

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY  
MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION  
MONTHLY MONITORING REPORT**

<b>PERMITTEE NAME</b>
City of Cave Springs
<b>PERMITTEE ADDRESS</b>
PO Box 5 Cave Springs AR 72718

<b>FACILITY NAME (IF DIFFERENT)</b>
City of Cave Springs WWTS
<b>FACILITY ADDRESS</b>
The Creeks Golf Course 1499 S Main St Cave Springs AR 72718


<b>PERMIT NO.</b>
4893-WR-2

<b>AFIN NO.</b>
04-01642

<b>WASTEWATER EFFLUENT MONITORING PERIOD</b>		
MM/DD/YYYY		MM/DD/YYYY
9/1/2018		9/30/2018

**TREATED WASTEWATER EFFLUENT SAMPLING**

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Carbonaceous Biochemical Oxygen Demand (CBODs)	15	< 2.2	mg/l	GRAB SAMPLE ONCE A MONTH	Prior to the 15th of the following month
Total Suspended Solids (TSS)	15	2.6	mg/l		
Fecal Coliform Bacteria (FCB)	10,000	< 1	colonies/100ml		
pH	6.0 - 9.0	7.4	s.u.		
Total Phosphorus (TP)	REPORT	7.8	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	21	mg/l		
Ammonia Nitrogen (NH <sub>3</sub> -N)	REPORT	14.4	mg/l		
Nitrate Nitrogen (NO <sub>3</sub> - N)	REPORT	43.8	mg/l		
Nitrite Nitrogen (NO <sub>2</sub> - N)	REPORT	< 0.015	mg/l		
Total Solids	REPORT	0.036	Percentage (%)		
Plant Available Nitrogen (PAN)	REPORT	60.2	mg/l		
Flow Monthly Total	REPORT	2.638853	MGD		
Flow Daily Maximum	REPORT	0.099892	MGD		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	Telephone	Date
			(479) 530-5926	10/4/2018
TYPED OR PRINTED				

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

# Environmental Services Company, Inc.

Corporate Office  
 13715 West Markham  
 Little Rock, AR 72211  
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch  
 1107 Century Avenue  
 Springdale, AR 72762  
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1809020032	Sample Date : 09/05/18	Collected By: NR
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1230	Delivery By : NR
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 09/13/18	Sample From : EFFLUENT DIVERTER BX	Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>							<u>Precision</u>	<u>Accuracy</u>	
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>% RPD</u>	<u>% Recovery</u>
09/06	1000	TSB	Ammonia as N, (HACH 10205)	14.4 mg/L			SM 2011 4500-NH3 F	0.60	98.2 *
09/13	0830	TSB	Total Kjeldahl Nitrogen	21.0 mg/L			02/2014 HACH 10242	5.99	102.6
09/06	1145	TSB	Nitrate Nitrogen	43.80 mg/L			01/2013 HACH 10206	0.17	102.2 *
09/06	1200	TSB	Nitrite Nitrogen	< 0.015 mg/L			06/2017 HACH 10207	7.21	107.0
09/06	1232	NTR	pH	7.4 S.U.			SM 2000 4500-H+ B		
09/06	0830	TSB	Phosphorous, Total (as P)	7.8 mg/L			EPA 365.3	1.89	108.0 *
09/11	1100	TSB	Solids, Total Suspended	2.6 mg/L			SM 1997 2540 D	4.65	N/A *
09/05	1650	VLP	Fecal Coliform	< 1.0 /100ml			06/2012 Colilert18	0.00	0.0 *
09/05	1400	TSB	BOD, Carbonaceous	< 2.2 mg/L			SM 2001 5210 B	3.89	101.3 *
09/10	1535	TSB	Solids, % Total by mass	0.036 %			SM 1997 2540 G	2.74	N/A *
08/13	1300	TSB	Nitrogen, Plant Available	60.2 mg/L			SM 1997 4500-N		
09/05	1230	NTR	Sample Collection/Travel	1 each					

\* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature   
 Environmental Services Co., Inc.

