

FINNEGAN, CONRAD & PETERSON, L.C.

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**JEREMIAH FINNEGAN, P.C.
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***ALSO ADMITTED IN
KANSAS AND MASSACHUSETTS**

December 16, 2005

Ms. Cully Dale
Secretary/Chief Regulatory Law Judge
Missouri Public Service Commission
P.O. Box 360
Jefferson City, MO 65102

**RE: Case No. SA-2005-0467 - Timber Creek Sewer Company
DNR Construction Permit No. 21-8404**

Dear Ms. Dale:

Enclosed for filing in the case papers of the above-named case find the notification letter from the DNR and the attached Construction Permit for the sewer system to be constructed to serve the Johnson Ridge Subdivision in Clay County.

Very truly yours,

FINNEGAN, CONRAD & PETERSON, L.C.

By:


Jeremiah D. Finnegan

JDF:crb

Enclosures

cc: Willis Sherry
Office of the Public Counsel
Keith Krueger

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FILED²

DEC 22 2005

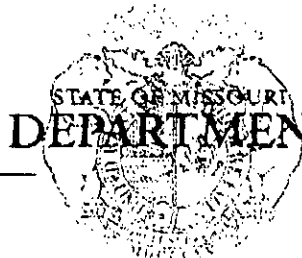
Missouri Public
Service Commission

Johnson Ridge WWTF
Clay County
MO-0132110

FILED²

DEC 22 2005

Missouri Public
Service Commission



Matt Blunt, Governor • Doyle Childers, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

December 2, 2005

Mr. Michael Johnson
Michael Johnson Development
12601 North Agness
Kansas City, MO 64166

Dear Mr. Johnson:

Your application for wastewater works to serve the Johnson Ridge development have been approved by the Department of Natural Resources as evidenced by Construction Permit Number 21-8404.

This permit will expire one year from the date of issuance unless justification for extension is presented thirty (30) days prior to expiration.

In addition to the requirements for a construction permit, land disturbance activities of one acre or more require a Missouri State Operating Permit to discharge storm water (10 CSR 20-6.200). The permit requires Best Management Practices sufficient to control runoff and sedimentation to protect waters of the state. To obtain this permit, submit Missouri Forms E and G and a permit fee of \$300.00 to the Missouri Department of Natural Resources, Kansas City Regional Office, 500 Northeast Colbern Road, Lee's Summit, Missouri 64086.

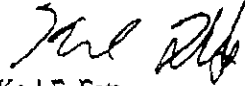
Following completion of construction please submit the following:

1. Form B - Application for Operating Permit signed by an officer having responsibility for the overall operation of the regulated facility.
2. The first annual permit fee of \$3000.
3. The enclosed engineering certification form.

If you have any questions, please contact the Kansas City Regional Office at 500 Northeast Colbern Road, Lee's Summit, Missouri 64086, telephone number (816) 622-7000. Thank you.

Sincerely,

KANSAS CITY REGIONAL OFFICE


Karl F. Fett
Interim Regional Director

KFF/tbj

Enclosures

c: Mr. Wilbur M. Souders, P.E., Aylett

Clay County
Michael Johnson Development 21-8404
Johnson Ridge WWTF MO-0132110

LAWATER POLLUTION\TLB\CP-TP\21-8404 Johnson Ridge.doc



Recycled Paper

Michael Johnson Development
Activated Sludge

Permit #21-8404
Kansas City

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:
Mr. Michael Johnson
12601 North Agness
Kansas City, MO 64166

for the construction of (described facilities):

SEE ATTACHED DESCRIPTION OF FACILITIES:

Permit Conditions:

SEE ATTACHED SEWER EXTENSION CONDITIONS:

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.

As the Department of Natural Resources 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.

December 2, 2005
Effective Date

December 2, 2006
Expiration Date

MO 780-1151 (05-00)
\$750 filing fee paid

Doyle Childers

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Karl F. Felt

Karl F. Felt, Interim Regional Director
Kansas City Regional Office

WOP 3.04
Rev. 05-00

DESCRIPTION OF FACILITIES

Treatment Facilities:

Installation of an Aero-Mod prefabricated Wastewater Treatment Plant with a 1,500-gallon pretreatment tank, surge tank, two aeration tanks, one clarifier, anaerobic digester, two blowers and UV disinfection equipment with all required appurtenances as specified in the plans and specifications to make this a complete and usable treatment facility.

Collection System:

The collection system consists of 40 linear feet of a 4-inch PVC force main; 710 linear feet of a 3-inch PVC force main; 5,805 linear feet of a 2.5-inch PVC force main; 5,020 linear feet of a 2-inch PVC force main; and 3,235 linear feet of a 1.5-inch PVC force main.

This treatment facility will serve Johnson Ridge Subdivision, which has a design population equivalent of 396 with a design flow of 40,000 gallons per day, is located in the SW 1/4, SE 1/4 of Section 4, T 52 N, R 32 W, in Clay County, Missouri, and will discharge to an unnamed tributary to Brushy Creek.

PERMIT CONDITIONS

1. In accordance with 10 CSR 20-8.140(8)(G) flow measurement facilities shall be provided at all plants. Indicating, totaling and recording flow measurement devices shall be provided for all mechanical plants. Type of flow measurement facilities will need to be included on the as-built plans.
2. The Department of Natural Resources, Division of Environmental Quality (DEQ) has not conducted a detailed review of the plans and specifications submitted for this project. The design engineer, being a registered engineer in the state of Missouri, is responsible for the safety as well as the physical, chemical, and biological integrity of the design. It is the responsibility of the owner and the engineer to insure the facilities built under this permit meet the state regulation on effluent limitations 10 CSR 20-7.015 and the design guides 10 CSR 20-8.110 through 8.200. All plans and specifications shall bear the seal of the engineer and contain a statement they comply with the requirement of the Clean Water Regulation.
2. Any facility built under this permit must meet the limits established in the NPDES permit. Facilities failing this requirement shall be corrected immediately or the operating permit shall be revoked and the owner subject to litigation, if the discharge continues.
3. In accordance with 10 CSR 20-8.120(6)(G) 5. deflection tests shall be performed on all flexible gravity sewer pipe.
 - A. The test shall run not less than 30 days after final backfill has been placed. No pipe shall extend a deflection of 5%. If a rigid ball or mandrel is used, it shall have a diameter equal to 95% of the inside diameter of the pipe and mechanical pulling devices shall not be used.
4. In accordance with 10 CSR 20-8.120(6)(H) 2. leakage tests, including water or low-pressure air testing, shall be specified. In accordance with RSMo 644.026.1(12), "...manholes and polyvinyl chloride (PVC) pipe used for gravity sewers and with a diameter no greater than twenty-seven inches shall not be required to be tested for leakage." The testing method selected should take into consideration the range in groundwater elevations projected and the situation during the test.
 - A. The leakage outward or inward (exfiltration or infiltration) shall not exceed 200 gallons of water per inch of pipe diameter per mile per day or 0.19 cubic meters per centimeter of pipe diameter per kilometer per day for any section of the system. A test shall be performed with a minimum positive head of 2 feet or 0.61 meters. For the purpose of leakage tests, manholes shall be considered pipe of equivalent diameter and shall be tested by an appropriate test method.
 - B. The low-pressure air test shall conform to the testing procedures described in ASTM F1417-92, entitled *Standard Test Method for Installation Acceptance of Plastic Gravity Sewer Lines Using Low-Pressure Air*.
5. In accordance with 10 CSR 20-8.120(11) 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 sewage or polluted water into the potable supply. Water lines shall be identified on the drawings.

Engineering Certification

Department of Natural Resources
Kansas City Regional Office
500 Northeast Colbern Road
Lee's Summit, Missouri 64086

1. Name of Project _____
2. Location of Project _____
3. Constructed Under Construction Permit Number: _____

4. Brief Description:

5. **Certification:** I am a Missouri registered professional engineer and hereby certify that I have inspected these facilities and find them to be constructed essentially in accordance with the construction permit conditions and approved plans and specifications. I recommend acceptance and approval by the Missouri Clean Water Commission.

Project Engineer's Signature

Date

Printed Name