

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: MOGC00075  
Title of Project: Liberty Healthy Living Community  
Owner: Liberty Healthy Living Community  
Address: 2525 Glenn Hendren Drive  
LIBERTY, MO 64068

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: Clay Receiving Permit ID: MO0049531

for the construction of (described construction project):

Construction of approximately 1,354 lf of 8-inch PVC SDR-26 (551 linear feet of which is relocation of existing) with approximately 9 manholes to serve a mixed development with nine commercial (medical) and six multi-unit residential lots with a design average flow of 284,379 gpd. Project is in the vicinity of 2525 Glenn Hendren Drive in Liberty, Clay County and discharges to an existing system to be treated at Birmingham WWTF, MO-0049531. Randy Williams, Utility Superintendent, with Kansas City Water Services - Wastewater Treatment Division provided an acceptance letter dated December 3, 2015 for treatment. John Findlay, Project Engineer, with the City of Liberty provided an acceptance letter dated December 10, 2016 as continuing authority for the sewer extension.

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.

February 01, 2016

Issue Date

Handwritten signature of Sara Parker Pauley in black ink.

Sara Parker Pauley, Director  
Department of Natural Resources

January 31, 2018

Expiration Date

Handwritten signature of John Madras in black ink.

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)

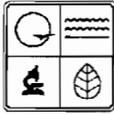
6. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one acre or more to obtain a Missouri State Operating Permit to discharge stormwater. The permit requires Best Management Practices sufficient to control runoff and sedimentation to protect 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](http://www.dnr.mo.gov/env/wpp/epermit/help.htm).

See [www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm](http://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/](http://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**

RECEIVED

DEC 21 2015

Water Protection Program

AP 22518  
MO6C00075 15468

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
SEE RECEIVED	CHECK NO.
DATE RECEIVED	

\$300.00 27224  
12/21/15 BR

**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

Liberty Healthy Living Community

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
2525 Glenn Hendren Drive	Liberty	MO	64068	Clay

2.2 Legal Description: ¼, NE ¼, NE ¼, Sec. 31, T 52N, R 31W

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 existing site is an open agricultural field bordered by the Liberty Clinic, Glenn Hendren Drive, and the Liberty Hospital. The existing site currently has approximately 1200 LF of existing 8" sanitary sewer main and 5 manholes that were constructed in 2011 to serve the Liberty Clinic. Most of this existing sanitary sewer is being relocated as part of the Liberty Healthy Living Community project.

The proposed site, as shown is to be developed as a healthy living community. The developed site will consist of 14 residential and commercial buildings, parking lots, sidewalks, and site utilities. The site includes 8 proposed sanitary sewer manholes, and 1354 feet of proposed 8" sanitary sewer line. Approximately 551 feet is relocated and approximately 803 feet is new sanitary sewer extension.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 15 Lots
- B. Estimated flow to be contributed by this extension: Design Average Flow: 284379 gpd Design Peak Hourly Flow: 59250 gph
- C. Industrial Wastes: Type: *None* Flow: \_\_\_\_\_ gpd
- D. Receiving Sewer: Size: 8 inches Capacity: 597 gpm

**3.0 PROJECT OWNER**

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Liberty Healthy Living Community, LLC	(785) 313-4059	chris.cole@actionpact.com

ADDRESS	CITY	STATE	ZIP CODE
2525 Glenn Hendren Drive	Liberty	MO	64068

**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
Brian Hess, P.E. - Director of Utilities	(816) 439-4549	bhess@ci.liberty.mo.us

ADDRESS	CITY	STATE	ZIP CODE
101 E. Kansas	Liberty	MO	64069

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
Brett Louk, P.E. - SMH Consultants	(785) 776-0541	blouk@smhconsultants.com

ADDRESS	CITY	STATE	ZIP CODE
2017 Vanesta Place, Suite 110	Manhattan	KS	66503

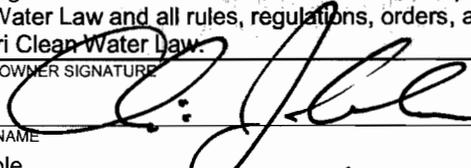
**6.0 RECEIVING WASTEWATER TREATMENT FACILITY**

NAME Birmingham Wastewater Treatment Facility	TELEPHONE NUMBER WITH AREA CODE (816) 513-7200	E-MAIL ADDRESS randy.williams@kcmo.org
MISSOURI STATE OPERATING PERMIT # MO-0049531	REMAINING CAPACITY (GPD) 7.6 million	

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 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  
Chris Cole

DATE  
12/17/15

TITLE OR CORPORATE POSITION  
Chief Development Officer

TELEPHONE NUMBER WITH AREA CODE  
(785) 313-4059

E-MAIL ADDRESS  
chris.cole@actionpact.com

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