ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION NO DISCHARGE MONTHLY MONITORING REPORT

PE	RMITTEE NAME
CITY	OF CAVE SPRINGS
PERI	MITTEE ADDRESS
	PO Box 5
Cave	Springs AR 72718

	FACILITY NAME					
CAVE SF	PRINGS WASTEWATER TREATMENT PLANT					
FACILITY ADDRESS						
	The Creeks Golf Course					

PERMIT NO. 4893-WR-3 AFIN NO. 04-01642

	1499 S Main	St Cave Springs	AR 72718							
MONITORING PERIOD										
	MM/DD/YYYY	TO	MM/DD/YYYY							
	4/1/2020		4/30/2020							

	EFFL	UENT LIMITS, MONITORING, A	AND REPORTING F	REQUIREMENT	S					
PARAMET	FR	PERMIT LIMIT	SAMPLE MEA	SUREMENT	UNITS	FREQUENCY OF	SAMPLE TYPE			
			Plant 1	Plant 2	UNITS	ANALYSIS	SAMPLE ITPE			
CARBONACEOUS BIOCHEMICAL OXYC	GEN DEMAND (CBODS)	30	< 2.0	15.8	MG/L					
TOTAL SUSPENDED SOLIDS (TSS)		45	5	85.8	MG/L	1				
FECAL COLIFORM BACTERIA (FCB)		10,000	< 4.0	> 9678.4	COLONIES/100ml Once per Mor		nth / Grab			
рН		6.0 - 9.0	6.6	7	s.u					
TOTAL PHOSPHOROUS (TP)		Report 8.43 7.43 MG/L		MG/L	1					
TOTAL KJELDAHL NITROGEN (TKN)		Report	31.80	43.70	MG/L	*				
NITROGEN AMMONIA NITROGEN (NH 3 - N)		Report	14.9	24.5	MG/L					
NITRITE NITROGEN (NO 3 - N) + NITRA	TE NITROGEN (NO 2 - N)	Report	37	33.2	MG/L	Once per Quarter / Grab				
PLANT AVAILABLE NITROGEN (PAN)		Report	56.9	63.4	MG/L					
TOTAL FLOW			MONTHLY TOTAL	DAILY MAX	000					
TOTAL FLOW			3,745,162	211,575	GPD					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF L	10 1	TELEPHONE	DATE						
	WITH THE INFORMATION SUBMI THOSE INDIVIDUALS IMMEDIA INFORMATION, I BELIEVE THE SU	479 530-5926	5/12/2020							
Kathy Bartlett		AT THERE ARE SIGNIFICANT PE		SIGNATURE OF	PRINCIPAL					
TYPED OR PRINTED	SUBMITTING FALSE INFORMATION INPRISONMENT.	FFICER OR D AGENT	AREA NUMBER	MM/DD/YYYY						

NTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

TSS at Plant #2 is elevated because we cannot get to the sludge tanks to have them sucked out and are starting to recirculate sludge from the tanks back through the treatment system. The crossing over the river to the treatment plant was washed out during the recent storms so a pumper truck cannot access the plant to evacuate the tanks. Their is work being done to consider the possibility of an alternate route being done

1	DDID 70	DNEO LOAD	TABLE I	-			
	DRIP ZO	JNES LOAL	DING RATE LIMITS, MONITOR	ING AND			
		,	Apr-20		. 	MAXIMUM FLOW TOTAL	211,575
Zone ID	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum	
Leach Field 1	0.55	.] [26,000		1 L	15234	
Zone 1	0.42		19,524	_	1 1		
Zone 2	0.45	_ _	19,309		1	zones not being used	
Zone 3	0.4	JL	16,424			zones not being used	
Zone 4	0.46	j L	10,811]			
Zone 5	0.2		13,059		lΓ	7829	
Zone 6	0.2		7,723		i l	4655	
Zone 7	0.2] [10,910	7		6348	
Zone 8	0.3	7 [7,081	7		4232	
Zone 9	0.4	7 [18,291	7		10791	
Zone 10	0.3	1 [9,450	1	} <u> </u>	5501	
Zone 11	0.2	1 [4,110	7	l -	2539	
Zone 12	0.4	7	7,522	1		4444	
Zone 13	0.25	1 [5,717	1	1	3386	
Zone 14	0.15	1 1	6,097	1	f	3597	
Zone 15	0.2	gpd/ft2	8,378	gpd	Daily	5078	
Zone 16	0.4	1 "	9,427	7 "	l, F	5501	
Zone 17	0.23	1	3,694	1		2116	
Zone 19	0.35	1 1	13,778	7		8040	
Zone 20	0.2	1	5,766	1	-	3386	
Zone 21	0.4	1	17,040	1	<u> </u>	10156	
Zone 22	0.5	1	28,113	1	⊢	16503	
Zone 23	0.25	1 F	15,640	1	<u> </u>	9098	
Zone 24	0.25	1	9,547	1	i	5713	
Zone 25	0.2	1 t	4,436	1	⊢	2539	
Zone 26	0.3	1 1	9,334	1	-	5501	
Zone 27	0.31	1	16,511	1		9733	
Zone 28	0.31	1 h	13,018	1	 -	7617	
Zone 29	0.2	1	3,923	† !	 -	2328	
Zone 30	0.55	1 -	10,116	1	 -	5925	
Zone 31	0.33	1	5,714	-		3386	

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: 2004020019

Customer Name : CAVE SPRINGS UTILITY, PLANT 1

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

Report Date : 04/09/20

Sample Date : 04/02/20

Sample Time : 1315

Sample Type : GRAB WATER Sample From : EFFLUENT/DOSE TANK Collected By: BRS

Delivery By : BRS

Work Order : Purchase Order :

7 7 1		Laboratory Analysis			Quality 1	Assurance
Analysis	_				Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes	Quantity	Method	% RPD	% Recovery
04/03 0900 TSB	Ammonia as N,(HACH 10205)	14.90 mg/L		SM 2011 4500-NH3 F	0.00	104.8 *
04/07 1400 TSB	Kjeldahl Nitrogen Total	31.80 mg/L		SM 1997 4500-NorgB	0.97	115.0 *
04/02 1315 BRS	.pH	6.6 S.U.	•	SM 2011 4500-H+ B	1.50	N/A
04/07 0830 TSB	Phosphorous, Total (as P)	8.43 mg/L	•	EPA 365.3	2.60	109.0
	Solids, Total Suspended	5.0 mg/L		SM 2011 2540 D	16.91	N/A *
	Fecal Coliform (MPN/100mL	< 4.0 /100ml		06/2012 Colilert18	0.00	N/A *
04/03 1200 TSB	BOD, Carbonaceous	< 2.0 mg/L	•	SM 2001 5210 B	0.00	99.4
04/06 1330 TSB	Nitrate + Nitrite	37.00 mg/L		01/2013 HACH 10206	0.91	98.0
04/07 1630 TSB	Nitrogen, Plant Available	56.9 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.

3,745,142 211,575

Environmental Services Company, Inc. Corporate Office

13715 West Markham

P.O. Box 55146

Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com



Environmental Services Company, Inc. Northwest Branch 1107 Century Springdale, AR 72764

CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341 Phone 479-750-1170 Fax::479-750-1172 Client Information Project Information Requested Parameters Company Name: Cave Springs Permit/Project #: NO3+NO2-N (91), PAN (99.99) Address: PO BOX 5 Purchase Order #: s-TKN (16A), Cave Springs 72718 Telephone: 479 248-1040 Sampler Name(s): Coliform (43.IF) CBOD (70), TSS (28) FAX: Brien Sterchman NH3-N (15.A), and Signature(s): **ESC Client Number:** 1826 Sample Identification Sample Collection Sample Containers Fecal Identification ESC Control # Date Time Type Matrix Volume I Preservative # Type 13:15 Effluent/Dose Tank 2004020012 Grab la₂S₂O₃/Cool Water Sterile 120 mL Effluent/Dose Tank Grab Water Plastic X 1/2 gal None/Cool Effluent/Dose Tank Grab Water H₂SO₄, pH < 2 X X Plastic X 8 oz Effluent/Dose Tank Grab Water Glass 250 ml None/Cool 0 X Relinquished By: (Signature and Printed Name) Date Received By: (Signature and Printed Name) Custody Seals: Used? Intact? Relinquished By: (Signature and Printed Name) Date Received By: (Signature and Printed Name) Date Time Tumaround Regular Special Relinquished By: (Signature and Printed Name) Time Received for Lab By: (Signature and Printed Name)
16:00 James Rose Tamera Dros K H-2-20 Were samples properly preserved: Btion steichmen Pos 16CC Yes Νo Comments: FLOW DATA Field Test Time Analyst Result Result Units Analyst: :Ha 13:15 BRS 6.6 Time: Temp.: 17,70 12.6 Reading: DO: Units: Debris: Cool all samples to 6 degrees C. Chlorinated? Yes No This Document is Page

JÓC\FORMS\CHAIN.XLS

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: 2004020020

Customer Name : CAVE SPRINGS UTILITY, PLANT 2

Customer/Permit No. : 2379 / 4893-WR-3 002

Report Date : 04/09/20

Sample Date : 04/02/20

Sample Time: 1335

Sample Type : GRAB WATER Sample From : EFFLUET DIVERTER BOX Collected By: BRS Delivery By : BRS

Work Order :

Purchase Order:

	Quality A	<u>Assurance</u>					
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result 1	Notes	Quantity	<u> Method</u>	% RPD	% Recovery
04/03 0900 TSB	Ammonia as N, (HACH 10205)	24.50 mg/L			SM 2011 4500-NH3 F	0.00	104.8 *
04/07 1400 TSB	Total Kjeldahl Nitrogen	43.7 mg/L			02/2014 HACH 10242	0.97	115.0
04/02 1335 BRS	рH	7.0 S.U.			SM 2011 4500-H+ B	1.50	N/A *
04/07 0830 TSB	Phosphorous, Total (as P)	7.43 mg/L			EPA 365.3	2.60	109.0 *
04/07 1300 TSB	Solids, Total Suspended	85.8 mg/L	(b)		SM 2011 2540 D	16.91	N/A *
04/02 1640 TSB	Fecal Coliform (MPN/100mL	> 9678.4 /100ml			06/2012 Colilert18	0.00	N/A *
04/03 1200 TSB	BOD, Carbonaceous	15.8 mg/L			SM 2001 5210 B	0.00	99.4 *
04/06 1330 TSB	Nitrate + Nitrite	33.20 mg/L			01/2013 HACH 10206	0.91	98.0 *
04/07 1630 TSB	Nitrogen, Plant Available	63.4 mg/L			SM 1997 4500-N		

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.

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

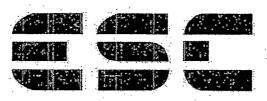
⁽b) Exceeds Permit Limits for Maximum Concentration

Environmental Services Company, Inc. Northwest Arkansas 1107 Century Street Springdale, Arkansas 72762

website: www.esclabs.com

Phone: 479-750-1170

Fax: 479-750-1172

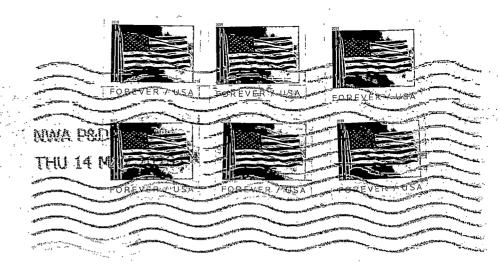


Corporate Office, Little Rock, Arkansas 501-221-2565

Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

Client Information			Project Information							Requested Parameters								
Company Name:	Cave Springs	Plant 2		Permit/Pro	ject#:											·		
Address:	PO BOX 5	Purchase Order #:		Order #:								8	-			'	-	
	Cave Springs	72718	72718		- '		٠.		,				16.	(91)				
Telephone:	479 248-1040			Sampler N	lame(s):						Ē		X	NO3+NO2				.
FAX:					Brian 1			nen			43	28)	5),7	34				
			•	and Signat	ture(s):	ma	An				Ĕ	LSS(P(2	Ž,				
ESC Client Number:	2379				•	CH. U.	- 	:			Coliform(43.IF)	CBOD(70), TSS(28)	NH3(15.A), P(25),TKN(16.A)	,66				
Sample Iden	tification		Sample	Collection			Sample (Containers	;		<u>a</u>	D(7	3(15	(66)	23)		.	
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	tive	#	Fecal	CBC	F	PAN(9	pH(23)		1	
Effluent Diverter Box	2094020020	4/1/20	13:35	Grab	. Water	Sterile	300 ml	none/ice		1	×							
Effluent Diverter Box				Grab	Water	Plastic	0.5 gai	none/ice		1		х			7			
Effluent Diverter Box				Grab	Water	Plastic	8 oz	H₂SO₄,pH	<2	1			х	х				
Effluent Diverter Box	1/	V		Grab	Water	Glass	150 ml	none	<2	.1					х			
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Relinquished By: (Signature and Printed	Nате)	Date	Time	Received By: (Sig	nature and Printed	Name)		Date	Tim	e	Used' Turna	round			Intac	!		\dashv
Relinquished By: (Signature and Printed	Nama)	Date	Time	Passing for Lab	y (Signature and		\		-		Regular Were samples proper		·	Special		\Box		
Btian Steichne	n Dran	4/7/20	16:00 /) amen	droub To	ment	100/20	4220	Tim	°		sampi Yes	es pro	peny		rvea: No	\neg	
Comments:				FLOW DA		Field Test		Analys	st.	Resu		Resu	it		Units			
			7	Analyst:		pH:		BRS		7.0 7.0								
			· · · · · · · · · · · · · · · · · · ·		Time:		Temp.:	₩	V		16.	3	16,7		<u>°C</u>		°F	
			· · · · · · · · · · · · · · · · · · ·		Reading: Units:		DO: Debris:			\dashv	•	. 		\dashv				
	Cool all samples to 6 de	orees C			· .			2 Voc. N		,	Thic	Doc		at is	Doc		of (
Outrain samples to a degrees C.					74		Culcultated	orinated? Yes No This Document is Page					4	<u> </u>				



NWA Utility Services Inc PO Box 9299 Fayetteville, AR 72703

ADEQ Water Division/Branch 5301 Northshore Dr N Little Rock, AR 72118