

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

<b>PERMITTEE NAME</b>
CITY OF CAVE SPRINGS
<b>PERMITTEE ADDRESS</b>
PO Box 5 Cave Springs AR 72718

<b>FACILITY NAME</b>
CAVE SPRINGS WASTEWATER TREATMENT PLANT
<b>FACILITY ADDRESS</b>
The Creeks Golf Course 1499 S Main St Cave Springs AR 72718

<b>PERMIT NO.</b>
4893-WR-3
<b>AFIN NO.</b>
04-01642

<b>MONITORING PERIOD</b>		
MM/DD/YYYY	TO	MM/DD/YYYY
6/1/2020		6/30/2020

EFFLUENT LIMITS, MONITORING, AND REPORTING REQUIREMENTS							
PARAMETER	PERMIT LIMIT	SAMPLE MEASUREMENT		UNITS	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		Plant 1	Plant 2				
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD <sub>5</sub> )	30	< 2.0	3.9	MG/L	Once per Month / Grab		
TOTAL SUSPENDED SOLIDS (TSS)	45	< 7.1	16.4	MG/L			
FECAL COLIFORM BACTERIA (FCB)	10,000	< 5.0	1538.0	COLONIES/100ml			
pH	6.0 - 9.0	6.4	6.9	s.u			
TOTAL PHOSPHOROUS (TP)	Report	9.67	8.39	MG/L			
TOTAL KJELDAHL NITROGEN (TKN)	Report			MG/L	Once per Quarter / Grab		
NITROGEN AMMONIA NITROGEN (NH <sub>3</sub> - N)	Report			MG/L			
NITRITE NITROGEN (NO <sub>2</sub> - N) + NITRATE NITROGEN (NO <sub>3</sub> - N)	Report			MG/L			
PLANT AVAILABLE NITROGEN (PAN)	Report			MG/L			
TOTAL FLOW		MONTHLY TOTAL	DAILY MAX	GPD			
		3,033,945	146,938				
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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	
Kathy Bartlett				479	530-5926	7/15/2020	
TYPED OR PRINTED				AREA CODE	NUMBER	MM/DD/YYYY	
COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)							

**TABLE II**

**DRIP ZONES LOADING RATE LIMITS, MONITORING AND REPORTING REQUIREMENTS**

		Jun-20			DAILY MAXIMUM FLOW TOTAL		146,938
Zone ID	Limit	Units	Maximum Volume Limit	Units	Monitoring	Reported Maximum	
Leach Field 1	0.55	gpd/ft2	26,000	gpd	Daily	10580	
<b>Zone 1</b>	0.42		19,524			<i>zones not being used</i>	
<b>Zone 2</b>	0.45		19,309				
<b>Zone 3</b>	0.4		16,424				
<b>Zone 4</b>	0.46		10,811				
Zone 5	0.2		13,059			5437	
Zone 6	0.2		7,723			3233	
Zone 7	0.2		10,910			4409	
Zone 8	0.3		7,081			2939	
Zone 9	0.4		18,291			7494	
Zone 10	0.3		9,450			3821	
Zone 11	0.2		4,110			1764	
Zone 12	0.4		7,522			3086	
Zone 13	0.25		5,717			2352	
Zone 14	0.15		6,097			2498	
Zone 15	0.2		8,378			3527	
Zone 16	0.4		9,427			3821	
Zone 17	0.23		3,694			1470	
Zone 19	0.35		13,778			5584	
Zone 20	0.2		5,766			2352	
Zone 21	0.4		17,040			7054	
Zone 22	0.5		28,113			11462	
Zone 23	0.25		15,640			6319	
Zone 24	0.25		9,547			3968	
Zone 25	0.2		4,436			1764	
Zone 26	0.3		9,334			3821	
Zone 27	0.31		16,511			6760	
Zone 28	0.31		13,018			5290	
Zone 29	0.2		3,923			1617	
Zone 30	0.55		10,116			4115	
Zone 31	0.3		5,714			2352	

# 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: 2006020017	Sample Date : 06/03/20	Collected By: JTL
Customer Name : CAVE SPRINGS UTILITY, PLANT 1	Sample Time : 1045	Delivery By : JTL
Customer/Permit No. : 1826 / 4893-WR-2	Sample Type : GRAB	Work Order :
Report Date : 06/15/20	Sample From : PLANT 1	Purchase Order :

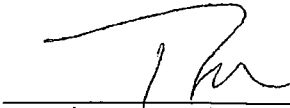
### Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
06/03	1104	JTL	pH	6.4	S.U.		SM 2011 4500-H+ B	0.00	N/A *
06/11	1400	TSB	Phosphorous, Total (as P)	9.67	mg/L		EPA 365.3	0.93	110.0 *
06/08	1500	TSB	Solids, Total Suspended	< 7.1	mg/L		SM 2011 2540 D	3.02	N/A *
06/03	1630	TSB	Fecal Coliform (MPN/100mL)	< 5.0	/100ml		06/2012 Colilert18	0.00	N/A *
06/03	1500	TSB	BOD, Carbonaceous	< 2.0	mg/L		SM 2001 5210 B	6.64	92.0 *

\* 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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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 1		Permit/Project #:						pH (23)	Fecal Coliform (43.IF)	CBOD (70), TSS (28)	T-Phosphorus						
Address:		PO BOX 5		Purchase Order #:															
		Cave Springs 72718		Sampler Name(s):		Justin Lee													
Telephone:		479 248-1040		and Signature(s):															
FAX:																			
ESC Client Number:		1826																	
Sample Identification		Sample Collection				Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Effluent/Dose Tank	2006520017	6-3-20	1045	Grab	Water	Glass	250 ml	None	0	X									
Effluent/Dose Tank				Grab	Water	Sterile	125 ml	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> /Cool	1		X								
Effluent/Dose Tank				Grab	Water	Plastic	1/2 gal	None/Cool	1			X							
Effluent/Dose Tank				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:		Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>							
Justin Lee		6-3-20	1412	Justin Lee				Turnaround:		Regular <input type="checkbox"/>		Special <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input type="checkbox"/>		No <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time												
Tyler Mack				Tyler Mack		6/3/20	1412												
Comments:				FLOW DATA		Field Test		Time		Analyst		Result		Result		Units			
				Analyst:		pH:		1104		JR		6.4/24							
				Time:		Temp.:		1104		JR		24.2/84.2		(°C)		°F			
				Reading:		DO:													
				Units:		Debris:													
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page of									

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Control Number: 2006020018	Sample Date : 06/03/20	Collected By: JTL
Customer Name : CAVE SPRINGS UTILITY, PLANT 2	Sample Time : 1120	Delivery By : JTL
Customer/Permit No. : 2379 / 4893-WR-3 002	Sample Type : GRAB	Work Order :
Report Date : 06/09/20	Sample From : PLANT 2	Purchase Order :

### Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/03	1125	JTL	pH	6.9 S.U.			SM 2011 4500-H+ B	0.00	N/A *
06/08	1300	TSB	Phosphorous, Total (as P)	8.39 mg/L			EPA 365.3	0.89	110.0 *
06/08	1500	TSB	Solids, Total Suspended	16.4 mg/L			SM 2011 2540 D	3.02	N/A *
06/03	1630	TSB	Fecal Coliform (MPN/100mL)	1538.0 /100ml			06/2012 Colilert18	0.00	N/A *
06/03	1500	TSB	BOD, Carbonaceous	3.9 mg/L			SM 2001 5210 B	6.64	92.0 *

^

\* 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 \_\_\_\_\_



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 website: www.esclabs.com



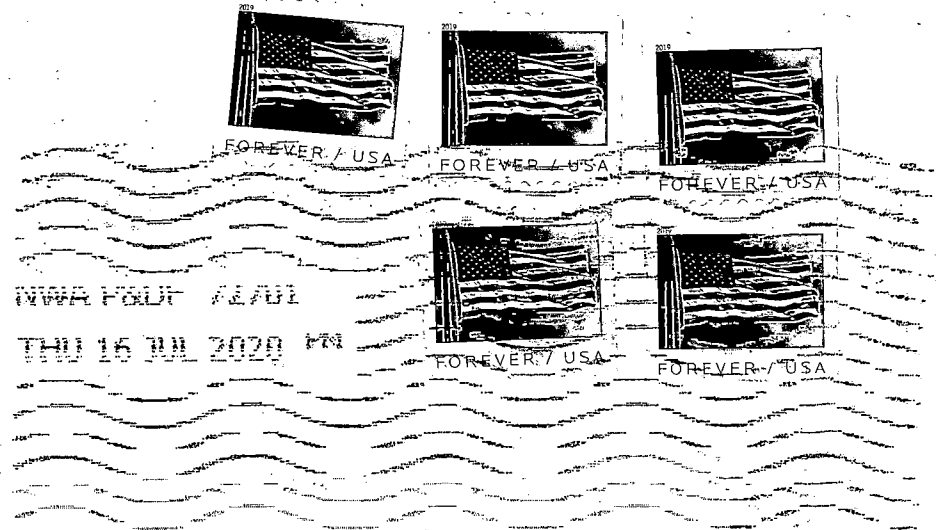
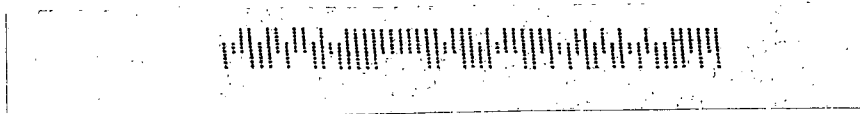
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 575-887-1ESC

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,IF)	CBOD(70),TSS(28)	Total P (25)						
Address:		PO BOX 5 Cave Springs 72718				Purchase Order #:														
Telephone:		479 248-1040				Sampler Name(s):		Justin Lee												
FAX:						and Signature(s):														
ESC Client Number:		2379																		
Sample Identification			Sample Collection			Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Effluent Diverter Box	2006020048	6/3/20	11:20	Grab	Water	Teflon	150 ml	none	0	X										
Effluent Diverter Box		↓	↓	Grab	Water	Sterile	100 ml	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1		X									
Effluent Diverter Box		↓	↓	Grab	Water	Plastic	1/2 gal	none/ice	1			X								
Effluent Diverter Box		↓	↓	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:		Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>								
Justin Lee		6-3-20	1412	T. J. W. ...				Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time													
Justin Lee				T. J. W. ...		6/5/20	1412													
Comments:						FLOW DATA	Field Test	Time	Analyst	Result	Result	Units								
						Analyst:	pH:	11:25	JPL	6.9	7.0									
						Time:	Temp.:					°C °F								
						Reading:	DO:													
						Units:	Debris:													
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page 1 of 1										



 **NWA Utility Services Inc**  
**PO Box 9299**  
**Fayetteville, AR 72703**

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