



October 11, 2021

Bryan Leamons, Office of Water Quality
Arkansas Department of Energy and Environment
Division of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118
(via email)

RE: Little Rock Water Reclamation Authority – Adams Field Water Reclamation Facility
NPDES Permit No. AR0021806
Temporary Variance – Ammonia Nitrogen (NH₃-N)
Final Report – Certification of Compliance with Final Effluent Limits

Dear Mr. Leamons:

In accordance with the temporary variance granted by Secretary Keogh on April 23, 2021, Little Rock Water Reclamation Authority (LRWRA) submits this letter and accompanying attachments as its final report and certification of compliance with final effluent limits.

Based on the review by Black and Veatch (see attached) and evaluation by LRWRA staff, I certify that LRWRA is in compliance with the final effluent limits for Ammonia Nitrogen and can maintain compliance with those final limits.

If you have any questions about this report or the construction activities at Adams Field, please reach out to me at (501) 688-1486 or Jamie.ewing@lrwra.com. Thank you for your consideration of this report.

Sincerely,

Jamie Ewing
Director, Environmental Assessment Department
Little Rock Water Reclamation Authority

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Jamie L. Ewing
Director of Environmental Assessment



28 September 2021

Mr. John Holloway, P.E.
Little Rock Water Reclamation Authority
11 Clearwater Drive
Little Rock, Arkansas 72204

**Re: Adams Field Water Reclamation Facility
Nutrient Removal Project – Plant Certification**

Dear Mr. Holloway:

This letter is in response to the above-referenced project and the plant certification requirements stipulated in the 2018 renewal for NPDES Permit No. AR0021806, and the compliance requirements defined in Part I, Section A (Final Effluent Limitations). As you are aware, the Return-Activated-Sludge (RAS) Pump Station went into operation in May 2021 as the last major process component of the nutrient removal portion of this project. As such, allowing for a brief period for the plant operations staff to familiarize themselves with the equipment and adjust operations as necessary, data submitted in the Discharge Monitoring Reports (DMRs) for June, July, and August 2021 was used to assess the performance of the plant's nutrient removal capabilities with respect to the plant's permitted discharge requirements.

From a review of the data, the plant is in operational compliance with the stated permit criteria. Therefore, Black & Veatch is submitting the attached certification of plant performance related to this project.

Please review and let me know if you have any questions. Sincerely,

Bently C. Green, P.E.
Project Director

**CERTIFICATION OF PERFORMANCE
FOR NUTRIENT REMOVAL FOR THE
ADAMS FIELD WATER RECLAMATION FACILITY
LITTLE ROCK WATER RECLAMATION AUTHORITY
NPDES PERMIT NO. AR0021806**

As required under the renewal of NPDES Permit No. AR0021806, the Adams Field Water Reclamation Facility is hereby certified for performance with respect to nutrient removal capabilities that are in compliance with the approved permit and effluent discharge criteria for the facility. The effluent discharge criteria data for the facility was observed from June 1, 2021 to September 21, 2021 and was found to be in compliance with the permitted criteria at all times.

Black & Veatch, having access to the necessary data, and having monitored the construction of the project, hereby certifies that the project as built meets the performance and operational requirements applicable to the project and the applications for which the project was planned, designed, and built to achieve, and previously approved by the Arkansas Department of Energy and Environment, Division of Environmental Quality (DEQ). Black & Veatch also certifies that the facility is expected to continue meeting the permit criteria into the future.



Bently C. Green, P.E.
Project Director
Black & Veatch

September 28, 2021

Date

	June			July			August		
	Mass (lbs/day)	Monthly Avg (mg/L)	7-Day Avg (mg/L)	Mass (lbs/day)	Monthly Avg (mg/L)	7-Day Avg (mg/L)	Mass (lbs/day)	Monthly Avg (mg/L)	7-Day Avg (mg/L)
BOD	759	3.97	8.18	462	3.62	4.90	267	2.25	2.85
CBOD	276	1.48	2.16	197	1.62	1.92	142	<1.20	<1.20
TSS	1491	7.0	12.9	533	4.2	5.3	298	<2.5	<2.5
Ammonia	485	3.01	5.20	318	2.41	4.57	608	5.06	7.87
Total Phosphorus	N/A	0.082	0.082	N/A	0.158	0.158	N/A	0.067	0.067
Nitrate+Nitrite	N/A	N/A	N/A	N/A	N/A	N/A	833	6.83	6.83
FCB (MPN/100mL)	N/A	4	285	N/A	1	2	N/A	2	4
	Monthly Avg	Min	Max	Monthly Avg	Min	Max	Monthly Avg	Min	Max
Flow (MGD)	22.35	N/A	40.51	15.49	N/A	19.45	14.55	N/A	21.83
pH (S.U.)	N/A	6.72	7.07	N/A	6.60	6.89	N/A	6.72	7.14
PAA (mg/L)	N/A	N/A	1.12	N/A	N/A	N/A	N/A	N/A	N/A