STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

March 24, 2014

Mr. Tom Ratermann, P.E.
Boone County Regional Sewer District
1314 North Seventh Street
Columbia, MO 65201

RE: C295375-18 Boone County Regional Sewer District – Westwood Meadows Sewer Extension and Lagoon Closure, MO-0097837, Construction Permit No. CPSE00694

Dear Mr. Ratermann:

The Missouri Department of Natural Resources' Water Protection Program has reviewed and approved the plans and specifications submitted by Allstate Consultants LLC, for the Boone County Regional Sewer District. Please find enclosed Construction Permit No. CPSE00694 and one (1) set of approved specifications. One (1) set of approved plans has been sent under separate cover by Mr. Mark Bockstruck of my staff. You must maintain these with your official project file for a minimum of four (4) years following completion of the project.

This permit will terminate 12 months from the date of issuance. In accordance with 10 CSR 20-6.010(4)(G), the Department may grant an extension only one (1) time. If you believe that an extension is necessary, you must submit a request and a justification in writing for the extension at least 30 days prior to the permit expiration date.

Nothing in this permit removes any obligations to comply with county or other local ordinances or restrictions.

If you were adversely affected by this decision, you may appeal to have the matter heard by the Administrative Hearing Commission. To appeal, you must file a petition with the Administrative Hearing Commission within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the Administrative Hearing Commission.

Recycled Paper

If you have any questions concerning this matter, please contact Mr. Mark Bockstruck, of the Water Protection Program, at 573-526-5631 or Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Thank you for your efforts to help ensure clean water in Missouri.

Sincerely,

WATER PROTECTION PROGRAM

for Byron F. Shaw, Jr., P.E.
SRF Engineering Unit Chief

BFS:mbc

Enclosures

c: Mr. Ron Shy, P.E., Allstate Consultants LLC
Northeast Regional Office
Mr. Mark Bockstruck, Water Protection Program, Financial Assistance Center
Mr. Terry Nelson, Water Protection Program, Financial Assistance Center

C295375-18 Columbia Regional WWTF, MO-0097837 Permit No. CPSE00694
Westwood Meadows Sewer Extension and Lagoon Closure

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

CONSTRUCTION PERMIT

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

Boone County Regional Sewer District
1314 North Seventh Street
Columbia, MO 65201

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

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.

A representative of the Department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the Department will be contingent on the work substantially adhering to the approved plans and specifications.

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

March 24, 2014
Effective Date

Sara Parker Pauley
Sara Parker Pauley, Director, Department of Natural Resources

March 23, 2015
Expiration Date

John Madras
Director, Water Protection Program

C295375-18 Columbia Regional WWTF, MO-0097837 Permit No. CPSE00694
Westwood Meadows Sewer Extension and Lagoon Closure

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

This project consists of the installation and construction of approximately 1,344 lineal feet (lf) of eight-inch (8") polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 gravity sewer lines with seven (7) manholes and all the necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated 24 lots and an estimated design average flow of 14,600 gallons per day. The project will also include the abandonment and closure of the Westwood Meadows Lagoon as well as general site work appropriate to the scope and purpose of the project.

These wastewater facilities will be in the vicinity of the Dawn Drive and Northwest Outer Road intersection in Boone County and will discharge to an existing sewer system to be treated at the Columbia Regional Wastewater Treatment Facility, Missouri State Operating Permit No. MO-0097837.

PERMIT CONDITIONS:

1. All construction shall be in accordance with the plans and specifications submitted by Allstate Consultants LLC on March 12, 2014 and approved by the Department on March 24, 2014.

2. Regulation 10 CSR 20-4.040(19)(B)1 requires that projects be publicly advertised, allowing sufficient time for bids to be prepared and submitted. Projects should be advertised at least 30 days prior to bid opening.

3. The Department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(8).

4. As per 10 CSR 20-4.040, all changes in contract price or time within the approved scope of work must be by change order in accordance with Section 20 of this rule.

5. 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 Northeast Regional Office per 10 CSR 20-7.015(9)(E)2.

6. 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 should be located at least ten feet (10') horizontally from any existing or proposed water main.

   D. 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 (1) 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.

7. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one (1) 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 may 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.

8. 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.

9. Upon completion of construction, the Boone County Regional Sewer District will become the continuing authority for operation, maintenance, and modernization of these facilities.

10. In accordance with 10 CSR 20-6.010(5)(D), submit the enclosed form Statement of Work Completed to the Department following completion of construction. Submit an electronic copy of the as builts with this form.

AP14374 C10769
CPSE00694

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED $300.00	CHECK NO. 2020
DATE RECEIVED 1/15/13	

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.

RECEIVED JAN 15 2013 WPP-FAC

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT
BCRSD Westwood Meadows Collector Sewer & Lagoon Closure

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
Dawn Drive & Northwest Outer Road	Columbia	MO	65202	Boone

2.2 Legal Description: ¼, SW ¼, SW ¼, Sec. 4 , T 48N , R 13W

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

2.4 PROJECT DESCRIPTION
The project consists of 1330 L.F. of 8" sanitary sewer and 6 manholes to take the inflow from the Westwood Meadows WWTF (stabilization lagoon). The closure of this lagoon is also included in the project.

RECEIVED JAN 15 2013 WATER PROTECTION PROGRAM

2.5 DESIGN INFORMATION
A. Population or number of lots to be served by this extension: 24 LOTS
B. Estimated flow to be contributed by this extension: Design Average Flow: 14,600 gpd Design Peak Hourly Flow: 2,550 gph
C. Industrial Wastes: Type: N/A Flow: gpd
D. Receiving Sewer: Size: 18 inches Capacity: 1,640 gpm

3.0 PROJECT OWNER

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Boone County Regional Sewer District	(573) 443-2774	tratermann@bcrsd.com

ADDRESS	CITY	STATE	ZIP CODE
1314 North Seventh St.	Columbia	MO	65201

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	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
City of Columbia	(573) 874-7250	pubw@gocolumbia.com

ADDRESS	CITY	STATE	ZIP CODE
701 East Broadway	Columbia	MO	65205

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	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Ron C. Shy/Allstate Consultants LLC	(573) 875-8799	rshy@allstateconsultants.net

ADDRESS	CITY	STATE	ZIP CODE
3312 LeMone Industrial Blvd.	Columbia	MO	65201

6.0 RECEIVING WASTEWATER TREATMENT FACILITY

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Columbia Regional WWTP	(573) 874-7250	pubw@gocolumbia.com

MISSOURI STATE OPERATING PERMIT #	REMAINING CAPACITY (GPD)
MO-0097837	3 - 4 million gpd

6.1 Has the receiving treatment facility agreed to accept the additional wastewater flow? ☑ YES ☐ NO

6.2 A letter from the receiving wastewater treatment facility, if different than the continuing authority, is included with this application.
☑ YES ☐ NO ☐ N/A

7.0 PROJECT OWNER: I hearby 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		
Tom Ratermann		
PRINTED NAME		DATE
Tom Ratermann		12/14/2012
TITLE OR COPORATE POSITION	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
General Manager	(573) 443-2774	tratermann@bcrsd.com

Mail completed copy to:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176