STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Kevin M. Kennedy, Owner Moonies Resort 296 Bakers Ln Climax Springs, MO 65324-2208

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 13, 2023 Effective Date

October 12, 2025 Expiration Date

John Hoke, Director Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Construction of a 2,000-gallon septic tank, a 1,500-gallon pump tank, approximately 320 feet of two-inch schedule 40 PVC force main, and a four-zone low-pressure pipe subsurface absorption system to serve a four-unit apartment condominium with a design average flow of 720 gpd.

This project will include general site work appropriate to the scope and purpose of the project and all necessary appurtenances to make a complete and usable wastewater treatment facility.

II. COST ANALYSIS FOR COMPLIANCE

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a "finding of affordability" on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

The Department is not required to complete a cost analysis for compliance because the facility is not a combined or separate sanitary sewer system for a publically-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 consistent with plans and specifications signed and sealed by James O. Jackson, Jr., with Lake Professional Engineering Services, Inc., and as described in this permit.
- 3. The Department must be contacted in writing prior to making any changes to the 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(11).

- 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 Central Field Operations Office per 10 CSR 20-7.015(9)(G).
- 5. The completed project shall be field tested to verify actual pumped volume of each dose. The timer controls shall be set to ensure a dosing rate not to exceed the allowable rate of 0.2 gallons per day per square foot.
- 6. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred (100)-year flood elevation per 10 CSR 20-8.140(2)(B). The minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300') per 10 CSR 20-8.140(2)(C)1.
- 7. 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 will only be obtained by means of the Department's ePermitting system available online at <u>dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem</u>. See <u>dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting</u> for more information.
- 8. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.
 - Facilities shall be readily accessible by authorized personnel from a public right–ofway at all times. 10 CSR 20-8.140(2)(D); 10 CSR 20-8.130(2)(B)
 - The distance between wastewater pumping stations and all potable water sources shall be at least fifty feet (50') in accordance with 10 CSR 23-3.010(1)(B). 10 CSR 20-8.130(2)(D)
 - Electrical equipment. Electrical equipment shall be provided with the following requirements:
 - 10 CSR 20-8.130(3)(B)2. A. Electrical equipment must comply with 10 CSR 20-8.140(7)(B);
 - Utilize corrosive resistant equipment located in the wet well; 10 CSR 20-8.130(3)(B)2. B.
 - Provide a watertight seal and separate strain relief for all flexible cable; 10 CSR 20-8.130(3)(B)2. C.
 - Install a fused disconnect switch located above ground for the main power feed for all pumping stations. 10 CSR 20-8.130(3)(B)2. D.
 - When such equipment is exposed to weather, it shall comply with the requirements of weather proof equipment; enclosure NEMA 4; NEMA 4X where necessary; and *NEMA Standard 250-2014*, published December 15, 2014. 10 CSR 20-8.130(3)(B)2. E.
 - Install lightning and surge protection systems; 10 CSR 20-8.130(3)(B)2. F.
 - Install a one hundred ten volt (110 V) power receptacle inside the control panel located outdoors to facilitate maintenance; 10 CSR 20-8.130(3)(B)2. G.

- Provide Ground Fault Circuit Interruption (GFCI) protection for all outdoor receptacles. 10 CSR 20-8.130(3)(B)2. H.
- Water level controls must be accessible without entering the wet well. 10 CSR 20-8.130(3)(C)
- Valves shall not be located in the wet well unless integral to a pump or its housing. 10 CSR 20-8.130(3)(D)
- Force main system shall be designed to withstand all pressures (including water hammer and associated cyclic reversal of stresses), and maintain a velocity of at least two feet (2') per second. 10 CSR 20-8.130(8)(A)
- All wastewater treatment facilities shall be provided with an alternate source of electric power or pumping capability to allow continuity of operation during power failures. 10 CSR 20-8.140(7)(A)1.
- Electrical systems and components in raw wastewater or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors that are normally present, shall comply with the NFPA 70 *National Electric Code (NEC)* (2017 Edition), as approved and published August 24, 2016, requirements for Class I, Division 1, Group D locations. 10 CSR 20-8.140(7)(B)
- An audiovisual alarm or a more advanced alert system, with a self-contained power supply, capable of monitoring the condition of equipment whose failure could result in a violation of the operating permit, shall be provided for all wastewater treatment facilities. 10 CSR 20-8.140(7)(C)
- No piping or other connections shall exist in any part of the wastewater treatment facility that might cause the contamination of a potable water supply. 10 CSR 20-8.140(7)(D)1.
- A means of flow measurement shall be provided at all wastewater treatment facilities. 10 CSR 20-8.140(7)(E)
- Adequate provisions shall be made to effectively protect facility personnel and visitors from hazards. 10 CSR 20-8.140(8) ; 10 CSR 20-8.130(2)(C)
- All wastewater treatment facilities must have a screening device, comminutor, or septic tank for the purpose of removing debris and nuisance materials from the influent wastewater. 10 CSR 20-8.150(2)
- Subsurface systems shall—
 - Exclude unstabilized fill and soils that have been highly compacted and/or disturbed, such as old road beds, foundations, or similar things; 10 CSR 20-8.200(7)(A)1. A.
 - Provide adequate surface drainage where slopes are less than two percent (2%); 10 CSR 20-8.200(7)(A)1. B.
 - Provide surface and subsurface water diversion where necessary, such as a curtain or perimeter drain; 10 CSR 20-8.200(7)(A)1. C. and
 - Have a ten foot (10') buffer from the property line. 10 CSR 20-8.200(7)(A)1. D.
- The vertical separation between the bottom of the drip lines and/or the trench and a limiting layer, including but not limited to, bedrock; restrictive horizon; or seasonal high water table, shall be no less than:
 - Twenty-four inches (24"); 10 CSR 20-8.200(7)(A)2. A. or
 - Twelve inches (12") for systems dispersing secondary or higher quality effluent; 10 CSR 20-8.200(7)(A)2. B. or

- Forty-eight inches (48") where karst features are present unless the site can be reclassified. 10 CSR 20-8.200(7)(A)2. C.
- Subsurface systems shall be, at a minimum, preceded by preliminary treatment. 10 CSR 20-8.200(7)(B)
- Loading rates shall not exceed the values assigned by the site and soil evaluation. 10 CSR 20-8.200(7)(C)
- All network piping and low pressure distribution piping and fittings with polyvinyl chloride (PVC) shall meet ASTM Standard D 1785 *Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, or 120* as approved and published August 1, 2015, or equivalent rated to meet or exceed ASTM D2466 *Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings* as approved and published August 1, 2017. These standards shall hereby be incorporated by reference into this rule, as published by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. This rule does not incorporate any subsequent amendments or additions. 10 CSR 20-8.200(8)(A)2.
- Manifold design for LPP systems shall address freeze protection while assuring uniform distribution and to minimize drain down of laterals into other laterals at a lower elevation between dosing events. 10 CSR 20-8.200(8)(A)3.
- The orifice number and spacing shall be designed to provide a distribution of no more than six square feet per orifice with an orifice size of not less than one-eighth inch. 10 CSR 20-8.200(8)(C)1.
- 9. Upon completion of construction:
 - A. Kevin Kennedy will become the continuing authority for operation and maintenance of these facilities;
 - B. Submit an electronic copy of the as-built plans if the project was not constructed in accordance with previously submitted plans and specifications; and
 - C. Submit the Statement of Work Completed form to the Department in accordance with 10 CSR 20-6.010(5)(N) (<u>dnr.mo.gov/document-search/wastewater-construction-statement-work-completed-mo-780-2155</u>) and request the operating permit modification, public noticed on September 1, 2023, be issued.

IV. <u>REVIEW SUMMARY</u>

1. CONSTRUCTION PURPOSE

A new four-unit apartment condominium is being constructed and needs wastewater treatment.

2. FACILITY DESCRIPTION

The operating location has four existing subsurface absorption fields of unknown or unverified design. This additional absorption system brings the design flow above the flow required for a change of jurisdiction to the Department of Natural Resources. The new treatment system includes a 2,000-gallon septic tank and 1,500-gallon pump tank (pump capable of 30.5 gpm at 108 feet of total dynamic head), which pumps raw wastewater from the new apartment complex to a low-pressure pipe (LPP) absorption system. The LPP system includes four zones each with three 75-foot lateral lines.

Moonies Resort is located at 296 Bakers Lane, outside of Climax Springs, in Camden County, Missouri. The new LPP system has a design average flow of 720 gpd and serves a hydraulic population equivalent of approximately 7.2 people. All five absorption systems at the operating location have an estimated combined flow of approximately 3,610 gpd.

3. <u>COMPLIANCE PARAMETERS</u>

The proposed project is a subsurface absorption system and does not discharge directly to waters of the state. However, the July 31, 2023, geohydrologic evaluation stated, in part –

"The bedrock exhibits moderate to high permeability. The surficial materials are gravelly silt underlain by blocky, red clay residuum which is derived from the underlying bedrock. Surficial materials are at least 3 feet thick and are most likely less than 8 feet thick. There are multiple drinking water wells located within 1/4 mile of the site.

Based on the geologic and hydrologic characteristics observed, the sites potential for contamination of groundwater by subsurface soil absorption of wastewater is significant. Due to the thickness and permeability of the underlying bedrock and surficial materials, if treatment failure is to occur, the local, shallow, and regional groundwater aquifer may be adversely impacted, as well as the surface waters of Lake of the Ozarks."

The design of any wastewater treatment system must provide for the protection of groundwater, including public and private wells, and of lakes. [10 CSR 20-8.110(5)(E)6.H.; 10 CSR 20-7.015(9)(B)] As such, the operating permit will include initial monitoring for *E. coli* bacteria as an indicator organism at the private drinking water well and at two locations in the lake to determine the potential contamination. [10 CSR 20-6.015(2)(B)]

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

Construction will cover the following items:

• Septic Tank and Pump Tank – A septic tank provides passive primary treatment as the settleable solids in raw wastewater settle onto the bottom of the tank. Raw wastewater will flow by gravity to the 2,000-gallon one-compartment septic tank. When the water level reaches a certain height, the wastewater flows into the 1,500-gallon pump tank by a screened tee-drop pipe. One screened simplex ¹/₂-HP pump, capable of 30.5 gpm at 108 ft of TDH, is located in the pump tank. Wastewater will be pumped through approximately 320 feet of two-inch schedule 40 PVC force main. The pumped wastewater shall discharge via a four-way Hydrotek valve into a four-zone, low-pressure pipe, subsurface absorption system.

- The septic tanks provide approximately 2.7 days of detention at design average flow (4 apartment units x 60 gpd/person x 3 people per unit = 720 gallons per day; 2,000 gallons/720 gallons = 2.7 days).
- Settled solids in the septic tank shall be removed by a contract hauler.
 - Annually 0.010 dry tons per year of solids is expected in the septic tanks.
 - An audiovisual alarm will be installed for the pump tank to notify the owner that service is needed.
- Flow Measurement Installation of accurate flow measurement devices will give the treatment facility a means of improved data analysis.
 - Flow can be measured using the pump's counter and verified with monthly water records. This measurement device does not include flow totalizing or recording.
- Wastewater Irrigation
 - Subsurface Soil Dispersal System The soils at this site are rated for 0.2 gpd/sf. Soil morphology review was conducted during the construction permit application review and on site soils were determined to be acceptable for this system. The soil investigation was completed by Melissa Bettes, Certified Soil Scientist, on May 4, 2023.
 - Soils Report. In the soils investigation, one pit was dug over the proposed site. This is an update to an earlier soils investigation from February 21, 1998, when the previous Soil Scientist Duane Viele dug four pits and showed an application rate for conventional systems of 0.40 gallons per day per square foot.
 - The updated soil test pit was located adjacent to the proposed absorption area and had a surface soil that was described as granular silt loam and sandy clay loam with an application rating for an LPP system of 0.2 gallons per day per square foot to a depth of at least 36 inches.
 - Low-Pressure Piping (LPP) The low-pressure piping is divided into four zones with three 1¹/₄" lines per zone and 75 linear feet of distribution laterals per line (225 ft per zone, 900 ft total), contained within a 10-inch EZ*flow*[®] bundle using a geosynthetic aggregate.
 - The end of each line contains a 4-inch capped clean out.
 - The lateral spacing is 5-foot on center with the ⁵/₃₂" orifices spaced 5-feet apart, for 15 orifices per lateral line.
 - The total area needed for loading is 3,600 square feet and there is 4,500 square feet available.
- Emergency Power During a power outage, the owner will rent a generator as needed to pump sewage to the LPP system.

5. **OPERATING PERMIT**

The newly-drafted operating permit for Moonies Resort, MO-0140252, was successfully public noticed from September 1, 2023, to October 2, 2023, with no comments received. Upon completion of construction, submit the Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N) and request the operating permit modification be issued.

Moonies Resort does not qualify for the MOG823 master general operating permit issued on August 25, 2022, due to not meeting the setbacks for subsurface systems. Specifically, some of the existing subsurface systems are within 300 feet upstream of a privately owned well and within 100 feet of a public lake. One absorption field is approximately 48 feet from the Lake of the Ozarks. At least two of the absorption fields are within 300 feet of the private well.

V. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to Section 621.250 RSMo. To appeal, you must file a petition with the AHC 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 AHC. Any appeal should be directed to:

Administrative Hearing Commission U.S. Post Office Building, Third Floor 131 West High Street, P.O. Box 1557 Jefferson City, MO 65102-1557 Phone: 573-751-2422 Fax: 573-751-5018 Website: ahc.mo.gov

Scott Adams, P.E. Engineering Section scott.adams@dnr.mo.gov



MISSOURI DEPARTMENT OF NATURAL RESOUR RECEIVED WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT 7 2023 WASTEWATER TREATMENT FACILITY

Water Protection Program

CP0002	360 51						
FOR DEPARTMENT USE ONLY							
APP NO.	CP NO.						
FEE RECEIVED	CHECK NO.						
DATE RECEIVED	22						

APPLICATION OVERVIEW
The Application for Construction Permit – Wastewater Treatment Facility form has been developed in a modular format and consist of Part A and B. All applicants must complete Part A. Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.
PART A – BASIC INFORMATION
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 V/A Funding Agency: Project #:
1.2 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review? ☐ YES Date of Approval:
1.3 Has the department approved the proposed project's facility plan*? ☐ YES Date of Approval:
 1.4 [Complete only if answered No on No. 1.3.] Is a copy of the facility plan* for wastewater treatment facilities included with this application? ✓ YES □ NO □ Exempt because
 1.5 Is a copy of the appropriate plans* and specifications* included with this application? ✓ YES Denote which form is submitted:
1.6 Is a summary of design* included with this application? 🔽 YES 🔲 NO
 1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the department? YES Date of submittal: Enclosed is the appropriate operating permit application and fee submittal. Denote which form: □ A □ B □ B2 N/A: However, In the event the department believes that my operating permit requires revision to permit limitation such as changing equivalent to secondary limits to secondary limits or adding total residual chlorine limits, please share a draft copy prict to public notice? □ YES ☑ NO
1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency? 🔲 YES 📈 NO
1.9 Is the appropriate fee or JetPay confirmation included with this application?
* Must be affixed with a Missouri registered professional engineer's seal, signature and date.
2.0 PROJECT INFORMATION
2.1 NAME OF PROJECT 2.2 ESTIMATED PROJECT CONSTRUCTION COST
2.3 PROJECT DESCRIPTION
New Low Pressure pipe subsurface system for (4) 2 bedroom apartments
2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION
Septic tanks - Contracted Hauler
2.5 DESIGN INFORMATION
A. Current population: <u>12</u> ; Design population: <u>12</u>
B. Actual Flow: <u>960</u> gpd; Design Average Flow: <u>960</u> gpd; Actual Peak Daily Flow: <u>960</u> gpd; Design Maximum Daily Flow: <u>960</u> gpd; Design Wet Weather Event: <u>960</u>
2.6 ADDITIONAL INFORMATION
A. Is a topographic map attached?
B. Is a process flow diagram attached? YES NO
IO 780-2189 (02-19) Page 1 of

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		573-345-1220	STATE	7IP CODE	1	COLINEY	
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3.1 Legal Description:¼,¼ (Use additional pages if construction of more	than one of	¼, Sec, T utfall is proposed.)	_, R	_			
3.2 UTM Coordinates Easting (X): For Universal Transverse Mercator (UTM), Zo	Northin	g (Y): h referenced to North Ame	rican Datum 1	983 (NAD83)			
3.3 Name of receiving streams: None							
4.0 PROJECT OWNER							
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ADDRESS	CITY	010-040-1220	STATE	ZIPCODE			
296 Bakers Lane	Climax S	Springs	MO	65324	65324		
5.0 CONTINUING AUTHORITY: A continui	ng authori	ity is a company, busine	ss, entity or	person(s) that	at will be op	perating th	he facil
Anaror ensuring compliance with the permit r	equiremen	TELEPHONE NUMBER WITH A	REA CODE	E-MAIL ADDR	ESS		
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5.1 A letter from the continuing authority, if c	lifferent th	an the owner, is include	d with this ap	oplication.			√ N//
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