STATE CONSTRUCTION PERMIT
Permit Number: AR0020001C

To:

Honorable Larry Bowen
Mayor, City of Tuckerman
P.O. Box 1068
Tuckerman, AR 72473

Consulting Engineer:

Craig Johnson, P.E.
Crist Engineers, Inc
1405 North Pierce St., Suite 301
Little Rock, AR 72207

This permit is your authority to modify the wastewater treatment system in accordance with the permit application and plans and specifications which were received on July 24, 2015, with additional information received on July 31, 2015 and August 18, 2015 under authority of the Arkansas Water and Air Pollution Control Act (Arkansas Code Annotated §8-4-101 et seq. and Arkansas Code Annotated §8-4-201 et seq.) and the following terms and conditions.

1. The treatment system shall be modified in accordance with the final plans and specifications as approved by the Arkansas Department of Environmental Quality (ADEQ). In case any statement or representation in the aforementioned documents is found to be incorrect, this approval may be revoked.

2. There should be no deviation from the approved plans and specifications unless the revisions have been submitted for review and written approval is received.

3. Within thirty (30) days of completion of construction, a Professional Engineer (PE) registered in Arkansas shall submit written certification to the Department (Permits Branch of the Office of Water Quality) that the facility has been constructed or modified in accordance with the approved plans and specifications.

4. This permit is issued in reliance upon the statements and representations made in the application and the plans and specifications. Issuance of a State Construction Permit does not guarantee satisfactory operation of the treatment system. The permittee shall ensure that water quality standards are not violated. Any modifications to the treatment facility necessary to meet water quality standards are the responsibility of the permittee and would require a modification to this State Construction Permit.

5. A State Construction Permit for modification of an existing wastewater treatment facility does not constitute an NPDES permit. Issuance of a State Construction Permit for modification of a treatment system in no way guarantees or assumes that an application for an NPDES permit to operate the system will be approved or an NPDES permit will be issued.

6. A complete "Operations and Maintenance (O&M) Manual" of the wastewater treatment system shall be developed by the engineering consultant for the operator's use before the plant is in operation.

7. If a construction site will disturb equal to or greater than one (1) acre and less than five (5) acres, the permittee shall comply with the requirements in Reg. 6.203 for Stormwater discharge associated with a small construction site, as defined in APC&EC Regulation No. 6. If the construction site will disturb five (5) acres or more, the permittee shall comply with the terms of the Stormwater Construction General Permit Number ARR150000 prior to the start of construction. BMPs must be implemented regardless of the size.

8. This facility is located as follows: Latitude: 35° 43' 10.41" Longitude: 91° 11' 13.38"; on Allen Street approximately one mile east of U. S. Highway 67 in Jackson County, Arkansas.

9. The receiving waters named: Tuckerman Ditch thence to Village Creek thence to the White River in Segment 4C of the White River Basin. The outfall is located at the following coordinates: Outfall 001: Latitude: 35° 43' 8.9"; Longitude: 91° 11' 13.7".

10. The modification will include adding a baffle curtain system in the facultative pond, replacing the rock reed filters with coagulant chemical addition and a sand filter system, and replacing the UV disinfection with chlorination disinfection and dechlorination with a design flow of 0.22 MGD as a HCR. The existing treatment system is: a 2-cell oxidation pond with aerators followed by four rock reed filters and ultraviolet disinfection with a design flow of 0.22 MGD as a HCR. After modification, the treatment system will be: 2-cell facultative pond, polishing pond, recycle pump, coagulant chemical addition, sand filter system, chlorination, and dechlorination with a design flow of 0.22 MGD as a HCR.

    The decommissioning of the rock reed filters will require that all liquid and solid waste be removed from the rock reed filter beds. The liquid waste may be pumped back to the headworks of the treatment plant for treatment and disposal. The solid waste must be removed and hauled to a permitted landfill. The solid waste includes, but is not limited to, the influent solid waste and the reeds and rocks from the rock reed filter beds. Once the rock reed filter beds are cleaned of all liquid and solid waste, they may be filled in to match the grade and surrounding elevations.

11. Failure to begin construction within one (1) year of the effective date may result in termination of this permit if a request for an extension is not submitted to the Department in a timely manner.

12. The permittee must submit notification of the start of construction within fifteen (15) days after construction has begun.

Effective Date: March 1, 2016

Caleb J. Osborne
Associate Director, Office of Water Quality
Arkansas Department of Environmental Quality

2/29/16
Issue Date

FINAL STATEMENT OF BASIS

For a State Construction Permit Number AR0020001C.

The issuing office is:

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118

The applicant is:

City of Tuckerman
P.O. Box 1068
Tuckerman, AR 72473

1. BASIS FOR PERMIT AND CONDITIONS

This permit is your authority to modify the wastewater treatment system in accordance with the permit application and plans and specifications which were received on July 24, 2015 with additional information received on July 31, 2015 and August 18, 2015. The issuance of this permit and conditions are based on the Arkansas Water and Air Pollution Control Act (Arkansas Code Annotated §8-4-101 et seq. and Arkansas Code Annotated §8-4-101 et seq.), Arkansas Pollution Control and Ecology Commission (APCEC) Regulation No. 6.202, NPDES Discharge permit AR0020001, and 40 CFR 122.26.

Specific permit conditions and their sources are listed as follows:

Conditions 1, 2, 3, 4, 5, 6, 8, 9, 11 and 12 are self-explanatory. Condition 7 is based on 40 CFR 122.26(b)(15). Condition 10 is based on submitted application and Plans and Specifications.

The modification will include adding a baffle curtain system in the facultative pond, replacing the rock reed filters with coagulant chemical addition and a sand filter system, and replacing the UV disinfection with chlorination disinfection and dechlorination with a design flow of 0.22 MGD as a HCR. The existing treatment system is: a 2-cell oxidation pond with aerators followed by four rock reed filters and ultraviolet disinfection with a design flow of 0.22 MGD as a HCR. After modification, the treatment system will be: 2-cell facultative pond, polishing pond, recycle pump, coagulant chemical addition, sand filter system, chlorination, and dechlorination with a design flow of 0.22 MGD as a HCR. Modification of the discharge permit will be included in the renewal discharge permit.

It should be noted that the decommissioning of the rock reed filters will require that all liquid and solid waste be removed from the rock reed filter beds. The liquid waste may be pumped back to the headworks of the treatment plant for treatment and disposal or hauled by a licensed hauler to the appropriate facility. The solid waste must be removed and hauled to a permitted landfill. Solid waste includes all solid waste from the influent, the treatment process, rocks and reeds from the rock reed filter. Once the rock reed filter beds are cleaned of all liquid and solid waste the old filter beds may be filled in to grade to match the surrounding elevations.

Modification of the discharge permit is required since the wastewater operator license condition will be updated from a Class II license to a Class III license. In addition, the treatment system description will be updated in the Statement of Basis of discharge permit AR0020001.

2. SOURCES

1. Application Form 1 and Plans and Specifications dated July 24, 2015, with additional information received on July 31, 2015 and August 18, 2015.
2. 2004 Edition of Recommended Standards for Wastewater Facilities (10-SS).
3. APC&EC Reg. 6, Reg. 8, and Reg. 9.
4. A.C.A. §8-4-217(b)(1)(C).
5. 40 CFR 122.26.
6. Arkansas Department of Health Approval Letter dated August 12, 2015.
7. "Disinfection Profiling and Benchmarking Guidance Manual", EPA 815-R-99-013, August 1999.
8. "Wastewater Technology Fact Sheet Dechlorination", EPA 832-F-00-022, September 2000.
9. "Wastewater Technology Fact Sheet Facultative Lagoons", EPA- 832-F-02-014, September 2002.
10. Email from Craig Johnson to Eleanor Goins in regards to closing the rock reed filters dated July 31, 2015.

3. CONTACT PERSON

The ADEQ contact person for submitting written comments, requesting information, or obtaining copies of the application, permit, and the Statement of Basis is:

Jessica Temple
NPDES Branch, Office of Water Quality
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317
(501) 682-0621