

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

PERMITTEE NAME City of Cave Springs
PERMITTEE ADDRESS P.O. Box 36 Cave Springs AR 72718

FACILITY NAME (IF DIFFERENT) Plant #2
FACILITY ADDRESS 498 Pebble Beach Dr.

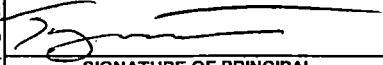
PERMIT NO. 4893-WR-2
AFIN NO. 04-01642

MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS FORM.

WASTEWATER EFFLUENT MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 11/01/2016	TO 11/30/2016

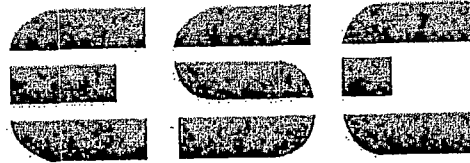
TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	*****	7.4	MG/L	ONCE/MONTH	GRAB	
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE	_____	6.8	MG/L	ONCE/MONTH	GRAB	
PH EFFLUENT GROSS VALUE	6 to 9	6.4	S.U.	ONCE/MONTH	GRAB	
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE	_____	15.0	MG/L	ONCE/MONTH	GRAB	
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE	_____	2400	N/100 ML	ONCE/MONTH	GRAB	
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	*****	22.40	MG/L	ONCE/MONTH	GRAB	
NITROGEN, AMMONIA TOTAL (AS NH ₃ N) EFFLUENT GROSS VALUE	*****	17.1	MG/L	ONCE/MONTH	GRAB	
NITROGEN, NITRATE + NITRITE (AS NO ₃ N + NO ₂ -N) EFFLUENT GROSS VALUE	*****	46.293	MG/L	ONCE/MONTH	GRAB	
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE		65.0	MG/L	ONCE/MONTH	GRAB	
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL	DAILY MAX	MGD	ONCE/MONTH	TOTAL FLOW
		1.85	.07			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Tony Merworth Water/Sewer Superintendent	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	295-3013	12/01/2016
TYPED OR PRINTED			AREA CODE	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

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): <i>Amber Underwood</i>																			
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	11211020030	11/2/16	1135	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 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:													
<i>Amber Underwood</i>		11/2/16	1530	<i>Richard Brown</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>Richard Brown</i>				11-2-16	1530	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>										
Comments:						FLOW DATA	Field Test	Time	Analyst	Result	Result	Units											
						Analyst:	pH:	1135	AEU	6.4	6.4	°F											
						Time:	Temp.:	1135	AEU	23.6	23.6	°C											
						Reading:	DO:																
						Units:	Debris:																
Cool all samples to 6 degrees C.									Chlorinated? Yes No			This Document is Page 1 of 1											

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: 1611020030
 Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2
 Customer/Permit No. : 2379 / 4893-WR-2 002
 Report Date : 11/10/16

Sample Date : 11/02/16
 Sample Time : 1155
 Sample Type : GRAB
 Sample From : EFFLUENT DIVERTER BX

Collected By: AU
 Delivery By : AU
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Result	Notes	Quantity	Method
Date	Time	By	Parameter			
11/03	0900	TSB	Ammonia Nitrogen		17.1 mg/L	SM 1997 4500-NH3 F
11/08	0800	TSB	Kjeldahl Nitrogen Total		22.40 mg/L	SM 1997 4500-NorgB
11/03	1100	TSB	Nitrate Nitrogen		45.83 mg/L	SM 2000 4500-NO3 E
11/03	0830	TSB	Nitrite Nitrogen		0.463 mg/L	SM 2000 4500 NO2 B
11/02	1155	AEU	pH		6.4 S.U.	SM 2000 4500-H+ B
11/03	1000	TSB	Phosphorous, Total (as P)		7.4 mg/L	EPA 365.3
11/08	0830	JCB	Solids, Total Suspended		15.0 mg/L	SM 1997 2540 D
11/02	1630	JCB	Coliform, Fecal		2400 /100ml	SM 9222 D 1997
11/02	1030	TSB	BOD, Carbonaceous		6.8 mg/L	SM 2001 5210 B
11/04	1400	JCB	Solids, % Total by mass		0.049 %	SM 1997 2540 G
11/08	1645	TTB	Nitrogen, Plant Available		65.0 mg/L	SM 1997 4500-N

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
0.00	102.7 *
0.00	100.2 *
0.12	99.4 *
0.00	95.3 *
0.00	N/A *
2.35	103.4 *
3.48	N/A *
17.39	N/A *
7.82	95.3 *
5.26	N/A *

* 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.

CAVE SPRINGS WATER DEPARTMENT

P.O. Box 5

CAVE SPRINGS, ARKANSAS 72718

RETURN SERVICE REQUESTED

ARIZONA
01 DEC 2016 PM 2 1



ADEQ
Enforcement Section/Water Div.
5301 Northshore Drive
North Little Rock, AR 72118

7211835317

