

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Irvin Martin 47199 State Hwy V Rutledge, MO 63563

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

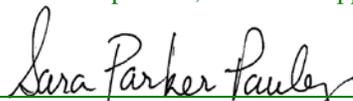
Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department).

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.

July 12, 2016
Effective Date


Sara Parker Pauley, Director, Department of Natural Resources

July 11, 2017
Expiration Date


John Madras, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Construction of a wastewater storage lagoon and associated piping and septic system/grease trap for a seasonal poultry processing facility.

II. COST ANALYSIS FOR COMPLIANCE

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 in accordance with the plans and specifications submitted by Allied Engineering Services LLC on April 22, 2016.
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 Kansas City 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 10 feet horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a 10 foot separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - B. Manholes should be located at least 10 feet horizontally from any existing or proposed water main.
 - C. Manholes shall be located with the top access at or above grade level.
 - D. 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 10 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.

10. 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.
11. A full closure plan shall be submitted to the department's Kansas City Regional Office for review and approval of any permitted wastewater treatment system being replaced. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III of the Missouri State Operating Permit No. MO-XXXXXXXXX. Closure shall not commence until the submitted closure plan is approved by the department. Form J – Request for Termination of a State Operating Permit, shall be submitted to the Water Protection Program for termination of any existing Missouri state operating permit, once closure is completed in accordance with the approved closure plan.
12. Upon completion of construction;
 - A. Irvin Martin 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

IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

This facility will provide storage and treatment for the wastewater generated by the Irvin Martin poultry processing facility.

2. FACILITY DESCRIPTION

This is a new system consisting of a 750 gallon septic tank and an 80 foot by 80 foot earthen basin to store the wastewater prior to land application. Wastewater will be applied to four acres of cool season grass hay with a travelling gun irrigation system.

3. COMPLIANCE PARAMETERS

The facility is required to meet the land application rate, operational requirements, monitoring and reporting requirements, and other requirements set forth in the general operating permit for land application system for wastes from Light Commercial Food Products Industry Major Group 20 (SIC Codes 2011-2099) onto agricultural land for use as fertilizer and soil amendment.

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

The 80 foot by 80 foot, 7 foot deep storage basin will provide enough storage volume and land application area to store and treat the anticipated maximum flow of 99,064 gallons per year. The system requires 4 acres for land application. The hydraulic loading applied to 4 acres of land is 1.2 inches.

5. OPERATING PERMIT

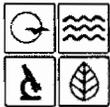
An application for a General Operating Permit for Land Application of Food Processing Waste Water was received and will be issued when a statement of work completed is received by the department.

Diane Reinhardt
Engineering Section
diane.reinhardt@dnr.mo.gov

RECEIVED

MAR 31 2016

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AP23369 C/10078



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
FORM B: APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW LESS THAN OR EQUAL TO 100,000 GALLONS PER DAY

FOR AGENCY USE ONLY
CHECK NUMBER _____
DATE RECEIVED 3/31/16 FEE SUBMITTED \$88

READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM

1. THIS APPLICATION IS FOR:

- An operating permit for a new or unpermitted facility. Construction Permit # _____
(Include completed antidegradation review or request for antidegradation review, see instructions)
- A new site-specific operating permit formerly general permit #MOG _____
- A site-specific operating permit renewal: Permit #MO- _____ Expiration Date _____
- A site-specific operating permit modification: Permit #MO- _____ Reason: _____
- General permit (MOGD – Non POTWs discharging < 50,000 GPD or MOG823 – Land Application of Domestic Wastewater):
Permit #MO- _____ Expiration Date _____

1.1 Is the appropriate fee included with the application (see instructions for appropriate fee)? YES NO

2. FACILITY

NAME Irvin Martin		TELEPHONE NUMBER WITH AREA CODE (660) 434-5686	
ADDRESS (PHYSICAL) 47199 State Hwy V	CITY Rutlage	STATE MO	ZIP CODE 63563
2.1 Legal description: ¼, SW ¼, NW ¼, Sec. 16 , T 63 , R 10W	County Knox		
2.2 UTM Coordinates Easting (X): For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)		Northing (Y):	
2.3 Name of receiving stream: Middle Fabius River			
2.4 Number of outfalls: 1	Wastewater outfalls: 1	Stormwater outfalls: 1	Instream monitoring sites:

3. OWNER

NAME Irvin Martin		EMAIL ADDRESS	TELEPHONE NUMBER WITH AREA CODE (660) 434-5686	
ADDRESS 47199 State Hwy V	CITY Rutlage	STATE MO	ZIP CODE 63563	
3.1 Request review of draft permit prior to public notice?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
3.2 Are you a publicly owned treatment works?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
If yes, is the Financial Questionnaire attached?		<input type="checkbox"/> YES <input type="checkbox"/> NO		
3.3 Are you a privately owned treatment works?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
3.4 Are you a privately owned treatment facility regulated by the Public Service Commission?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

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

NAME Irvin Martin		EMAIL ADDRESS	TELEPHONE NUMBER WITH AREA CODE (660) 434-5686	
ADDRESS 47199 State Hwy V	CITY Rutlage	STATE MO	ZIP CODE 63563	

If the continuing authority is different than the owner, include a copy of the contract agreement between the two parties and a description of the responsibilities of both parties within the agreement.

5. OPERATOR

NAME Irvin Martin	TITLE Owner/Operator	CERTIFICATE NUMBER N/A
EMAIL ADDRESS		TELEPHONE NUMBER WITH AREA CODE (660) 434-5686

6. FACILITY CONTACT

NAME Irvin Martin		TITLE Owner/Operator	
EMAIL ADDRESS		TELEPHONE NUMBER WITH AREA CODE (660) 434-5686	
ADDRESS 47199 State Hwy V	CITY Rutlage	STATE MO	ZIP CODE 63563

8. ADDITIONAL FACILITY INFORMATION8.1 Facility SIC code: 2015 Discharge SIC code: _____

8.2 Number of people presently connected or population equivalent (P.E.) _____ Design P.E. _____

8.3 Connections to the facility:

Number of units presently connected:

Homes _____ Trailers _____ Apartments _____ Other (including industrial) 1

Number of commercial establishments: _____

8.4 Design flow: 335 Actual flow: 83

8.5 Will discharge be continuous through the year? Yes No

Discharge will occur during the following months: no-discharge

How many days of the week will discharge occur? no-discharge

8.6 Is industrial wastewater discharged to the facility? Yes No
If yes, attach a list of the industries that discharge to your facility8.7 Does the facility accept or process leachate from landfills? Yes No8.8 Is wastewater land applied? Yes No
If yes, is Form I attached? Yes No8.9 Does the facility discharge to a losing stream or sinkhole? Yes No8.10 Has a wasteload allocation study been completed for this facility? Yes No**9. LABORATORY CONTROL INFORMATION**

LABORATORY WORK CONDUCTED BY PLANT PERSONNEL

Lab work conducted outside of plant. Yes NoPush-button or visual methods for simple test such as pH, settleable solids. Yes NoAdditional procedures such as dissolved oxygen, chemical oxygen demand, biological oxygen demand, titrations, solids, volatile content. Yes NoMore advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc. Yes NoHighly sophisticated instrumentation, such as atomic absorption and gas chromatograph. Yes No**10. COLLECTION SYSTEM**10.1 Length of pipe in the sewer collection system? 337 Feet, or _____ Miles (either unit is appropriate)10.2 Does significant infiltration occur in the collection system? Yes No

If yes, briefly explain any steps underway or planned to minimize inflow and infiltration:

11. BYPASSINGDoes any bypassing occur in the collection system or at the treatment facility? Yes No

If yes, explain:

12. SLUDGE HANDLING, USE AND DISPOSAL

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

12.2 Sludge production, including sludge received from others: _____ Design dry tons/year _____ Actual dry tons/year

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

12.4 Type of Storage: Holding tank Building
 Basin Lagoon
 Concrete Pad Other (Describe) _____

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

12.6 Sludge Use or Disposal: Land Application Surface Disposal (Sludge Disposal Lagoon, Sludge held for more than two years)
 Contract Hauler Hauled to Another treatment facility
 Incineration Sludge Retained in Wastewater treatment lagoon
 Solid waste landfill

12.7 Person responsible for hauling sludge to disposal facility:
 By applicant By others (complete below)

NAME		EMAIL ADDRESS	
ADDRESS	CITY	STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	PERMIT NO. MO-

12.8 Sludge use or disposal facility
 By applicant By others (Complete below.)

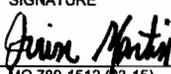
NAME		EMAIL ADDRESS	
ADDRESS	CITY	STATE	ZIP CODE
CONTACT PERSON		TELEPHONE NUMBER WITH AREA CODE	PERMIT NO. MO-

12.9 Does the sludge or biosolids disposal comply with federal sludge regulations under 40 CFR 503?
 Yes No (Explain)

no sludge for this facility.

13. CERTIFICATION

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 (TYPE OR PRINT) Irvin Martin	OFFICIAL TITLE Owner/Operator	TELEPHONE NUMBER WITH AREA CODE (660) 434-5686
SIGNATURE 		DATE SIGNED 3/11/16