Permit No. CP0002012

Wastewater Treatment System Improvements Hawk Point WWTF, MO-0028053 Page One

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

The City of Hawk Point 121 W. Lincoln Hawk Point, MO 63349

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.

August 30, 2018 Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

Chris Wieberg, Director, Water Protection Program

August 29, 2020 Expiration Date

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

The city proposed to convert the city's current two-cell lagoon discharging treatment system into a non-discharging facility by a land application. The city of Hawk Point will construct a lift station and storage tanks near the existing lagoon site; a lift station, a new storage pond and a land application system on newly acquired property and also about 8,000 LF of additional forcemains.

The existing two-cell lagoon would be properly closed and the majority of the sludge would be removed in accordance with the sludge management plan.

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 Shafer, Kline & Warren Inc. on July 23, 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 St. Louis Regional Office per 10 CSR 20-7.015(9)(E)2.

Wastewater Treatment System Improvements Hawk Point WWTF, MO-0028053 Page Three

- 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.

Wastewater Treatment System Improvements Hawk Point WWTF, MO-0028053 Page Four

- 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. A full closure plan of the current 2-cell lagoon shall be submitted to the department's St. Louis 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 MO0028053. Closure shall not commence until the submitted closure plan is approved by the department.
- 11. Upon completion of construction;
 - A. The city of Hawk Point 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) and request the operating permit modification be issued; and
 - C. Submit an electronic copy of the as builts if the project was not constructed in accordance with previously submitted plans and specifications.

IV. <u>REVIEW SUMMARY</u>

1. <u>AMMONIA</u>

The proposed wastewater treatment system is a no-discharge system that will not have ammonia limits.

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2. CONSTRUCTION PURPOSE

The objective of the proposed wastewater improvements is to provide the city of Hawk Point with a wastewater system that addresses the immediate needs for increased treatment capabilities that meet current and future permit requirements. Its current two-cell lagoon treatment system does not meet current design standards. Treatment of the current facility has proven to be inadequate because the lagoon effluent had frequently exceeded the permitted limits.

3. FACILITY DESCRIPTION

Current Facility:

Two cell lagoon/ sludge is retained in lagoon. The design population equivalent is 540 and the design flow is 54,000 GPD.

Future Facility:

Single cell storage lagoon/wastewater irrigation/sludge is retained in lagoon. The design population equivalent is 1,335 and the design flow is 108,000 GPD.

4. <u>COMPLIANCE PARAMETERS</u>

The facility will be no-discharge domestic wastewater treatment facilities. Land application shall be controlled, limited and monitored by the facility.

5. <u>REVIEW of MAJOR TREATMENT DESIGN CRITERIA</u>

The collection system improvements of this project includes the construction and installation of approximately 7697 linear feet of 6-inch through 8-inch PVC SDR-21 force mains with cleanouts and air release valves and three duplex submersible lift stations (Pump Station #1 & Pump Station #3 & Pump Station #4). The Pump Station #1 (the Main Street Pump Station) is equipped with two pumps, each capable of operating at 200 gallons per minute (gpm) at 61 feet of total dynamic head (TDH). More than two hours of emergency storage at the Pump Station #1 is provided by one 40-ft section of 48-inch pipe (3727 gal) laid horizontally at 0.20% slope. The Pump Station #3 is equipped with two pumps, each capable of operating at 110 gpm at 65 feet of total dynamic head (TDH). More than two hours of emergency storage at the Pump Station #3 is provided by four 40-ft section of 24-inch pipe (3760 gal) laid horizontally at 0.20% slope. Pump Station #4 located at the existing lagoon is equipped with two pumps, each capable of operating at 400 gpm at 92 feet of total dynamic head (TDH). Two hours of emergency storage at the Pump Station #4 is provided by two 8-ft section of 48-inch pipe (15,040 gal) laid horizontally at 0.50% slope. All pump stations will be equipped with variable frequency drives, portable pump hook-ups, a generator connection port, a new trash basket structure or a new bar screen structure and an alarm system that will dial the operator's cell phone.

The new basin of 180 days storage will be constructed on the southwest side of the town. The lagoon's dimensions are 12.5 feet of total depth, 10.5 feet of maximum operating depth, 697 feet of bottom length, and 397 feet of bottom width. The slopes of outer berm and inner berm are three to one. The storage volume of the lagoon between lower operating levels to upper operating level is 19,421,300 gallons which is 180 days storage at the design flow. The storage volume of the lagoon between lower operating levels to emergency spillway (20 feet x 1feet concrete structure) is 22,900,000 gallons which is 212 days storage at the design flow. Reworked and compacted material from the site will have permeability coefficient of 8.2×10^{-9} cm/s. A design thickness of 12 inches is going to be used for the seal material of the new basin.

A center pivot irrigation system will be installed at an approximately 70 acres while maintaining setback distances of 50 feet to property boundaries and 100 feet to the nearest creek. The water from the storage basin will be pumped to and through the center pivot by a single 40 HP vertical turbine pump. The vertical turbine pump is capable of operating at 900 gpm at 127 feet of total dynamic head (TDH). A variable frequency drive will be included in this pump station to keep a constant flow rate to the center pivot as it rotate across the field. The effluent of the lagoon will be carried through 780 feet of 10 inches PVC forcemain. The pivot's rotation will be approximately 270 degrees in a maximum of eight hours. The irrigation system consists of one approximately 1,070 feet radius center pivot. The irrigation area of approximately 70 acres will be a hay field at the southwest of town. The slope of the field varies from flat up to 6% in some areas under the center pivot. The irrigation system is designed application rate of 0.2 inches per day, 1.0 inch per week and 20 inches per year.

6. **OPERATING PERMIT MODIFICATION**

Operating permit MO-0028053 will require a modification to reflect the construction activities. Upon construction completion and receiving a statement of work completed form, the department will issue the draft operating permit that was public noticed on May 13, 2016.

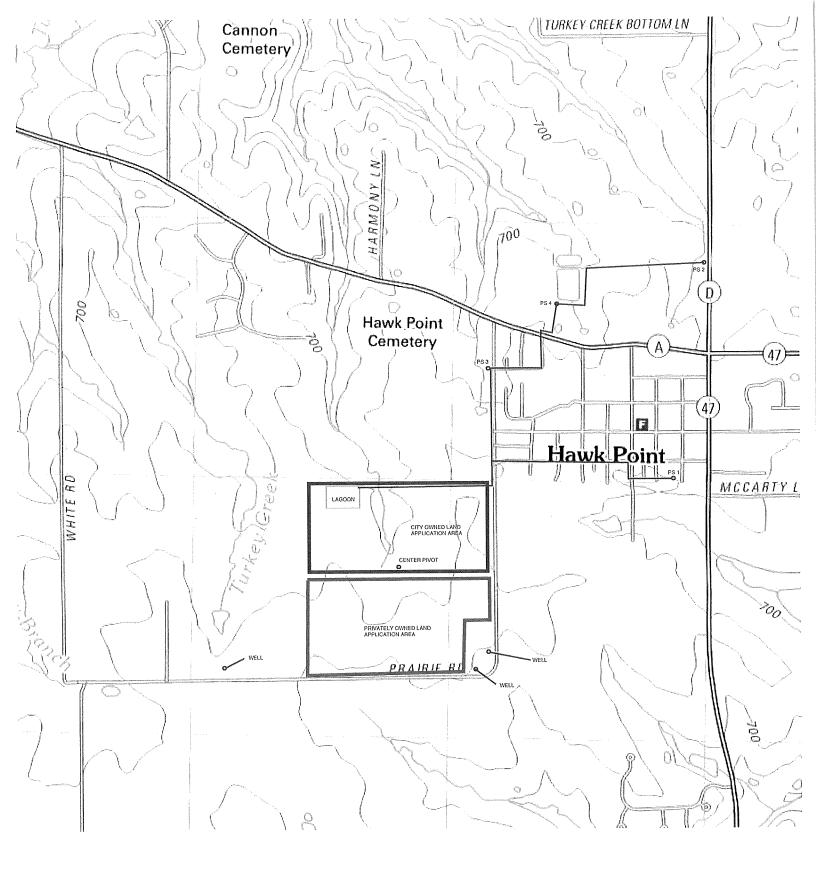
Lei Hou, PE Engineering Section lei.hou@dnr.mo.gov

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RECEIVED	AP 30305
	CPOODDOID
WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT – WASTEWATER FACILITY	FOR DEPARTMENT USE ONLY APP NO. CP NO.
APPLICATION FOR CONSTRUCTION PERMIT -	FEE RECEIVED CHECK NO.
WASTEWATER FACILITY	\$1060,00 1218
••	DATE RECEIVED
APPLICATION OVERVIEW	
The Application for Construction Permit – Wastewater Facility form is for construction pertain facilities, agrichemical facilities, and components thereof. This form has been developed in and B. All applicants must complete Part A. Part B should be completed for applicants v propose land application for wastewater treatment. Please read the accompanying instru Submittal of an incomplete application may result in the application being returned.	a modular format and consists of Part A
PART A – BASIC INFORMATION	
1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answ considered incomplete and returned.)	rered NO, this application may be
1.1 Is this a Federal/State funded project? I YES IN/A Funding Agency: USDA	/CDBG Project #:
1.2 Is this an application for an agrichemical? \Box YES (See instructions.) \boxtimes N/A $_{ m NO}$	
1.3 Has the Missouri Department of Natural Resources approved the proposed project's and ☑ YES Date of Approval: 6/16/16	tidegradation review?
1.4 Has the department approved the proposed project's facility plan*? ✓ YES Date of Approval: 4/4/2013 □ NO □ N/A (If Not Applicable, complete	e No. 1.5.)
1.5 [Complete only if answered Not Applicable on No. 1.4] Is a copy of the engineering report with a design flow less than 22,500 gpd included with this application? \Box YES \Box NON/A	-
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 instru	uctions.)
1.7 Is a summary of design* included with this application? VES INO	,
 1.8 Is a general operating permit applicable? ☐ YES Submit the appropriate operating permit application to the Regional Office at lease	ast 60 days prior to operation. which form: B 🔽 B2
1.9 Is the facility currently under enforcement with the department or the Environmental Prot	
1.10 Is the appropriate fee included with this application? 🗹 YES 🔲 NO (See instructi	-
* Must be affixed with a Missouri registered professional engineer's seal, signature and date.	
2.0 PROJECT INFORMATION	
2.1 NAME OF PROJECT Hawk Point Wastewater System Improvements	
2.2 PROJECT DESCRIPTION	
The construction of (2) new lift stations, modification of another lift station with over 8,000 L.F. from 2" to 8". The construction of a new single cell lagoon with a land application pump, new c site on 71 acres. The abandonment and closure of the existing 2 cell lagoon system.	of additional forcemains ranging in size enter pivot at the new land application
2.3 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION	
See sludge management plan - Appendix B regarding old sludge. New sludge to be stored in r	new Jagoon.
A. Current population: 700 ; Design population: 1335	
B. Actual Flow: <u>59,000</u> gpd; Design Average Flow: <u>98,790</u> gpd; Actual Peak Daily Flow: <u>108,000</u> gpd; Design Maximum Daily Flow: <u>1,022,400</u> gpd Design Wet Weather Event: <u>1 in 10 R-E</u>	1;
2.5 ADDITIONAL INFORMATION	
A. Is a topographic map attached? VES NO	
B. Is a process flow diagram attached? ✓ YES ☐ NO 2.6 ESTIMATED PROJECT CONSTRUCTION COST	
\$ 1.8 Million	
MO 780-2189 (12-15)	Pope 1 of 8

NAME Hawk Point WWTF		TELEPHONE NUMBER WITH AREA CODE (636) 338-4377			EMAIL ADDRESS hawkpointmayor@centurytel.net		
ADDRESS (PHYSICAL) Prairie Road	сіту Hawk Po	bint		state MO	ZIP CODE 63349	Lincoln	
Wastewater Treatment Facility: Mo- 00280	053 (Outfall	11 Of 1)					
	1/4, SW 1/	/4, Sec. 33 , T	T 49W osed.)	, R 2W			
3.2 UTM Coordinates Easting (X): 66052 For Universal Transverse Mercator (U	ITM), Zone 1	5 North referenced		rth America	an Datum 1983 (N	IAD83)	
3.3 Name of receiving streams: unnamed	d tributary to	Turkey Creek				·	e gittate of the
4.0 PROJECT OWNER							
NAME City of Hawk Point		TELEPHONE NUMBER (636) 338-4377	WITH ARE	EA CODE	EMAIL ADDRESS	or@centurvtel	net
ADDRESS	CITY	(000) 000-4077	ſ	STATE	ZIP CODE	or @contar y tor	
121 W. Lincoln, P.O. Box 302	Hawk Po	int		МО	63349		
5.0 CONTINUING AUTHORITY: Perman	nent organiza	tion that will serve	as the	continuing	authority for the	operation, mai	ntenance
and modernization of the wastewater colle	ction system	i.					
NAME		TELEPHONE NUMBER	WITH ARE	EA CODE	EMAIL ADDRESS	or@conturvtol	not
City of Hawk Point	CITY	(636) 338-4377		STATE	ZIP CODE		
121 W. Lincoln, P.O. Box 302	Hawk Po	int		MO	63349		
5.1 A letter from the continuing authority, i					plication.	ES INO	N/A
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUT							
A. Is a copy of the certificate of convenien	ice and nece	ssity included with	this ap	plication?	□YES □N	10	
				oplication?		10	
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CILIT	TY NAME	MO- CO28053	OUTFALL NO.	OOI
<u>an</u>	k Point Wastewater Tradmund TA-BASIC APPLICATION INFORM			
	FACILITY INFORMATION			
.1	Process Flow Diagram or Schemat treatment units, including disinfection are taken. Indicate any treatment pro Include a brief narrative description o Attach sheets as necessary.	(e.g. – Chlorination and Decinic ocess changes in the routing of		
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780	0-1805 (02-15)		· .	Page 3

	PART B – LAND APPLICATION ONLY (Submit only if the proposed construction project includes land application of wastewater.)
	8.0 FACILITY INFORMATION
	 8.1 Type of wastewater to be irrigated: Domestic State/National Park Seasonal business Municipal Municipal with a pretreatment program or significant industrial users Other (explain)
	 8.2 Months when the business or enterprise will operate or generate wastewater:
	 8.3 This 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)
²	9.0 STORAGE BASINS
	9.1 Number of storage basins: 1 (Use additional pages if greater than two basins.)
	9.2 Type 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 772 Width 472 Depth 12.5 Freeboard 1 Depth 12.5 Safety 1 % Slope 33 Basin #2: Length Width Depth Depth Preeboard Preeboard 2 Depth Safety 4 % Slope
	 9.4 Storage Basin operating levels (report as feet below emergency overflow level). Basin #1: Maximum operating water level 1 ft Minimum operating water level 9.5 ft Basin #2: Maximum operating water level ft Minimum operating water level ft
	9.5 Design depth of sludge in storage basins. Basin #1: 2 ft Basin #2: ft
	9.6 Existing sludge depth, if the basins are currently in operation. Basin #1: <u>N/A</u> ft Basin #2: ft
	9.7 Total design sludge storage: 2 <u>650</u> dry tons and 5 <u>67,00</u> 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 1 Total Acres 71 Maximum % field slopes
	0.3 Type of vegetation: ☐ Grass hay ☐ Pasture ☐ Timber 🗹 Row crops ☐ Other (describe)
[0.4 Wastewater flow (dry weather) gallons per day: Average annual <u>98,790</u> Seasonal <u>N/A</u> Off-season <u>N/A</u>
	10.5 Land application rate (design flow including 1-in-10 year storm water flows): Design: 24
	0.6 Total irrigation per year (gallons): Design: 40 million gal Actual: 22 million gal
	10.7 Actual months used for irrigation (check all that apply): □ Jan □ Feb ⊠ Mar ⊠ Apr ⊠ May ⊠ Jun ⊠ Jul ⊠ Aug ⊠ Sep ⊠ Oct ⊠ Nov ⊠ Dec
	0.8 Land application rate is based on:



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 <u>dnr.mo.gov/forms/780-1632-f.pdf</u>.

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 <u>dnr.mo.gov/env/wpp/epermit/help.htm</u>. 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 <u>dnr.mo.gov/mocwis_public/applicationInprocessSearch.do</u>.

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 <u>dnr.mo.gov/pubs/pub2416.htm</u>.
- 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 <u>dnr.mo.gov/pubs/pub2417.htm</u>. 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 <u>dnr.mo.gov/forms/780-1512-f.pdf</u>.
 - Form B2 for facilities > 100,000 gpd is available online at <u>dnr.mo.gov/forms/780-1805-f.pdf</u>.

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 <u>dnr.mo.gov/env/wpp/enf/index.html</u>.
- 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 20-6.010(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 <u>dnr.mo.gov/internetmapviewer</u> 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 1/4 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.