

**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 12/1/2016	MM/DD/YYYY 12/31/2016

**TREATED WASTEWATER EFFLUENT SAMPLING**

PARAMETER	Limit	Sample Measurement	UNITS	Monitoring	Reporting
Flow, Monthly total	REPORT	0.192371	MGD	Grab Sample once per month	Prior to the 15th of the following Month
Flow, dally maximum	REPORT	0.014798	MGD		
Carbonaceous Biochemical Oxygen Demand (CBOD5)	15	< 2	mg/l		
Total Suspended Solids (TSS)	15	13	mg/l		
Fecal Coliform Bacteria (FCB)	7,800	< 4	colonies/100ml		
pH	6.0 - 9.0	7.5	s.u.		
Total Phosphorus (TP)	REPORT	7.4	mg/l		
Total Kjeldahl Nitrogen (TKN)	REPORT	39.2	mg/l		
Ammonia Nitrogen	REPORT	37.3	mg/l		
Nitrate Nitrogen ( NO3-N)	REPORT	4.21	mg/l		
Nitrite Nitrogen ( NO2-N)	REPORT	0.021	mg/l		
Plant Available Nitrogen (PAN)	REPORT	42.1	mg/l		
Total Solids	REPORT	0.038	Percentage (%)		
Loading Rate	0.138	2,042	gpd/ft 2		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Ken Gregory  TYPED OR PRINTED	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	1/12/2017  MM/DD/YYYY

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)

BETHEL OAKS LOADING RATES

Zone Identification	GPD/sq 2
Zone 1	2,042
Zone 2	2,042
Zone 3	2,042
Zone 4	2,042
Zone 5	2,042
Zone 6	2,042
Zone 7	2,042
Zone 8	2,042
Zone 9	2,042
Zone 10	2,042
Zone 11	2,042
Zone 12	2,042

# 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: 1612020225	Sample Date : 12/14/16	Collected By: JB
Customer Name : GREENFIELD CAP DEV-BETHEL OAKS	Sample Time : 0840	Delivery By : JB
Customer/Permit No. : 1855 / 4875-WR-1	Sample Type : GRAB BETHEL OAKS	Work Order :
Report Date : 12/21/16	Sample From : EFFLUENT	Purchase Order :

### Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
12/14	1700	AEU	Ammonia Nitrogen	37.3 mg/L			SM 1997 4500-NH3 F	2.07	113.9 *
12/15	0815	AEU	Kjeldahl Nitrogen Total	39.20 mg/L			SM 1997 4500-NorgB	4.20	102.1 *
12/20	0800	TSB	Nitrate Nitrogen	4.21 mg/L			SM 2000 4500-NO3 E	0.11	100.2 *
12/14	1630	JCB	Nitrite Nitrogen	0.021 mg/L			SM 2000 4500 NO2 B	0.46	99.5 *
12/14	0840	JCB	pH	7.5 S.U.			SM 2000 4500-H+ B	1.63	N/A *
12/19	1300	TSB	Phosphorous, Total (as P)	7.4 mg/L			EPA 365.3	0.00	102.3
12/14	1045	JCB	Solids, Total Suspended	13.0 mg/L			SM 1997 2540 D	0.00	N/A *
12/14	1607	AEU	Coliform, Fecal	< 4 /100ml			SM 9222 D 1997	0.00	N/A *
12/14	1400	RHB	BOD, Carbonaceous	< 2.0 mg/L			SM 2001 5210 B	6.15	92.4 *
12/15	1113	AEU	Solids, % Total by mass	0.038 %			SM 1997 2540 G	5.41	N/A *
12/21	0600	RHB	Nitrogen, Plant Available	42.1 mg/L			SM 1997 4500-N		

\* 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.

