

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

PERMITTEE NAME
Bethel Oaks Subdivision
PERMITTEE ADDRESS
PO Box 3008 Fort Smith AR 72901

FACILITY NAME (IF DIFFERENT)
Bethel Oaks Subdivision

PERMIT NO.
4875-WR-1

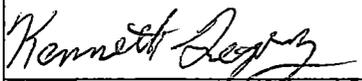
FACILITY ADDRESS
WA County Hwy 62 at Bethel Blacktop Rd Farmington AR

AFIN NO.
72-01656

WASTEWATER EFFLUENT MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
5/1/2017	5/31/2017

TREATED WASTEWATER EFFLUENT SAMPLING

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.115229	MGD	Grab Sample once per month	Prior to the 15th of the following Month
Flow, daily maximum	REPORT	0.00436	MGD		
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l		
Total Suspended Solids (TSS)	15	13.7	mg/l		
Fecal Coliform Bacteria (FCB)	7,800	< 4	colonies/100ml		
pH	6.0 - 9.0	7.3	s.u.		
Total Phosphorus (TP)	REPORT	7.6	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	42.1	mg/l		
Ammonia Nitrogen	REPORT	40	mg/l		
Nitrate Nitrogen (NO ₃ -N)	REPORT	6.85	mg/l		
Nitrite Nitrogen (NO ₂ -N)	REPORT	0.512	mg/l		
Plant Available Nitrogen (PAN)	REPORT	48	mg/l		
Total Solids	REPORT	0.038	Percentage (%)		
Loading Rate	0.138	See Attached	gpd/ft 2	Continuous	

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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
			(479) 530-5926	6/8/2017
TYPED OR PRINTED				MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (*Reference all attachments here*)

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May 2017 BETHEL OAKS LOADING RATES .138 4,360 Gal

Zone Identification	GPD/sq 2
Zone 1	363.33
Zone 2	363.33
Zone 3	363.33
Zone 4	363.33
Zone 5	363.33
Zone 6	363.33
Zone 7	363.33
Zone 8	363.33
Zone 9	363.33
Zone 10	363.33
Zone 11	363.33
Zone 12	363.33

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: 1705020171	Sample Date : 05/17/17	Collected By: AEU8
Customer Name : GREENFIELD CAP DEV-BETHEL OAKS	Sample Time : 0815	Delivery By : AEU
Customer/Permit No. : 1855 / 4875-WR-2	Sample Type : GRAB	Work Order :
Report Date : 05/23/17	Sample From : EFFLUENT	Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/17	1630	JCB	Ammonia Nitrogen	40.0 mg/L			SM 1997 4500-NH3 F	8.70	93.5 *
05/18	0830	TSB	Total Kjeldahl Nitrogen	42.10 mg/L			02/2014 HACH 10242	2.79	98.3 *
05/18	1550	TSB	Nitrate Nitrogen	6.85 mg/L			SM 2000 4500-NO3 E	0.34	101.7 *
05/17	1550	JCB	Nitrite Nitrogen	0.512 mg/L			SM 2000 4500 NO2 B	0.00	92.6 *
05/17	0912	AEU	pH	7.3 S.U.			SM 2000 4500-H+ B	0.00	N/A *
05/18	1000	TSB	Phosphorous, Total (as P)	7.6 mg/L			EPA 365.3	0.00	103.2 *
05/22	1330	JCB	Solids, Total Suspended	13.7 mg/L			SM 1997 2540 D	5.13	N/A *
05/17	1540	RHB	Coliform, Fecal	< 4 /100ml			SM 9222 D 1997	0.00	N/A *
05/17	1400	TSB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	11.54	108.1 *
05/18	1410	AEU	Solids, % Total by mass	0.038 %			SM 1997 2540 G	0.53	N/A *
05/18	1615	TSB	Nitrogen, Plant Available	48.0 mg/L			SM 1997 4500-N		
05/17	0817	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
 Environmental Services Co., Inc.

