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

Waterford Estates at Hisson Ranch POA PERMITTER ADDRESS 3267 W New Hope Rd Rogers, AR 72756 WASTEWAYER EFFLUENT MONITORING PERIOD MMDD/YYYY 1074/2016 PARAMETER Limit Sample Measurement UNITS Monitoring Reporting Reporting Reporting Reporting Reporting Reporting Flow, Monithly total REPORT 0.0869012 Mg Total Flow per celendar morth Carbonaceous Bichemiteal Oxygen Demand (CBODE) 15 <2 mg/l Total Suspended Soilds (TBS) 15 7 mg/l Carbonaceous Bichemiteal Oxygen Demand (CBODE) 15 7 mg/l Flow (Basterial (FCB) 2,000 <4 colonies/100ml pH 6.0 - 9.0 7.5 s.u. Frier to tha 16th of the following Month Flow (MH-44) REPORT 7.7 mg/l Total Kingdahi Nitrogen (M-44) REPORT 18.8 mg/l Mamonia Nitrogen (M-44) REPORT 18.8 mg/l Plant Available Nitrogen (M-44) REPORT 18.8 mg/l NAMEDITIE FRINCIPL ESSULTING OFFICER IN THAT HAVE REPRESIDUALLY EXAMINED AND ANI WITH THE INFORMATION IN TIME, ACCURATE, AND OBERSO DAY NOW NOW, MICH TO FIND ESSULTING OFFICE AND OBSERVED NOW NOW, MICH TO FIND ESSULTING PERSONALTY CAUSED SIGNET FOR AUTHORIZED AGENT TYPED OR PRINTED SUBMITTED HEREIN, AND BASED ON WAY NOW, MICH TO FIND ESSULTIVE OF FINE AND INFORMATION, I SELEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SUBMITTED INFORMATION, I SELEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SUBMITTED INFORMATION, I SELEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SUBMITTED INFORMATIO	PERMITTEE NAME				PERMIT NO.							
12232 Boxion Bird 12323 Boxion Bird 1232	Waterford Estates at Hisson Ranch POA				4815-WR-4							
WASTEWATER EFFLUENT MONITORING PERIOD MM/DD/YYYY 10/12/2016 10/31/2016	3567 W New Hope Ro											
MM/DD/YYY 10/31/2016 10/31/2016 10/31/2016 10/31/2016 10/31/2016 10/31/2016 10/31/2016 10/31/2016 10/31/2016 10/31/2016	Rogers, AR 72756											
TREATED WASTEWATER EFFLUENT SAMPLING PARAMETER Limit Sample Measurement UNITS Monitoring Reporting												
PARAMETER												
PARAMETER	TREATED WASTEWATER EFFLUE	NT SAMPLING										
REPORT 0.030388 MGD Daily	PARAMETER			Sample Measurement	UNITS	Monitoring	Reporting					
Carbonaceous Biochemical Oxygen Demand (CBODS) 15 2,000 4. colonies/100ml pH 6,0-9,0 7,5 8.u. Focal Coliform Bacteria (FCB) REPORT 7,7 8,0 7,7 8,0 REPORT 7,7 8,0 REPORT 7,7 8,0 REPORT 18,8 8,0 REPORT 18,4	Flow, Monthly total		REPORT	0.869012	MG	Total Flow per calendar month						
Total Suspended Solids (TSS) 15 7 mg/l 2,000 44 colonies/100ml PH 6.0 - 9.0 7.5 s.u. Total Phosphorus (TP) REPORT 7.7 mg/l Ammonia Nitrogen (No3-N) + Nitrite Nitrogen (No3-N) REPORT 18.8 mg/l Nitrate Nitrogen (No3-N) + Nitrite Nitrogen (No3-N) REPORT 18.4 mg/l Plant Available Nitrogen (PAN) REPORT 38.6 mg/l REPORT 38.6 mg/l Coding Rate REPORT See Attached gpd/ft 2 Daily REPORT REPORT See Attached gpd/ft 2 Daily REPORT REPORT Submitted Nitrogen (PAN) REPORT REPO	Flow, daily maximun		REPORT	0.030388	MGD	Daily						
Fecal Coliform Bacteria (FCB) 2,000 3,5 3,U Total Phosphorus (TP) REPORT 7,7 mg/l Total Kjeldahi Nitrogen (ND3-N) + Nitrite Nitrogen (NO2-N) REPORT 18,8 mg/l Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT 18,4 mg/l Plant Available Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT 38,6 mg/l Codding Rate REPORT See Attached gpd/ft 2 NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION is TRUE, ACCURATE, AND Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. Grab Sample once per month Prior to the 15th of the following Month	Carbonaceous Biochemical Oxygen De	mand (CBOD5)	15	< 2	mg/l							
PH	Total Suspended Solids (TSS)		15	7	mg/l							
Total Kjeldahl Nitrogen (TKN) REPORT	Fecal Coliform Bacteria (FCB)		2,000	< 4	colonies/100ml	Grab Sample once per month						
Total Kjeldahl Nitrogen (TKN) REPORT REPORT 18.8 mg/l Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT REPORT 18.4 mg/l Plant Available Nitrogen (PAN) REPORT REPORT REPORT REPORT REPORT REPORT REPORT See Attached gpd/ft 2 Daily NAME/ITTLE 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 Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, I NOLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. REPORT See Attached gpd/ft 2 Daily TELEPHONE TELEPHONE AUTHORIZED AGENT MM//DD///YY MM//DD///YY	рН		6.0 - 9.0	7.5	s.u.							
Ammonia Nitrogen (NH3-N) REPORT 18.8 mg/l Nitrate Nitrogen (NO2-N) + Nitrite Nitrogen (NO2-N) REPORT 18.4 mg/l Plant Available Nitrogen (PAN) REPORT See Attached gpd/ft 2 Daily TelePHONE NUMERITHE 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 Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. REPORT 18.4 mg/l Grab sample once per quarter Grab sample once per quarter Bright Tuber of Possibility of Fine And Imprisonment. TELEPHONE AUTHORIZED AGENT MM/DD/YYYY MM/DD/YYYY	Total Phosphorus (TP)		REPORT	7.7	mg/l		following Month					
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT 18.4 Mg/l Plant Available Nitrogen (PAN) REPORT REPORT See Attached gpd/ft 2 Daily Telephone Nozemble once per quarter Authorized per quarter Date Telephone Telephone Date Telephone Tel	Total Kjeldahl Nitrogen (TKN)		REPORT	23,5	mg/l							
Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N) REPORT 18,4 mg/l Plant Available Nitrogen (PAN) REPORT 38.6 mg/l Loading Rate REPORT See Attached gpd/ft 2 Daily NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 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 REPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF PARTICIPAL (479) 530-5926 TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.	Ammonia Nitrogen (NH3-N)		REPORT	18.8	mg/l	Grab sample once per quarter						
REPORT See Attached gpd/ft 2 Daily 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 SIGNATURE OF PARTICIPAL COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, AUTHORIZED AGENT REPORT See Attached gpd/ft 2 Daily TELEPHONE DATE (479) 530- 5926 MM/DD/YYYY	Nitrate Nitrogen (NO3-N) + Nitrite Nitrogen (NO2-N)		REPORT	18.4	mg/l	Clas sample shot per quarter						
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, TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. TELEPHONE DATE (479) 530- SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT MM/DD/YYYY	Plant Available Nitrogen (PAN)		REPORT	38.6	mg/l							
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 SIGNATURE OF PARTICIPAL COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, AUTHORIZED AGENT MM/DD/YYYY	Loading Rate			REPORT See Attached gpd/ft 2 Daily								
OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF PARKIPAL Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AUTHORIZED AGENT (479) 530- 5926 MM/DD/YYYY	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	-			1.2	n/ u/	TELEPHONE	DATE				
Kathy Bartlett COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, THE INFORMATION, THE INFORMATION IS TRUE, ACCURATE, AND SIGNATURE OF PRINCIPAL (479) 530-5926 TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AUTHORIZED AGENT (479) 530-5926 MM/DD/YYYY		SUBMITTED HEREIN;	AND BASED ON MY INQUIRY OF THOSE	INDIVIDUALS IMMEDIATELY RE	SPONSIBLE FOR	Semeth Leger		1111010010				
TYPED OR PRINTED INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AUTHORIZED AGENT MM/DD/YYYY		OBTAINING THE INFO	ORMATION, I BELIEVE THE SUBMITTE	D INFORMATION IS TRUE, A	CCURATE, AND	SIGNATURE OF PRINCIPAL		11/12/2016				
INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AUTHORIZED AGENT		COMPLETE. I AM AW	ARE THAT THERE ARE SIGNIFICANT PEN	ALTIES FOR SUBMITTING FALS	E INFORMATION,	EXECUTIVE OFFICER OR	5926					
COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)						AUTHORIZED AGENT		MM/DD/YYYY				
	COMMENTS AND EXPLANATION C	F VIOLATIONS (Rei	ference all attachments here)									

WATERFORD ESTATES LOADING RATI	ES Oct 2016 30,388 Daily Max
Zone Identification	GPD/sq 2
Zone 1A	2,522
Zone 1B	2,401
Zone 2A	2,401
Zone 2B	2,279
Zone 3A	2,401
Zone 3B	2,401
Zone 4A	2,401
Zone 4B	2,401
Zone 5A	2,659
Zone 5B	2,784
Zone 6A	2,659
Zone 6B	3,039

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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: 1610020222

Customer Name : GREENFIELD CAP DEV-WATERFORD

Customer/Permit No.: 1886 / 4815-WR-4

Report Date : 10/25/16

Sample Date : 10/19/16

Sample Time : 0925

Sample Type : GRAB WATERFORD

Sample From : DOSE TANK EFFLUENT

Delivery By : JB Work Order :

Collected By: JB

Purchase Order :

•	Laboratory Analysis								
Analysis					Precision	Assurance Accuracy			
<u>Date Time By</u>	<u>Parameter</u>	Result Notes	<u>Quantity</u>	<u> Method</u>	% RPD	% Recovery			
10/20 1015 TSB	Ammonia Nitrogen	18.8 mg/L		SM 1997 4500-NH3 F	0.00	103.0 *			
10/24 0900 TSB	Kjeldahl Nitrogen Total	23.50 mg/L		SM 1997 4500-NorgB	1.46	100.9 *			
10/19 0925 JCB	pH ·	7.5 S.U.		SM 2000 4500-H+ B	1.36	N/A *			
10/20 1300 TSB	Phosphorous, Total (as P)	7.7 mg/L		EPA 365.3	0.00	101.8 *			
10/24 1600 RHB	Solids, Total Suspended	7.0 mg/L		SM 1997 2540 D	0.00	N/A *			
10/19 1600 JCB	Coliform, Fecal	< 4 /100ml		SM 9222 D 1997	0.00	N/A *			
10/19 1400 TSB	BOD, Carbonaceous	< 2.1 mg/L		SM 2001 5210 B	1.75	92.6 *			
10/24 1600 TSB	Nitrate + Nitrite	18.4 mg/L		SM 2000 4500-NO3 E	3.35	100.4 *			
10/25 0800 TSB	Nitrogen, Plant Available	38.6 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.

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		CI	HAIN (JF CU	SIOL	JY				through materi					-		يحديد
Client Information				Project Information						Requested Parameters								
Company Name:	: Waterford Estates			Permit/Pro	Permit/Project #:								(66:					
Address:	1695 Electric Aver	ue		Purchase	Order #:								66)					
	Springdale AR 727	'64		7					-		٠.		AN					
Telephone:	(479)751-8868			Sampler N	lame(s):	John	r Busco	/					8, F	(2)	_			
FAX:	(479)757-7650	<u>,,</u>			` '	1	Bull	- Marie Comment					S(2))50	(91			
	(110)/01/000			and Signa	ture(s):	Janes	and the same	White Land			ĺ	(43)	TS	P.	Z			•
ESC Client Number:	1886				tai 0(0).							Coliform(43)	6,	₹ 	A),r			
Sample Ide			Sample	Collection		T	Sample (Containers	S		<u> </u>	olife Sign) Q	3(15	(16.			
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva		#	pH(23)	П	CBOD(70), TSS(28),PAN(99.99)	NH3(15.A), Phos(25)	TKN(16.A),N+N(91)			
Dose Tank/Effluent	1610020222	10/19/16	925	Grab	Water	Teflon	150 ml	none		1	×	-						
Waterford Estates	1010000000	101/4//65	725	Grab	Water	whirlpak	300 ml	none/ice		1		x				-		
Wateriord Estates			 	Grab	Water	Plastic	1 qt	none/ice		1			x					
	+			Grab	Water	Plastic	8 oz	H ₂ SO ₄ ,pH	-2	1		1		×	×	-		
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Relinquisped By: (Signature and Printed Name) Date Time				Received By: (Signature and Printed Name) Date Time				Usec	d?	87.M J					201 20			
Relinquished By (Signature and Print	ted Name) 📝	Date	Time	Received By: (Si	gnature and Printe	I Printed Name)		Date Time			Turn Regu	iaround ular	(province)		Special			
Relinquished By: (Signature and Print	ted Name)	Date	Time	Received for Liab By: (Signature and F		d Printed Name	1705/9	10 Pate 16	12101			re samples prop			erly preserved: No			
Comments:					FLOW D	ATA	Field Test	Time	Analy	st	Res		Res			Units		
					Analyst: Time:		pH; Temp.:	925	30	13	2	48 56	17	46 5.5	1		°F	
					Reading:		DO:				(2)	The same of the sa						
					Units:		Debris:							and the same				er comp
Cool all samples to 6 degrees C.							Chlorinated	l? Yes N	lo		This	s Doo	cume	ent is	Pag	e <u>L</u>	of	

G:WP5 : SFORMS/CHAIN.XLS