STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Missouri American Water Company 727 Craig Road Creve Coeur, MO 63141

for the construction of (describ	ed facilities):
See attached.	
Permit Conditions:	
See attached.	
	be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and mit may be revoked by the Department of Natural Resources (Department).
As the Department does not examine structura include approval of these features.	I features of design or the efficiency of mechanical equipment, the issuance of this permit does not
1 2 1	ct the work covered by this permit during construction. Issuance of a permit to operate by the stantially 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.
January 24, 2019 Effective Date	Edward B. Galbraith, Director, Division of Environmental Quality
January 23, 2021	Chie Wubug
Expiration Date	Chris Wieberg, Director, Water Protegron Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Proposed construction activities consist of installing new tablet feeders and a precast concrete chlorine contact chamber for chlorination and dechlorination to meet E. Coli and residual chlorine effluent limitations.

This project will also 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 determine Cost Analysis for Compliance because the permit contains no new conditions or requirements that convey a new cost to the facility.

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 Walker Richardson Engineering, LLC on September 28, 2018.
- 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 Northeast Regional Office per 10 CSR 20-7.015(9)(E)2.
- 5. 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 dnr.mo.gov/env/wpp/epermit/help.htm. See dnr.mo.gov/env/wpp/epermit/help.htm. See dnr.mo.gov/env/wpp/epermit/help.htm.
- 6. 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 dnr.mo.gov/env/wpp/401/ for more information.

7. Upon completion of construction:

- A. The Missouri American Water Company will become the continuing authority for operation, maintenance, and modernization of these facilities;
- B. Submit an electronic copy of the as builts if the project was not constructed in accordance with previously submitted plans and specifications; and
- C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(D) and request the operating permit modification be issued.

IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

Proposed construction activities consist of installing new tablet feeders and a precast concrete chlorine contact chamber for chlorination and dechlorination to meet E. Coli effluent limitations as required by the Missouri State Operating Permit MO-0119814 issued December 1, 2016.

2. FACILITY DESCRIPTION

The existing wastewater treatment plant is comprised of a septic tank, pump vault/recirculation tank, flow splitter, and recirculating sand filter. The sludge is hauled to Jefferson City WWTP for treatment. The purpose of this project is to construct a new chlorination/dechlorination disinfection system to meet the new E. Coli limits in its current operating permit.

The MAWC, Hidden Valley Subdivision WWTF is located at 11430 Valley View Court, Holts Summit City, in Callaway County, Missouri. The facility has a design average flow of 10,400 gpd and serves a hydraulic population equivalent of approximately 104 people.

3. COMPLIANCE PARAMETERS

The existing operating permit (MO0119814 issued December 1, 2016) contains final effluent E. coli limits of 1030 colonies per 100 mL weekly average and 206 colonies per 100 mL monthly average.

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

The facility proposed to modify an existing wastewater treatment plant by the installation of a chlorinator (Norweco tablet feeder Model ITR 2000S) and a dechlorinator (Norweco tablet feeder Model ITR 2000S), a contact chamber, and all the necessary appurtenances to make the facilities complete and usable to treat the waste from a population equivalent of 178.

The Design flow for this facility is 10,400 GPD with a peak hourly flow of 43,992 GPD based on a peaking factor of 4.23. The facility will use 500 gallon baffled basin (8.5'x6.0'x9.5') as its chlorine contact tank. Sizes of chlorinator, contact tank and dechlorinator are able to treat its hourly peak design flow. Both chlorinator and dechlorinator will be installed outside of the contact tank.

5. OPERATING PERMIT

Operating permit MO-0119814 will require a modification to reflect the construction activities. The modified MAWC, Hidden Valley Subdivision WWTF, MO-0119814, was successfully public noticed from December 22, 2018 to January 21, 2019 with no comments received. Submit the Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(D) and request the operating permit modification be issued.

Lei Hou, PE Engineering Section lei.hou@dnr.mo.gov

AP30803 CP 0002031

RECEIVED



MISSOURI DEPARTMENT OF NATURAL RESOURCES SEP 28 2018 WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT —
WASTEWATER FACILITY
Water Protection Program

EOR DEPAR	TMENT USE ONLY
APP NO.	CP NO.
REE RECEIVED	CHECK NO.
MUU MU	1) (0004885
DATE RECEIVED	6. (6

4-28-18 8
APPLICATION OVERVIEW
The Application for Construction Permit – Wastewater Facility form is for construction pertaining to domestic wastewater treatment facilities, agrichemical facilities, and components thereof. This form has been developed in a modular format and consists 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 N/A Funding Agency: Project #:
1.2 Is this an application for an agrichemical? YES (See instructions.) N/A
1.3 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?
1.4 Has the department approved the proposed project's facility plan*? ☐ YES Date of Approval: ☐ NO ☑ N/A (If Not Applicable, complete No. 1.5.)
1.5 [Complete only if answered Not Applicable on No. 1.4] Is a copy of the engineering report* for wastewater treatment facilities with a design flow less than 22,500 gpd included with this application? ☐ YES ☑ NO
1.6 Is a copy of the appropriate plans* and specifications* included with this application? ☑ YES Denote which form is submitted: ☐ Hard copy ☐ Electronic copy (See instructions.) ☐ NO
1.7 Is a summary of design* included with this application?
 1.8 Is a general operating permit applicable? ☐ YES Submit the appropriate operating permit application to the Regional Office at least 60 days prior to operation. ☐ NO Enclose the appropriate operating permit application and fee submittal. Denote which form: ☐ B ☐ B2
1.9 Is the facility currently under enforcement with the department or the Environmental Protection Agency?
1.10 Is the appropriate fee included with this application? YES NO (See instructions for appropriate fee.)
* Must be affixed with a Missouri registered professional engineer's seal, signature and date.
2.0 PROJECT INFORMATION: 2.1 NAME OF PROJECT
Hidden Valley Subdivision Wastewater Treatment Facility - Disinfection Upgrades
Installation of a chlorination chamber and calcium hypochlorite and sodium sulfite tablet feeders.
mataliation of a officernation charilest and calcium hypochionic and socium sumte tablet reeders.
2.3 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION
Sludge is hauled to Jefferson City Wastewater Treatment Plant by owner for processing.
2.4 DESIGNINFORMATION
A. Current population: 70 Design population: 104
B. Actual Flow: 3,600 gpd; Design Average Flow: 10,400 gpd; Actual Peak Daily Flow: gpd; Design Maximum Daily Flow: gpd; Design Wet Weather Event:
2,5 ADDITIONAL INFORMATION
A. Is a topographic map attached? YES NO
B. Is a process flow diagram attached?
2.6 ESTIMATED PROJECT CONSTRUCTION COST \$ 25,000.00
MO 780-2189 (12-15)

3.0 WASTEWATER TREATMENT FACILIT	Υ					
NAME Hidden Valley Subdivision Wastewater Treatr	, , ,			Aaron.Lachowicz@amwater.com		
ADDRESS (PHYSICAL) 11430 Valley View Court	Holts Sur	nmit	STATE MO	ZIP CODE 65043	Callaway	
Wastewater Treatment Facility: Mo- 011981-	(Outfall	001 Of 001)				
3.1 Legal Description: SE ¼, SW ¼ (Use additional pages if construction of m		4, Sec. 30 , T 45N one outfall is proposed.)	, R 10W			
3.2 UTM Coordinates Easting (X): 578343 For Universal Transverse Mercator (UTM		ing (Y): 4277574 5 North referenced to No	orth American	Datum 1983 (NAI	D83)	
3.3 Name of receiving streams: Tributary to	Rivaux Cr	eek		Marcon		
4.0 PROJECT OWNER						
NAME Missouri-American Water Company		TELEPHONE NUMBER WITH AREA CODE (314) 996-2308		Robert.Goeltz@amwater.com		
ADDRESS 727 Craig Rd	CITY Creve Co	eur	MO	2IP CODE 63141		
5.0 CONTINUING AUTHORITY: Permaner	t organiza	tion that will serve as the	e continuing a	uthority for the op	eration, maintenance	
and modernization of the wastewater collecti						
NAME		TELEPHONE NUMBER WITH AREA CODE		EMAIL ADDRESS		
Same as above	CITY		STATE	ZIP CODE		
AUDRESS	Cirr		SIMIE	211 0002		
5.1 A letter from the continuing authority, if c					S NO 🖸 N/A	
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHOR A. Is a copy of the certificate of convenience				ENTITY. YES NO)	
5 3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHO		•				
A. Is a copy of the as-filed restrictions and co		·	ition?	ES 🗌 NO		
B. Is a copy of the as-filed warranty deed, questions wastewater treatment facility to the associated to the company of t	ıitclaim de	ed or other legal instrum	nent which tra	nsfers ownership	of the land for the	
C. Is a copy of the as-filed legal instrument (included with this application? YES	typically th ☐ NO	e plat) that provides the	association v	with valid easemer	nts for all sewers	
D. Is a copy of the Missouri Secretary of Sta		ofit corporation certificat	e included wit	th this application?	YES NO	
6.0 ENGINEER						
ENGINEER NAME / COMPANY NAME		TELEPHONE NUMBER WITH AREA CODE		EMAIL ADDRESS		
Walker Richardson Engineering, LLC		(309) 231-5086		Jamie@walkerrichardson.com		
ADDRESS 14305 W Rockhill Rd	Brimfield		STATE IL		ZIP CODE 61517	
7.0 PROJECT OWNER: I hereby certify the knowledge and belief such information is true Clean Water Law and all rules, regulations, of Missouri Clean Water Law. I also understant treatment will meet the required effluent limit PROJECT OWNER SIGNATURE	e, complete orders, and d the issue	e, and accurate, and if g decisions, subject to ar ince of the construction	ranted this pe ny legitimate a permit does r	ermit, I agree to ab appeal available to not guarantee the p	olde by the Missouri o applicant under proposed wastewater	
Robert 9 11						
PRINTED NAME Robert Goeltz		the common the state of the sta		DATE 08/17/18		
TITLE OR CORPORATE POSITION		TELEPHONE NUMBER WITH AREA CODE		EMAIL ADDRESS		
Senior Project Engineer		(314) 996-2308		robert.goeltz@amwater.com		
WATER PI P.O. BOX	il completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176					
REFER TO THE APPLICATION O	VERVIEW	END OF PART A. TO DETERMINE WHE	THER PART	B NEEDS TO BE	COMPLETE.	

(Sub	FB – LAND APPLICATION ONLY mit only if the proposed construction project includes land application of wastewater.)
ATT VIA TO	ACILITY INFORMATION
[ype of wastewater to be irrigated: □ Domestic □ State/National Park □ Seasonal business □ Municipal □ Municipal with a pretreatment program or significant industrial users □ Other (explain)
	Months when the business or enterprise will operate or generate wastewater: ☐ 12 months per year ☐ Part of the year (list months):
[]	his system is designed for: No-discharge Subsurface Partial irrigation when feasible and discharge rest of time Irrigation during recreational season, April – October, and discharge during November – March Other (explain)
9.0 8	STORAGE BASINS
9.1 1	lumber of storage basins: (Use additional pages if greater than two basins.)
9.2	ype of basins: Steel Concrete Fiberglass Earthen Earthen with membrane liner
9.3 \$	Storage basin dimensions at inside top of berm (feet). Report freeboard as feet from top of berm to emergency spillway or overflow pipe. Basin #1: Length Width Depth Freeboard Depth Safety % Slope Basin #2: Length Width Depth Freeboard Depth Safety % Slope
	Basin #2: Length Width Depth Freeboard Depth Safety % Slope
9.4 \$	Storage Basin operating levels (report as feet below emergency overflow level). Basin #1: Maximum operating water level ft Minimum operating water level ft Basin #2: Maximum operating water level ft Minimum operating water level ft
9.5 (Design depth of sludge in storage basins. Basin #1:ft Basin #2:ft
9.6	Existing sludge depth, if the basins are currently in operation. Basin #1: ft Basin #2: ft
9.7	otal design sludge storage: dry tons and cubic feet
10.0	LAND APPLICATION SYSTEM
10.1	Type of land application: ☐ Fixed Head Sprinklers ☐ Center Pivot ☐ Traveling Gun ☐ Drip Dispersal ☐ Subsurface Low Pressure Pipe ☐ Other (describe)
10.2	Number of irrigation sites Total Acres Maximum % field slopes
	Location: 1/4, 1/4, 1/4, Sec. T R County Acres Location: 1/4, 1/4, 1/4, Sec. T R County Acres
	Location: ¼, ¼, Sec T R County Acres
10.3	(Use additional pages if greater than three irrigation sites.) Type of vegetation: Grass hay Pasture Timber Row crops
10.4	Uther (describe) Wastewater flow (dry weather) gallons per day: Average annual
	Seasonal Off-season
	Land application rate (design flow including 1-in-10 year storm water flows): Design:inches/yearinches/hourinches/dayinches/week Actual:inches/yearinches/hourinches/dayinches/week
10.6	Total irrigation per year (gallons): Design; gal Actual; gal
	Actual months used for irrigation (check all that apply): ☐ Jan ☐ Feb ☐ Mar ☐ Apr ☐ May ☐ Jun ☐ Jul ☐ Aug ☐ Sep ☐ Oct ☐ Nov ☐ Dec
10.8	Land application rate is based on: Hydraulic Loading

INSTRUCTIONS FOR COMPLETING APPLICATION FOR CONSTRUCTION PERMIT – WASTEWATER TREATMENT FACILITIES

All blanks must be filled in when the application is submitted to the Missouri Department of Natural Resources. This includes the required signature.

Note: Use the form Application for Construction Permit – Sewer Extension, MO 780-1632, if only collection system component(s) are to be constructed. This form is available at dnr.mo.gov/forms/780-1632-f.pdf.

A land disturbance permit is required if construction will result in the disturbance of one or more acres of land. A land disturbance permit is available through the department's ePermitting system at dnr.mo.gov/env/wpp/epermit/help.htm. A permit fee in accordance with 10 CSR 20-6.011(2)(F)1. is required.

After receiving a complete application, the Department enters the application information into the Missouri Clean Water Information System. You may search for the status of a construction permit online at dnr.mo.gov/mocwis_public/applicationInprocessSearch.do.

Part A - Basic Application Information

- 1.0 If any questions in this section are answered no, this application may be considered incomplete and returned to applicant.
- 1.1 Check the appropriate box. If the project is funded with federal or state monies, supply the funding agency name and project number.
- 1.2 Check the appropriate box. Agrichemical facilities complete sections 1.6, 1.10, 2.1, 2.2, 3.1-3.3, 5.0, 6.0, and 7.0.
- 1.3 Check the appropriate box. Provide the date of department approval for the antidegradation report. Include a copy of the approved *Water Quality and Antidegradation Review* with this application. Not every construction project may require an antidegradation review. For more information, guidance documents and forms concerning antidegradation visit dnr.mo.gov/env/wpp/permits/antideg-implementation.htm.
- 1.4 Check the appropriate box and provide the date of department approval. Per 10 CSR 20-8.110(3)(C), facility plans must be approved by the department prior to the submittal of plans and specifications and a construction permit application. "Facility plans must be completed for projects involving wastewater treatment facility projects and projects receiving funding through the grant and loan programs under 10 CSR 20-4" in accordance with 10 CSR 20-8.110(4)(A)4. The department has developed a fact sheet to aid in the development of an approvable facility plan. This document is available online at dnr.mo.gov/pubs/pub2416.htm.
- 1.5 Complete only if No. 1.3 is answered Not Applicable. Check the appropriate box. For wastewater treatment facilities with a design flow under 22,500 gallons per day, or gpd, an engineering report may be required by the department in accordance with 10 CSR 20-6.010(4)(D)1 and 10 CSR 20-8.020(3). The department will require an engineering report for any new wastewater treatment facilities and for any major modifications to an existing wastewater treatment facility.
- 1.6 Check the appropriate box. Provide a copy of the appropriate plans and specifications for department review when applying for a construction permit per 10 CSR 20-8.110(3)(C), 10 CSR 20-8.020(5) and 10 CSR 20-8.020(6). A Missouri registered professional engineering seal, signature and date is required on each sheet of the plans and the cover of the technical specifications.
 - The department will accept plans and specifications in electronic form on a CD and in the Adobe PDF searchable format. If the plans are scanned, set the resolution to a minimum of 200 dpi at 17 by 22 inches.
 - **Note:** Additional sets of plans and specifications may be required by the department for final approval and issuance of the construction permit. See 10 CSR 20-8.110(6)(A)1.
- 1.7 Check the appropriate box. A summary of design shall accompany the plans and specifications when applying for a construction permit, per 10 CSR 20-8.110(5) and 10 CSR 20-8.020(7). A fact sheet to aid in the development of an acceptable summary of design is available online at dnr.mo.gov/pubs/pub2417.htm. For wastewater treatment facilities with a design flow under 22,500 gpd, a summary of design may not be required by the department.
- 1.8 Check the appropriate box. Include the applicable operating permit application when seeking a site-specific operating permit or modification of an existing operating permit. Facilities that qualify for a general operating permit may submit the operating permit application to the appropriate regional office at least 60 days prior to operation.
 - Form B for facilities ≤ 100,000 gpd is available online at dnr.mo.gov/forms/780-1512-f.pdf.
 - Form B2 for facilities > 100,000 gpd is available online at dnr.mo.gov/forms/780-1805-f.pdf.

Include the appropriate fee with your application. For more fee information, visit: http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf.

\$200 for modifications to a Publicly Owned Treatment Works (POTW) operating permit accompanied by the appropriate operating permit form per 10 CSR 20-6.011(2)(H), if applicable.

\$100 for modifications of name changes, address changes, or other nonsubstantive changes or for a modification of a general permit accompanied by the appropriate general permit form per 10 CSR 20-6.011(2)(H)1., if applicable.

25 Percent Annual Operating Fee for modifications to a Non-POTW operating permit accompanied by the appropriate operating permit form per 10 CSR 20-6.011(2)(H)2., if applicable.

Annual Operating Fee for issuing a new Non-POTW operating permit accompanied by the appropriate operating permit form, if applicable.

- 1.9 Check the appropriate box. More information about the Compliance and Enforcement Water Protection Program is available online at doi.org/denv/wpp/enf/index.html.
- 1.10 Check the appropriate box. Include the fee with your application.
 - \$1,000 for a wastewater treatment facility with a design flow of less than 500,000 gpd per 10 CSR 20-6.011(2)(K)1.
 - \$3,000 for a wastewater treatment facility with a design flow of 500,000 gpd or greater per 10 CSR 20-6.011(2)(K)2.

Note: 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 project owner. Permit fees for returned applications shall be forfeited. See 10 CSR 20-6.010(4)(E). Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited. See 10 CSR 20-6.011(5)(B).

- 2.1 Provide the name of the proposed construction project.
- 2.2 Briefly describe the construction project by providing the number and capacity of each new unit.
- 2.3 Briefly describe the method of sludge handling, use and disposal at the treatment facility.
- 2.4 Provide the project design information and when required in the units specified.
 - A. Provide the current population and the design population to be served by the wastewater treatment facility.
 - B. Provide the estimated design flow information in accordance with 10 CSR 20-8.110(4)(C)4.A.
 - Design average flow The design average flow is the average of the daily volumes to be received for a continuous 12 month period expressed as a volume per unit time. However, the design average flow for facilities having critical seasonal high hydraulic loading periods (e.g., recreational areas, campuses and industrial facilities) shall be based on the daily average flow during the seasonal period. (Expected daily average flow the facility is designed to treat.)
 - Design peak hourly flow The design peak hourly flow is the largest volume of flow to be received during a one hour period expressed as a volume per unit time.
 - **Design maximum daily flow** The design maximum daily flow is the largest volume of flow to be received during a continuous 24-hour period expressed as a volume per unit time. (Flow during the peak wet weather event the facility is designed to treat.)

Design Wet Weather Event -The wet weather event chosen for the design.

- 2.5 Provide the additional project information.
 - A. Attach a topographic map of the area extending at least one mile beyond the facility property boundaries. This map must show the outline of the facility and the following information. A topographic map is available online at dnr.mo.gov/internetmapviewer or from the Department of Natural Resources' Missouri Geological Survey in Rolla, Mo., at 573-368-2125. (Submittals of more than one map may be necessary to show the entire area.)
 - 1. The area surrounding the wastewater treatment facility, including all unit processes.
 - The major pipes or other structures through which wastewater enters the treatment facility and the pipes or other structures through which treated wastewater is discharged from the treatment facility. Include outfalls from bypass piping, if applicable.
 - 3. The actual point of discharge.
 - 4. Wells, springs, other surface water bodies and drinking water wells that are: 1) within ¼ mile of the property boundaries of the treatment facility and 2) listed in public record or otherwise known to the applicant.
 - 5. Any areas where biosolids produced by the treatment facility are treated, stored, or disposed.
 - 6. If the treatment facility receives waste classified as hazardous under the Resource Conservation and Recovery Act, or RCRA, by truck, rail, or special pipe, show on the map where hazardous waste enters the treatment works and where it is treated, stored or disposed.
 - 7. Outline any wastewater land application sites.
 - B. Provide a process flow diagram with the influent and effluent design average flow and peak flow capabilities. Also, depict all of the treatment facility components and the corresponding hydraulic capacities of each component. In addition, include all recycle flows in the diagram. If land application is used, depict all irrigation equipment and application sites.

- 2.6 Provide the estimated project construction cost. This information will be useful to the department in conducting affordability analyses.
- 3.0 Complete the Wastewater Treatment Facility information. Include the Missouri State Operation Permit number, outfall number, physical location, and other appropriate contact information.
- 3.1 Provide the project legal description. The department's mapping system is available online at dnr.mo.gov/internetmapylewer.
- 3.2 A Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers that a GPS receiver is used and the displayed coordinates submitted. If access to a GPS receiver is not available, use a mapping system to approximate the coordinates.
- 3.3 Provide the name of the receiving stream(s) to which the discharge is directed and any subsequent tributary until a continuous flowing stream is reached.
- 4.0 Complete Project Owner information. Include the legal name, address, phone number with area code and email address.
- 5.0 Complete Continuing Authority contact information. If same as the Project Owner, write "Same as above".
 Include the permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the wastewater collection system. See 10 CSR 20-6.010(3) for the regulatory requirement regarding continuing authority.
- 5.1 Check the appropriate box. Include a letter signed by the continuing authority (if not same as the project owner) stating they will "accept, operate and maintain" the wastewater treatment facility after successful construction. The continuing authority may also complete the Continuing Authority and Receiving Wastewater Treatment Facility Acceptance form in lieu of a letter.
- 5.2 Complete if the continuing authority is a Missouri Public Service Commission, or PSC, regulated entity. See 10 CSR 20-6.010(3)(B)3 for more information. This information is not necessary for existing wastewater treatment facilities currently permitted with a PSC entity as owner and continuing authority.
- 5.3 Complete if the continuing authority is a property owners association. See 10 CSR 20-6.010(3) (B)5 for more information. This information is not necessary for existing wastewater treatment facilities currently permitted with the property owners association as owner and continuing authority.
- 6.0 Complete Engineer contact information.
- 7.0 All applications must be signed as follows in accordance with 10 CSR 20-6.010(2)(B) 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.

Part B - Land Application

Complete Part B only if the proposed construction project includes land application of wastewater from a treatment facility.

- 8.0 Provide the applicable Facility Information land application information. Check the appropriate boxes.
- 9.0 Provide the applicable Storage Basins information. Check the appropriate boxes.
 - Freeboard The depth from the top of the berm to the emergency spillway. Minimum depth is one foot.
 - Total Depth The depth from the top of the berm to the bottom of the basin.
 - Safety Volume The depth to contain the 25-year, 24-hour storm event. Minimum depth is one foot.
 - Maximum Operating Water Level The water level at the bottom of the safety volume. Minimum depth is two feet below
 the top of the berm.
 - Minimum Operating Water Level The water level above the bottom of the lagoon basin for seal protection. Minimum
 depth is two feet and may be greater when additional treatment volume is included.
 - Total Depth is from the top of the berm to the bottom of the lagoon basin including freeboard.
- 10.0 Provide the applicable Land Application System information. Check the appropriate boxes.
- 10.8 Check the appropriate box. If the land application rate is based on a Nutrient Management Plan, or N and P, include the plan with this application for department review.

Mail the completed form and applicable fee to the department.

If there are any questions concerning this form, please contact the Department of Natural Resources, Water Protection Program at 800-361-4827 or 573-751-1300 or visit dor.mo.gov/env/wpp/permits/ww-construction-permitting.htm.