



STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

---

[www.dnr.mo.gov](http://www.dnr.mo.gov)

February 13, 2014

Mr. Bobby N. Rakes, Jr., Director of Public Works  
U.S. Army Installation Management Command  
Fort Leonard Wood  
1334 1<sup>st</sup> Street  
Fort Leonard Wood, MO 65473

RE: AP16977 Vehicle Maintenance Shop Sewer Extension – Fort Leonard Wood  
Wastewater Treatment Facility, MO-0029742, Construction Permit No. CPSE00858

Dear Mr. Rakes:

The Missouri Department of Natural Resources' Water Protection Program has reviewed and approved the plans and specifications submitted by United States Army Corps of Engineers (USACE) – KC District for Fort Leonard Wood. Please find enclosed Construction Permit No. CPSE00858 and one (1) set of approved plans and specifications.

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.

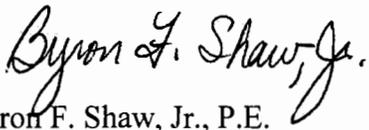
Mr. Bobby N. Rakes, Jr., Director of Public Works  
February 13, 2014  
Page 2

If you have any questions concerning this matter, please contact Mr. David C. Uhlig, P.E. of the Water Protection Program, at 573-751-1302 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



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

BFS:duc

Enclosures

- c: Mr. David L. Mathews, P.E., U.S. Army Corps of Engineers – Kansas City District  
US Army Installation Management Command and Fort Leonard Wood  
Southeast Regional Office  
Mr. David C. Uhlig, P.E., Water Protection Program, Financial Assistance Center

**STATE OF MISSOURI**  
**DEPARTMENT OF NATURAL RESOURCES**

MISSOURI CLEAN WATER COMMISSION



**CONSTRUCTION PERMIT**

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

US Army Installation Management Command  
and Fort Leonard Wood  
1334 1<sup>st</sup> Street, Building 2200A  
Fort Leonard Wood, MO 65473

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.

February 13, 2014  
Effective Date

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

February 12, 2015  
Expiration Date

John Madros  
Director, Water Protection Program

## **CONSTRUCTION PERMIT**

### **COLLECTION SYSTEM:**

The project will consist of the construction of a conventional gravity sewer system with approximately 810 linear feet (lf) of eight-inch (8") polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 gravity sewer with three (3) manholes and a grinder pump and force main with approximately 1,016 lf of two-inch (2") PVC Schedule (SCH)-40, 80 or 120 force main. The grinder pump will be capable of pumping 47 gallons per minute (gpm) at approximately 75 feet of total dynamic head (TDH). In addition to the collection system pump station and piping, an oil-water separator will be installed in the collection system at the Tactical Equipment Maintenance Facility. All necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated population equivalent of 190 and an estimated design average flow of 19,000 gallons per day will be provided. The project will also include general site work appropriate to the scope and purpose of the project.

These wastewater facilities will be at 1045 Fort Leonard Wood 36 in Fort Leonard Wood, MO, in Pulaski County and discharge to an existing sewer system and be treated at the Fort Leonard Wood Wastewater Treatment Facility, Missouri State Operating Permit No. MO-0029742.

### **PERMIT CONDITIONS:**

1. All construction shall be in accordance with the plans and specifications submitted by the U.S. Army Corps of Engineers – Kansas City District on November 18, 2013 and approved by the Department on February 13, 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 Southeast 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. 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](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.

6. 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.

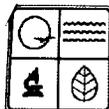
7. In accordance with 10 CSR 20-6.010(6)(B), submit the enclosed form Application for Letter of Authorization – Sewer Extension to the Department following completion of construction. Submit an electronic copy of the as builts with this form.
8. Upon completion of construction, the U.S. Army Installation Management Command and Fort Leonard Wood will become the continuing authority for operation, maintenance, and modernization of these facilities.

RECEIVED

NOV 18 2013

RECEIVED

11/20/13 (P)



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

NOV 18 2013

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$300.00	CHECK NO. 51384
DATE RECEIVED 11/18/13	8B

**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: DOD Project #: 65679
- 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

Vehicle Maintenance Shop

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
1045 Fort Leonard Wood 36	Fort Leonard Wood	MO	65473	Pulaski

2.2 Legal Description: ¼, SW ¼, NE ¼, Sec. 27, T 35N, R 11W

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 6" gravity sanitary sewer for the Tactical Equipment Maintenance Facility (TEMF) flows to a pump station. The pump station wet well is designed to handle the flow from this facility only. There are no other buildings located or planned nearby that will need to utilize this pump station. Flow from the TEMF's maintenance area will pass through an oil-water separator before flowing into the gravity sewer system.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 180 personnel
- B. Estimated flow to be contributed by this extension: Design Average Flow: 18k gpd Design Peak Hourly Flow: 6796 gph
- C. Industrial Wastes: Type: POL Flow: 500 gpd
- D. Receiving Sewer: Size: 8 inches Capacity: 294 gpm

**3.0 PROJECT OWNER**

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS	
US Army Installation Management Command & FLW	(573) 596-0840	N/A	
ADDRESS	CITY	STATE	ZIP CODE
1334 First Street	Fort Leonard Wood	MO	65413

**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	
Same as owner's information above			
ADDRESS	CITY	STATE	ZIP CODE

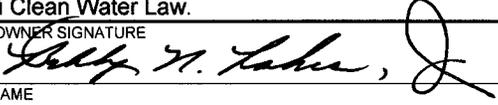
4.1 A letter from the continuing authority, if different than the owner, is included with this application.  YES  NO  N/A

**5.0 ENGINEER**

ENGINEER NAME / COMPANY NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS	
USACE - KC District - Jennifer Sciarra	(816) 389-2171	jennifer.l.sciarra@usace.army.mil	
ADDRESS	CITY	STATE	ZIP CODE
601 E. 12th Street	Kansas City	MO	64106

**6.0 RECEIVING WASTEWATER TREATMENT FACILITY**

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
US Army Manscen & FLW WWT Treatment Plant	(573) 596-0078	N/A

MISSOURI STATE OPERATING PERMIT # MO-0029742		REMAINING CAPACITY (GPD) 3,000,000 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			
<b>7.0 PROJECT OWNER:</b> 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 Mr. Bobby N. Rakes, Jr.		DATE 25 OCT 13	
TITLE OR COPORATE POSITION Director, Directorate of Public Works		TELEPHONE NUMBER WITH AREA CODE (573) 596-0840	E-MAIL ADDRESS N/A
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176			