reg.htm>

## **Surface Water Withdrawal Application Instructions**

### **A. General Information**

1 - 2 **Facility information:** Complete all cells that apply to the facility for which a permit or increase is being requested. For example, if an industry has multiple facilities in the state, the applicant should supply only information for the new facility or the facility requesting an increase. A municipality with multiple treatment facilities should supply information only for the new or expanding facility.

3 - 7 **Owner information:** Complete all cells that apply to the business or entity applying for the new permit or an increase in volume for an existing permit.

8 - 12 **Contact information:** Complete all cells that apply to the person who will be handling correspondence with DHEC, if different from the owner.

13 Agent information: Provide the name and phone number (and email if applicable) for any Agent preparing the application for a permittee.

14 Is this application for a new permit or modification to an existing permit?: If this application is for a new, previously un-permitted withdrawal, indicate NEW and proceed with filling out the application. If this application is for the modification of an existing permit, indicate MODIFICATION and proceed with filling out this application. If this application is for an additional volume of water requested during application for an initial permit application as an existing user under 49-4-70(B)(3) of the act, indicate MODIFICATION and proceed with filling out this application.

## **B. System Withdrawal Information**

15 The total amount of water, in millions of gallons per month (MGM), from all intakes being requested in this permit. Specify the total volume of water, in millions of gallons per month for which a permit or increase is being requested for this facility. If a single new intake is being requested in Section C below, provide that value. If multiple new intakes are being requested, provide the total of all intakes. For expansion of an existing permitted facility, provide the current permitted volume for the intake(s) for which an increased volume is being requested plus the additional volume that is being requested. If requesting additional volume for an initial permit under 49-4-70(B)(3), provide the volume being requested on the initial permit and the volume being requested on this form. The permitted withdrawal volume will be intake specific; consequently, any increase to the permitted withdrawal volume for an intake will require a permit modification.

16 General discussion regarding the place and nature of the proposed use of the surface water withdrawn. In the space provided, give a general discussion of where and how the water withdrawn will be used. In a separate attachment, provide specific, detailed information concerning where and how the water will be used. As to location, it is anticipated that an industry will specify the location of the facility and while a municipal water system will specify its designated service area. Specify how the water withdrawn will be used. As to use, it is anticipated that a public water system will provide a breakdown of how much water is used domestically, how much is sold to industrial and commercial users, and how much is sold to other corporate or governmental entities. For an industry, it is anticipated that the applicant will provide a breakdown of how the water will be used within the facility, such as process, contact and non-contact cooling water, sanitary wastewater, etc.

17 Will any portion of the water withdrawn be transferred across a basin boundary?

If No, proceed to Number 19 below. If Yes, continue and answer questions in section 18 below. Section 49-4-90 of the Act requires an enhanced public notice process for withdrawals associated with the transfer of water from one basin to another. Section F.2.d of the implementing regulation describes the 8 USGS-defined basins to be used to determine an interbasin transfer. Maps showing the 8 interbasin transfer basins are provided at <http://www.scdhec.gov/environment/water/sfw.htm> on the Department's web site. Section F.2.d further states that an interbasin transfer is considered the transfer of three million gallons or more of water in any one month from one of the 8 basins to a different basin such that the water is permanently lost from the basin of origin. To allow the Department to determine if the withdrawal will result in an interbasin transfer under the Act and institute the required public notice process, provide the information requested in 18 below.

18 If the answer to 17 above was "yes", please provide the following information.

- A. The basin in which the withdrawal is located, including the 8-digit USGS hydrologic unit code: See maps on Department web site for HUC basin codes.
- B. The basin to which any part of the water will be transferred, including the 8-digit USGS hydrologic unit code: See maps on Department web site for HUC basin codes.
- C. The entity to which the water is being transferred: Indicate the entity, if different from the applicant, who is to receive the water.

D. The location to which the water is being transferred: Indicate the location to which the water is being transferred. Provide a specific location if the transfer is to an individual industry, water treatment plant or wastewater treatment plant. If it is to a general service area, specify the area receiving the transfer.

E. The means by which the water is being transferred: Specify if the transfer is to be via a mechanism such as a raw water line, potable water line, or a wastewater line.

F. The maximum amount of water, in MGM, that will be transferred across a basin boundary during any single month during the permit period. Specify the maximum volume of water that will be transferred. This volume will be included as a enforceable maximum value on the permit.

G. How much water, in MGM, will be returned to the basin of origin and how much will be permanently lost to the basin of origin? Specify how much of the water transferred, in MGM, will be returned to the basin of origin for use or discharge and how much will permanently remain in the receiving basin, either being discharged or consumptively used there.

19 Total number of withdrawal points addressed in this application? Specify the total number of surface water intakes that will supply water to this facility.

20 Length of time for which a permit is being requested: Indicate 20 Years or Greater than 20 years. If requesting greater than 20 years, specify the total number of years requested. Permits issued by the Department pursuant to this chapter shall be valid for a period to represent the economic life of any capital investments made by the permittee necessary to carry out the permittee's use of the withdrawn water. Permits must be issued for 20 years but may be issued for a greater period the Department considers reasonable based upon its review of all the facts and circumstances relevant to a proposed withdrawal, not to exceed an additional 20 years. If the applicant desires a permit period exceeding 20 years, it is incumbent upon him to document why a longer period is justified. Permits may be issued to a municipality or other governmental body for up to 50 years if necessary to retire a bond issued to finance the construction of waterworks. If a permit exceeding 20 years in length is being requested based on issuance of a bond, documentation of the bond, including the date of the end of the bond term, must be provided.

**C. Intake Specific Withdrawal Information.** (Must be completed for each new intake or each existing intake for which an increased permitted withdrawal flow is being requested.)

### **Intake Number 1 thru 3, numbers 21-23**

- Facility designated name for intake: Provide the name that you use to refer to the intake, such as Saluda Intake or City #1 Intake. This information is requested to ensure good communication with systems that may have multiple intakes.

- Name of source waterbody: Provide the name of the source waterbody, if known. If the waterbody is not named, specify the first named stream to which it is tributary. Example: unnamed tributary to Broad River.

- Type of source waterbody: Indicate whether the source of the water to be withdrawn is a stream, a lake or other impoundment, estuary or other type waterbody. If "other" is indicated, please specify what type waterbody is the source.

- County in which the intake is located: Specify the county in which the intake is located.

- Latitude and Longitude of the intake in decimal format: Provide the latitude and longitude of the intake location in decimal format. Lat/Long can be determined on most Internet mapping sites.

- Check here to indicate location map has been included with application. Along with the application, include a map showing the precise withdrawal point(s) on a U.S. Geological Survey 1:24,000 scale quadrangle or equivalent. Submittal of an original quad sheet is not required. A copy of the appropriate portion of the quad sheet

or a downloaded portion of a quad sheet or equivalent map is sufficient provided the map is legible and contains sufficient information to allow confirmation of the intake's location.

- Quantity of water requested for this intake millions of gallons per month For a new withdrawal, provide the maximum volume of water for which a withdrawal permit is being requested at this individual intake. For an expansion, provide the volume specified on the existing permit and the requested increase. For existing surface water withdrawers requesting that their initial permit include an additional withdrawal volume, provide the volume being requested based on criteria of 49-4-70(B)(1) or an existing IBT permit on the application for an existing withdrawer and the additional volume being requested under 49-4-70(B)(3) on this application form.

- Provide supporting documentation that justifies the withdrawal quantity requested for this intake. Attach detailed documentation justifying the requested permit quantity such as a detailed engineering analysis documenting anticipated water use in a proposed industrial facility, taking into account any applicable industry standards on the efficient use of water, or a detailed assessment of existing and future needs of a municipal system. The Department will rely, in part, on this information in determining if the proposed use of water is reasonable and justified and if the quantity requested is within the source waterbody's safe yield. If unsure as to how satisfy the requirements of this section, contact DHEC's Bureau of Water for additional assistance.

- Method that will be used to measure the quantity of water withdrawn. Specify which of the 5 methods provided for in the Act, provided below, will be used to measure the quantity of water withdrawn:

- A. Flow meters accurate to within ten percent of calibration;
- B. The rated capacity of the pump in conjunction with the use of an hour meter, electric meter, or log;
- C. The rated capacity of the cooling systems;
- D. Any standard or method employed by the United States Geological Survey in determining these quantities; or,
- E. Any other method found to provide reliable water withdrawal data approved by the Department.

Should an applicant wish to use a method other than those listed here, supporting documentation must be submitted with the application regarding measurement methods and accuracy. Methods other than those listed here shall be approved at the discretion of the Department.

24 Check here if you have more than 3 intakes to include on this application. If you propose to have more than 3 intakes, please provide the information requested above for each additional intake and attach the information to this application.

#### **D. System Water Return Information**

25 Location(s) of water returns and anticipated percent of withdrawn water returned at each location: The Department is required to develop water balances when evaluating proposed withdrawals or expansions to determine if the proposed withdrawal amount is within the safe yield of the stream. To do this, the department must know how much water is withdrawn, how much is returned to surface waters and where it is returned. In a simple case with one withdrawal and one discharge point, the percent of water returned would simply be the ratio of the water returned to the water being withdrawn. An anticipated percent returned value is needed because, for the water balance, we will need to estimate return flow at the permitted withdrawal rate, not the actual volume being returned at the time of application. To document the location of the return flows, provide the latitude and longitude of each return (discharge) location and include a map showing the precise return point(s) on a U.S. Geological Survey 1:24,000 scale quadrangle or equivalent. Submittal of an original quad sheet is not required. A copy of the appropriate portion of the quad sheet or a downloaded portion of a quad sheet or equivalent map is sufficient provided the map is legible and contains sufficient information to allow confirmation of the intakes location. Indicate in check-box if information for additional intakes is attached.

26 Estimated ratio between water withdrawn and consumptive use of water withdrawn: The Department needs to know how much of the water withdrawn is returned to the source waterbody or any other waterbody and how much is lost. For a facility proposing to increase its withdrawal, this ratio can be calculated by comparing current

withdrawal data to return data, such as NPDES discharge records, or estimated using accepted industry standards for water use if future consumptive use is expected to be different from past consumptive use. For a proposed withdrawal, an engineering analysis detailing anticipated consumptive loss of water must be attached. Attach information as needed to document the ratio provided and indicate in the check-box if information is attached.

#### **E. Non-consumptive Use Permits.**

27 Are you requesting a non-consumptive use permit? If Yes, provide the information requested in A, B and C below. This information is required to determine if the proposed withdrawal meets the requirements of the Act. If No, proceed to question 28.

Rationale: Section 49-4-40 of the act allows for issuance of permits for nonconsumptive uses. A non-consumptive use permit is subject only to the reporting requirements of Section 49-4-50 of the act. The act defines non-consumptive use as a use of surface water withdrawn in such a manner that it is returned to its waters of origin within the boundaries of contiguous property owned by the surface water withdrawer with no or minimal change in water quantity. Minimal change in water quantity means that greater than 90% of the water withdrawn by a surface water withdrawer is returned to the waters of origin; provided, that the amount of water not returned to the water source does not exceed 3 million gallons in any one month or significantly reduce the safe yield at the withdrawal point. If an applicant prefers to be permitted as a non-consumptive user, the information required in Section C, a, b and c below, must be provided in addition to the information required in Section B.

A. A tax map showing the property boundaries with the intake and discharge points is required to demonstrate that the water is being returned within the boundaries of the contiguous property owned by the applicant. Note that this map will suffice for a location map and the maps required in B above are not required for a non-consumptive use permit application.

B. A discussion of the timing of the withdrawal and discharge is required to demonstrate that the requirement that the amount not returned to the stream does not exceed 3 million gallons in any one month.

C. For a new withdrawer who requests a nonconsumptive use permit, there is no historical record of withdrawals and discharges to demonstrate the provisions of the Act will be met; therefore, an engineering analysis demonstrating that 90% of the water withdrawn will be returned and that the 10% not returned will not exceed 3 million gallons in any one month must be submitted. The Department will determine if the withdrawal significantly reduces the safe yield at the withdrawal point based on a stream flow analysis and the quantity of water to be withdrawn.

#### **F. Drought Operations and Contingency Plan.**

28 Check here to indicate that draft Drought Operation and Contingency Plan has been attached to this application as required by R.61-119 Section E.4.

The Act requires that each permittee prepare and maintain on site, available for inspection, an operational and contingency plan (OCP) to promote an adequate water supply from the surface water during periods of low flow. The OCP must identify actions to be taken to address low flow conditions, including: water conservation, use of supplemental water supplies, use of off-stream water storage, operational changes, seasonal water flow fluctuation withdrawals, or modification of hydroelectric operations.

Public water suppliers must develop operational and contingency plans and implement their plan, applicable to their service territory, commensurate with the drought level declared by the State Drought Response Committee and in accordance with any drought response plan required by the owner of a licensed impoundment that they use as a water source. For public water systems, the drought plan developed for compliance with the SC Drought Response Act, including provisions required by the owner of the licensed impoundment that is the source, is considered an OCP under this regulation.

Withdrawers not considered public water suppliers must develop OCPs and implement them anytime the flow at the point of the permitted withdrawal is less than or equal to the minimum instream flow, as defined by the Act, or in accordance with any drought response plan required by the owner of a licensed impoundment that they use as a water source. The plan must specify specific actions, including those listed above, that the withdrawer will take to efficiently use available water resources and minimize the impact of facility operations on the source water body. Some permittees will have to cease consumptive water use when stream flows are below the specified minimum instream flow and, if water is withdrawn, return an equal volume of water to the source waterbody such that there is no net loss of water to the stream due to the facility's operation. Actions that may be taken during periods of cessation of consumptive withdrawals may include, but are not limited to: water conservation; use of supplemental water supplies, such as aquifer storage and retrieval, purchases of raw, potable or waste water, or use of groundwater or off-stream water storage; seasonal water flow fluctuation withdrawals; modification of hydroelectric operations; or, cessation of operations.

For any facility requiring an alternate water supply, the required draft OCP must address all aspect of the plan that can be addressed at the time of application including the items outlined above. Under 49-4-80(C) of the Act, the Department is charged with determining the volume of any required alternate water supply that may be needed to allow continued operations when those withdrawers who are not considered public water suppliers must suspend consumptive water withdrawals. Public water suppliers are exempt from Section 49-4-150(A)(1)(b) of the act, which requires use of alternate water supplies during low flow periods. It is anticipated that an applicant who is required to have a supplemental water supply will have worked with the Department prior to submittal of a formal permit application to determine the required supplemental supply source(s) and volume. The supplemental source(s) and volume will be incorporated into the draft OCP that will be reviewed by the Department. An approved version of the OCP will be included in the surface water withdrawal permit issued for the facility.

A complete listing of Operations and Contingency Plan Requirements can be found in Section E.4 of the surface water regulations, R.61-119, which can be found on the DHEC web site at <http://www.scdhec.gov/environment/water/reg.htm>.

## **G. Fees**

29 Indicate the application fess included with this application: Appropriate Fees must accompany this application. Section 48-2-50(H) of the 1976 Code requires the Department to assess and collect fees when issuing, modifying and renewing surface water withdrawal permits. The fee required for issuance of a new surface water withdrawal not considered an existing user as of January 1, 2011 is \$7,500. The fee to modify an existing surface water withdrawal permit is \$2,000 unless the modification is sought during renewal of an expiring permit pursuant to Section I of R61-119. The fee for modification at the time of renewal is \$1,000. Requests for additional flow associated with an application for an initial permit for an existing user under 49-4-70(B)(3) are not required to pay an additional fee over and above the \$1,000 initial application fee. Applicable fees, payable to SC DHEC, must be submitted with the application for new permit issuance or modification of an existing permit. Applications submitted without appropriate fees are considered incomplete and will not be processed until the application fee is received.

## **H. Signature of Responsible Party**

30 I hereby certify the information contained in this application is true, complete and fully represents the planned withdrawal of surface water for the use(s) detailed in this application:

Please fill in the appropriate boxes. All permit applications shall be signed by:

- For a corporation: a responsible corporate officer or the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the facility for which the permit is being requested.
- For a partnership or sole proprietorship: a general partner or the proprietor, respectively
- For a municipality, State, Federal or other public agency or public facility: either the principal executive officer, mayor or other duly authorized employee or ranking elected official.

- The application must be properly signed and dated for the application to be considered complete and accepted by the Department.

## **I. Submittal of Application**

31 This application and all supporting documentation should be submitted to:

This application may be completed on-line, printed, signed and submitted to the Department along with supporting maps and documentation via normal mail. The blank form may also be printed out, completed and submitted to the Department via normal mail. At the present time, applications for surface water withdrawal permits cannot be submitted electronically. Completed applications and appropriate fees must be submitted at the following address.

**South Carolina Department of Health and Environmental Control  
BOW, Water Monitoring, Assessment & Protection Division  
Attention: Rob Devlin  
2600 Bull Street  
Columbia, SC 29201**

### **Contact Information:**

Mr. Rob Devlin, Manager  
Groundwater Management Section  
S.C. Department of Health and Environmental Control  
2600 Bull Street  
Columbia SC, 29201  
Phone: 803.898.3796                      Email: devlinrj@dhec.sc.gov

### **Web-based resource addresses:**

Bureau of Water web site (general): <http://www.scdhec.gov/environment/water/>  
SC Surface Water Withdrawal, Permitting, Use and Reporting Act, 49-4-10: <http://www.scstatehouse.gov/code/t49c004.php>  
Regulation R.61-119, Surface Water Withdrawal, Permitting, Use and Reporting: <http://www.scdhec.gov/environment/water/reg.htm>  
Application form for new or expanding Surface Water Registration: <http://www.scdhec.gov/environment/water/sfw.htm>