

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

MISSOURI CLEAN WATER COMMISSION



**CONSTRUCTION PERMIT**

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

Tap & Grill, LLC  
15208 Red Hollow Road  
Gravois Mills, MO 65037

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 31, 2015  
Effective Date

March 30, 2017  
Expiration Date

Sara Parker Pauley, Director, Department of Natural Resources

John Madras, Director, Water Protection Program

## **CONSTRUCTION PERMIT**

### **COLLECTION SYSTEM:**

The proposed wastewater collection system will consist of a conventional gravity sewer system with lift stations and force mains, which will carry raw wastewater to the receiving wastewater treatment facility.

Construction and installation of approximately 340 linear feet of 8-inch polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 gravity sewer with two manholes, 1,060 lf of 2-inch PVC SDR-21 force mains with cleanouts and air release valves, one duplex lift stations with each pump capable of operating at 52 gallons per minute (gpm) at 145 feet of total dynamic head (TDH), two sources of power, and all necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated population equivalent of 108 and an estimated design average flow of 10,800 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 31959 Dunwandrin Road in Gravois Mills, Morgan County and discharge to an existing sewer system to be treated at the Gravois Arm Sewer District Wastewater Treatment Facility, Missouri State Operating Permit No. MO-0131822. David R. Taylor, Chairman, with the Gravois Arm Sewer District provided an acceptance letter dated February 4, 2015.

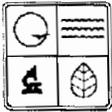
### **PERMIT CONDITIONS:**

1. All construction shall be in accordance with the plans and specifications submitted by Midwest Engineering as follows:
  - Specifications received on February 17, 2015 and signed and sealed by Matthew J. Marschke, P.E. on February 15, 2015.
  - Plans received on February 17, 2015 and signed and sealed by Matthew J. Marschke, P.E. as follows: sheets C-1 through C-3 dated January 27, 2015 and sheet C-4 dated February 9, 2015.
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 SW 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 10 feet 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 10 foot 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 10 feet 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 10 feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe

- 3) 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 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.
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. A full closure plan shall be submitted to the department's SW 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 of the Missouri State Operating Permit No. MO-0131822, Gravois Arm Sewer District WWTF. 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 SW Regional Office for termination of any existing Missouri state operating permit, once closure is completed in accordance with the approved closure plan.
9. 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-built drawings with this form if the project was not constructed in accordance with previously submitted plans and specifications.
10. Upon completion of construction, the Gravois Arm Sewer District will become the continuing authority for operation, maintenance, and modernization of these facilities.

**Stephen P. Busch, P.E.**  
**Engineering Section**  
[steve.busch@dnr.mo.gov](mailto:steve.busch@dnr.mo.gov)



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

RECEIVED

11-20-11 617450

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED 1,200.00	CHECK NO. 1115
DATE RECEIVED 11/15/11	

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

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

**2.0 PROJECT INFORMATION**

2.1 NAME OF PROJECT

Sewer Extension for Tap and Grill Restruant and Millstone Bathrooms.

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
31959 Dunwandrin Road	Gravois Mills	MO	65037	Morgan

2.2 Legal Description: ¼, ¼, ¼, Sec. 13, T 40N, R 17W

2.3 Project Components (check all that apply):

- Gravity sewers  Pumping stations  Force mains  Alternative sewer system  Other (Describe below.)

2.4 PROJECT DESCRIPTION

Gravois sewer extension to serve a lake side restaurant and two existing bathrooms in the Millstone Marina complex. 1,060 feet of 2" force main, duplex 7.5 HP pumps, gravity mains, manholes and grease traps.

2.5 DESIGN INFORMATION

A. Population or number of lots to be served by this extension: PE 108

B. Estimated flow to be contributed by this extension: Design Average Flow: 10.8k gpd Design Peak Hourly Flow: 1954 gph

C. Industrial Wastes: Type: \_\_\_\_\_ Flow: 0 gpd

D. Receiving Sewer: Size: \_\_\_\_\_ inches Capacity: \_\_\_\_\_ gpm

**3.0 PROJECT OWNER**

NAME Tap and Grill, LLC	TELEPHONE NUMBER WITH AREA CODE (573) 372-6500	E-MAIL ADDRESS coconutsatthelake@gmail.com
ADDRESS 15208 Red Hollow Road	CITY Gravois Mills	STATE MO
		ZIP CODE 65037

**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 Gravois Arm Sewer District	TELEPHONE NUMBER WITH AREA CODE (573) 286-3413	E-MAIL ADDRESS gasd0042@yahoo.com
ADDRESS 28982 Harbor Road	CITY Gravois Mills	STATE MO
		ZIP CODE 65037

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

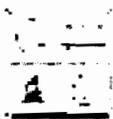
**5.0 ENGINEER**

ENGINEER NAME / COMPANY NAME Midwest Engineering Company, LLC	TELEPHONE NUMBER WITH AREA CODE (573) 207-0199	E-MAIL ADDRESS matt.m@mwec.us
ADDRESS 5610 Alona Point	CITY Osage Beach	STATE MO
		ZIP CODE 65065

**6.0 RECEIVING WASTEWATER TREATMENT FACILITY**

NAME Gravois Sewer District Plant #2	TELEPHONE NUMBER WITH AREA CODE (573) 286-3413	E-MAIL ADDRESS gasd0042@yahoo.com
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MISSOURI STATE OPERATING PERMIT # MO-0131822		REMAINING CAPACITY (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 Tim Vogel, Tap and Grill, LLC		DATE
TITLE OR CORPORATE POSITION Owner	TELEPHONE NUMBER WITH AREA CODE (573) 372-6500	E-MAIL ADDRESS coconutsatthelake@gmail.com
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176		



STATE OF CONNECTICUT DEPARTMENT OF NATURAL RESOURCES  
 WATER POLLUTION CONTROL PROGRAM  
**APPLICATION FOR CONSTRUCTION PERMIT -  
 SEWER EXTENSION**

**FOR DEPARTMENT USE ONLY**

APPNO: \_\_\_\_\_

DATE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

FILE NO: \_\_\_\_\_

**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 denied and may be referred to the State.)

1.1 Is this a Federal/State funded project?  YES  NO - Funding Agency: \_\_\_\_\_ Project #: \_\_\_\_\_

1.2 Has the Department of Natural Resources approved the proposed project's engineering work?  YES  NO - Date of approval: \_\_\_\_\_

1.3 Is a copy of the appropriate permit and special order included with this application?  YES  NO

1.4 Will you comply with all applicable rules with this application?  YES  NO

1.5 Is the appropriate fee included with this application? (See instructions for appropriate fees.)  YES  NO

1.6 Is the applicant authorized to sign and execute this application? (Signature required)

**2.0 PROJECT INFORMATION**

2.1 PROJECT NAME: Sewer Extension for Top and Gill Resident and Millstone Bathrooms.

ADDRESS:	CITY:	COUNTY:	ZIP CODE:	PROJECT:
21908 Edgewood Road	Groveland Hills	NYU	06007	10000

2.2 Local Description: \_\_\_\_\_

2.3 Project Description:  Sewer Extension  Pumping Station  Force Mains  Alternative Sewer System  Other (Describe below): \_\_\_\_\_

2.4 Project Description: Sewer extension to service a force main extension to a two seeping bathrooms in the Village Millstone project located at 21908 Edgewood Road, Groveland Hills, NYU, Groveland Hills, NYU, 06007.

3.1 Estimated flow to be received by the sewer: \_\_\_\_\_

3.2 Estimated flow to be collected by the sewer: \_\_\_\_\_ (Design flow: 1000 L/day, 200 US gal/day, 1000 gal/day)

Receiving Sewer	Size	Notes	Capacity	DFM
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**3.0 PROJECT OWNER**

NAME:	TELEPHONE NUMBER:	MAILING ADDRESS:
Top and Gill LLC	(878) 372 3000	60000 Bethel Street, Groveland Hills, NYU, 06007

**4.0 CONTINUING AUTHORITY** (Person or organization that will serve as the continuing authority for the operation, maintenance and reconstruction of the wastewater collection system.)

NAME:	TELEPHONE NUMBER:	MAILING ADDRESS:
Groveland Sewer District	(878) 285 3418	60000 Bethel Street, Groveland Hills, NYU, 06007

4.1 A letter from the continuing authority, signed by the owner, is included with this application.  YES  NO  N/A

**5.0 ENGINEER**

NAME:	TELEPHONE NUMBER:	MAILING ADDRESS:
Michael Engineering Company, LLC	(878) 207 0100	10000 Bethel Street, Groveland Hills, NYU, 06007

**6.0 RECEIVING WASTEWATER TREATMENT FACILITY**

NAME:	TELEPHONE NUMBER:	MAILING ADDRESS:
Groveland Sewer District	(878) 207 0100	60000 Bethel Street, Groveland Hills, NYU, 06007

