ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION NO DISCHARGE MONTHLY MONITORING REPORT

		PERMITTEE NAME	v z	11.		
		CITY OF CAVE SPRINGS				
: '	,	PERMITTEE ADDRESS		7 44	٠.,	
		PO Box 5				_
		Cave Springs AR 72718				

·	FACILITY NAME
CAVE SPRING	S WASTEWATER TREATMENT PLANT
1 3	FACILITY ADDRESS
	The Creeks Golf Course
1499 5	Main St Cave Springs AR 72718

4893-WR-3	
AFIN NO.	
04-01642	
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 N	IONITORING P	ERIOD	
MM/DD/YYYY	ТО	MM/DD/YYYY	
9/1/2020		9/30/2020	

A CONTRACTOR OF THE STATE OF TH		DEBBUT I INST	SAMPLE MEA	SUREMENT		FREQUENCY OF	T			
PARAMET	EK	PERMIT LIMIT	Plant 1	Plant 2	UNITS	ANALYSIS	SAMPLE TYPE			
CARBONACEOUS BIOCHEMICAL OXY	GEN DEMAND (CBOD5)	30	3.1	< 2.0	MG/L	,				
TOTAL SUSPENDED SOLIDS (TSS)		45	8.6	7.3 MG/L						
FECAL COLIFORM BACTERIA (FCB)		10,000	2476.8	16.4	COLONIES/100ml	Once per Month / Grab				
pH		6.0 - 9.0	7	7 6.5		7				
TOTAL PHOSPHOROUS (TP)		Report	8.14	8.15	MG/L					
TOTAL KJELDAHL NITROGEN (TKN)		Report			MG/L					
NITROGEN AMMONIA NITROGEN (NH	s - N)	Report			MG/L	Once per Quarter / Grab				
NITRITE NITROGEN (NO 3 - N) + NITRA	TE NITROGEN (NO 2 - N)	Report			MG/L	Once per Qua	irter / Grab			
PLANT AVAILABLE NITROGEN (PAN)		Report MG/L								
TOTAL FLOW			MONTHLY TOTAL	DAILY MAX	GPD					
OTAL PLOW	,		3,902,841	149,193						
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		AW THAT I HAVE PERSONALLY EXAM ITTED HEREIN; AND BASED ON MY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 4. 1	h #	TELEPHONE	DATE			
	THOSE INDIVIDUALS IMMEDIA	ATELY RESPONSIBLE FOR OBT	AINING THE	117/11	$\mathcal{I}(\mathcal{U})$	479 530-5926	10/15/2020			
Kathy Bartlett		IBMITTED INFORMATION IS TRUE, AC AT THERE ARE SIGNIFICANT PE		SIGNATURE OF	PRINCIPAL	479 330-3920	10/13/2020			
TYPED OR PRINTED	SUBMITTING FALSE INFORMATION IMPRISONMENT.	ON, INCLUDING THE POSSIBILITY	OF FINE AND	EXECUTIVE O		AREA NUMBER	MM/DD/YYYY			
COMMENTS AND EXPLANATION C	F VIOLATIONS (Reference all	attachments here)								
					·					
	•									
							*			

`.	•	*		TABLE II				•	'
DRIP ZO	NES LOAD	ING RATE	LIMITS	. MONITORIN	G AND RE	PORTING	REQUI	REMEN	TS

			Sep-20		DAILY	149,19	
Zone ID	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum	<u> </u>
Leach Field 1	0.55		26,000			6026	
Zone 1	0.42	1 [19,524				
Zone 2	0.45] [19,309]		zones not being used	
Zone 3	0.4] [16,424			zones not being used	
Zone 4	0.46	1	10,811				
Zone 5	0.2		13,059		l [7460	
Zone 6	0.2] [7,723		l [4327	
Zone 7	0.2		10,910	1	l [5968	
Zone 8	0.3] [7,081		} [4029	
Zone 9	0.4] [18,291]	l [12193	
Zone 10	0.3] [9,450		} [4476	
Zone 11	0.2] [4,110		!	2089	
Zone 12	0.4] [7,522		1 [3134	
Zone 13	0.25	Ī [5,717	7		2388	
Zone 14	0.15] [6,097]	i [2835	
Zone 15	0.2	gpd/ft2 [8,378	gpd	Daily	4327	
Zone 16	0.4] [9,427	Ī	1 [4476	
Zone 17	0.23] [3,694]	•	1492	
Zone 19	0.35] [13,778]	!	7162	
Zone 20	0.2	7	5,766		i I	2388	
Zone 21	0.4		17,040	7	i j	8952	
Zone 22	0.5] [28,113]	1	19962	
Zone 23	0.25		15,640	7	i l	7908	
Zone 24	0.25	1 [9,547	7	1 [4476	
Zone 25	0.2] [4,436]	1 [2537	
Zone 26	0.3	1 [9,334	7	į [4327	
Zone 27	0.31] [16,511]	1	8952	
Zone 28	0.31] [13,018]	ļ	7311	
Zone 29	0.2		3,923]	1	1642	
Zone 30	0.55		10,116]		5968	
Zone 31	0.3	7 5	5,714	7	l i	2388	

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: 2009020014

Customer Name : CAVE SPRINGS UTILITY, PLANT 1

Customer/Permit No.: 1826 / 4893-WR-2

Report Date : 09/09/20

Sample Date : 09/02/20

Sample Time : 1310

Sample Type : GRAB
Sample From : EFFLUNET

Collected By: HNS Delivery By : HNS

Work Order :

Purchase Order:

		Laboratory Analysis			Quality A	ssurance
Analysis			•		Precision	Accuracy
Date Time By	<u> Parameter</u>	Result Notes	Quantity	<u>Method</u>	% RPD	<pre>% Recovery</pre>
09/02 1317 HNS	рН	7.0 S.U.		SM 2011 4500-H+ B	0.00	N/A *
09/09 1200 TWM	Phosphorous, Total (as P)	8.14 mg/L		EPA 365.3	1.39	105.0
09/08 0730 HNS	Solids, Total Suspended	8.6 mg/L		SM 2011 2540 D	0.00	N/A *
09/02 1630 HNS	Fecal Coliform (MPN/100mL	2476.8 /100ml		06/2012 Colilert18	0.00	N/A *
09/03 0730 TWM	BOD, Carbonaceous	3.1 mg/L		SM 2001 5210 B	0.00	77.6 *

* 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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KNW

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	• .	Ci	IMIIA C	JE GU	310	J I										
	Client Information				Pro	oject Inf	ormation				Rec	ues	ted	Para	me	ters
Company Name:	Cave Springs	Plant 1		Permit/Pro	oject #:					T						
Address:	PO BOX 5			Purchase	Order #:					7						
	Cave Springs	72718		7				•		1	[<u>.</u>					İ
Telephone:	479 248-1040			Sampler N	lame(s)	4	les Soci				3.1	(28)		İ		
FAX:					tamo(o).	1190	<u> </u>	<u> </u>		1	4	SS	,			.
			•	and Signa	turo(e):	,	-			1	E	-	<u>Ş</u>			
ESC Client Number:	1826			and Signature(s):							Coliform (43.IF)	(70),	Phosphorus		ı	
Sample Ide		7	Sample	Collection		I	Sample Containers				2		hos		1	
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva		pH (23)	Fecal	CBOD	<u> </u>			
			i	_	1	 				+	_	۳		-	\dashv	+
Effluent/Dose Tank	2009020014	9/2/20	1310	Grab	Water	Glass	250 ml	None		X	+				\dashv	-
Effluent/Dose Tank		 		Grab	Water	Sterile	125 ml	Na ₂ S ₂ O ₃ /		╀-	X	+			-	
Effluent/Dose Tank	·	 	 	Grab	Water	Plastic	1/2 gal	None/C	ool 1	╀		X	Ш	_	\perp	+
Effluent/Dose Tank	<u> </u>		ļ	Grab	Water	Plastic	8 oz	H₂SO₄,pH	<2 1	<u> </u>	<u> </u>		X			Щ.
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elinquished By: (Signature and Print	• • • • • • • • • • • • • • • • • • • •	Date	Time	Received By: (Si	gnature and Printed	l Name)	<u> </u>	Date 9 2 26	Time / 3/0	Custo Used	ody Se ?	als:		Intact	, r	<u> </u>
telinguished By: (Signature and Print	ed Name)	Date	Time	Received By: (Si	gnature and Printed	l Name)		Date	Time	Turna Regu	around ilar		·	Speci	—► al Γ	\exists
telinguished By: (Signature and Print	ed Name)	Date 9/2/20	Time	Received for Lab	By: (Signature and	Printed Name))	9/2/20	Time			les pr	periy	preser		$\overline{}$
Comments:				'	FLOW DA	ATA	Field Test	'Time	Analyst	Resi	ult	Resu	lt	_	Inits	<u> </u>
·		······································		····	Analyst: Time:		pH:	1317	HNS	7.	0	7.0		°C		
					Reading:	:	Temp.: DO:		į.	1				٠		<u> </u>
					Units:		Debris:	÷ ,								
HUS	Cool all samples to 6 d	egrees C.					Chlorinated	? Yes N	0	This	Doc	ume	nt is	Page	0	f

Environmental Services Company,

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: 2009020015

Customer Name : CAVE SPRINGS UTILITY, PLANT 2 Customer/Permit No.: 2379 / 4893-WR-3 002

Report Date : 09/09/20

Sample Date : 09/02/20 Sample Time: 1335

Sample Type : GRAB Sample From : EFFLUENT Collected By: HNS Delivery By : HNS Work Order :

Purchase Order :

		Laboratory Analysis										
Analysis					Precision	Accuracy						
Date Time By	Parameter	Result Notes	Quantity	<u> Method</u>	% RPD	<pre>% Recovery</pre>						
09/02 1340 HNS	рн	6.5 S.U.		SM 2011 4500-H+ B	0.00	N/A						
09/09 1200 TWM	Phosphorous, Total (as P)	8.15 mg/L		EPA 365.3	1.39	105.0 *						
09/08 0730 HNS	Solids, Total Suspended	7.3 mg/L		SM 2011 2540 D	0.00	N/A *						
09/02 1630 HNS	Fecal Coliform (MPN/100mL	16.4 /100ml		06/2012 Colilert18	0.00	N/A *						
09/03 0730 TWM	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	0.00	77.6 *						

* OA 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

KNW

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

7 Hone: 479-730-1170	1-ax. 479-750-1172		<u> </u>	17 (11 (<u> </u>												
	Client Information				Pr	oject Inf	ormation					Req	ues	ted	Par	ame	eters	3
Company Name:	Cave Springs	Plant 2		Permit/Pro	oject#:													
Address:	PO BOX 5			Purchase	Order #:													
		72718		1				·										
Telephone:	479 248-1040	12710	<u> </u>	Sampler N	lame(e):	1.1										·		
	47 9 240-1040			Cample N	iaine(s).	Mayo	<u>len Da</u>	<u>. £9</u>				.E.	<u></u>					
FAX:				·			L Just		····			E	8(2(
				and Signa	ture(s):	Haya	1 JA	<u> </u>				Fecal Coliform(43.IF)	CBOD(70),TSS(28)	(22)				
ESC Client Number:	2379			<u> </u>		 	<u>, , , , , , , , , , , , , , , , , , , </u>					ပ္ပ	<u>@</u>	P (2				
Sample Identification			Sample	Collection			Sample (Containers	S		pH(23)	평	8	Total				-
Identification	ESC Control #	Date	Time	Туре	Matrix	Type	Volume	Preserva	ative	#	핆	Щ.	CB	P				
Effluent Diverter Box	2009680015	9/2/20	1335	Grab	Water	Teflon	150 ml	none		0	X							
Effluent Diverter Box	1	ſ	1	Grab	Water	Sterile	100 ml	Na ₂ S ₂ O ₃		1		Х						
Effluent Diverter Box				Grab	Water	Plastic		none/ice		1			Х					
Effluent Diverter Box		į,	1	Grab	Water	Plastic	8 oz	H₂SO₄,pH	<2	1				х				
								2			\Box							
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Relinquished By: (Signature and Printer	d Name)	Date	Time		gnature and Printe		<u> </u>	Date 9/2/20	7 im	1	Custo Used	ody Se	als:	 	Intac	ct?]	一	
Relinquished By: (Signature and Printed	d Name)	Date	Time	Received By: (St	O.M. gnature and Printer	d Name)	,,	Date	Tim	θ	Tuma Regul	around	X	 1	Sper	cial		
Relinquished By: (Signature and Printed	d Name)	Date 9/2/20	Time	Received for Lab	By: (Signature and	d Printed Name	e)	9/2/20	Tim J& &	e	Were		oles pr		y prese			
Comments:			1	1 / / / /	FLOW D	ATA	Field Test	Time	Analys		Resu		Resu	ult		Units	,	
					Analyst:		pH:	1340 FINS			6.5							
HNS.	· · · · · · · · · · · · · · · · · · ·	·· · · · · · · · · · · · · · · · · · ·			Time:		Temp.: DO:	<u> </u>	 	1			 		°C		°F	
JIIVS	AIS.				Reading: Units:		Debris:	 			•	\dashv	 		 			
	Cool all samples to 6 de	egrees C.					Chlorinated	? Yes N	lo		This	Doc	ume	nt is	Pag	e	of_	
										_					_			











NWA Utility Services Inc PO Box 9299 Fayetteville, AR 72703

ADEQ WATER DIVISION/PERMITS BRANCH 5301 Northshore Drive N Little Rock, AR 72118-5317