

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY  
MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION  
NO DISCHARGE MONTHLY MONITORING REPORT**

|   |
|---|
| <b>PERMITTEE NAME</b>                                 |
| Cane Island Estates LLC                               |
| <b>PERMITTEE ADDRESS</b>                              |
| Danny Hames<br>39 Nottingham Lane<br>Rogers, AR 72758 |


|                                       |
|---------------------------------------|
| <b>FACILITY NAME (IF DIFFERENT)</b>   |
| Cane Island Subdivision               |
| <b>FACILITY ADDRESS</b>               |
| CR 7002 Bull Shoals Rd. Marion County |

|                   |
|-------------------|
| <b>PERMIT NO.</b> |
| 4899-WR-3         |
| <b>AFIN NO.</b>   |
| 45-00214          |

|                          |    |            |
|--------------------------|----|------------|
| <b>MONITORING PERIOD</b> |    |            |
| MM/DD/YYYY               | TO | MM/DD/YYYY |
| 1/1/2019                 |    | 1/31/2019  |

| EFFLUENT LIMITS, MONITORING, AND REPORTING REQUIREMENTS                         |              |                    |                |                         |             |
|---|--------------|--------------------|----------------|-------------------------|-------------|
| PARAMETER   | PERMIT LIMIT | SAMPLE MEASUREMENT | UNITS          | FREQUENCY OF ANALYSIS   | SAMPLE TYPE |
| CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD5)                                  | 30           | 3.5                | MG/L           | Once per Month / Grab   |             |
| TOTAL SUSPENDED SOLIDS (TSS)  | 45           | < 2.5              | MG/L           |                         |             |
| FECAL COLIFORM BACTERIA (FCB)   | 2000         | < 1                | COLONIES/100ml |                         |             |
| pH  | 6.0 - 9.0    | 7.5                | s.u            |                         |             |
| TOTAL PHOSPHOROUS (TP)  | Report       | 5.67               | MG/L           |                         |             |
| TOTAL KJELDAHL NITROGEN (TKN)   | Report       | 42                 | MG/L           | Once per Quarter / Grab |             |
| NITROGEN AMMONIA NITROGEN (NH <sub>3</sub> - N)                                 | Report       | < 0.01             | MG/L           |                         |             |
| NITRITE NITROGEN (NO <sub>2</sub> - N) + NITRATE NITROGEN (NO <sub>3</sub> - N) | Report       | 32.4               | MG/L           |                         |             |
| PLANT AVAILABLE NITROGEN (PAN)  | Report       | 45.12              | MG/L           |                         |             |
| TOTAL FLOW  |              | MONTHLY TOTAL      | DAILY MAX      | GPD                     |             |
|   |              | 14,358             | 647            |                         |             |

| DRIP ZONES LOADING RATE LIMITS, MONITORING AND REPORTING REQUIREMENTS |       |                     |                      |       |            |                  |
|---|-------|---------------------|----------------------|-------|------------|------------------|
| Zone ID   | Limit | Units               | Maximum Volume Limit | Units | Monitoring | Reported maximum |
| Zone 1  | 0.62  | gpd/ft <sup>2</sup> | 15,653               | gpd   | Daily      | 647              |
| Zone 2  | 0.62  |                     | 37,529               | gpd   | Daily      | Not Used         |

|   |   |   |           |          |            |
|---|---|---|-----------|----------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><br><i>Kathy Bartlett</i><br><br>TYPED OR PRINTED | I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM AWARE OF 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. | <br>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE |          |            |
|   |   |   | AREA CODE | NUMBER   | MM/DD/YYYY |
|   |   |   | 479       | 790-3813 | 1/5/2019   |

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

# 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: 1901010060  
 Customer Name : CANE ISLAND ESTATES POA  
 Customer Number : 3859  
 Report Date : 01/16/19

Sample Date : 01/03/19  
 Sample Time : 1240  
 Sample Type : GRAB WWATER  
 Sample From : FINAL EFFLUENT

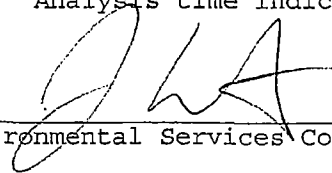
Collected By: TMO  
 Delivery By : TMO  
 Work Order :  
 Purchase Order :

| <u>Laboratory Analysis</u> |      |     |                           |              |          | <u>Quality Assurance</u> |           |          |
|----------------------------|------|-----|---------------------------|--------------|----------|--------------------------|-----------|----------|
| Analysis                   |      |     | Result                    | Notes        | Quantity | Method                   | Precision | Accuracy |
| Date                       | Time | By  |                           |              |          |                          | Parameter | % RPD    |
| 01/07                      | 1430 | DWC | Ammonia as N, (HACH/SM)   | < 0.01 mg/L  |          | H/SM 11 10205/4500       | 0.00      | 98.8 *   |
| 01/07                      | 1400 | PJC | Total Kjeldahl Nitrogen   | 42.4 mg/L    |          | 02/2014 HACH 10242       | 0.40      | 102.0 *  |
| 01/03                      | 1243 | TMO | pH                        | 7.5 S.U.     |          | SM 2000 4500-H+B         | 0.00      | N/A      |
| 01/04                      | 1000 | PJC | Phosphorous, Total (as P) | 5.670 mg/L   |          | HACH 10209               | 0.69      | 98.2 *   |
| 01/04                      | 1400 | PJC | Solids, Total Suspended   | < 2.50 mg/L  |          | SM 2011 2540 D           | 0.00      | N/A *    |
| 01/11                      | 1000 | PJC | Nitrogen, Plant Available | 45.12 mg/L   |          | 33 MSA 2nd Ed            |           |          |
| 01/03                      | 1800 | TMO | Fecal Coliform            | < 1.0 /100ml |          | 06/2012 Colilert18       | 0.00      | N/A      |
| 01/04                      | 0645 | DWC | BOD, Carbonaceous         | 3.50 mg/L    |          | SM 2011 5210 B           | 31.33     | 105.7 *  |
| 01/10                      | 1200 | PJC | Nitrate + Nitrite         | 32.40 mg/L   |          | HACH 10206               | 0.26      | 98.8 *   |

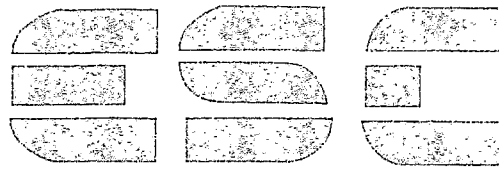
\* QA data shown is from a different sample or standard on the same date.

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 \_\_\_\_\_

  
 Environmental Services Co., Inc.

Environmental Services Company, Inc.  
 Corporate Office  
 13715 West Markham P.O. Box 55146  
 Little Rock, AR 72211 Little Rock, AR 72215  
 website: www.esclabs.com



Springdale, Arkansas  
 479-750-1170

Carlsbad, New Mexico  
 575-887-1ESC

Phone: 501-221-2565 Fax: 501-221-1341

### CHAIN OF CUSTODY

| Client Information  |               |  |      | Project Information  |        |                          |         | Requested Parameters             |         |   |              |                                  |                           |                          |                           |                       |
|---|---------------|--|------|--|--------|--------------------------|---------|----------------------------------|---------|---|--------------|----------------------------------|---------------------------|--------------------------|---------------------------|-----------------------|
| Client: Cane Island Estates POA                                     |               | Permit/Project #:  |      | Purchase Order #:  |        | Work Order # 111816-AEG2 |         | Sampler Name(s): Timothy O'Neal  |         | and Signature(s): <i>Timothy O'Neal</i>     |              | TSS(28), CBOD(70)                | NO3+NO2 (91)              | TKN(16.A), Ammonia(15.A) | PAN (33.PN), Total P (25) | Fecal Coliform(43.IF) |
| Address: 39 Nottingham Lane<br>Rogers, AR 72758                     |               | Phone: 479-619-8450                                      |      | Fax: rhames@nwork.com  |        | Contact: Mr. Rusty Hames |         | ESC Client Number: 3859          |         |   |              |                                  |                           |                          |                           |                       |
| Sample Identification   |               | Sample Collection  |      |  |        | Sample Containers        |         |                                  |         |   |              |                                  |                           |                          |                           |                       |
| Identification  | ESC Control # | Date   | Time | Type   | Matrix | Type                     | Volume  | Preservative                     | #       | TSS(28), CBOD(70)                           | NO3+NO2 (91) | TKN(16.A), Ammonia(15.A)         | PAN (33.PN), Total P (25) | Fecal Coliform(43.IF)    |                           |                       |
| Final Effluent  | 1810100060    | 1-3-19   | 1240 | Grab   | Wwater | Plastic                  | 1/2 Gal | Cool ≤ 6° C                      |         | X   |              |                                  |                           |                          |                           |                       |
|   |               |  |      | Grab   | Wwater | Plastic                  | 1 Liter | Cool ≤ 6° C,<br>H2SO4 to pH <2   |         |   | X            | X                                | X                         |                          |                           |                       |
|   |               |  |      | Grab   | Wwater | Whirlpak                 | 4 oz.   | Cool <10° C,<br>Na2S2O3          |         |   |              |                                  |                           | X                        |                           |                       |
| Relinquished By: (Signature and Printed Name)                       |               | Date   | Time | Received By: (Signature and Printed Name)                          |        | Date                     | Time    | Custody Seals:                   |         | 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) <i>Timothy O'Neal</i> |               | Date   | Time | Received for Lab By: (Signature and Printed Name) <i>Paul Cant</i> |        | Date                     | Time    | Were samples properly preserved: |         | Yes <input checked="" type="checkbox"/>     |              | No <input type="checkbox"/>      |                           |                          |                           |                       |
| Comments: <i>Wick-in cooler</i>                                     |               | Site Address: 1364 Cane Island Road<br>Flippin, AR 72634 |      | Flow Data  |        | Field Test               |         | Time                             | Analyst | Result                                      | Result       | Units                            |                           |                          |                           |                       |
|   |               |  |      |  |        | pH:                      |         | 1243                             | TMO     | 7.5   | 7.5          | SU                               |                           |                          |                           |                       |
|   |               |  |      |  |        | Fecal Start:             |         | 1820                             | TMO     |   |              |                                  |                           |                          |                           |                       |

*OH*