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

PERMITTEE NAME  City of Caue Springs  PERMITTEE ADDRÉSS	Plant.	NAME (IF DIFFERENT) せ 2 CILITY ADDRESS		PERMIT NO. 4893-WR-3 AFIN NO.	
RO. Box 36 Cave Springs AR 72718	498 Pe	bble Beach dr		04-01642	•
MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS FORM. FROM	WASTEWATER MM/DD/YYYY	EFFLUENT MONITORING PERIOD  MM/DD/YYYY  TO 0// 3// 80/		•	
	TREATED WASTEWATI	ER EFFLUENT SAMPLING		468	
PARAMETER	PERMIT REQUIREMENT	SAMPLE MEASUREMENT	UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE	****	6.1	MG/L	ONCE/ MONTH	GRAB
CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE		7.5	MG/L	ONCE/ MONTH	GRAB
PH EFFLUENT GROSS VALUE	6 to 9	7.6	S.U.	ONCE/ MONTH	GRAB
SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE		7.0	MG/L	ONCE/ MONTH	GRAB
COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE		14200 1/9/17	N/100 ML	ONCE/ MONTH	GRAB
NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE	****	33.60	MG/L	ONCE/ MONTH	GRAB
NITROGEN, AMMONIA TOTAL (AS NH₃N) EFFLUENT GROSS VALUE	*****	31.6	MG/L	ONCE/ MONTH	GRAB
NITROGEN, NITRATE + NITRITE (AS NO₃N + NO₂-N) EFFLUENT GROSS VALUE	****	42.7	MG/L	ONCE/ MONTH	GRAB
PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE	,	74.9	MG/L	ONCE/ MONTH	GRAB
FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE	*****	MONTHLY TOTAL DAILY MAX  1.87 .083	MGD	ONCE/ MONTH	TOTAL FLOW
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALTY OF LAW THAT I		D AM WITH THE		TELEPHONE	DATE
Tony Merworth Information submitted Herein; and immediately responsible for obtaining	G THE INFORMATION, I BELIEVE	THE SUBMITTED /		479 295-3013	02/2/1001
TYPED OR PRINTED IMPRISONMENT.	MATION, INCLUDING THE POSSIBILIT	TY OF FINE AND EXECUTIVE O	FFICER OR	AREA	02/01/2017 MM/DD/YYYY
COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all att Lost power to our compressors across resolved. Pulled additional samples to	achments here) tion chambers, Mo assure that we	stors failed to resta were back within a	art. Problem our permet	n has been ac limitations.	ldressed and

#### 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

# **CHAIN OF CUSTODY**

Phone: 479-750-1170	Fax: 479-750-1172		G	IAIN (	of Cu	510	DY											
	Client Information		<u></u>	Project Information								Rec	lues	sted	d Parameters			<u>;                                    </u>
Company Name:	Cave Springs	Plant 2		Permit/Pro	oject#:									<u>6</u>				
Address:	PO BOX 5			Purchase	Order #:						] .			33(1				
	Cave Springs	72718		]					-		1		(19)	ž	7	`		
Telephone:	479 248-1040			Sampler N	lame(s):	۸.			$\bigcap$	/	b		102		%Solids(82)			
FAX:						Ink	netalin	Dhipo		//	1	£3	1,0	Š	흥			٠
1777				and Signa	tura/e\	73113	A MI	111		/	1	È	38(2	5),T	%S			
ESC Client Number:	2379		· · · · · · · · · · · · · · · · · · ·	_and Signa	ture(s).			in			1	Fecal Coliform(43)	CBOD(70),TSS(28),NO2(19)	NH3(15.A), P(25),TKN(16.A), NO3(18)	PAN(99.99),			
Sample Ide			Sample	Collection		Ī	Sample	Container	'S		ନ୍ତ	l o	02	15.A)	(99			
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserv		#	pH(23)	မြို	98	13(.	AN		ļ	
Effluent Diverter Box		HOTT		Grab	Water	Teflon	150 ml	none		1						$\dashv$		_
	1701020343	Valla	1393	Grab	Water	whirlpak	300 ml	none/ice		1		х						
		71-1/1	- <del></del>	Grab	Water	Plastic	1 qt	none/ice		1								
				Grab	Water	Plastic	8 oz	H₂SO₄,pH	<2	1							1	
						1		241		<u>.</u>							_	
						1		-								$\dashv$	$\dashv$	
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Relinquished By: (Signature and Printe	d Maine)	// Date	Time V. K	Received By: (Sig	nature and Printed	Name)		Date	Tim	θ.	Custo	dy Se	als:					_
1/1/1/1/1/1/	Am her Undured	/1917-			nature and Printed						Used?	7		}	Intact	2		
Reinquished By: (Signature and Printe	d Name)	Dale '	Time	Received By: (Sig	nature and Printed	Name)		Date	Tim	- 1	Turnai		<del>.77</del> 1		C		_	$\exists$
Relinquished By: (Signature and Printe	d Name)	Date	Time	Received for Lab	By: (Signature and	Printed Name	)	Date	Tim	e.	Regula Were		les pro	perly	Speci preser		╀	$\dashv$
		amentan	060 Tame			1/19/17	100	_		Yes				۷o [				
Comments:		<del></del>	<del></del>		FLOW DA Analyst:		Field Test pH:	Time	Analys	st	Resul	lt	Resu	lt		Jnits		$\dashv$
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					Reading:		DO:								-			コ
					Units:		Debris:		L			$\prod$						$\Box$
raken dia samanan 2005 kanggi kamalangkan menjer Tricky (1906) P.B. Dian Tricky (1906)	Cool all samples to 6 de	grees C.	****				Chlorinated	? Yes N	0		This	Doc	umer	nt is f	Page	70	f _	

### 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: 1701020343

01/19 1455 JCB Coliform, Fecal

Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2

Parameter

Customer/Permit No. : 2379 / 4893-WR-2 002

01/19 1323 AEU Sample Collection/Travel

Report Date : 01/20/17

Analysis
Date Time By

Sample Date : 01/19/17

Sample Time : 1323

Sample Type : GRAB

572 /100ml

1 each

Sample From : EFFLUENT DIVERTER BX

Collected By: AU Delivery By : AU

Work Order:

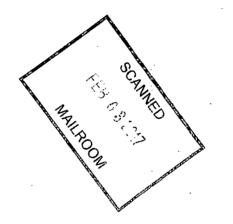
Purchase Order :

22.22

N/A:

Laboratory Analys	<u>sis</u>		·	Quality	<u>Assurance</u>
	•		,	Precision	Accuracy
Result	Notes	Quantity	Method	% RPD	% Recover

SM 9222 D 1997



\* 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.

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> Carlsbad, New Mexico 575-887-1ESC

## CHAIN OF CUSTODY

Phone: 479-750-1170	Fax: 4/9-/50-11/2		<u> </u>	MIN	71 00.														
Client Information					Project Information						Requested Parameters								
Company Name:	Cave Springs	Plant 2		Permit/Pro	oject#:									(38)				ı	
Address:	PO BOX 5			Purchase	Order #:								<u>@</u>	203				i	
	Cave Springs	72718				1		1					2(18	. A	82)				
Telephone:	479 248-1040	1		Sampler Name(s):		alm	per lu	MMM	sed	/			8	(16.	ids(				
FAX:	·			1		7				1		(43	(28)	X	%Solids(82)				
				and Signa	ture(s):		la l	NDSWI				E	SS.	(25),	, %				
ESC Client Number:	2379			1	`` \				<u> </u>	$\exists$		Coliform(43)	1,0	У. Р	.99		l		
Sample Ider	ntification	[	Sample	Collection			Sample (	Container	s	ヿ	23)	a	CBOD(70),TSS(28),NO2(19)	(15.4	PAN(99.99),		-		
Identification	ESC Control #	Date	Time	Туре	Matrix	Type	Volume	Preserva	ative		HE!	Fecal	CBC	NH3(15.A), P(25),TKN(16.A), NO3(18)	PA				
Effluent Diverter Box	1201020213	119/17	1201	Grab	Water	Teflon	150 ml	none		1	х								
	1	, , , , , , , , , , , , , , , , , , ,	167	Grab	Water	whirlpak	300 ml	none/ice		1		x							
				Grab	Water	Plastic	1 qt	none/ice		1			х		х				
				Grab	Water	Plastic	8 oz	H₂SO₄,pH	<2	1				х					
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// .	1				·		*				$\neg \uparrow$					$\neg$			
elinguished By: (Signature and Printer	INAME) WYDE I MODUWEY	Date	123C)	Received By: (Si	gnature and Printed	Name)		Date	Time			dy Sea	ils:						
signature and Printed	Name)	Date   Olate   Date	Time	Received By: (Si	gnature and Printed	l Name)		Date	Time	1	Jsed? umar	ound	М		Intac	?			
							<del></del>				Regula		otin  oti		Spec				
Relinquished By: (Signature and Printed Name) Date Time		ıme	Received for Lab	By: (Signature and	CHAZIV	BROWN	Date 1/9/17	Time 1236	'ו ל		sample Yes	es pro	perly p		ved: No	$\neg$			
Comments:				FLOW DA	ATA	Field Test	Time	Analyst		Result		t Result			Units				
					Analyst: Time:		pH:	1205	1/10	A	171		74	<u>Q</u>	<u> </u>	0		$\Box$	
				<del></del>	Reading:		Temp.: DO:	<u> </u>	H.G	AIL		개.	111	0	<u>~</u>		F		
		<del></del> -	<del></del>		Units:		Debris:			+				-+				ᅱ	
	Cool all samples to 6 de	grees C.					Chlorinated	? Yes N	0	T	his I	Doci	ımer	nt is F	age	<u> </u>	f⊥	ㅓ	
<del></del>																	_	_	

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

Control Number: 1701020303

Customer Name : CAVE SPRINGS, CITY OF OUTFALL 2

Customer/Permit No. : 2379 / 4893-WR-2 002

Report Date : 01/20/17

Sample Date : 01/09/17

Sample Time : 1201 Sample Type : GRAB

Sample From : EFFLUENT DIVERTER BX

Collected By: AU Delivery By : AU

Work Order : Purchase Order :

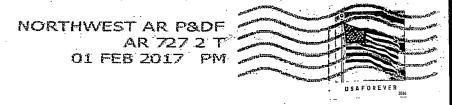
		Laboratory Analysis				Quality A	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result 1	Notes _	Quantity	Method	% RPD	% Recovery
01/12 0946 AEU	Ammonia Nitrogen	31.6 mg/L			SM 1997 4500-NH3 F	0.00	100.0 *
01/17 1300 TSB	Kjeldahl Nitrogen Total	33.60 mg/L			SM 1997 4500-NorgB	1.34	100.9 *
01/09 1311 AEU	Nitrate Nitrogen	40.60 mg/L			SM 2000 4500-NO3 E	1.87	109.0 *
01/10 1540 TSB	Nitrite Nitrogen	2.100 mg/L			SM 2000 4500 NO2 B	2.45	100.8
01/09 1205 AEU	рН	7.6 S.U.			SM 2000 4500-H+ B	0.00	N/A
01/10 1000 TSB	Phosphorous, Total (as P)	6.1 mg/L			EPA 365.3	1.87	103.9 *
01/11 1036 AEU	Solids, Total Suspended	7.0 mg/L			SM 1997 2540 D	0.00	N/A *
01/09 1638 AEU	Coliform, Fecal	14200 /100ml	(b)		SM 9222 D 1997	. 0.00	N/A *
01/11 1400 TSB	BOD, Carbonaceous	7.5 mg/L			SM 2001 5210 B	13.98	110.0 *
01/13 1215 AEU	Solids, % Total by mass	0.035 %			SM 1997 2540 G	1.06	N/A *
01/19 0825 TSB	Nitrogen, Plant Available	74.9 mg/L			SM 1997 4500-N		7
01/09 1205 AEU	Sample Collection/Travel	1 each					

(b) Exceeds Permit Limits for Maximum Concentration

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.

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

CAVE SPRINGS WATER DEPARTMENT
P.O. Box 5
CAVE SPRINGS, ARKANSAS 72718
RETURN SERVICE REQUESTED



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