



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

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

MAR 26 2014

Mr. Richard Webber, President
Monroe County PWSD #2
23504 Highway 24
Paris, MO 65275

RE: Conversion to a no-discharge system -- Holliday Wastewater Treatment Facility,
MO-0126951, Construction Permit No. CP-0001636

Dear Mr. Webber:

The Missouri Department of Natural Resources' (Department) Water Protection Program has reviewed the plans and specifications submitted by Klingner & Associates, P.C., for the Monroe County PWSD #2. Please find enclosed Construction Permit No. CP0001636.

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 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.

This construction permit does not supersede any requirements of the operating permit or enforcement actions. Nothing in this permit removes any obligations to comply with county or other local ordinances or restrictions.

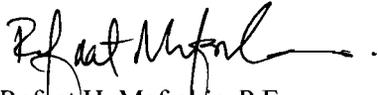
If you were adversely affected by this decision, you may appeal to have the matter heard by the Administrative Hearing Commission. To appeal, you must file a petition with the Administrative Hearing Commission within 30 days after the date this decision was mailed or the date it was delivered, whichever 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.

If you have any questions concerning this matter, please contact Cindy LePage, P.E., of the Water Protection Program, at (573) 751-6618 or Missouri Department of Natural Resources, 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

A handwritten signature in black ink, appearing to read "Refaat Mefrakis", with a horizontal line extending to the right.

Refaat H. Mefrakis, P.E.
Engineering Section Chief

RHM:ig

Enclosures

c: Mr. Mark Bross, P.E., Klingner & Associates, P.C.

MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Mr. Richard Webber, President
Monroe County PWS #2
23504 Highway 24
Paris, MO 65275

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 26, 2014
Effective Date

March 25, 2015
Expiration Date

Sara Parker Pauley, Director, Department of Natural Resources

Director of Staff, Clean Water Commission or Designee

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

This construction permit is an extension to CP0001183 that was issued on February 17, 2012 and extended to expire on February 16, 2014. Construction is not complete due to a delay in receiving expected grant funds necessary to complete the project. Construction is underway and expected to be completed before this permit expires.

The original construction permit stated:

FACILITY DESCRIPTION:

This project includes the construction of a fixed network irrigation system, irrigation pump station, and lagoon effluent force main. All construction shall be in accordance with the approved plans and specifications and be appropriate to the scope and purpose of the project. These wastewater facilities will become the Holliday WWTF and operate under the proposed Missouri State Operating Permit #MO-0126951.

IRRIGATION PUMP STATION:

The irrigation pump station shall consist of dual centrifugal pumps, each capable of pumping at least 225 gallons per minute against a total dynamic head of at least 289 feet. The pumps shall be operated by a variable frequency drive and include a self-cleaning pump suction screen. In addition, the system shall include a vertical pressure maintenance pump.

IRRIGATION SYSTEM PIPING AND SPRINKLERS:

The water will be pumped from the third lagoon cell to the irrigation field through approximately 600 lineal feet of six-inch (6") Polyvinyl Chloride (PVC) pipe (Standard Dimension Ratio (SDR) 21). The water will then be pumped to the irrigation spray heads through approximately 2,050 lineal feet of four-inch (4") (SDR 21) PVC pipe, about 35 feet of two and one-half-inch (2.5") PVC (SDR 21) pipe, approximately 1,200 lineal feet of two-inch (2") PVC (SDR 21) pipe, approximately 1,600 lineal feet of one and one-half-inch (1.5") PVC (SDR 21) pipe, in addition to approximately two air/vacuum release valves. The system shall include approximately 56 sprinklers, spaced approximately 70 feet apart over an approximately 8.2-acre field. The system shall also include all of the necessary appurtenances to make this a complete and usable system. The project will also include general site work appropriate to the scope and purpose of the project.

II. FINDING OF AFFORDABILITY

An Affordability Determination and Finding was performed in accordance with RSMO §644.145 and was public noticed with construction permit CP0001183. This construction permit is allowing more time to complete the project already under construction.

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 Consulting Firm on Received DATE.
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 XX 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. See 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/ for more information.
10. Upon completion of construction;
 - A. The Monroe County PWSD No. 2 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 builts if the project was not constructed in accordance with previously submitted plans and specifications; and
 - D. Submit a Form B - Application for Construction or 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>.

Land application facilities do not have ammonia effluent limits in their operating permit.

2. FACILITY DESCRIPTION

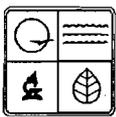
This project includes the construction of a fixed network irrigation system, irrigation pump station, and lagoon effluent force main. All construction shall be in accordance with the approved plans and specifications and be appropriate to the scope and purpose of the project. These wastewater facilities will become the Holliday WWTF and operate under the proposed Missouri State Operating Permit #MO-0126951.

3. OPERATING PERMIT MODIFICATION

Operating permit MO-0126951 will require a modification to reflect the construction activities. Upon construction completion, submit a modification fee and Form B - Application for an Operating Permit for Domestic or Municipal Wastewater ($\leq 100,000$ gallons per day).

Review Engineer: Cindy LePage, P.E.
Unit Chief Approval: Refaat Mefrakis
Date: March 17, 2014

CP0001636
AP17880 C12996



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

| FOR AGENCY USE ONLY | |
|---------------------|----------|
| CHECK NUMBER | 4593 |
| DATE RECEIVED | 3/12/14 |
| FEES SUBMITTED | \$750.00 |

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.

An operating permit renewal: Permit #MO- _____

An operating permit modification: Permit #MO- _____

Construction Permit # _____

Expiration Date _____

Reason: _____

1.1 Is this a Federal/State Funded Project? YES NO Funding Agency/Project #: RD

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

2. FACILITY (Outfall 001 of 001)

| | | | |
|-------------------------------------------------------------------------|------------------|--------------------------------------------|-------------------|
| NAME Monroe County PWSD #2, Holliday Wastewater Treatment Facility | | TELEPHONE WITH AREA CODE (660) 327-4778 | |
| ADDRESS (PHYSICAL) 1/4 mile SE of Hwy A and Reid Street Intersection | CITY Holliday | STATE MO | ZIP CODE 65258 |

2.1 LEGAL DESCRIPTION: SW 1/4, SW 1/4, SE 1/4, Sec. 3, T 54, R 11 County Monroe

2.2 UTM Coordinates Easting (X): +39292 Northing (Y): -092072
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

2.3 Name of receiving stream: Unnamed Tributary to Elk Fork Salt River

3. OWNER

| | | | |
|----------------------------------|---------------|------------------------------------|--------------------------------------------|
| NAME Monroe County PWSD No. 2 | | E-MAIL ADDRESS pwsd@parismo.net | TELEPHONE WITH AREA CODE (660) 327-4778 |
| ADDRESS 23504 Highway 24 | CITY Paris | STATE MO | ZIP CODE 65275 |

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 Monroe County PWSD No. 2 | | TELEPHONE WITH AREA CODE (660) 327-4778 | |
| ADDRESS 23504 Highway 24 | CITY Paris | STATE MO | ZIP CODE 65275 |

5. OPERATOR

| | | |
|-----------------------|--------------------------------|--------------------------------------------|
| NAME Roger Shatzer | CERTIFICATE NUMBER 4919 - D | TELEPHONE WITH AREA CODE (660) 327-4778 |
|-----------------------|--------------------------------|--------------------------------------------|

6. FACILITY CONTACT

| | | |
|-------------------------|--------------------------|--------------------------------------------|
| NAME Nancy Riechmann | TITLE General Manager | TELEPHONE WITH AREA CODE (660) 327-4778 |
|-------------------------|--------------------------|--------------------------------------------|

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.)

7.2 Facility SIC code: 4952; Discharge SIC code: 4952; Facility NAICS code: 221329 Discharge NAICS code: 221320

7.3 Number of people presently connected or population equivalent (P.E.): 143 Design P.E. 200
Number of units presently connected: Homes 51 Trailers 10 Apartments N/A Other _____
Design flow for this outfall: 20,000 Total design flow for the facility: 20,000 Actual flow for this outfall: 14,300
Commercial Establishment: Daily number of employees working N/A Daily number of customers/guests N/A

7.4 Length of pipe in the sewer collection system? 3 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: none
b. How many days of the week will the discharge occur? none

7.9 Is wastewater land applied? Yes No (If yes, attach Form I.)

7.10 Will chlorine be added to the effluent? Yes No
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

8. SLUDGE HANDLING, USE AND DISPOSAL

8.1 Is the sludge a hazardous waste as defined by 10 CSR 25? Yes No

8.2 Sludge Production, including sludge received from others: 3.0 Design Dry Tons/Year 2.15 Actual Dry Tons/Year

8.3 Capacity of sludge holding structures:
 Sludge storage provided: _____ cubic feet; _____ days of storage; _____ average percent solids of sludge;
 No sludge storage is provided.

8.4 Type of Storage: Holding tank Building Basin Other (Please describe) Lagoon
 Concrete Pad

8.5 Sludge Treatment:
 Anaerobic Digester Lagoon Composting
 Storage Tank Aerobic Digester Other (Attach description)
 Lime Stabilization Air or Heat Drying

8.6 Sludge Use or Disposal:
 Land Application Surface Disposal (Sludge Disposal Lagoon, Sludge held for more than two years)
 Contract Hauler Incineration
 Hauled to Another Treatment Facility Sludge Retained in Wastewater treatment lagoon
 Solid Waste Landfill Other _____ Attach explanation sheet.

8.7 **PERSON RESPONSIBLE FOR HAULING SLUDGE TO DISPOSAL FACILITY**
 By Applicant By Others (complete below)

NAME
 Monroe County PWSD NO. 2

| | | | |
|-----------------------------------|---------------|------------------------------------------|---------------------------|
| ADDRESS 23504 Highway 24 | CITY Paris | STATE MO | ZIP CODE 65275 |
| CONTACT PERSON Nancy Riechmann | | TELEPHONE WITH AREA CODE 660-327-4778 | PERMIT NO. MO- 0126951 |

8.8 **SLUDGE USE OR DISPOSAL FACILITY**
 By Applicant By Others (Please complete below.)

NAME
 Monroe County PWSD NO. 2

| | | | |
|-----------------------------------|---------------|------------------------------------------|---------------------------|
| ADDRESS 23504 Highway 24 | CITY Paris | STATE MO | ZIP CODE 65275 |
| CONTACT PERSON Nancy Riechmann | | TELEPHONE WITH AREA CODE 660-327-4778 | PERMIT NO. MO- 0126951 |

8.9 Does the sludge or biosolids disposal comply with federal sludge regulations under 40 CFR 503?
 Yes No (Please attach explanation)

9. DOWNSTREAM LANDOWNER (S). ATTACH ADDITIONAL SHEETS AS NECESSARY. SEE INSTRUCTIONS.

NAME
Robert Nager

| | | | |
|-------------------------------|-------------------------|--------------------|--------------------------|
| ADDRESS <u>Main Street</u> | CITY <u>Holliday</u> | STATE <u>MO</u> | ZIP CODE <u>65258</u> |
|-------------------------------|-------------------------|--------------------|--------------------------|

10. DRINKING WATER SUPPLY INFORMATION

10.1 **WHAT IS THE SOURCE OF YOUR DRINKING WATER SUPPLY:**
 A. Public supply (municipal or water district water) water dist.
 If public, please give name of the public supply Monroe Co. PWSD #2
 B. Private well _____
 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)?
 Yes 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?
 Yes 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) Richard Webber - President | TELEPHONE WITH AREA CODE (660) 327-4778 |
| SIGNATURE <u>Richard Webber</u> | DATE SIGNED <u>3/3/14</u> |