

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

MISSOURI CLEAN WATER COMMISSION



**CONSTRUCTION PERMIT**

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

VMPC Recreational, LLC  
Stone Park Resort  
8614 Berry Road  
Bonne Terre, MO 63628

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.

September 10, 2014  
Effective Date

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

September 9, 2016  
Expiration Date

John Madros  
John Madros, Director, Water Protection Program

## CONSTRUCTION PERMIT

### **I. CONSTRUCTION DESCRIPTION**

Stone Park Resort is an RV park with camping lots available, along with a house, available for renting. The three phase plan includes the RV park, camping lots, a recreational building, and construction of an amphitheater at the site. Stone Park will be and extended aeration plant with 6-1,500 gallon tanks for flow equalization, sock filtration, chlorine disinfection and dechlorination to treat a design flow of 8,005 gpd.

Three Feed pumps will be added in series to feed the wastewater treatment plant with a float system and control panel to control feed into the plant. Sock filtration will be added to meet the losing stream effluent limits of 10 mg/L BOD<sub>5</sub> and TSS. Norweco tablet chlorination and dechlorination will be installed to meet *E. Coli* disinfection effluent limits.

Construction will include all necessary piping and appurtenance to make the facilities complete and useable to treat the wastewater design flow of 8,005 gpd.

### **II. FINDING OF AFFORDABILITY**

The Finding of Affordability is not applicable. The permittee is not a combined or separate sanitary sewer system or a publicly owned treatment works.

### **III. CONSTRUCTION PERMIT CONDITIONS**

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.
2. All construction shall be in accordance with the plans and specifications submitted by NPN Environmental on September 26, 2012, December 12, 2012, April 23, 2013, and June 5, 2014.
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. 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.
5. This Construction Permit is invalid for projects required to comply with the requirements contained in 10 CSR 20-4, "Grants and Loans"
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."

7. 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.
  - A. Sewer mains shall be laid at least ten 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 ten 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.
  - B. Manholes should be located at least ten feet horizontally from any existing or proposed water main.
  - C. 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:
    - a. 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
    - b. Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet 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.
8. 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.
9. 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.

10. Upon completion of construction;
  - A. VMPC Recreational, LLC will become the continuing authority for operation, maintenance, and modernization of these facilities;
  - B. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(D);
  - C. Submit an electronic copy of the as built; and
  - D. Submit a Form B - Application for an Operating Permit for Domestic or Municipal Wastewater ( $\leq 100,000$  gallons per day) along with the modification fee.

#### **IV. REVIEW SUMMARY**

##### **1. AMMONIA**

The Water Protection Program is providing this notice to inform permittees that EPA's published ammonia criteria for aquatic life protection is lower than the current Missouri criteria. The department has initiated stakeholder discussions on this topic and at this time, there is no firm target date for starting the rulemaking to adopt new standards. More information can be found at <http://dnr.mo.gov/pubs/pub2481.pdf>. On October 23, 2013, a letter was sent to Mr. Vessel concerning the new ammonia criteria.

##### **2. FACILITY DESCRIPTION**

Stone Park Resort is an RV park with camping lots available, along with a house, available for renting. The three phase plan includes the RV park, camping lots, a recreational building, and construction of an amphitheater at the site. The facility is located across Highway 67 from St. Francois State Park, outside of Bonne Terre, MO. Stone Park Resort is planning on buying the existing Black River Electric Cooperative treatment plant in Fredericktown, MO. That original construction permit for treatment plant was issued to the Black River Electric Cooperative in 2000 by the Department's Southeast Regional Office. The treatment plant is a Masterson and Associates package plant, with the original approved engineering plans and technical specifications completed by Schultz Engineering in 2000.

After construction Stone Park will be an extended aeration plant with 6-1,500 gallon tanks for flow equalization, sock filtration, chlorine disinfection and dechlorination to treat a design flow of 8,005 gpd.

##### **3. COMPLIANCE PARAMETERS**

The proposed facility will discharge to a Tributary to Big River, which is a losing stream. A losing stream requires year-round disinfection. The proposed facility underwent Antidegradation Review and has the following effluent limits. The proposed facility is designed for 8,005 gpd.

Parameter	Units	Maximum Daily Effluent Limit	Average Monthly Effluent Limit
Flow	gpd	monitoring only	monitoring only
BOD <sub>5</sub>	mg/L	15	10
TSS	mg/L	15	10
pH	SU	6.5-9.0	6.5-9.0
Ammonia as N-summer	mg/L	3.7	1.4
Ammonia as N-winter	mg/L	7.5	2.9
<i>E. Coli</i>	#colonies/100 mL	126	126
Total Residual Chlorine	µg/L	17	8

The proposed treatment technology is activated sludge facility. As an activated sludge facility, for the treatment technology to work, there must be flow and food for the biological treatment to work. The facility should take steps to ensure appropriate flow and food is reaches the system for compliance with the operating permit. While this is a privately owned facility, and a certified operator is not required, the facility may want to employ one to ensure the treatment system works as designed.

**4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA**

With the aeration in the holding tanks, plus aeration in the treatment plant, that will provide 10,000 to 12,000 gallons of aeration capacity, 24 hours of detention time is provided. Basing average flow in a week as 5,000 gpd, BOD loading would be 16 lbs of BOD per 1000 ft<sup>3</sup>, which is a deviation from 15 lbs of BOD per 1,000 ft<sup>3</sup> required in 10 CSR 20-8.020(13)(B)6A. The limitation in loading is the conversion of ammonia to nitrate, which was calculated to be adequate with an aeration volume of 6,700 gallons.

From Masterson & Associates Specifications, to meet losing stream effluent limits and for ammonia removal a tertiary upflow polishing filter basin is required. NPN Environmental proposed using a sock filter for the additional filtration. At a minimum from the specifications submitted, the media shall consist of DuPont Polyolefin filtration felt of less than 80 micron mesh with a filtration rate not exceeding 0.1 gpm/ft<sup>2</sup> during peak flow.

$$8,005 \text{ gpd} \times 4 = 32,020 \text{ gpd} = 22.4 \text{ gpm}$$

$$22.4 \text{ gpm} / 0.1 \text{ gpm/ft}^2 = 224 \text{ ft}^2$$

To meet disinfection requirements, chlorine disinfection and dechlorination is planned. A Norweco Bio-dynamic chlorination and dechlorination tank. The chlorine disinfection and dechlorination tank is part of the Black River Electric treatment plant. While the chlorinator tank does not meet the 40:1 length to width ratio, it does provide twice the necessary detention time. While the existing system was designed for flow of 5,600 gpd, the tank is large enough to meet the design flow of 8,005 gpd. The chlorination tank has a capacity of 750 gallons, which provides 33.5 minutes of contact time at 22.4 gpm or 133.9 minutes of contact time at 5.6 gpm.

$$\text{Design flow: } 8005 \text{ gpd (5.6 gpm)} \times 15 \text{ minutes} = 84 \text{ gallons of storage}$$

$$\text{Peak flow: } 5.6 \text{ gpm} \times 4 = 22.4 \text{ gpm} \times 15 \text{ minutes} = 336 \text{ gallons of storage}$$

Design sludge production is one dry ton per year and will be removed by contract hauler.

## 5. OPERATING PERMIT

Operating permit MO-0137464 was public noticed from July 25-August 25, 2014. No comments were received on the public notice. This facility may qualify for the MOGD general permit for domestic wastewater. When construction is complete, submit the Statement of Work completed, along with the Form B and the appropriate permit fee of \$300.

If the facility is damaged in its removal from its existing location and a different treatment technology is selected, or if the owner selects a different treatment technology or different design flow is established, the facility may need to go through Antidegradation Review again and the operating permit will need re-public notice.

The facility shall continue to pump and haul domestic wastewater until construction is complete.

Leland Neher, PE/Leasue Meyers, EI  
Engineering Section  
[leasue.meyers@dnr.mo.gov](mailto:leasue.meyers@dnr.mo.gov)

## ***Central Office Administrative Completeness Checklist for Treatment Plants & Sewer Extension Construction Permits***

Facility/Owner/Project Name: Stone Park Resort  
Date: December 31, 2012

### **Correct Forms Submitted (as applicable)**

- Construction Permit form
- Sewer Extension form
- Form A: Nondomestic
- Form B: Domestic < 100, 000 gpd
- Form B2: Domestic ≥100,000 gpd
- Form I: Irrigation

### **Appropriate Fee Received & Coordinate with FMU staff on check prior to deposit**

- \$75 for a sewer extension less than 1,000 feet
- \$300 for a sewer extension 1,000 feet or greater, a pumping station, a force main, an alternative sewer system or an in collection storage project (above ground basin or below ground pipe)
- \$750 for a sewage treatment facility with a design flow < 500,000 gpd.
- \$2,200 for sewage treatment facility with a design flow ≥500,000 gpd.

### **Form signed by appropriate individual:**

- Facility
- Owner
- Continuing Authority

### **For facilities ≥ 22, 500 gpd\* (as applicable)**

- Engineering Report completed & approved
- Facility Plan completed & approved

### **For facilities < 22, 500 gpd (as applicable)**

- Engineering Report
- Facility Plan

### **Submittal includes:**

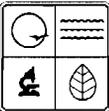
- Antidegradation Report
- Summary of Design
- Plans
- Specifications

\*Facility plans and engineering reports are tracked in  
E:\Eng\ENGINEER UPDATE\Database or on  
T:\Engineering Section\RO and CO Progress Report CP  
Permitting.xlsx

- An incomplete application was received, verified with other programs (SRF, enforcement, drinking water) that they did not receive it.
- The application is inadequate for reviews. Attached is the APPLICATION RETURNED letter. Nothing is entered in MOCWIS.
- The application is considered administratively complete; as there is information provided to allow review to begin and should be forwarded to Review Engineer for technical completeness check and for technical review. Clerical staff will enter the construction permit application in MOCWIS and assign it to the appropriate staff member. Clerical staff will print off the Hello I am Your Permit Writer letter for the review engineer to sign. Technical staff will enter technical completeness check date after they have completed that step in MOCWIS Application tracking.
- The application is not complete, however there is enough information provided to allow a review to begin, and as such should be forwarded to Review Engineer for technical completeness check and for technical review. Clerical staff will enter the construction permit application in MOCWIS, stop the clock, and assign it to the appropriate staff member. Clerical staff will print off the Hello I am Your Permit Writer letter for the review engineer to sign at that time. Technical staff will enter technical completeness check date after they have completed that step in MOCWIS Application tracking.

Unit Chief: Jalal El-Jayyousi

Assigned Review Engineer: Leland Neher



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH  
**FORM B - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT FOR FACILITIES WHICH RECEIVE PRIMARILY DOMESTIC WASTE (≤100,000 gallons per day) UNDER MISSOURI CLEAN WATER LAW**

C10628  
 M00137464

C P 3551449  
 H 214210

FOR AGENCY USE ONLY	
CHECK NUMBER	NO FEE SENT
DATE RECEIVED	9/26/12
FEE SUBMITTED	0

(P)

**NOTE ▶ PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM**

1. This application is for:

- An operating permit and antidegradation review public notice.
- A construction permit following an appropriate operating permit and antidegradation review public notice.
- A construction permit and a concurrent operating permit and antidegradation review public notice.
- A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not required).
- An operating permit for a new or unpermitted facility. Construction Permit # \_\_\_\_\_
- An operating permit renewal: Permit #MO-\_\_\_\_\_. Expiration Date \_\_\_\_\_ SEP 26 2012
- An operating permit modification: Permit #MO-\_\_\_\_\_. Reason: \_\_\_\_\_

RECEIVED

1.1 Is this a Federal/State Funded Project?  YES  NO Funding Agency/Project # \_\_\_\_\_

1.2 Is the appropriate fee included with the application (See instructions for appropriate fee)?  YES \$225  NO

WATER PROTECTION PROGRAM

2. **FACILITY (Outfall of )**

NAME Stone Park Resort		TELEPHONE WITH AREA CODE (573) 518-4994	
ADDRESS (PHYSICAL) 8714 Berry Road	CITY Bonne Terre	STATE MO	ZIP CODE 63628

2.1 **LEGAL DESCRIPTION:** ¼, NW ¼, NW ¼, Sec. 36, T 38N, R 4E County St. Francois

2.2 UTM Coordinates Easting (X): 3757 Northing (Y): 9032  
 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

2.3 Name of receiving stream: \_\_\_\_\_

3. **OWNER**

NAME VMPC Recreational, LLC		E-MAIL ADDRESS VMPC @starband.net	TELEPHONE WITH AREA CODE (573) 518-4994	
ADDRESS 314 North Broadway, Suite 1906	CITY St. Louis	STATE MO	ZIP CODE 63102	

3.1 Request review of draft permit prior to Public Notice?  YES  NO

4. **CONTINUING AUTHORITY: Permanent organization which will serve as the continuing authority for the operation, maintenance and modernization of the facility.**

NAME VMPC Recreational, LLC		TELEPHONE WITH AREA CODE (573) 518-4994		
ADDRESS 314 North Broadway, Suite 1906	CITY St. Louis	STATE MO	ZIP CODE 63102	

5. **OPERATOR**

NAME To be determined	CERTIFICATE NUMBER	TELEPHONE WITH AREA CODE
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6. **FACILITY CONTACT**

NAME Royce Vessell	TITLE Owner	TELEPHONE WITH AREA CODE (573) 578-4994
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7.0 **ADDITIONAL FACILITY INFORMATION**

7.1 Description of facilities (Attach additional sheet if required). Attach a 1" = 2,000' scale U.S. Geological Survey topographic map showing location of all outfalls and downstream landowners. (See Item 9.) See attached Figure 1 - Vicinity Map

7.2 Facility SIC code: \_\_\_\_\_; Discharge SIC code: \_\_\_\_\_; Facility NAICS code: 5511; Discharge NAICS code: 5511

7.3 Number of people presently connected or population equivalent (P.E.) 3 Design P.E. 184  
 Number of units presently connected: Homes \_\_\_\_\_ Trailers 2 Apartments \_\_\_\_\_ Other \_\_\_\_\_  
 Design flow for this outfall: 8005 Total design flow for the facility: 8005GPD Actual flow for this outfall: Varies  
 Commercial Establishment: Daily number of employees working 2 Daily number of customers/guests \_\_\_\_\_

7.4 Length of pipe in the sewer collection system? NA feet/miles (Please denote which unit is appropriate.)

7.5 Does any bypassing occur in the collection system or at the treatment facility?  Yes  No (If yes, attach explanation.)

7.6 Does significant infiltration occur in the collection system?  Yes  No (If yes, attach explanation and proposed repair.)

7.7 Is industrial waste discharged to the facility identified in Item 2?  Yes  No (If yes, see instructions.)

7.8 Will the discharge be continuous through the year?  Yes  No  
 a. Discharge will occur during the following months: \_\_\_\_\_  
 b. How many days of the week will the discharge occur? \_\_\_\_\_

7.9 Is wastewater land applied?  Yes  No (If yes, attach Form I.) See Anti-Degradation Review

7.10 Will chlorine be added to the effluent?  Yes  No Discharge Limits  
 a. If chlorine is added, what is the resulting residual? \_\_\_\_\_ µg/l (micrograms per liter)

7.11 Does this facility discharge to a losing stream or sinkhole?  Yes  No

7.12 Attach a flow chart showing all influents, treatment facilities and outfalls.

7.13 Has a waste load allocation study been completed for this facility?  Yes  No

7.14 List all permit violations, including effluent limit exceedances in the last five years. Attach a separate sheet if necessary.  
 If none, write none. None

<b>8. SLUDGE HANDLING, USE AND DISPOSAL</b>			
8.1	Is the sludge a hazardous waste as defined by 10 CSR 25? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
8.2	Sludge Production, including sludge received from others:    _____ Design Dry Tons/Year    _____ Actual Dry Tons/Year		
8.3	Capacity of sludge holding structures: Sludge storage provided:    _____ cubic feet;    _____ days of storage;    _____ average percent solids of sludge; <input type="checkbox"/> No sludge storage is provided.		
8.4	Type of Storage:	<input type="checkbox"/> Holding tank <input type="checkbox"/> Basin <input type="checkbox"/> Concrete Pad	<input type="checkbox"/> Building <input type="checkbox"/> Other (Please describe)    _____
8.5	Sludge Treatment:	<input type="checkbox"/> Anaerobic Digester <input type="checkbox"/> Storage Tank <input type="checkbox"/> Lime Stabilization	<input type="checkbox"/> Lagoon <input type="checkbox"/> Aerobic Digester <input type="checkbox"/> Air or Heat Drying <input type="checkbox"/> Composting <input type="checkbox"/> Other (Attach description)
8.6	Sludge Use or Disposal:	<input checked="" type="checkbox"/> Land Application <input checked="" type="checkbox"/> Contract Hauler <input type="checkbox"/> Hauled to Another Treatment Facility <input type="checkbox"/> Solid Waste Landfill	<input type="checkbox"/> Surface Disposal (Sludge Disposal Lagoon, Sludge held for more than two years) <input type="checkbox"/> Incineration <input type="checkbox"/> Sludge Retained in Wastewater treatment lagoon <input type="checkbox"/> Other    _____ Attach explanation sheet.
8.7	<b>PERSON RESPONSIBLE FOR HAULING SLUDGE TO DISPOSAL FACILITY</b>		
	<input type="checkbox"/> By Applicant <input checked="" type="checkbox"/> By Others (complete below)		
NAME J. Higgins Plumbing & Septic Company			
ADDRESS 6121 Center Line Drive		CITY French Village	STATE    ZIP CODE MO        63036
CONTACT PERSON J. Higgins		TELEPHONE WITH AREA CODE 573-358-2223	PERMIT NO. MO- G821190
8.8	<b>SLUDGE USE OR DISPOSAL FACILITY</b>		
	<input type="checkbox"/> By Applicant <input checked="" type="checkbox"/> By Others (Please complete below.)		
NAME Matt Soden			
ADDRESS 8940 Snowdell Road		CITY French Village	STATE    ZIP CODE MO        63036
CONTACT PERSON		TELEPHONE WITH AREA CODE 573-358-8829	PERMIT NO. MO- Unknown
8.9	Does the sludge or biosolids disposal comply with federal sludge regulations under 40 CFR 503? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Please attach explanation)		
<b>9. DOWNSTREAM LANDOWNER (S). ATTACH ADDITIONAL SHEETS AS NECESSARY. SEE INSTRUCTIONS.</b>			
NAME Missouri Department of Transportation			
ADDRESS		CITY	STATE    ZIP CODE
<b>10. DRINKING WATER SUPPLY INFORMATION</b>			
10.1	WHAT IS THE SOURCE OF YOUR DRINKING WATER SUPPLY: A. Public supply (municipal or water district water) _____ If public, please give name of the public supply _____ B. Private well <u>  X  </u> C. Surface water (lake, pond or stream) _____		
10.2	Does your drinking water source serve at least 25 people at least 60 days per year (not necessarily consecutive days)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
10.3	Does your supply serve housing which is occupied year round by the same people? This does not include housing which is occupied seasonally? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
11.	I certify that I am familiar with the information contained in the application, that 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 the Missouri Clean Water Law.		
NAME AND OFFICIAL TITLE (TYPE OR PRINT) <i>Roger Vossou (Parent)</i>			TELEPHONE WITH AREA CODE
SIGNATURE <i>Roger L. Vossou</i>			DATE SIGNED <i>9/26/12</i>

**INSTRUCTIONS FOR COMPLETING FORM B  
APPLICATION FOR CONSTRUCTION OR OPERATING PERMITS FOR  
FACILITIES WHICH RECEIVE BASICALLY DOMESTIC WASTE  
(Facilities over 100,000 gallons per day of domestic waste must use FORM B2)**

**(Facilities that receive wastes other than domestic must fill out FORM A and other forms as appropriate)**

1. Check which parameter is applicable. **Do not check more than one item.** Construction and operating permit refer to permits issued by the Department of Natural Resources, Water Protection Program, Water Pollution Branch. Effective Sept. 1, 2008, a facility will be required to use *MISSOURI'S ANTIDegradation Rule AND IMPLEMENTATION PROCEDURE*. For more information, this document is available on the Web at [www.dnr.mo.gov/env/wpp/docs/aip-cwc-appr-050708.pdf](http://www.dnr.mo.gov/env/wpp/docs/aip-cwc-appr-050708.pdf). This procedure will be applicable to new and expanded wastewater facilities and requires the proposed discharge to a water body to undergo a level of Antidegradation Review which documents that the use of a water body's available assimilative capacity is justified.

1.1 Self-explanatory.

- 1.2 An operating permit and antidegradation review public notice requires a Water Quality/Antidegradation Review Sheet to be submitted with the application (No fee required).

**CONSTRUCTION PERMIT FEES** (Please include fee with application.)

\$750 for a sewage treatment facility with a design flow of less than 500,000 gallons per day, or gpd.

\$2,200 for sewage treatment facility with a design flow of 500,000 gpd or more.

**DOMESTIC OPERATING PERMIT FEES** (Annual operating permit fees are based on flow and are due each year on the anniversary date of the permit.)

Annual fee/Design flow	Annual fee/Design flow	Annual Fee/Design flow
\$100.....<5,000 gpd	\$375..... 10,000-10,999 gpd	\$650..... 16,000-16,999 gpd
\$150.....5,000-5,999 gpd	\$400..... 11,000-11,999 gpd	\$800..... 17,000-19,999 gpd
\$175..... 6,000-6,999 gpd	\$450..... 12,000-12,999 gpd	\$1,000..... 20,000-22,999 gpd
\$200..... 7,000-7,999 gpd	\$500..... 13,000-13,999 gpd	\$2,000..... 23,000-24,999 gpd
\$225..... 8,000-8,999 gpd	\$550..... 14,000-14,999 gpd	\$2,500..... 25,000-29,999 gpd
\$250..... 9,000-9,999 gpd	\$600..... 15,000-15,999 gpd	\$3,000..... 30,000 gpd -1 mgd

New domestic wastewater treatment facilities must submit the annual fee with the original application.

**If the application is for a site-specific permit re-issuance, send no fees.** You will be invoiced separately by the department on the anniversary date of the original permit. Permit fees must be current for the department to reissue the operating permit. Late fees of 2 percent per month are charged and added to outstanding annual fees.

**PUBLIC SEWER SYSTEM OPERATING PERMIT FEES** (City, Public Sewer District, Public Water District, or other publicly owned treatment works). Annual fee is based on number of service connections. The table of fees is in 10 CSR 20-6.011 and is available at [www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf](http://www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf). New Public Sewer System facilities should not submit any fee as the department will invoice the permittee.

**OPERATING PERMIT MODIFICATIONS**, including transfers, are subject to the following fees:

- a. Municipals - \$200 each
- b. All others - 25 percent of annual fee

Note: Facility name or address changes where owner, operator and continuing authority remain the same are not considered transfers. Incomplete permit applications or related engineering documents will be returned by the department if they are not completed in the time frame established by the department in a comment letter to the owner. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.

2. If the facility has multiple outfalls, designate the outfall number and total number and use a separate form for each outfall. Name of Facility - The name by which is this facility locally known. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Give the street address or location of the facility. If the facility lacks a street name or route number, give the names of the closest intersection, highway, country road, etc.
  - 2.1 Point of discharge should be given in terms of the legal description of the waste treatment plant. Sufficient information should be submitted that it may be located by department staff.
  - 2.2 Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers that a GPS receiver is used at the outfall pipe and the displayed coordinates submitted. If access to a GPS receiver is not available, use a mapping system to approximate the coordinates; the department's mapping system is available at [www.dnr.mo.gov/internetmapviewer/](http://www.dnr.mo.gov/internetmapviewer/).
  - 2.3 Receiving stream(s) - Include the name of the stream or streams to which the discharge is directed and any subsequent tributary until a continuous flowing stream is reached.
3. Owner - Include the legal name and address of the owner.
  - 3.1 Prior to submitting a permit to public notice, the Department of Natural Resources shall provide the permit applicant 10 days to review the draft permit for nonsubstantive drafting errors. In the interest of expediting permit issuance, permit applicants may waive the opportunity to review draft permits prior to public notice. Check yes to review the draft permit prior to public notice. Check no to waive the process and expedite the permit.
4. Continuing Authority - Include the permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the facility. The regulatory requirement regarding continuing authority is available at [www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf](http://www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf) or contact the appropriate Department of Natural Resources Regional Office.
5. Operator - Provide the name, certificate number and telephone number of the operator of the facility.
6. Provide the name, title and work telephone number of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by the department, if necessary.

**INSTRUCTIONS FOR COMPLETING FORM B**  
**APPLICATION FOR CONSTRUCTION OR OPERATING PERMITS FOR**  
**FACILITIES WHICH RECEIVE BASICALLY DOMESTIC WASTE**  
**(CONTINUED)**

- 7.1 Provide a brief description of the wastewater treatment facilities. Attach a 1"=2,000' scale U.S. Geological Survey topographic map showing location of all outfalls. This type of map is available on the Web at [www.dnr.mo.gov/internetmapviewer/](http://www.dnr.mo.gov/internetmapviewer/) or from the Department of Natural Resources' Division of Geology and Land Survey in Rolla, Missouri at 573-368-2125.
- 7.2 For Standard Industrial Codes, visit [www.osha.gov/pls/imis/sicsearch.html](http://www.osha.gov/pls/imis/sicsearch.html) and for the North American Industry Classification System at [www.census.gov/naics](http://www.census.gov/naics) or contact the appropriate Department of Natural Resources Regional Office. For example, a family style restaurant has a Facility SIC code of 5812 and a Facility NAICS code of 722210.
- 7.3 Indicate the total number of people presently served by the wastewater treatment facility. If this is a commercial establishment, indicate the number of employees and the number of guests or patrons served by the wastewater treatment facility on a daily basis.
- 7.4 Self-explanatory.
- 7.5 Include overflows of combined sewers and lift stations or bypassing of the wastewater treatment facility. Provide a detailed description of the circumstances that sewage bypassing occurs and the frequency of occurrence.
- 7.6 Self-explanatory.
- 7.7 Attach a list of industrial discharges into the system. For each industry, provide the name of facility, address, flow, type of industry/SIC code/ NAICS code and a list of the pollutants discharged by that industry into the collection system.
- 7.8 - 7.14 Self-explanatory.
- 8.1 A copy of 10 CSR 25 is available on the Web at [www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-25](http://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-25) or at the Department of Natural Resources Regional Offices.
- 8.2 - 8.8 Self-explanatory.
- 8.9 Refer to University of Missouri Extension Environmental Quality publications about biosolids - numbers WQ420-426. Available on the Web at [extension.missouri.edu/explore/envqual/](http://extension.missouri.edu/explore/envqual/). In addition, the federal sludge regulations are available through the U.S. Government Printing Office at [www.gpoaccess.gov/cfr/index.html](http://www.gpoaccess.gov/cfr/index.html).
9. Provide the name and address of the first downstream landowner, different from that of the permitted facility, through whose property the discharge will flow. For discharges that leave the permitted facility and flow under a road or highway, or along the right-of-way, the downstream property owner is the landowner that the discharge flows to after leaving the right-of-way.
10. - 10.3 Self - explanatory.
- Signature - All applications must be signed as follows and the signatures must be **original**:
- a. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
  - b. For a partnership or sole proprietorship, by a general partner or the proprietor.
  - c. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

This completed form, along with the applicable permit fees, should be submitted to the appropriate Regional Office. Submittal of an incomplete application may result in the application being returned. Map of regional offices with addresses and phone numbers can be viewed on the web at [www.dnr.mo.gov/regions/ro-map.pdf](http://www.dnr.mo.gov/regions/ro-map.pdf). If there are any questions concerning this form, please contact the appropriate Regional Office or the Department of Natural Resources, Water Protection Program, Water Pollution Branch, NPDES Permits and Engineering Section at 573-751-6825.