

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


<b>PERMITTEE NAME</b> Bethel Oaks Subdivision
<b>PERMITTEE ADDRESS</b> PO Box 3008 Fort Smith AR 72901

<b>FACILITY NAME (IF DIFFERENT)</b> Bethel Oaks Subdivision
<b>FACILITY ADDRESS</b> WA County Hwy 62 at Bethel Blacktop Rd Farmington AR

<b>PERMIT NO.</b> 4875-WR-1
<b>AFIN NO.</b> 72-01656

WASTEWATER EFFLUENT MONITORING PERIOD		
MM/DD/YYYY		MM/DD/YYYY
1/1/2017		1/31/2017

TREATED WASTEWATER EFFLUENT SAMPLING					
PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.154835	MGD	Grab Sample once per month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.006073	MGD		
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l		
Total Suspended Solids (TSS)	15	14.5	mg/l		
Fecal Coliform Bacteria (FCB)	7,800	< 4	colonies/100ml		
pH	6.0 - 9.0	7.5	s.u.		
Total Phosphorus (TP)	REPORT	7.5	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	45.92	mg/l		
Ammonia Nitrogen	REPORT	44	mg/l		
Nitrate Nitrogen ( NO3-N)	REPORT	2.6	mg/l		
Nitrite Nitrogen ( NO2-N)	REPORT	0.048	mg/l		
Plant Available Nitrogen (PAN)	REPORT	47.2	mg/l		
Total Solids	REPORT	0.041	Percentage (%)		
Loading Rate	0.138	838	gpd/ft 2		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Ken Gregory	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.	 <b>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>	TELEPHONE	DATE
			(479) 530-5926	2/7/2017
TYPED OR PRINTED				MM/DD/YYYY

**COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)**  
We feel the lab sample for TSS was compromised, so had the lab pull a new sample which is attached, and TSS was within Permit.

BETHEL OAKS LOADING RATES Jan 2017

Zone Identification	GPD/sq 2
Zone 1	838
Zone 2	838
Zone 3	838
Zone 4	838
Zone 5	838
Zone 6	838
Zone 7	838
Zone 8	838
Zone 9	838
Zone 10	838
Zone 11	838
Zone 12	838

# 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: 1701020171	Sample Date : 01/18/17	Collected By: JB
Customer Name : GREENFIELD CAP DEV-BETHEL OAKS	Sample Time : 0820	Delivery By : JB
Customer/Permit No. : 1855 / 4875-WR-1	Sample Type : GRAB BETHEL OAKS	Work Order :
Report Date : 01/25/17	Sample From : EFFLUENT	Purchase Order :

### Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/18	1530	TSB	Ammonia Nitrogen	44.0 mg/L			SM 1997 4500-NH3 F	0.00	100.9 *
01/23	0930	TSB	Kjeldahl Nitrogen Total	45.92 mg/L			SM 1997 4500-NorgB	1.74	101.1 *
01/19	1000	TSB	Nitrate Nitrogen	2.60 mg/L			SM 2000 4500-NO3 E	0.90	104.7 *
01/18	1630	TSB	Nitrite Nitrogen	0.048 mg/L			SM 2000 4500 NO2 B	0.61	100.9 *
01/18	0820	JCB	pH	7.5 S.U.			SM 2000 4500-H+ B	0.00	N/A
01/19	1130	TSB	Phosphorous, Total (as P)	7.5 mg/L			EPA 365.3	1.65	104.7 *
01/19	1150	AEU	Solids, Total Suspended	24.0 mg/L	(b)		SM 1997 2540 D	35.29	N/A *
01/19	1545	JCB	Coliform, Fecal	< 4 /100ml			SM 9222 D 1997	22.22	N/A *
01/18	1204	AEU	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	0.17	104.4 *
01/19	1005	AEU	Solids, % Total by mass	0.041 %			SM 1997 2540 G	0.00	N/A
01/24	0945	TSB	Nitrogen, Plant Available	47.2 mg/L			SM 1997 4500-N		
01/18	0820	JCB	Sample Collection/Travel	1 each					

\* QA data shown is from a different sample or standard on the same date.  
 (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 Richard Brown  
 Environmental Services Co., Inc.

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:		New Water-Bethel Oaks			Permit/Project #:					pH(23) P(25), NH <sub>3</sub> -N(15-A), NO <sub>3</sub> (18), TKN(16-A) CBOD(70), TSS(28), NO <sub>2</sub> (19) F. COLIFORM(43) %Solids (82), PAN(99.99)					
Address:		Po Box 193805			Purchase Order #:										
		N. Little Rock AR 72217			Sampler Name(s):		John Burd								
Telephone:		501-888-0500			and Signature(s):		[Signature]								
Telephone:															
ESC Client Number:		2127													
Sample Identification		Sample Collection				Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
EFFLUENT	170102017	11/18/17	0820	GRAB	Water	teflon	150 ml	none	1	X					
EFFLUENT				GRAB	Water	Plastic	8 oz	H <sub>2</sub> SO <sub>4</sub> , pH<2	1		X				
EFFLUENT				GRAB	Water	Plastic	1 qt	none/ice	1			X	X		
EFFLUENT				GRAB	Water	Whirlpak	125 ml	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1				X		
Cool all samples to 6 degrees C.															
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals		Used?	Intact?				
[Signature]		11/18/17	1030	[Signature]				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	No				
[Signature]				[Signature]		11/18/17	1030	Yes		<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Comments:					FLOW DATA	Field Test	Time	Analyst	Result	Result	Units				
					Analyst:	pH:	0820	JCB	7.5	7.5					
					Time:	Temp.:			14.5	14.4	°C				
					Reading:	DO:									
					Units:	Debris:									
Cool all samples to 6 degrees C.					Chlorinated? Yes No			This Document is Page 1 of 1							

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Control Number: 1701020418	Sample Date : 01/25/17	Collected By: AU
Customer Name : GREENFIELD CAP DEV-BETHEL OAKS	Sample Time : 1126	Delivery By : AU
Customer/Permit No. : 1855 / 4875-WR-2	Sample Type : GRAB	Work Order :
Report Date : 01/27/17	Sample From : EFFLUENT	Purchase Order :

### Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/26	1200	AEU	Solids, Total Suspended	14.5 mg/L			SM 1997 2540 D	50.00	N/A *
01/25	1126	AEU	Sample Collection/Travel	1 each					

\* 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

*Richard Brown*

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### CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters										
Company Name: Bethel Oaks				Permit/Project #:						pH(23)	P(25), NH <sub>3</sub> -N(15-A), NO <sub>3</sub> (18), TKN(16-A)	TSS(28)	F. COLIFORM(43)	%Solids (82), PAN(99.99)						
Address: 1849 N. Trillium Lane				Purchase Order #:																
Fayetteville, AR 72704				Sampler Name(s): Amber Underwood																
Telephone: 479-790-3813				and Signature(s):																
Telephone:																				
ESC Client Number: 1855																				
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
EFFLUENT				GRAB	Water	teflon	150 ml	none	1											
EFFLUENT				GRAB	Water	Plastic	8 oz	H <sub>2</sub> SO <sub>4</sub> , pH<2	1											
EFFLUENT	701020418	1/25/17	1126	GRAB	Water	Plastic	1 qt	none/ice	1			X								
EFFLUENT				GRAB	Water	Whirlpak	125 ml	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1											
Cool all samples to 6 degrees C.																				
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:												
		1/25/17	1147					Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>												
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:												
								Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>												
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:												
						1/25/17	1147	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
Comments:				FLOW DATA	Field Test	Time	Analyst	Result	Result	Units										
				Analyst:	pH:															
				Time:	Temp.:															
				Reading:	DO:															
				Units:	Debris:															
Cool all samples to 6 degrees C.						Chlorinated? Yes No				This Document is Page 1 of 1										