

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Department of Natural Resources hereby issues a permit to:

Construction Permit ID: MOGC00021
Title of Project: Wyndemere Estates Phase 3B
Owner: Artisan Residential Services LLC
Address: 114 Lex-Industrial Drive
Lexington, OH 44904

The project will also include general site work appropriate to the scope and purpose of the project and will include all the necessary appurtenances to make a complete and usable collection system. The construction of this project will be in the vicinity of the county below and discharge to Receiving Permit ID below:

County: St. Charles Receiving Permit ID: MO0116572

for the construction of (described construction project):

Construction of approximately 1015 lf of 8-inch PVC SDR-35 gravity sewer lines with approximately 8 manholes to serve a 59 PE and a design average flow of 5,920 gpd. Project is in the vicinity of Wyndemere Drive and Schmitz Court in Lake of St. Louis, St. Charles County, Missouri and discharges to an existing sewer system of the Public Water Supply Dist. #2-St. Charles Co. (PWSD#2). Matt Jaspering, PE, district engineer, with the PWSD#2 provided an acceptance letter dated June 5, 2015. The wastewater from this project will be treated at Duckeet Creek Sanitary District (DCSD) WWTF #2, MO-0116572. Michael Merkt, engineering assistant, with DCSD provided an acceptance letter dated June 10, 2015.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department). As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

July 17, 2015
Issue Date


Sara Parker Pauley, Director
Department of Natural Resources

July 16, 2017
Expiration Date


John Madras
Director, Water Protection Program

APPLICABILITY

1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Storage basins, considered part of the collection system, are also included. Earthen basins are not included under this General Sewer Extension Construction permit.
2. A Sewer Extension Construction Permit may be required by the department due to compliance and enforcement actions.
3. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Projects located within an Approved Sewer Program. These include the City of Blue Springs, City of Columbia, City of Kansas City, City of Jefferson City, City of Joplin, City of Lebanon, City of Springfield, City of St. Peters, Duckett Creek Sewer District, and Metropolitan St. Louis Sewer District;
 - C. Projects funded by the Department of Natural Resources;
 - D. Projects that substantially deviate from the Design Guides in 10 CSR 20-8; and
 - E. Exempt projects unless requested by the applicant or required by enforcement.

PREREQUISITES:

1. The General Sewer Extension Construction Permit application, appropriate fee, and a schedule for construction with the date on which construction will begin and anticipated completion date.
2. The engineering report, as required, plans and specifications each signed and sealed by a professional engineer registered in the State of Missouri. A Summary of Design is an acceptable substitute for the engineering report required by this permit prerequisite.
3. The Design Certification form signed and sealed by a professional engineer registered in the State of Missouri certifying the design of the system was done in accordance with 10 CSR 20-6 and 10 CSR 20-8.
4. A statement from the continuing authority was received accepting the wastewater for treatment.
5. A statement from the continuing authority was received accepting the responsibility for operation, maintenance, and modernization of these facilities

PERMIT CONDITIONS:

1. Contact the department's appropriate regional office 48 hours prior to starting construction. Contact information can be found at <http://dnr.mo.gov/regions/regions.htm>.
2. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request.
3. The construction must be in accordance with the design certification stating the plans and specifications comply with 10 CSR 20-6 and 10 CSR 20-8.

PERMIT CONDITIONS: (continued)

4. State and Federal Law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the department's regional office per 10 CSR 20-7.015(9)(E)2.
5. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10).
"There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."
 - A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - B. Sewer mains shall be laid at least ten feet (10') horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a ten foot (10') separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - C. Manholes shall be located with the top access at or above grade level.
 - D. Manholes should be located at least ten feet (10') horizontally from any existing or proposed water main.
 - E. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
 - 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet (10') on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.

PERMIT CONDITIONS: (continued)

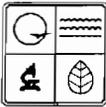
6. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one acre or more to obtain a Missouri State Operating Permit to discharge stormwater. The permit requires Best Management Practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm.

See www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.

7. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the department's Water Protection Program at (573) 751-1300 for more information.

See www.dnr.mo.gov/env/wpp/401/ for more information.

8. If this project eliminates a wastewater treatment facility, then a full closure plan shall be submitted to the department's appropriate regional office for review and approval of any permitted wastewater treatment system being replaced. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III, Section I, of the Missouri State Operating Permit. Closure shall not commence until the submitted closure plan is approved by the department. Form J – Request for Termination of a State Operating Permit, shall be submitted to the department's appropriate Regional Office for termination of any existing Missouri State Operating Permit, once closure is completed in accordance with the approved closure plan.
9. Submit a Statement of Work Completed Form to the department following completion of construction. Submit an electronic copy of the as built plans if the project was not constructed in accordance with previously submitted plans and specifications.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

**APPLICATION FOR CONSTRUCTION PERMIT -
SEWER EXTENSION**

JUN 12 2011

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$300.00	CHECK NO. 33376
DATE RECEIVED 6/12/11	

SA

NOTE ► PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM

1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

- 1.1 Is this a Federal/State funded project? YES N/A Funding Agency: _____ Project #: _____
- 1.2 Has the Department of Natural Resources approved the proposed project's engineering report**?
 YES Date of Approval: _____ NO N/A
- 1.3 Is a copy of the appropriate plans* and specifications* included with this application? YES NO
- 1.4 Is a summary of design* included with this application? YES NO
- 1.5 Is the appropriate fee included with this application? (See instructions for appropriate fee.) YES NO

* Must be affixed with a Missouri registered professional engineer's seal, signature and date.

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT

Wyndemere Estates Phase 3B

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
8927 Highway N	Lake Saint Louis	MO	63367	St. Charles

2.2 Legal Description: ¼, ¼, ¼, Sec. 8 & 9, T 46N, R 2E

2.3 Project Components (check all that apply):
 Gravity sewers Pumping stations Force mains Alternative sewer system Other (Describe below.)

2.4 PROJECT DESCRIPTION

Construction of a public gravity sanitary sewer system consisting 1,265 lineal feet 8" PVC pipe and 14 48" diameter manholes.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 16 Single Family Residential Lots
- B. Estimated flow to be contributed by this extension: Design Average Flow: 5,920 gpd Design Peak Hourly Flow: 987 gph
- C. Industrial Wastes: Type: N/A Flow: N/A gpd
- D. Receiving Sewer: Size: 8" inches Capacity: 498 gpm

3.0 PROJECT OWNER

NAME Artisan Residential Services, LLC		TELEPHONE NUMBER WITH AREA CODE (602) 790-5722	E-MAIL ADDRESS bschutjer@gmsmobility.com	
ADDRESS 114 Lex-Industrial Drive	CITY Lexington	STATE Ohio	ZIP CODE 44904	

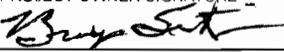
4.0 CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the wastewater collection system.

NAME Public Water Supply Dist No 2 -St. Charles Co. MO		TELEPHONE NUMBER WITH AREA CODE (636) 561-3737	E-MAIL ADDRESS mjaspering@alliancewater.com	
ADDRESS 100 Water Drive	CITY O'Fallon	STATE MO	ZIP CODE 63368	

4.1 A letter from the continuing authority, if different than the owner, is included with this application. YES NO N/A

5.0 ENGINEER

ENGINEER NAME / COMPANY NAME Clifford L. Heitmann - Bax Engineering Company		TELEPHONE NUMBER WITH AREA CODE (636) 928-5552	E-MAIL ADDRESS cheitmann@baxengineering.com	
ADDRESS 221 Point West Blvd.	CITY St. Charles	STATE MO	ZIP CODE 63301	

6.0 RECEIVING WASTEWATER TREATMENT FACILITY		
NAME Treatment Plant #2 Duckett Creek Sanitary District	TELEPHONE NUMBER WITH AREA CODE (636) 441-1244	E-MAIL ADDRESS arbuckle@duckettcreek.com
MISSOURI STATE OPERATING PERMIT # MO-0116572	REMAINING CAPACITY (GPD) 4.2 Million GPD	
6.1 Has the receiving treatment facility agreed to accept the additional wastewater flow? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
6.2 A letter from the receiving wastewater treatment facility, if different than the continuing authority, is included with this application. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
7.0 PROJECT OWNER: I hereby certify that I am familiar with the information contained in this application and to the best of my knowledge and belief such information is true, complete, and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders, and decisions, subject to any legitimate appeal available to applicant under Missouri Clean Water Law.		
PROJECT OWNER SIGNATURE 		
PRINTED NAME Bryan Schutjer		DATE 6/11/2015
TITLE OR CORPORATE POSITION Managing Member	TELEPHONE NUMBER WITH AREA CODE (602) 790-5722	E-MAIL ADDRESS bschutjer@gmsmobility.com
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176		

Public Water Supply District No. 2 of St. Charles County

Phone (636) 561-3737

www.waterdistrict2.com

Service Address
100 Water Drive
O'Fallon, Missouri 63368

Mailing Address
P.O. Box 967
O'Fallon, Missouri 63366

June 5, 2015

Clifford L. Heitmann, P.E.
Bax Engineering
221 Point West Blvd.
St. Charles, MO 63301

RE: Wyndemere Estates Phase 3B – Lake Saint Louis

Mr. Heitmann:

We have reviewed the latest submittal of plans for the above referenced project dated May 19, 2015 which includes the construction of approximately 1265 feet of 8 inch sewer main. These plans are approved for construction and five copies of these plans stamped "Approved for Construction" are being returned enclosed. We also hereby certify that the District will own, operate and maintain this sewer collection system.

The District's commitment of sewer capacity is contingent on connections to the District's system being completed and placed into service within three years of the date of this letter.

The next step is for you to submit three sets of the stamped plans along with a copy of this letter to the Missouri Department of Natural Resources for review and approval. Their approval along with all of the other items listed in our Guidelines for Water and Sewer System Extensions must be received before construction can begin.

If you have any questions, please call Chuck Krakosky at 636-561-3737 x135.

Sincerely,



Matt Jaspering, P.E.
District Engineer



Duckett Creek Sanitary District

3550 Hwy N, O'Fallon, Missouri 63368

Ph: (636) 441-1244

Customer Service Fax: (636) 498-8100

Engineering Fax: (636) 498-8150

June 10, 2015

Mr. Dale Bax
Bax Engineering Company, Inc.
221 Point West Blvd.
St. Charles, Missouri 63301

RE: Wyndemere Estates Phase 3B subdivision
Sanitary Sewer availability.

Dear Mr. Bax,

Reference is made to the inquiry regarding sanitary sewer service availability for the proposed Wyndemere Estates Phase 3B subdivision located along Highway N in Lake St. Louis, Missouri.

Be advised that said proposed Wyndemere Estates Phase 3B subdivision is not located within the Duckett Creek Sanitary District service boundary limits. However, the wastewater from the proposed subdivision will be treated at the District's Wastewater Treatment Plant No. 2 in Missouri Research Park.

The Duckett Creek Sanitary District has wastewater treatment capacity available to accommodate the referenced project.

If you have any questions or need additional information regarding these matters, please contact the Duckett Creek Sanitary District Office, at your convenience.

Sincerely,

Michael Merkt
Engineering Assistant

cc: Keith Arbuckle, P.E.

DUCKETT CREEK SANITARY DISTRICT

