

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

PERMITTEE NAME
City of Cave Springs
PERMITTEE ADDRESS
PO Box 5 Cave Springs AR 72718

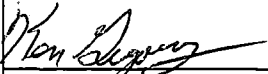
FACILITY NAME (IF DIFFERENT)
City of Cave Springs WWTS
FACILITY ADDRESS
The Creeks Golf Course 1499 S Main St Cave Springs AR 72718

PERMIT NO.
4893-WR-2
AFIN NO.
04-01642

WASTEWATER EFFLUENT MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2018	11/30/2018

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	15	< 2	mg/l	GRAB SAMPLE ONCE A MONTH	Prior to the 15th of the following month
Total Suspended Solids (TSS)	15	4	mg/l		
Fecal Coliform Bacteria (FCB)	10,000	< 1	colonies/100ml		
pH	6.0 - 9.0	6.4	s.u.		
Total Phosphorus (TP)	REPORT	6.72	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	13.2	mg/l		
Ammonia Nitrogen (NH ₃ -N)	REPORT	13	mg/l		
Nitrate Nitrogen (NO ₃ - N)	REPORT	44.7	mg/l		
Nitrite Nitrogen (NO ₂ -N)	REPORT	0.054	mg/l		
Total Solids	REPORT	0.048	Percentage (%)		
Plant Available Nitrogen (PAN)	REPORT	57.8	mg/l		
Flow Monthly Total	REPORT	2,300,534	MGD		
Flow Daily Maximum	REPORT	0.118278	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	12/4/2018
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

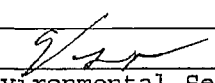
Control Number: 1811020043	Sample Date : 11/07/18	Collected By: NTR
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1019	Delivery By : NTR
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 11/16/18	Sample From : EFFLUENT DIVERTER BX	Purchase Order :

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>		
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
11/08	1300	TSB	Ammonia as N, (HACH 10205)	13.00 mg/L		SM 2011 4500-NH3 F	0.71	100.2 *
11/13	0800	TSB	Total Kjeldahl Nitrogen	13.2 mg/L		02/2014 HACH 10242	4.00	92.3 *
11/12	1300	TSB	Nitrate Nitrogen	44.70 mg/L		01/2013 HACH 10206	0.21	92.0 *
11/08	0830	TSB	Nitrite Nitrogen	0.054 mg/L		06/2017 HACH 10207	1.51	106.4 *
11/07	1026	NTR	pH	6.4 S.U.		SM 2000 4500-H+ B	1.60	N/A *
11/08	1100	TSB	Phosphorous, Total (as P)	6.720 mg/L		EPA 365.3	1.44	107.0 *
11/13	1040	TSB	Solids, Total Suspended	4.0 mg/L		SM 1997 2540 D	0.64	N/A *
11/07	1500	VLP	Fecal Coliform (MPN/100mL)	< 1.0 /100ml		06/2012 Colilert18	0.00	0.0 *
11/07	1400	TSB	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	18.18	114.0 *
11/12	1630	TSB	Solids, % Total by mass	0.048 %		SM 1997 2540 G	12.90	N/A *
11/13	1430	TSB	Nitrogen, Plant Available	57.8 mg/L		SM 1997 4500-N		
11/07		ESC	Sample Collection/Travel	1 each			0.00	0.0 *

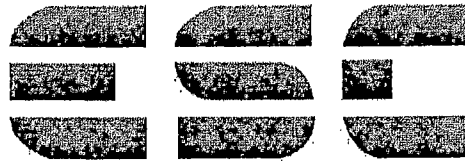
* QA data shown is from a different sample or standard on the same date.

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.

Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas
 501-221-2565

Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters										
Company Name:		Cave Springs Plant 2				Permit/Project #:					pH(23)	Fecal Coliform(43.1F)	CBOD(70), TSS(28), NO2(19)	NH3(15.A), P(25), TKN(16.A), NO3(18)	PAN(99.99), %Solids(82)						
Address:		PO BOX 5 Cave Springs 72718				Purchase Order #:															
Telephone:		479 248-1040				Sampler Name(s):		Ned Ryerson													
FAX:						and Signature(s):		Ned Ryerson													
ESC Client Number:		2379																			
Sample Identification			Sample Collection			Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Effluent Diverter Box	1811020043	11-7-18	1019	Grab	Water	Teflon	150 ml	none	1	X											
I	I	I	I	Grab	Water	whirlpak	300 ml	none/ice	1		X										
				Grab	Water	Plastic	0.5 gal	none/ice	1			X		X							
				Grab	Water	Plastic	8 oz	H ₂ SO ₄ , pH <2	1				X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>									
Comments:		FLOW DATA		Field Test	Time	Analyst	Result	Result	Units												
		Analyst:		pH:	7.26	NJR	6.4	6.4	5.4												
		Time:		Temp.:	10.26	NJR	18.2	18.0	(C)												
		Reading:		DO:																	
		Units:		Debris:																	
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page 1 of 1											

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