


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

<b>PERMITTEE NAME</b>	<b>FACILITY NAME (IF DIFFERENT)</b>	<b>PERMIT NO.</b>
City of Cave Springs	City of Cave Springs WWTS	4893-WR-2
<b>PERMITTEE ADDRESS</b>	<b>FACILITY ADDRESS</b>	<b>AFIN NO.</b>
PO Box 5 Cave Springs AR 72718	The Creeks Golf Course 1499 S Main St Cave Springs AR 72718	04-01642

WASTEWATER EFFLUENT MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
2/1/2018		2/28/2018

TREATED WASTEWATER EFFLUENT SAMPLING					
PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Carbonaceous Biochemical Oxygen Demand (CBODs)	15	3.7	mg/l	GRAB SAMPLE ONCE A MONTH	Prior to the 15th of the following month
Total Suspended Solids (TSS)	15	4.4	mg/l		
Fecal Coliform Bacteria (FCB)	10,000	2,200	colonies/100ml		
pH	6.0 - 9.0	7.3	s.u.		
Total Phosphorus (TP)	REPORT	6.3	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	17.3	mg/l		
Ammonia Nitrogen (NH <sub>3</sub> -N)	REPORT	16.4	mg/l		
Nitrate Nitrogen (NO <sub>3</sub> - N)	REPORT	31.25	mg/l		
Nitrite Nitrogen (NO <sub>2</sub> -N)	REPORT	0.549	mg/l		
Total Solids	REPORT	0.042	Percentage (%)		
Plant Available Nitrogen (PAN)	REPORT	48.5	mg/l		
Flow Monthly Total	REPORT	1.935209	MGD		
Flow Daily Maximum	REPORT	0.28345	MGD		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Ken Gregory	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.		Telephone	Date
			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	(479) 530-5926
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

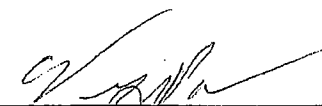
Control Number: 1802020073	Sample Date : 02/07/18	Collected By: AEU
Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2	Sample Time : 1117	Delivery By : AEU
Customer/Permit No. : 2379 / 4893-WR-2 002	Sample Type : GRAB	Work Order :
Report Date : 02/19/18	Sample From : EFFLUENT DIVERTER BX	Purchase Order :

<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>
02/08	1000	TSB	Ammonia Nitrogen	16.4 mg/L		SM 1997 4500-NH3 F	0.00	105.3 *
02/08	0800	TSB	Total Kjeldahl Nitrogen	17.3 mg/L		02/2014 HACH 10242	0.00	96.4 *
02/12	1500	TSB	Nitrate Nitrogen	31.25 mg/L		01/2013 HACH 10206	1.47	99.3 *
02/08	1400	TSB	Nitrite Nitrogen	0.549 mg/L		06/2017 HACH 10207	1.83	96.9 *
02/07	1117	AEU	pH	7.3 S.U.		SM 2000 4500-H+ B	1.71	N/A *
02/12	1200	TSB	Phosphorous, Total (as P)	6.3 mg/L		EPA 365.3	2.11	101.8 *
02/13	0930	AEU	Solids, Total Suspended	4.4 mg/L		SM 1997 2540 D	4.59	N/A *
02/07	1617	JCB	Coliform, Fecal	2200 /100ml		SM 9222 D 1997	0.00	N/A *
02/07	1400	TSB	BOD, Carbonaceous	3.7 mg/L		SM 2001 5210 B	0.00	108.8 *
02/14	1248	AEU	Solids, % Total by mass	0.042 %		SM 1997 2540 G	2.35	N/A
02/13	0845	TSB	Nitrogen, Plant Available	48.5 mg/L		SM 1997 4500-N		

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

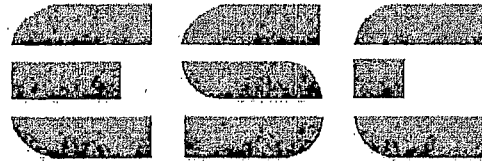
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of 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)	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				Purchase Order #:																	
Cave Springs 72718				Sampler Name(s): Amber Underwood																	
Telephone: 479 248-1040				and Signature(s): <i>[Signature]</i>																	
FAX:				ESC Client Number: 2379																	
Sample Identification		Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Effluent Diverter Box	1802020073	2/7/18	1117	Grab	Water	Teflon	150 ml	none	1	X											
				Grab	Water	whirlpak	300 ml	none/ice	1		X										
				Grab	Water	Plastic	1 qt	none/ice	1			X		X							
				Grab	Water	Plastic	8 oz	H <sub>2</sub> SO <sub>4</sub> , pH <2	1				X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Date	Time	Custody Seals:											
<i>[Signature]</i> Amber Underwood		2/7/18	1245	<i>[Signature]</i>						Used? <input checked="" 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:											
				<i>[Signature]</i> James Brooks				2/7/18	1245	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Comments:				FLOW DATA		Field Test	Time	Analyst	Result	Result	Units										
				Analyst:		pH:	1118	AEL	7.3	7.2											
				Time:		Temp.:	L	L	9.9	10.0	°F										
				Reading:		DO:															
				Units:		Debris:															
Cool all samples to 6 degrees C.								Chlorinated? Yes No		This Document is Page 1 of 1											