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

Bethel Cake Subdivision PERMITTEE ADDRESS PO Box 3008 Fort Smith AR 72901 MINDDYYYY 10/1/2016 MINDDYYYY 10/1/20	PERMITTEE NAME		PERMIT NO.							
WA County Hwy 62 at Bethel Blacktop Rd Farmington AR 72-01656	Bethel Oaks Subdivision	n		4875-WR-1						
MM/DD/YYYY 10/1/2016	PO Box 3008	S	WA Coun	No. of the second second	a color and the state	ı AR	****			
MM/DD/YYYY 10/3/2016			WAST	EWATER EFFLUENT MC	NITORING PERI	DD C				
TREATED WASTEWATER EFFLUENT SAMPLING					1411.4.1311.14.1.4.1.4.1.					
Flow, Monthly total			10/1/2016			10/31/2016				
Flow, Monthly total	TREATED WASTEWATER EFFLUE	NT SAMPLING	• / 1							
Flow, daily maximum	PARAMETER		Limit	Sample Measurement	UNITS	Monitoring	Reporting			
Carbonaceous Biochemical Oxygen Demath (CBOD5) 15 < 2	Flow, Monthly total		REPORT	0.059447	MGD					
Total Suspended Solids (TSS) 15 76 mg/l Fecal Coliform Bacterla (FCB) 7,800 42 colonies/100ml pH 6.09.0 7.4 s.u. Total Phosphorus (TP) REPORT 8.5 mg/l Ammonia Nitrogen (TKN) REPORT 36.5 mg/l Nitrate Nitrogen (NO3-N) REPORT 1.03 mg/l Nitrate Nitrogen (NO3-N) REPORT 1.03 mg/l Total Solids REPORT 46.6 mg/l Total Solids REPORT 46.6 mg/l Total Solids REPORT 0.042 Percentage (%) Loading Rate REPORT 0.042 Percentage (%) Loading Rate REPORT 0.043 REPORT 0.042 REPORT 0.042 REPORT REPORT NUMBERITHE PRINCIPAL EXECUTIVE OFFICER REPORT REPORT NUMBERITHE PRINCIPAL EXECUTIVE OFFICER OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND 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, I EXECUTIVE OFFICER OR NICLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. 11/12/2011 SIGNATURE OF FRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT MM/DD/YYY MM/DD/YYY MM/DD/YYY	Flow, daily maximum		REPORT	0.003769	MGD					
Fecal Coliform Bacteria (FCB) 7,800 42 colonies/100ml pH 6.0-9.0 7,4 s.u. Total Phosphorus (TP) REPORT 8.5 mg/l Ammonia Nitrogen (TKN) REPORT 36.96 mg/l Nitrate Nitrogen (N03-N) REPORT 1.03 mg/l Nitrate Nitrogen (N03-N) REPORT 1.03 REPORT 1.042 Percentage (%) Loading Rate 0.138 See Attached gpd/ft 2 Continuous TOTAL Solids CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM WITH THE INFORMATION SUBMITTED HIROIPAL EXECUTIVE OFFICER OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF FRINCIPAL EXECUTIVE OFFICER OR NOTIFIED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. NAME/TOPY MM/DDYYY MM/DDYYY MM/DDYYY MM/DDYYY	Carbonaceous Biochemical Oxygen De	mand (CBOD5)	15	< 2	mg/l					
PH 6.0 - 9.0 7.4 s.u. Total Phosphorus (TP) REPORT 8.5 mg/l Total Kjeldahl Nitrogen (TKN) REPORT 36.5 mg/l Ammonia Nitrogen REPORT 36.5 mg/l Nitrate Nitrogen (NO3-N) REPORT 8.89 mg/l Nitrite Nitrogen (NO2-N) REPORT 1.03 mg/l Plant Available Nitrogen (PAN) REPORT 46.6 mg/l Total Solids REPORT 0.042 Percentage (%) Loading Rate 0.138 See Attached gpd/ft 2 NAME/ITILE 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, I EXECUTIVE OFFICER OR AUTHORIZED AGENT MM/DD/YYY INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. Grab Sample once per month following Month	Total Suspended Solids (TSS)		15	76	mg/l					
Total Phosphorus (TP) REPORT 8.5 mg/l Ammonia Nitrogen REPORT 8.6 mg/l Nitrate Nitrogen (NO3-N) REPORT REPO	Fecal Coliform Bacteria (FCB)		7,800	< 2	colonies/100ml					
Total Kjeldahi Nitrogen (TKN) REPORT	рН		6.0 - 9.0	7.4	s.u.					
Ammonia Nitrogen REPORT	Total Phosphorus (TP)		REPORT	8.5	mg/l	Grab Sample once per month				
Nitrate Nitrogen (NO3-N) Nitrite Nitrogen (NO2-N) Nitrogen	Total Kjeldahl Nitrogen (TKN)		REPORT	36.96	mg/l		following Month			
Nitrite Nitrogen (NO2-N) REPORT 1.03 mg/l Plant Available Nitrogen (PAN) REPORT 46.6 mg/l Total Solids REPORT 0.042 Percentage (%) Loading Rate 0.138 See Attached gpd/ft 2 Continuous NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 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 Ken Gregory COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. REPORT 1.03 mg/l 46.6 mg/l 2 Continuous TELEPHONE TELEPHONE DATE SIGNATURE OF FRINCIPAL (479) 530- 5926 MM/DD/YYY MM/DD/YYY	Ammonia Nitrogen		REPORT	36.5	mg/l					
Plant Available Nitrogen (PAN) REPORT 46.6 Mg/l Total Solids REPORT 0.042 Percentage (%) Loading Rate 0.138 See Attached 9pd/ft 2 Continuous NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 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 Ken Gregory COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. REPORT 46.6 Mg/l Percentage (%) Continuous TELEPHONE DATE SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR MM/DD/YYY MM/DD/YYY	Nitrate Nitrogen (NO3-N)		REPORT	8,89	mg/l					
Total Solids REPORT 0.042 Percentage (%) Loading Rate 0.138 See Attached gpd/ft 2 Continuous TELEPHONE DATE 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 Ken Gregory COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. REPORT 0.042 Percentage (%) Sep Attached gpd/ft 2 Conttinuous TELEPHONE DATE SIGNATURE OF FRINCIPAL EXECUTIVE OFFICER OR MM//DD/YYY	Nitrite Nitrogen (NO2-N)	-	REPORT	1,03	mg/l					
Loading Rate 0.138 See Attached gpd/ft 2 Continuous 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 Ken Gregory COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON TYPED OR PRINTED ON THE INFORMATION IS TRUE, ACCURATE, AND INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION IS TRUE, ACCURATE, AND INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. ON THE INFORMATION INCLUDED	Plant Available Nitrogen (PAN)		REPORT	46.6	mg/l					
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 Ken Gregory COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. TELEPHONE DATE (479) 530- 5926 MM//DD/YYY	Total Solids		REPORT	0.042	Percentage (%)]			
SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR Members 1/2014 OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF FRINCIPAL COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. 11/12/2014 EXECUTIVE OFFICER OR AUTHORIZED AGENT MM//DD/YYY	Loading Rate					Continuous				
OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND Ken Gregory TYPED OR PRINTED OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF FRINCIPAL SIGNATURE OF FRINCIPAL (479) 530- 5926 MM/DD/YYY	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM WITH THE INFORMATION TELEPHONE								
OBTAINING THE INFORMATION, BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF FRINCIPAL (479) 530- Ken Gregory	SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR THE PROPERTY OF T									
TYPED OR PRINTED COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, EXECUTIVE OFFICER OR MM/DD/YYY AUTHORIZED AGENT		OBTAINING THE INFO	RMATION, I BELIEVE THE SUBMITTE	D INFORMATION IS TRUE, A	ACCURATE, AND	SIGNATURE OF PRINCIPA		11/12/2016		
INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AUTHORIZED AGENT	Ken Gregory	COMPLETE. I AM AWAI	ETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, EXECUTIVE OFFICER OR							
	TYPED OR PRINTED	INCLUDING THE POSSIF	BILITY OF FINE AND IMPRISONMENT.			AUTHORIZED AGENT		MM/DD/YYYY		
Table	COMMENTS AND EXPLANATION C									
We feel the TSS was high due to removing 23,500 gallons of scum and sludge from the system tanks. We will monitor and report next month.				system tanks. We will r	monitor and repo	ort next month.	 			

BETHEL OAKS LOADING RATES						
Zone Identification	GPD/sq 2					
Zone 1	520					
Zone 2	520					
Zone 3	520					
Zone 4	520					
Zone 5	520					
Zone 6	520					
Zone 7	520					
Zone 8	520					
Zone 9	520					
Zone 10	520					
Zone 11	520					
Zone 12	520					

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		Ch	IAIN C	JF CU	2101	JY							e principal de la compansion de la compa			
Client Information					Project Information					Requested				Parameters				
Company Name: New Water-Bethel Oaks			Permit/Project #:						3		'		,					
Address:		Po Box 193805			Purchase	Purchase Order #:					_	N(16						
_	,	N. Little Rock AR 7	2217			•			_			Ι¥.	(19)		(66			
Telephone:		501-888-0500			Sampler Name(s): John Rvod				3(18	NON.		(99		ł				
Telephone:							an	n Bil	ed			2	28)	(43	AN			
1010,5110,101		<u> </u>			and Signat	ture(s):						15.A	SS(RIN	2), P			
ESC Client Nu	mber:	2127		····								P(25),NH3-N(15.A),N03(18),TKN(16.A)	CBOD(70),TSS(28),N02(19)	COLIFORM(43)	%Solids (82), PAN(99.99)			
	nple Iden	tification		Sample	Collection			Sample (Containers		[23]	N.(c)ac	ğ	olid			
Identifica		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preservat	tive 7	pH(23)	P(25	S CBC	F. (%S			
	LUENT	161002022	10/19/16	0830	GRAB	Water	teflon	150 ml	none	,	Х							
	LUENT	1	1	1	GRAB	Water	Plastic	8 oz	H₂SO₄,pH<2	2 ,		х						
	LUENT				GRAB	Water	Plastic	1 qt	none/ice				х		x			
	LUENT				GRAB	Water	Whirlpak	125 ml	Na ₂ S ₂ O ₃	,				х				
			/	-														
					Cool all s	amples to	6 degrees C.		1					\Box				
	*					 												
					, <u>, , , , , , , , , , , , , , , , , , </u>		<u>† </u>											
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											1							
Relinguished By: (Signa		Name)	Date	Time	Received By: (Si	gnature and Printe	d Name)		Date	Time	Cús Use	tody S	eals:	1	Intac			
Refinquished By: (Signature and Printed Name) Refinquished By: (Signature and Printed Name) Date Time			Received By: (Signature and Printed Name) Date Time				Time	I	naround		<u></u>	HILAC	<u> </u>					
					Received for Lab By: (Signature and Printed Name)			 			Regular Were samples prop			Special Special				
Relinquished By: (Signa	iture and Printed	i Name)	Date	Time	Received for Lab	By: (Signature and	MUNA T	317001191	10 901/16	1210	VVei	Yes	X			No.		
Comments:	tillia. "«i» 172	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1				FLOW'D	ATA	Field Lest	Time	Analyst	Res		Res	استخارات		Units		-
						Analyst: Time:		pH: Temp.:	0830	JCR	124	7.34	7.	35	6		°F	
						Reading:		DO:			10.7	<u>, , , , , , , , , , , , , , , , , , , </u>	100		۳		·	
						Units:		Debris:										
Cool all samples to 6 degrees C.								Chiorinated	? Yes No	0	Thi	s Do	cume	ent is	Page	e <u>↓</u>	of <u></u>	

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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: 1610020221

Customer Name : GREENFIELD CAP DEV-BETHEL OAKS

Customer/Permit No.: 1855 / 4875-WR-1

Report Date : 10/26/16

Sample Date : 10/19/16

Sample Time : 0830

Sample Type : GRAB BETHEL OAKS

Sample From : EFFLUENT

Collected By: JB Delivery By : JB

Work Order : Purchase Order :

		Laboratory Analysis		Quality A	Assurance
Analysis				Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes	Quantity Method	% RPD	<pre>% Recovery</pre>
10/20 1015 TSB	Ammonia Nitrogen	36.5 mg/L	SM 1997 4500-NH3 F	0.00	103.0 *
10/24 0900 TSB	Kjeldahl Nitrogen Total	36.96 mg/L	SM 1997 4500-NorgB	1.46	100.9 *
	Nitrate Nitrogen	8.89 mg/L	SM 2000 4500-NO3 E	3.35	100.4 *
10/20 1050 TSB	Nitrite Nitrogen	1.030 mg/L	SM 2000 4500 NO2 B	3.09	101.0 *
10/19 0830 JCB	рН	7.4 S.U.	SM 2000 4500-H+ B	1.36	N/A
10/20 1300 TSB	Phosphorous, Total (as P)	8.5 mg/L	EPA 365.3	0.00	101.8 *
10/24 1600 RHB	Solids, Total Suspended	76.0 mg/L (b)	SM 1997 2540 D	0.00	N/A
10/19 1600 JCB	Coliform, Fecal	< 2 /100ml	SM 9222 D 1997	0.00	N/A *
10/19 1400 TSB	BOD, Carbonaceous	< 2.0 mg/L	SM 2001 5210 B	1.75	92.6 *
10/25 0940 AEU	Solids, % Total by mass	0.042 %	SM 1997 2540 G	9.23	N/A *
10/25 0800 TSB	Nitrogen, Plant Available	46.6 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.

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