

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Strategically Acquired Real Estate Investment, LP
9645 Clayton Road
St. Louis, MO 63124

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.

October 10, 2014
Effective Date

October 9, 2016
Expiration Date

Sara Parker Pauley, Director, Department of Natural Resources

Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

This project consists of the installation and construction of approximately 471 linear feet (lf) of 10-inch (10") polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 and 1200 lf of 8-inch (8") PVC SDR-35 gravity sewer lines with approximately 12 manholes and all the necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated population equivalent of 170 and an estimated design average flow of 17,020 gallons per day. The project will also include general site work appropriate to the scope and purpose of the project.

These activities will be in the vicinity of Crystal Stream Drive and Crystal Manor Court in St. Charles County and discharge to an existing sewer system to be treated at the Wentzville Water Reclamation Center Wastewater Treatment Facility, Missouri State Operating Permit No. MO-0093599. Devon Dezort, EI, civil engineer, with the City of Wentzville provided an acceptance letter dated September 10, 2014.

PERMIT CONDITIONS:

1. All construction shall be in accordance with the plans and specifications submitted by Bax Engineering Company as follows:
 - Plan and Specifications received on Sept 16, 2014 and signed and sealed by Clifford L. Heitmann, P.E. on September 3, 2014.
2. 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).
3. 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 St. Louis Regional Office per 10 CSR 20-7.015(9)(E)2.
4. This Construction Permit is invalid for projects required to comply with the requirements contained in 10 CSR 20-4, "Grants and Loans".
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."

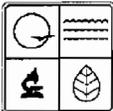
- A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - B. Sewer mains shall be laid at least ten feet (10') horizontally from any existing or proposed 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 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.
6. 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.

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. In accordance with 10 CSR 20-6.010(6)(B), submit the enclosed form Application for Letter of Authorization – Sewer Extension to the Department following completion of construction. Submit an electronic copy of the as-builts with this form.
9. Upon completion of construction, the City of Wentzville will become the continuing authority for operation, maintenance, and modernization of these facilities.

Lei Hou, PE
Engineering Section
lei.hou@dnr.mo.gov

RECEIVED

CPSE 00977



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
SEP 16 2014
APPLICATION FOR CONSTRUCTION PERMIT -
SEWER EXTENSION

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
SEE RECEIVED \$500.00	CHECK NO. 1451
DATE RECEIVED 9/16/14	<i>SB</i>

WATER PROTECTION PROGRAM

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

SEP 23 2014

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

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT

Crystal Creek Phase Three

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
1333 Wentzville Parkway	Wentzville	Mo.	63385	St Charles

2.2 Legal Description: ¼, ¼, ¼, Sec. 14, T 47 N, R 1 E

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 which consists of 471 lineal feet of 10" PVC pipe, 1,149 lineal feet of 8" PVC pipe and 12 manholes to serve 46 single family residential lots.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 46 Single Family Residential Lots
- B. Estimated flow to be contributed by this extension: Design Average Flow: 1.7, 020 gpd Design Peak Hourly Flow: 2837 gph
- C. Industrial Wastes: Type: N/A Flow: N/A gpd
- D. Receiving Sewer: Size: 10" inches Capacity: 980 gpm

3.0 PROJECT OWNER

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS	
Strategically Acquired Real Estate Investment, LP	(314) 541-5733	rgjameson@msn.com	
ADDRESS	CITY	STATE	ZIP CODE
9645 Clayton Road, Suite 200	St. Louis	MO.	63124

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 Wentzville	(636) 639-2030	susan.mueller@wentzvillemo.org	
ADDRESS	CITY	STATE	ZIP CODE
200 E. Fourth Street	Wentzville	Mo.	63385

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	
Clifford L. Heitmann - Bax Engineering Company	(636) 928-5552	cheitmann@baxengineering.com	
ADDRESS	CITY	STATE	ZIP CODE
221 Point West Blvd.	St. Charles	MO.	63301

6.0 RECEIVING WASTEWATER TREATMENT FACILITY

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Wentzville Water Reclamation Center	(636) 639-2030	susan.mueller@wentzvillemo.org

MISSOURI STATE OPERATING PERMIT # MO-0093599		REMAINING CAPACITY (GPD) 808,229 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 type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" 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 Richard Jameson		DATE 9-11-10	
TITLE OR CORPORATE POSITION MANAGER		TELEPHONE NUMBER WITH AREA CODE (314) 541-5733	E-MAIL ADDRESS rgjameson@msn.com
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176			