STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

February 26, 2015

Mr. Chris Crocker
Director of Planning and Development
Missouri Department of Natural Resources
Division of State Parks
1659 East Elm Street, P.O. Box 176
Jefferson City, MO 65102-0176

RE: C295364-02 Current River State Park New Development Wastewater Treatment Facility No. 1, MO-0137896, AP20352, Construction Permit No. CP0001715

Dear Mr. Crocker:

The Department of Natural Resources' Water Protection Program has reviewed and approved the plans and specifications submitted by Farnsworth Group, Inc. for the Division of State Parks' Current River State Park New Development (ND) Wastewater Treatment Facility No. 1. Please find enclosed Construction Permit No. CP0001715 and one set of approved specifications. One set of approved plans has been sent under separate cover. You must maintain these with your official project file for a minimum of four years following completion of the project.

This permit will terminate on April 29, 2016. 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.

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.

Recycled Paper

If you have any questions concerning this matter, please contact me at (573) 751-1402 or Missouri Department of Natural Resources, Water Protection Program, 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

Byron F. Shaw, Jr.

Byron F. Shaw, Jr., P.E., Clean Water SRF Engineering Unit Chief
Financial Assistance Center

BFS/cs

Enclosures

c: Mr. Steve Myers, P.E., Farnsworth Group, Inc.
Mr. Michael Qutami, Office of Administration, Facilities Mgmt., Design & Construction Southeast Regional Office
Ms. Kristina Watts, Water Protection Program, Financial Assistance Center

C295364-02 Current River State Park ND, MO-0137896 Permit No. CP0001715
Current River State Park ND Wastewater Treatment Facility No. 1

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 Department of Natural Resources
Division of State Parks
1659 East Elm Street, P.O. Box 176
Jefferson City, MO 65102-0176

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.

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.

February 26, 2015
Effective Date

Sara Parker Pauley
Sara Parker Pauley, Director, Department of Natural Resources

April 29, 2016
Expiration Date

John Madras
Director, Water Protection Program

CONSTRUCTION PERMIT

The proposed wastewater collection system will consist of a combination of a septic tank effluent gravity sewer system, a septic tank effluent pumping system, and a lift station and force mains, which will carry septic tank effluent to the proposed receiving wastewater treatment facility.

COLLECTION SYSTEM:

The gravity sewer portion of this project consists of the installation and construction of the following:

- approximately 786 linear feet (lf) of eight-inch polyvinyl chloride (PVC) gravity sewer line.
- approximately nine manholes.
- septic tanks with cleanouts and septic tank effluent pumps as follows:
  - two 3,000 gallon tanks.
  - one 4,000 gallon tank.
  - one 5,000 gallon tank.
  - one 15,000 gallon tank.
- high density polyethylene (HDPE) force mains with air release valves as follows:
  - approximately 943 lf of one and one-quarter inch force main.
  - approximately 548 lf of one and one-half inch force main.
  - approximately 103 lf of two-inch force main.
  - approximately 863 lf of three-inch force main.
  - approximately 1,807 lf of four-inch force main.
- an intermediate pumping station with a volume of 5,000 gallons and four pumps, each rated at 150 gallons per minute at 160 feet of total dynamic head.

These wastewater facilities will be within the vicinity of the Current River State Park ND along County Road 19-250 in Shannon County and will be treated at the Current River State Park ND Wastewater Treatment Facility No. 1, Missouri State Operating Permit No. MO-0137896.

WASTEWATER TREATMENT FACILITY:

The proposed no-discharge wastewater treatment facility project will consist of the construction and installation of an intermittent recirculating sand filter and subsurface adsorption field, which will be designed for an estimated population equivalent of 239 and an estimated design average flow of 23,910 gallons per day and includes the following components:

- four recirculation tanks, each with a volume of 3,000 gallons and four recirculation pumps.

- recirculating sand filter which consists of four sand filters with dimensions of 48 feet by 50 feet each. Each filter has eight zones with three laterals each 50 feet long.
- a 5,000 gallon dosing tank with four pumps.
- an absorption field with a total area of 179,730 square feet divided into eight zones with each zone made up of six sub zones with laterals of varying lengths.

The project also includes the construction and installation of all necessary appurtenances to make a complete and usable wastewater collection and treatment facility. The project will also include general site work appropriate to the scope and purpose of the project.

FINDING OF AFFORDABILITY:

Pursuant to Section 644.145, RSMo, the department is required to determine whether a permit or decision is affordable and make a finding of affordability for each permit or decision.

An Affordability Determination and Finding was performed in accordance with RSMO §644.145 and is enclosed with this construction permit. The department finds the project is affordable with no economic burden to the community. See Appendix A.

PERMIT CONDITIONS:

The permittee is authorized to construct subject to the following conditions:

1. All construction shall be in accordance with the plans and specifications submitted by Farnsworth Group, Inc. on February 17, 2015 and signed and sealed by Mr. Kevin N. Hannel, P.E. on December 18, 2014 and approved by the department on February 26, 2015.

2. Regulation 10 CSR 20-4.040(19)(B)1 requires that projects be publicly advertised, allowing sufficient time for bids to be prepared and submitted. Projects should be advertised at least 30 days prior to bid opening.

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. As per 10 CSR 20-4.040, all changes in contract price or time within the approved scope of work must be by change order in accordance with Section 20 of this rule.

5. This construction permit does not authorize discharge.

6. 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 Southeast Regional Office per 10 CSR 20-7.015(9)(E)2.

7. 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."

   A. 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.

   B. 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.

   C. Manholes should be located at least ten feet horizontally from any existing or proposed water main.

   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:

      1) 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

      2) 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 may 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 Department of Natural Resources' Division of State Parks 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

    C. Submit an electronic copy of the as builts.

APPENDIX A

APPENDIX – AFFORDABILITY ANALYSIS:

Missouri Department of Natural Resources
Water Protection Program
Affordability Determination and Finding
(In accordance with RSMo 644.145)

Missouri Department of Natural Resources' Division of State Parks
Current River State Park ND Wastewater Treatment Facility No. 1, New Permit
Missouri State Operating Permit No. MO-0137896

Section 644.145 RSMo requires the Department of Natural Resources to make a "finding of affordability" when "issuing permits under" or "enforcing provisions of" state or federal clean water laws "pertaining to any portion of a combined or separate sanitary sewer system or publicly-owned treatment works."

Description:
The Department of Natural Resources' Division of State Parks' Current River State Park ND, is located in Shannon County, MO. Facility No. 1 will be the east treatment facility and will serve Areas 3 and 4 of the state park and future flows from Area 8. The treatment system consists of primary septic tanks with septic tank effluent pumping, an intermediate pump station, a recirculating sand filter, and a pressurized seepage disposal field. Facility No. 1 has a design average flow of 23,910.5 gallons per day (gpd). The areas served will be a lodge with a dining room, lodge rooms, and a conference room, duplex cabins, four-bed cabins, two-bed cabins, treehouse cabins, and two day use rest rooms.

Total Connections:	
Permitted Features #001:	49 total connections

New Permit Requirements or Requirements Now Being Enforced:
This is a new operating permit for a no-discharge wastewater treatment facility (WWTF); however, the State government has allotted funds for operation, maintenance, repair and potential replacement of infrastructure including the WWTF. State agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities. Due to the Division of State Parks having already acquired funding for purposes such as necessary improvements to the WWTF, the conditions of the operating permit have been determined to cause a low cost burden on the Division of State Parks. In addition, the Financial Assistance Center, located within the Department of Natural Resources' Water Protection Program, is providing a grant of up to $1,260,000 to help fund the construction of this WWTF and two others within Current River State Park ND.

Range of Anticipated Costs Associated with Complying with Requirements:
This is a new operating permit with new conditions. Therefore, it is anticipated that the permittee should incur additional costs for this facility.

(1) A community's financial capability and ability to raise or secure necessary funding;
This is a new operating permit with new conditions; therefore, there are new anticipated costs for the permittee to comply with this permit. The budgetary process does not depend on a community's financial capability to secure funding; rather existing Capital Improvement project funds delegated to the Agency are reallocated. Therefore, as a State Agency, the procurement process does not require changes to rate structures, and no communities incur additional financial burden.

(2) ***Affordability of pollution control options for the individuals or households of the community;***
This is a new operating permit with new conditions; therefore, there are new anticipated costs for the permittee to comply with this permit. State agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

(3) ***An evaluation of the overall costs and environmental benefits of the control technologies;***
This is a new operating permit with new conditions. The proposed system is appropriate for the situation at hand. Systems utilizing a septic tank, a recirculating sand filter, and low pressure pipe sub surface irrigation are cost-effective and provide protection to the environment through a no-discharge system.

(4) ***An assessment of other community investments relating to environmental improvements;***
This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

(5) ***An assessment of factors set forth in the United States Environmental Protection Agency's guidance, including but not limited to the "Combined Sewer Overflow Guidance for Financial Capability Assessment and Schedule Development" that may ease the cost burdens of implementing wet weather control plans, including but not limited to small system considerations, the attainability of water quality standards, and the development of wet weather standards; and,***
This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

(6) ***An assessment of any other relevant local community economic condition.***
This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

(7) ***An assessment of any other relevant local community economic condition.***
The Division of State Parks did not report any other relevant local economic conditions.

Conclusion and Finding

As a result of reviewing the above affordability criteria, the department hereby finds that the action described above will result in a low cost burden for the Division of State Parks, but no burden with regard to the community's or State agency's overall financial capability. This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

Revised

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 1/14/2015	FEE SUBMITTED

PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM

1. THIS APPLICATION IS FOR:

☑ An operating permit for a new or unpermitted facility. Construction Permit # _____
(Please include completed antidegradation review or request for antidegradation review, see instructions)

☐ An operating permit renewal: Permit #MO- _____ Expiration Date _____

☐ An operating permit modification: Permit #MO- _____ Reason: _____

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

2. FACILITY

NAME		TELEPHONE NUMBER WITH AREA CODE	
Current River SP, New Development - Facility 1 WWTP			
ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
County Road 19-250	Salem	MO	65560

2.1 Legal description: ¼, ¼, ¼, Sec. 8 , T 30 , R 4W County Shanno

2.2 UTM Coordinates Easting (X): 641740 Northing (Y): 4130152
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

2.3 Name of receiving stream: N/A

2.4 Number of outfalls: wastewater outfalls stormwater outfalls instream monitoring sites

3. OWNER

NAME	EMAIL ADDRESS	TELEPHONE NUMBER WITH AREA CODE	
Department of Natural Resources Division of State Parks		(573) 522-6390	
ADDRESS	CITY	STATE	ZIP CODE
1659 East Elm, P.O. Box 176	Jefferson City	MO	65102

3.1 Request review of draft permit prior to public notice? ✓ YES NO

3.2 Are you a publicly owned treatment works? ✓ YES NO

3.3 Are you a privately owned treatment works? YES ✓ NO

3.4 Are you a privately owned treatment facility regulated by the Public Service Commission? YES ✓ NO

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

NAME	EMAIL ADDRESS	TELEPHONE NUMBER WITH AREA CODE	
Department of Natural Resources Division of State Parks		(573) 522-6390	
ADDRESS	CITY	STATE	ZIP CODE
1659 East Elm, P.O. Box 176	Jefferson City	MO	65102

If the continuing authority is different than the owner, please 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	TITLE	CERTIFICATE NUMBER
EMAIL ADDRESS		TELEPHONE NUMBER WITH AREA CODE

6. FACILITY CONTACT

NAME		TITLE	
Chris Crocker		Director of Planning & Development	
EMAIL ADDRESS		TELEPHONE NUMBER WITH AREA CODE	
chris.crocker@dnr.mo.gov		(573) 522-6390	
ADDRESS	CITY	STATE	ZIP CODE
1659 East Elm, P.O. Box 176	Jefferson City	MO	65102

7. DESCRIPTION OF FACILITY

7.1 Process Glow Diagram or Schematic: Provide a diagram showing the processes of the treatment plant. Show all of the treatment units, including disinfection (e.g. – chlorination and dechlorination), influents and outfalls. Indicate any treatment process changes in the routing of wastewater during dry weather and peak wet weather. Include a brief narrative description of the diagram. Attach sheets as necessary.

Please see the attached overall site plan drawing (Sheet G-002) and brief narrative description with schematic design (Figure 2A) included in the attached Engineering Report.

7.2 Attach an aerial photograph or USGS topographic map showing the location of the facility and outfall. See attached USGS map - No outfall

8. ADDITIONAL FACILITY INFORMATION

8.1 Facility SIC code: 4952 ; Discharge SIC code: _____.

8.2 Number of people presently connected or population equivalent (P.E.) 0 Design P.E. 239

8.3 Connections to the facility:

Number of units presently connected:

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

Number of commercial establishments: _____

8.4 Design flow: 23,910.5 | Actual flow: N/A

8.5 Will discharge be continuous through the year? Yes ☑ No (If yes, explain.)

Discharge will occur during the following months: No Discharge, subsurface disposal

How many days of the week will discharge occur?

8.6 Is industrial waste discharged to the facility? Yes ☑ No

8.7 Does the facility accept or process leachate from landfills? Yes ☑ No

8.8 Is wastewater land applied? ☑ Yes No

If yes, is Form I attached? ☑ Yes No

8.9 Does the facility discharge to a losing stream or sinkhole? Yes ☑ No

8.10 Has a wasteload allocation study been completed for this facility? Yes ☑ No

9. LABORATORY CONTROL INFOMRATION

LABORATORY WORK CONDUCTED BY PLANT PERSONNEL

Lab work conducted outside of plant. ☑ Yes No

Push-button or visual methods for simple test such as pH, settlable solids. Yes ☑ No

Additional procedures such as dissolved oxygen, chemical oxygen demand, biological oxygen demand, titrations, solids, volatile content. Yes ☑ No

More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc. Yes ☑ No

Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph. Yes ☑ No

10. COLLECTION SYSTEM

10.1 Length of pipe in the sewer collection system? _____ Feet, or 0.95 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. BYPASSING

Does any bypassing occur in the collection system or at the treatment facility? 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 ☐ Basin ☐ Concrete Pad ☐ Building ☐ Lagoon ☑ Other (Please describe) _____

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

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

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 (Please 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 (Please explain)

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)	OFFICIAL TITLE	TELEPHONE NUMBER WITH AREA CODE
Chris Crocker	Director of Planning & Development	(573) 522-6390
SIGNATURE		DATE SIGNED 1-14-2015

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
FORM E – APPLICATION FOR GENERAL PERMIT
UNDER MISSOURI CLEAN WATER LAW

FOR AGENCY USE ONLY	
CHECK NUMBER	
DATE RECEIVED	FEE SUBMITTED

1.00 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS
State Park

1.10
- ☐ a. This facility is now in operation under Missouri Operating Permit Number, or NPDES, MO – _____ and there is not a proposed increase in design stormwater or wastewater flow.
- ☐ b. This facility is now in operation under Missouri Operating Permit Number MO – _____ and there is a proposed increase in design stormwater or wastewater flow.
- ☑ c. This is a new permit (for a new facility).
- ☐ d. Construction Permit if required by the General Permit.

If you checked either item **b** or **c** above then you may need to submit an antidegradation review. See instructions.

2.00 NAME OF FACILITY
Current River SP, New Development - Facility 1 WWTP

2.10 ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
County Road 19-250	Salem	MO	65560

3.00 OWNER

NAME	E-MAIL ADDRESS	PHONE NUMBER WITH AREA CODE	FAX NUMBER WITH AREA CODE
STREET	**CITY**	**STATE**	**ZIP CODE**
1659 East Elm, P.O. Box 176			

4.00 CONTINUING AUTHORITY

NAME	E-MAIL ADDRESS	PHONE NUMBER WITH AREA CODE	FAX NUMBER WITH AREA CODE
STREET	**CITY**	**STATE**	**ZIP CODE**
1659 East Elm, P.O. Box 176			

5.00 OPERATOR (if applicable)

NAME	PHONE NUMBER WITH AREA CODE

6.00 FACILITY CONTACT

NAME	PHONE NUMBER WITH AREA CODE	FAX NUMBER WITH AREA CODE

TITLE

7.00 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION (ATTACH ADDITIONAL SHEETS AS NECESSARY)
Outfall Number ____ ____ ¼ ____ ¼ Sec. ____ T ____ R _____ _____ County
Outfall Number ____ ____ ¼ ____ ¼ Sec. ____ T ____ R _____ _____ County

7.10 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER
Outfall Number _____ Receiving Water _____
Outfall Number _____ Receiving Water _____

7.20 Does the discharge(s) for which you are seeking a permit discharge to a combined sewer system? Yes No

7.40 Primary SIC Code 4952

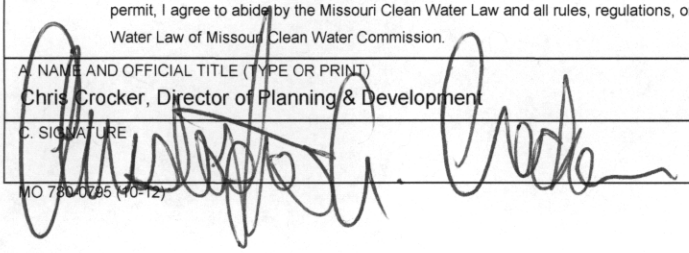
7.50 If this application is for a storm water permit, please provide an attached list of **any** materials that are stored outside and exposed to storm water.

7.60 Attach a USGS 1" = 2,000' scale map showing the location of the facility in relation to the local road system. Indicate on the map the facility, the receiving stream, the points of discharge and the map section, township and range.

7.70 If this is an existing discharge, submit a summary of pollutants analyzed in the past two years.

7.80 If applying for a permit for an industrial site (i.e. stormwater), what is the method of domestic wastewater disposal? _____

7.90 I certify that I am familiar with the information contained in the application and 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 of Missouri Clean Water Commission.

A. NAME AND OFFICIAL TITLE (TYPE OR PRINT)	B. TELEPHONE NUMBER WITH AREA CODE
Chris Crocker, Director of Planning & Development	(573) 522-6390
C. SIGNATURE	D. DATE SIGNED
	1-14-2015

MO 780-0285 (10-12)

INSTRUCTIONS

This form must be submitted with the application fee (listed below). Persons with more than one operating location shall obtain a general permit for each location unless other permitting arrangements are allowed by the terms of the general permit. Where multiple discharge points exist at a single operating location, one application may cover all the applicable discharges. **If there are any questions concerning this form, please contact the appropriate regional office (see map available at www.dnr.mp.gov/regions/regions.htm).**

Fees: Land Disturbance (Form G must be included) - $300 (due at application time only)
Ag Chem Fertilizer/Pesticide Storage- $150 due with application for new permits; $50/year while permit is in effect; no fee required with renewal application
Concentrated Animal Feeding Operation, or CAFO - $150 (due at application time only)
Pesticide Applications - $150 due for the application for new permit and each year until expiration; $60/year thereafter; no fee required with renewal application.
General Permit – Other (e.g., Motor Vehicle Salvage, Limestone Quarry, Petroleum Storage, Sand/Gravel Mining, etc.) - $150 due with application for new permits and each year until expiration; $60/year thereafter; no fee required with renewal application.
Construction Permit $750

1.00 Give the name of the specific general permit you are applying for: (e.g. Motor Vehicle Salvage.) and describe the primary business conducted at this site. If you are unsure about the specific name for the general permit, contact the Water Protection Program, Water Pollution Branch at 573-751-6825.

As of April 27, 2012, a new general permit is available for private domestic no-discharge facilities with design flow of less than 50,000 gallons per day. These facilities must have no industrial contributors and are subject to specific requirements. Please see the web address below to review MO-G823 before applying for this permit.

1.10 Fill out either item (a., item (b., item (c., or item (d. as applicable.

Each general permit may have specific antidegradation review requirements contained within it. Go to the following websites to verify your specific requirements:
For MO-G permits visit www.dnr.mo.gov/env/wpp/permits/wpcpermits-general.htm.
For MO-R permits visit www.dnr.mo.gov/env/wpp/permits/wpcpermits-stormwater.htm.

Effective Sept. 1, 2008, facilities are required to use *Missouri's Antidegradation Rule and Implementation Procedure.* This document is available on the Web at www.dnr.mo.gov/env/wpp/docs/aip-cwc-appr-050708.pdf. For more information please contact the Department at 800-361-4827 or 573-751-1300.

For some general permits, a construction permit is required prior to beginning construction of the facility. For other general permits, an exemption is provided from construction permit requirements. Please review the general permits at one of the web addresses noted above. For domestic wastewater treatment facilities, an engineering report, plans, and specifications as defined in 10 CSR 20-8.020 or 8.110 through 8.220 must be submitted for approval and issuance of a Construction Permit. If the facility is designed for greater than 22,500 gallons per day, the engineering report must be submitted and approved prior to submittal of the Form E Application, fee, plans and specifications. A Summary of Design Data must be submitted with the engineering plans and specifications.

2.00 Name of facility – by what name is this facility known locally? (e.g., Southwest Sewage Treatment Plant or Oak Hill Mobile Home Park.)

2.10 Give the street address of the facility. If the facility lacks a mailing address, give an accurate geographic description. (e.g., Intersection of Route A and M.)

3.00 Owner – legal name and address of owner.

4.00 Continuing Authority – permanent organization which will serve as the continuing authority for the operation, maintenance and modernization of the facility.

5.00 Operator – name, certificate number of person operating the facility.

6.00 Give name of person at the facility who can be contacted by the Department if necessary.

7.00 An outfall is the point(s) at which wastewater is discharged. For storm water this may be the point(s) where water leaves the property. Outfalls should be given in terms of the legal description of the facility. Sufficient information should be submitted so the outfall may be located by Department staff.

7.10 Receiving stream(s) – the name of the stream(s) to which the discharge is directed and any subsequent tributary until a lake or continuous flowing stream is reached.

7.30 A combined sewer system is one in which the sanitary and storm sewers are one pipe. In Missouri, parts of Macon, Moberly, Cape Girardeau, St. Joseph, Kansas City, Sedalia and all of the city of St. Louis are on combined sewer systems. To find out information, consult with your municipal public works department or, if in St. Louis, the St. Louis Metropolitan Sewer District (MSD). **If this discharge is to a combined sewer system, it is exempt from storm water permitting requirements. You do not need to file this application if it is for storm water discharges only.**

7.40 List only your primary Standard Industrial Classification, or SIC, code. The SIC system was devised by the U.S. Office of Management and Budget to cover all economic activities. The primary SIC code is that of the operation that generates the most revenue, or, secondly, employs the most personnel. To find the correct SIC code, contact the Missouri Department of Natural Resources at 573-526-6627 or refer to the following Web sites: www.census.gov/epcd/www/naicstab.htm or www.osha.gov/pls/imis/sicsearch.html. Do not list the North American Industry Classification System (**NAICS)** code.

7.50 Please list anything stored outside, including wood pallets, empty storage barrels, waste disposal containers (except for a secured Dempsey dumpster), or **anything** that is a raw material, by-product, or product of your manufacturing activities.

If your facility is listed under any of the following SIC codes or major group codes, and you can certify that no materials are stored outside, then **you are exempt from storm water permitting requirements. You do not need to file this application if it is for storm water discharges only.** This information refers to the first two, first three, or all four numbers of your SIC code listed in 7.40 above. The SIC codes that are exempt from regulations if **no** materials are stored outside are: 20xx-23xx, 25xx, 265x, 267x, 27xx, 283x, 285x, 30xx, 31xx, 323x, 34xx-39xx, and 4221-4225.

7.60 A map showing the facility in relation to the local roads and receiving streams is required. Attach a 1" = 2000' scale U.S. Geological Survey topographic map, available from the department's Division of Geology and Land Survey in Rolla at 573-368-2125.

7.70 If this is an existing discharge, submit a list of pollutants analyzed in the past two years and any laboratory findings.

7.80 Give the method of domestic wastewater disposal; identify the future method if the site is currently undeveloped. If public sewers, give name of sewer agency. If private system with a State Operating Permit, give name of facility and permit number. If other, please describe.

8.00 Signature – all applications must be signed as follows and the signature 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 (owner).
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.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
FORM G – APPLICATION FOR STORMWATER PERMIT (FORM E MUST BE INCLUDED)
UNDER THE GENERAL PERMIT: LAND DISTURBANCE (MORA AND MOR100)

Applicants wishing to obtain a MORA permit must apply using the ePermitting system, unless prior approval has been granted by the department. To request approval please call the Department of Natural Resources' Water Protection Program at 573-751-1300. For more information, or to use ePermitting, visit dnr.mo.gov/env/wpp/epermit/help.htm.

NAME OF DEVELOPMENT*
Current River SP, New Development - Facility 1 WWTP

PHASE (INDICATE PHASE I, II, ETC., IF APPLICABLE)

NATURE OF CONSTRUCTION ACTIVITY
State Park - installation of sanitary sewer collection and treatment system

PHYSICAL LOCATION OF DEVELOPMENT (ADDRESS, IF ASSIGNED)**
County Road 19-250, Salem, MO 65560

DATE CONSTRUCTION IS TO BEGIN
2/24/15

Total area of site: 408.00 acres

Total area of land to be disturbed: 8.17 acres

Has a Stormwater Pollution Prevention Plan (SWPPP) been developed for this site?
(This plan must be developed in accordance with requirements and guidelines specified within the general permit for stormwater discharges from land disturbance activities. The application will be considered incomplete if the Stormwater Pollution Prevention Plan has not been developed. Do not enclose a copy of the plan. A copy of the Stormwater Pollution Prevention Plan may be requested by the department at any time.)
☑ Yes ☐ No

Is any part of the area that is being disturbed discharging to a jurisdictional water of the United States?
☐ Yes ☑ No

If yes, have you received a Clean Water Act Section 404 permit for this site from the U.S. Army Corps of Engineers?
☐ Yes ☑ No

There may be an established Local Authority Erosion Control Plan in the city or county where land disturbance activities covered under this general permit will occur. Please contact your local authority to determine if any requirements exist.

I certify 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 an applicant under the Missouri Clean Water Law of the Missouri Clean Water Commission.

NAME AND OFFICIAL TITLE	TELEPHONE NUMBER WITH AREA CODE
Chris Crocker, Director of Planning & Development	
SIGNATURE	DATE SIGNED
Christopher Crocker	1-14-2015

Note: This form must be submitted with the permit fee ($300), map and *Form E – Application for a General Permit* (780-0795). The form is available at dnr.mo.gov/forms/780-0795.pdf.

A map of the department's regional offices is available on the department's website at www.dnr.mo.gov/regions/regions.htm.

*In the case of an MOR100 permit, the name of the development should be the name of the entity applying for the permit.

**If applying for an MOR100 permit, use the company office address.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
(SEE MAP FOR APPROPRIATE REGIONAL OFFICE)

FORM I – PERMIT APPLICATION FOR CONSTRUCTION AND OPERATION OF WASTEWATER IRRIGATION SYSTEMS

FOR AGENCY USE ONLY
PERMIT NUMBER MO -
DATE RECEIVED

INSTRUCTIONS: The following forms must be submitted with Form I: FORM B for domestic wastewater. **Submit FORMS E and G** for land disturbance permit if construction areas total one acre or more.

1.00 FACILITY INFORMATION

1.10 Facility Name

Current River SP, New Development - Facility 1 WWTP

1.20 Application for:
- ☑ Construction Permit (attach Engineering report, Plans and Specifications per 10 CSR 20-8)
- ☑ Operating Permit (if no construction permit, attach engineering documents)
  Date Irrigation System Began Operation: _____
- ☐ Operating Permit Renewal

1.30 Type of wastewater to be irrigated: ☐ Domestic ☐ Municipal ☑ State/National Park ☐ Seasonal business
☐ Municipal with Pretreatment Program or Significant Industrial Users ☐ Other (explain) _____
SIC Codes (list all that apply, in order of importance) _____

1.40 Months when the business or enterprise will operate or generate wastewater:
☑ 12 months per year ☐ Part of year (list Months): _____

1.50 This system is designed for:
☑ No-discharge ☐ Partial irrigation when feasible and discharge rest of time.
☐ Irrigation during recreation season (April – October) and discharge during November – March.
☐ Other (explain) _____

1.60 List the Facility outfalls which will be applicable to the irrigation system from outfalls listed on Form B.
Outfall Nos. ___ ___ ___ ___ ___ ___ ___

2.00 STORAGE BASINS

2.10 Number of storage basins: 0 Type of basin: ☐ Steel ☐ Concrete ☐ Fiberglass ☐ Earthen
☐ Earthen with membrane liner

2.20 Storage basin dimensions at inside top of berm (feet): Report freeboard as feet from top of berm to emergency spillway or overflow pipe.
(Complete Attachment A: Profile Sketch)
Basin #1: Length _____ Width _____ Depth _____ Freeboard _____ Berm Width _____ % Slope _____
Basin #2: Length _____ Width _____ Depth _____ Freeboard _____ Berm Width _____ % Slope _____

2.30 Storage Basin operating levels (report as feet below emergency overflow level)
Basin #1: Maximum water level _____ ft. Minimum operating water level _____ ft.
Basin #2: Maximum water level _____ ft. Minimum operating water level _____ ft.

2.40 Depth of sludge in lagoons and storage basins _____ ft.
Total sludge stored _____ dry tons _____ cu. ft.

3.00 LAND APPLICATION SYSTEM

3.10 Number of irrigation sites 1 Total Acres 4.12 Maximum % field slopes 15%
Location: ___ ¼, ___ ¼, ___ ¼, 8 Sec. 30N T 4W R Shan County ___ Acres
Location: ___ ¼, ___ ¼, ___ ¼, ___ Sec. ___ T ___ R _____ County ___ Acres

3.11 Type of vegetation: ☐ Grass hay ☑ Pasture ☐ Timber ☐ Row crops ☐ Other (describe) _____

3.20 Wastewater flow (dry weather) gallons/day:
Average annual: 23,910.5 Seasonal _____ Off-season _____
Months of seasonal flow: 12
Human Population Equivalent: 239

3.21 Land Application rate per acre (design flow including 1 in 10 year storm water flows):
Design: ____ inches/year ____ inches/hour ____ inches/day ____ inches/week
Actual: ____ inches/year ____ inches/hour ____ inches/day ____ inches/week
Total Irrigation per year (gallons): _____ Design _____ Actual
Actual months used for Irrigation (check): ☑ Jan ☑ Feb ☑ Mar ☑ Apr ☑ May ☑ Jun ☑ Jul ☑ Aug ☑ Sep ☑ Oct ☑ Nov ☑ Dec

3.22 Land Application Rate is based on:
☐ Nutrient Management Plan (N&P)
☑ Hydraulic Loading
☐ Other (describe) _____

3.30 Equipment type: ☐ Sprinklers ☐ Gated pipe ☐ Center pivot ☐ Traveling gun ☑ Other (describe) LPP
Equipment Flow Capacity: 50 Gallons per hour 8760 Total hours of operation per year

3.40 Public Access Restrictions for irrigation sites: ☐ Site is Fenced ☐ Wastewater disinfection prior to irrigation
☑ Other (describe): Subsurface discharge

3.50 Separation distance (in feet) from the outside edge of the wetted irrigation area to down gradient features:
____ Permanent flowing stream ____ Losing Stream ____ Intermittent (wet weather) stream ____ Lake or pond
200 Property boundary 200 Dwellings 500 Water supply well ____ Other (describe) _____

3.60 SOILS INFORMATION: Use information from the County Soil Survey, NRCS, or professional soil scientist.
Soil Series Name _____ Depth of bedrock > 4 Feet Depth of water table > 4 Feet
Soil Infiltration rate in inches/hour (in/hr) for most restrictive layer within the following soil depth ranges:
0.6 In/hr for 0-12 in soil depth 1.0 In/hr for 12-24 inch soil depth 0.2 In/hr for 24-60 inch soil depth

3.70 Include a recent Geologic Report by the Department's Geological Survey and Resource Assessment Division with your construction permit.

3.80 Attach a current copy of the Operation and Maintenance (O&M) Plan for the irrigation system. Date of O&M Plan: _____

3.81 Attach a site map showing topography, storage basins, irrigation sites, property boundary, streams, wells, roads, dwellings and other pertinent features.

3.82 Attach a facility sketch showing treatment units, storage basins, pipelines, irrigation equipment, application sites and other features.

4.00 CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment.

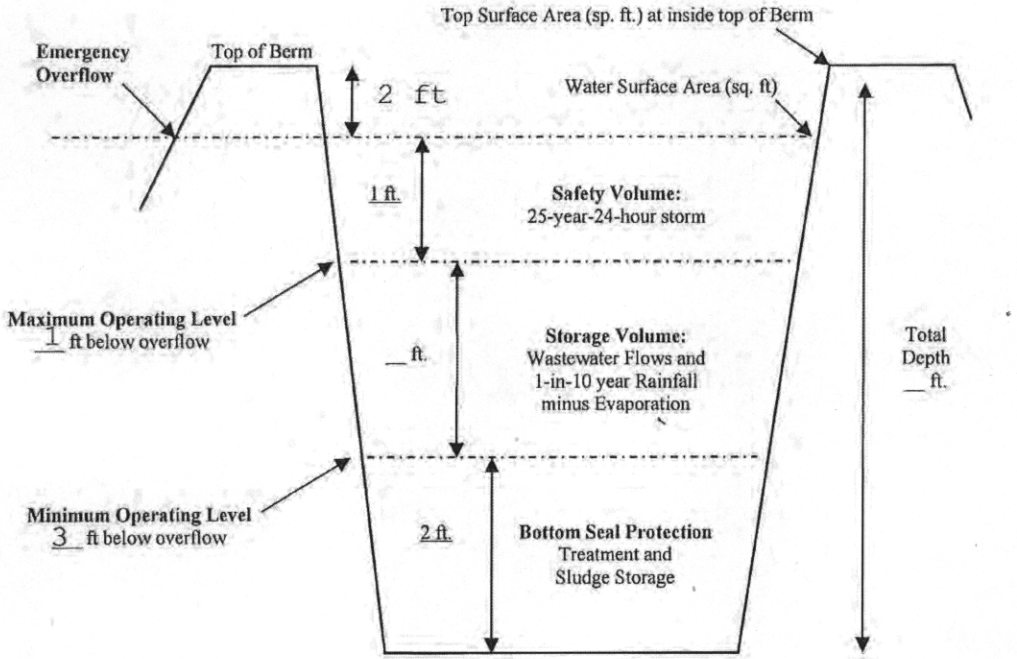
CONSULTING ENGINEER – Name, Official Title and Engineering Firm (TYPE OR PRINT)	TELEPHONE NUMBER (area code and number)
Kevin Hannel, Engineering Manager, Farnsworth Group	(309) 663-8435
SIGNATURE Kevin N. Hannel	DATE SIGNED 1/13/15
OWNER OR AUTHORIZED REPRESENTATIVE – Name and Official Title (TYPE OR PRINT)	TELEPHONE NUMBER (area code and number)
Chris Crocker, Director of Planning & Development	(573) 522-6390
SIGNATURE Christopher G. Crocker	DATE SIGNED 1-14-2015

ATTACHMENT A

(To be included with Form I)

~~Lagoon~~ or Storage Basin

PROFILE SKETCH



DEFINITION OF TERMS (REFER TO THE PROFILE SKETCH ABOVE).

a. Freeboard is depth from top of berm to emergency spillway (minimum 1 foot);
b. Safety Volume is depth for 25-year, 24-hour storm (minimum of 1 foot);
c. Maximum Operating Level is at bottom of the safety volume (minimum of 2 feet below top of berm).
d. Minimum Operating Level is 2 feet above bottom of lagoon for seal protection per 10 CSR 20-8.
   The minimum operating level may be greater than 2 feet when additional treatment volume is included.
e. Storage Volume and days storage are based on the volume between Minimum and Maximum Operating Levels.
f. Total Depth is from top of berm to bottom of basin including freeboard.