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

PERMITTEE NAME

to meet our TSS permit limits.

FACILITY NAME (IF DIFFERENT)

PERMIT NO.

Bethel Oaks Subdivision				<u>_</u>						
PERMITTEE ADDRESS PO Box 3008		WA Count	n AR	E	AFIN NO. 72-01656					
Fort Smith AR 72901										
		WASTE	EWATER EFFLUENT MC	NITORING PERI	OD]				
		MM/DD/YYYY			MM/DD/YYYY]				
		9/1/2017			9/30/2017]				
TREATED WASTEWATER EFFLUE	NT SAMPLING				· · · · · · · · · · · · · · · · · · ·					
PARAMETER		Limit	Sample Measurement UNITS Monitoring		Monitoring	Rep	orting			
Flow, Monthly total		REPORT	0.137357	MGD						
Flow, daily maximum		REPORT	0.006948	MGD						
Carbonaceous Biochemical Oxygen De	mand (CBOD5)	15	< 2	mg/l	1					
Total Suspended Solids (TSS)		15	48.3	mg/l	1					
Fecal Coliform Bacteria (FCB)		7,800	< 4	colonies/100ml						
pH		6.0 - 9.0	7	s.u.	1		1			
Total Phosphorus (TP)		REPORT	9	mg/l	Grab Sample once per month	Prior to the	e 15th of the			
Total Kjeldahl Nitrogen (TKN)		REPORT	30.8	mg/l	1	following Month				
Ammonia Nitrogen		REPORT	30.6	mg/l						
Nitrate Nitrogen (NO3-N)		REPORT	19.38	mg/l	1					
Nitrite Nitrogen (NO2-N)			0.0117	mg/l						
Plant Available Nitrogen (PAN)		REPORT	50.4	mg/l						
Total Solids		REPORT	0.034	Percentage (%)	Ī					
Loading Rate	oading Rate		959 gpd/ft 2		Continuous					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		NALTY OF LAW THAT I HAVE PERSONALLY			2/ / 10		TELEPHONE	DATE		
		AND BASED ON MY INQUIRY OF THOSE II			SIGNATURE OF PRINCIPA	(479) 530-	10/4/2017			
Ken Gregory	COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION.						5926			
TYPED OR PRINTED		AUTHORIZED AGENT	MM/DD/YYYY							
COMMENTS AND EXPLANATION C	F VIOLATIONS (Re	ference all attachments here) we	noticed discharge lines	in Post Treatm	ent Lift Station had broken. V	Ve have sir	nce repaired t	hose, and installe		

"tee" fittings on the baffles of the Final Settling Tank and into the Drip Pump Tank in an effort to "slow" the flow through the tank and allow for more solids to settle. We have also increased the run time in the treatment plant sludge pump in an effort to pump settled sludge back to the Primary Setling Tank. We will monitor our efflunent and if needed, make further adjustments in order

BETHEL OAKS LOADING RATES 6,948 Max Day Flow								
Zone Identification	.138 GPD/sq 2							
Zone 1	959							
Zone 2	959							
Zone 3	959							
Zone 4	959							
Zone 5	959							
Zone 6	959							
Zone 7	959							
Zone 8	959							
Zone 9	959							
Zone 10	959							
Zone 11	959							
Zone 12	959							

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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: 1709020163

Customer Name : GREENFIELD CAP DEV-BETHEL OAKS

Customer/Permit No.: 1855 / 4875-WR-2

Report Date : 09/22/17

Sample Date : 09/15/17

Sample Time: 1033

Sample Type : GRAB

Sample From : EFFLUENT

Collected By: RHB

Delivery By : RHB

Work Order:
Purchase Order:

	Quality Assurance					
Analysis					Precision	Accuracy
<u>Date Time By</u>	Parameter	Result 1	Notes Quantity	Method	% RPD_	% Recovery
09/15 0930 TSB	Ammonia Nitrogen	30.6 mg/L		SM 1997 4500-NH3 F	0.00	103.8 *
09/19 0800 TSB	Total Kjeldahl Nitrogen	30.80 mg/L		02/2014 HACH 10242	1.08	95.7 *
09/21 0900 TSB	Nitrate Nitrogen	19.38 mg/L		SM 2000 4500-NO3 E	0.95	100.0 *
09/15 1400 TSB	Nitrite Nitrogen	0.117 mg/L		SM 2000 4500 NO2 B	0.45	100.0
09/15 1035 RHB	Нq	7.0 S.U.		SM 2000 4500-H+ B	0.00	N/A
09/19 0945 TSB	Phosphorous, Total (as P)	9.0 mg/L		EPA 365.3	0.00	98.1 *
09/21 1045 ЈСВ	Solids, Total Suspended	48.3 mg/L	(b)	SM 1997 2540 D	0.00	N/A *
09/15 1655 JCB	Coliform, Fecal	< 4 /100ml		SM 9222 D 1997	0.00	N/A
09/15 1400 TSB	BOD, Carbonaceous	< 2.0 mg/L		SM 2001 5210 B	6.92	88.0 *
09/18 1200 JCB	Solids, % Total by mass	0,034 용		SM 1997 2540 G	35.29	N/A
09/21 1520 TSB	Nitrogen, Plant Available	50.4 mg/L		SM 1997 4500-N	ļ	•

(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.

Signature

Environmental Services Co., Inc.

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

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	NIAF	of Gu	S 101	DY										
	Client Information			Project Information					-	Requested Parameters							
Company Name:	pany Name: Bethel Oaks			Permit/Pr	Permit/Project #:							8					
Address: 1849 N. Trillium Lane			Purchase	Order #:	•]	(16.						
	Fayetteville, AR 72	2704									X	19		(66	ĺ		
			Sampler Name(s): RICHARD BRO			SROWN				P(25),NH3-N(15.A),N03(18),TKN(16.A)	CBOD(70),TSS(28),N02(19)		%Solids (82), PAN(99.99)				
Telephone:	W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-			1	• •							SON.	1,(8)	43)	AN(1	
				and Signa	and Signature(s):			ICHARD BROWN				5.A),	SS(Z	ZM(), P,		
ESC Client Number:	1855	 					- V - 13 - C				ĺ	N-Z	D),T	<u>6</u>	(82		
Sample Ide	entification		Sample	Collection	***************************************		Sample	Container	s		33	F.	Z)Q	COLIFORM(43)	lids	1	
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	7	-	#	pH(23)	P(25)	CBO	II.	%So		
EFFLUENT	1709020163	9-15-17	10,33	GRAB	Water	teflon	150 ml	none		1	×						
EFFLUENT		1		GRAB	Water	Plastic	8 oz	H₂SO₄,pH<	 <2	1		x					
EFFLUENT				GRAB	Water	Plastic	1 qt	none/ice		1			х		x		
EFFLUENT				GRAB	Water	Whirlpak	125 ml	Na ₂ S ₂ O ₃		1				x			
						Cool all s	samples to	6 degrees C	 Э.								
										-							
Relinquished By: (Signature and Printed Name) Date Time Rickand Brown Richard Brown 9-15-17 [2:00]			Received By: (S	ea By: (Signature and Printed Name) / Date Time Custo				istody Seals: ed? [M] Intact?									
Refinquished By: (Signature and Printed Name) Date Time			Received By (S	Received By (Signature and Printed Name)			Date	Tin		Turna Regu	around nar		 ľ	Spec	ial [_	
Refinquished By: (Signature and Printed Name) Date Time		Received for Lab	Received for Lab By: (Signature and Printed Name)		1/27/	9/15/17 120 0					oles pr	properly preserved No		_			
Comments:				FLOW D	ATA 7	Field Test	Time	Апају		Resu		Resu			Units		
			 .	Analyst: Time:	*****	pH: Temp.;	10:35	PAL		26		7.		c)	 ,	°F	
			····		Reading:		DO:	<u> </u>			التا يمس	0:	26.	اعا	<u>. </u>		<u> </u>
				······	Units:	··	Debris:					-	-				
Cool all samples to 6 degrees C.							Chlorinated	? Yes N	0		This	Doc	ume	nt is	Page	1	of <u>↓</u>