



WEST MEMPHIS UTILITY COMMISSION

P O Box 1868 604 East Cooper
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West Memphis, AR 72301

To – ADEQ

Attention – David Miller

From – Paul Holloway

Date – 3/12/2018

Subject – Bypass of plant

Here is the summary of the bypass of our plant starting at 2/28/2018 at 11:00 am, thru the closing of our bypass valve at 8:00 am on 3/5/2018. This bypass was due to 15.02 inches of rainfall from February 4st thru March the 2nd. This amount of rainfall represents 1/4 the amount of rainfall we receive in a year just for this rain event. 9.77 inches of rain fell in a 7 day period at the end of February. This caused our pond to fill up. The list of flow and sampling data are listed below for this event. The effluent flow is the total amount that went to the river. Pond flow is mixed with influent flow to make up the total effluent flow.

Influent Flow	Head works	Effluent Flow	Pond Bypass Flow
3/1	10.8 mgd	17.6 mgd	6.8 mgd
3/2	11.4 mgd	18.8 mgd	7.4 mgd
3/3	8.6 mgd	13.7 mgd	5.1 mgd
3.4	8 mgd	11.1 mgd	3.1 mgd
3/5	7.8 mgd	10.1 mgd	2.3 mgd

This is the summary of the testing of the effluent during the bypass event.

	Effluent TSS mg/l	Effluent BOD mg/l	Eff D. O.	Effluent PH	Fecal
3/1	14.9	8.5	11.9	6.9	97
3/2	13.7	11.9	13.7	6.94	24195
3/3	7	9.5	10.6	7.04	24195
3/4	6.2	6.1	11.1	7.17	10
3/5	5.7	5	10.5	7.02	11199

If anything, else needed please call me at 870-735-9862.

Director of Wastewater