



# Quarterly Sludge Summary Report Form

Note 1: If your site has more than one land application field, please submit a separate form for each field.  
 Note 2: Please place this sheet at the top of your Quarterly Sludge Report.  
 Note 3: If you operate other registered/permitted sludge land application sites, a form should be submitted for each site.  
 Note 4: Please send a copy of this sheet and all attachments to the TCEQ regional office in your area.

For TCEQ Quarter 4<sup>th</sup> Reporting period from 2013 to 2014

Permit No.: WQ 4830 Date: 9-10-14

Permittee Name: Terra Renewal Services, Inc.

Mailing Address: P.O. Box 399 Dardanelle, AR 72834

Contact Name: Marcus Tilley Telephone No: 479-668-4035

Field Number (if any): \_\_\_\_\_ (Submit separate form for each field, if site has two or more fields)

1. Class B Sewage Sludge land Applied: 166.98 dry tons/quarter
2. Treated Domestic Septage land Applied: 0 gallons/quarter
3. Water Treatment Plant Sludge land Applied: 13.04 dry tons/quarter
4. Class A Sewage Sludge land applied: 0 dry tons/quarter
  - a. Acreage used for sludge application at this site or field: 148.7 acres
  - b. Site Vegetation (such as grass type, etc.) and # of cuttings or indicate if grazing: Bermuda Pasture
  - c. Did any of the sludge you have generated or received NOT MEET concentration limits for any of the metals listed in Table 3 of 30 TAC §312.43 (b)? (Yes or No) Yes. See self report dtd 10-1-13 to Enforcement Div.
  - d. Did the cumulative metal loading Rates for any metal equal or exceed 90% of the limits in Table 2 of 30 TAC 312.43(b)? (Yes or No) NO
  - e. Were the site management practices per 30 TAC 312.44 met? (Yes or No) Yes
  - f. Was an insurance policy required per 30 TAC 312.11(d)(5)? (Yes or No) Yes

**Sewage Sludge Only - Please attach information regarding the following items:**  
 \* Please note the following information should be provided in computer-generated report format:  
 \* Please place check mark before each item below to indicate that the item is attached to this report.  
 \* Please include all information in manner such as listed in the attached instructions on Page 2

1. Metal concentration, pathogen analysis data and vector attraction certifications of sludge for each source.
2. Provide a list containing the name and permit number of each source of sludge.
3. Date of delivery of each load of sludge land applied.
4. Date of land application of each load of sludge.
5. The cumulative metal loading rates for any metals as listed in Table 2 of 30 TAC §312.43(b)?
6. The suggested agronomic rate for the Class B sludge.

**PLEASE MAIL THE COMPLETED QUARTERLY REPORT TO:**  
 Texas Commission on Environmental Quality  
 Municipal Permits Team (MC 148)  
 Wastewater Permitting Section  
 P.O. Box 13087  
 Austin, TX 78711-3087

Field Name: IRON FARM 3  
 Landowner:  
 Crop: Bermuda Pasture  
 Application Dates: 6/5/2014 - 8/29/2014  
 Available Acres: 44.70  
 Allowable Dry Tons/Acre: 9.48

**FIELD REPORT**  
 Municipal Biosolids Texas - Environmental



Permit No. WQ0004830000  
 6/1/2014 - 8/31/2014

| Customer       | Product | Volume  | Units | DryTons | DT/Ac | Path Class |   |   | 503 Limit* |   | Loading Rates (lbs/acre) |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------|---------|---------|-------|---------|-------|------------|---|---|------------|---|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                |         |         |       |         |       | A          | B | V | 1          | 3 | Total N                  | P     | K      | As     | Cd     | Cu     | Pb     | Ni     | Cr     | Hg     | Mo     | Se     | Zn     | AIC#   |        |
| AQUARES        | Sludge  | 6,000   | GAL   | 0.58    | 0.01  |            |   |   | N          | N | 0.44                     | 0.66  | 0.11   | 0.0000 | 0.0000 | 0.0135 | 0.0003 | 0.0003 | 0.0011 | 0.0000 | 0.0003 | 0.0001 | 0.034  | 261993 |        |
| BEACHWO        | Sludge  | 6,000   | GAL   | 0.15    | 0.00  |            |   |   | N          | N | 0.01                     | 0.02  | 0.01   | 0.0001 | 0.0000 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | C38982 |
| BEAWWTP        | Sludge  | 6,000   | GAL   | 0.83    | 0.02  |            |   |   | N          | N | 0.57                     | 0.01  | 0.06   | 0.0003 | 0.0000 | 0.0069 | 0.0005 | 0.0003 | 0.0006 | 0.0000 | 0.0002 | 0.0001 | 0.011  | C43591 |        |
| CHEWWTP        | Sludge  | 36,000  | GAL   | 6.61    | 0.15  |            |   |   | N          | N | 4.26                     | 0.62  | 0.35   | 0.0022 | 0.0001 | 0.0762 | 0.0046 | 0.0022 | 0.0052 | 0.0003 | 0.0017 | 0.0009 | 0.083  | C36768 |        |
| LAKFORK        | Sludge  | 6,000   | GAL   | 0.38    | 0.01  |            |   |   | N          | N | 0.11                     | 0.13  | 0.04   | 0.0000 | 0.0000 | 0.0204 | 0.0003 | 0.0002 | 0.0002 | 0.0000 | 0.0001 | 0.0001 | 0.011  | C38850 |        |
| LOGCABI        | Sludge  | 12,000  | GAL   | 1.02    | 0.02  |            |   |   | N          | N | 0.59                     | 0.72  | 0.09   | 0.0002 | 0.0001 | 0.0226 | 0.0019 | 0.0008 | 0.0012 | 0.0000 | 0.0003 | 0.0004 | 0.055  | 620010 |        |
| LONGVIE        | Cake    | 330     | YARD  | 51.40   | 1.15  |            |   |   | N          | N | 0.15                     | 57.96 | 2.41   | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 665152 |        |
| SEVERNT        | Sludge  | 144,000 | GAL   | 42.77   | 0.96  |            |   |   | N          | N | 3.04                     | 4.98  | 2.68   | 0.0036 | 0.0016 | 0.1952 | 0.0044 | 0.0063 | 0.0047 | 0.0002 | 0.0036 | 0.0036 | 0.210  | 481342 |        |
| Report Totals: |         | 216,330 |       | 103.73  | 2.32  |            |   |   |            |   | 9.16                     | 55.75 | 6.1718 | 0.0101 | 0.0025 | 0.5523 | 0.0220 | 0.0154 | 0.0234 | 0.0010 | 0.0092 | 0.0075 | 0.719  |        |        |

\*Indicates whether the 503 limits for table 1 and 3 have been exceeded.

Field Name: IRON FARM 4  
 Landowner:  
 Crop: Bermuda Pasture  
 Application Dates: 7/7/2014 - 8/28/2014  
 Available Acres: 54.00  
 Allowable Dry Tons/Acre: 9.48



| Customer       | Product | Volume  | Units | DryTons | DT/Ac | Path Class |   |   | 503 Limit* |   | Loading Rates (lbs/acre) |      |        |        |        |        |        |        |        |        |        |        |       |         |
|----------------|---------|---------|-------|---------|-------|------------|---|---|------------|---|--------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------|
|                |         |         |       |         |       | A          | B | V | 1          | 3 | Total N                  | P    | K      | As     | Cd     | Cu     | Pb     | Ni     | Cr     | Hg     | Mo     | Se     | Zn    | AIC#    |
| BEAWWTP        | Sludge  | 12,000  | GAL   | 1.65    | 0.03  |            |   |   | N          | N | 0.95                     | 0.02 | 0.09   | 0.0006 | 0.0000 | 0.0114 | 0.0009 | 0.0005 | 0.0010 | 0.0000 | 0.0003 | 0.0001 | 0.018 | C43591  |
| CARESTA        | Sludge  | 48,000  | GAL   | 12.61   | 0.23  |            |   |   | N          | Y | 1.02                     | 0.58 | 0.47   | 0.0231 | 0.0001 | 0.0367 | 0.0050 | 0.0078 | 0.0080 | 0.0001 | 0.0014 | 0.0011 | 0.047 | st42328 |
| CHESWTP        | Sludge  | 6,000   | GAL   | 0.28    | 0.01  |            |   |   | N          | N | 0.06                     | 0.02 | 0.00   | 0.0001 | 0.0000 | 0.0002 | 0.0001 | 0.0001 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.000 | C43223  |
| LOGCABI        | Sludge  | 18,000  | GAL   | 1.52    | 0.03  |            |   |   | N          | N | 0.73                     | 0.89 | 0.12   | 0.0002 | 0.0002 | 0.0281 | 0.0023 | 0.0010 | 0.0015 | 0.0000 | 0.0004 | 0.0005 | 0.068 | 620010  |
| SEVERNT        | Sludge  | 162,000 | GAL   | 48.11   | 0.89  |            |   |   | N          | N | 2.83                     | 4.63 | 2.49   | 0.0034 | 0.0015 | 0.1818 | 0.0041 | 0.0058 | 0.0044 | 0.0002 | 0.0034 | 0.0034 | 0.196 | 481342  |
| Report Totals: |         | 246,000 |       | 64.17   | 1.19  |            |   |   |            |   | 5.58                     | 7.54 | 3.1904 | 0.0284 | 0.0020 | 0.3056 | 0.0179 | 0.0175 | 0.0189 | 0.0005 | 0.0062 | 0.0060 | 0.463 |         |

\*Indicates whether the 503 limits for table 1 and 3 have been exceeded.

Field Name: IRON FARM 5  
 Landowner:  
 Crop: Bermuda Pasture  
 Application Dates: 7/23/2014 - 7/31/2014  
 Available Acres: 50.00  
 Allowable Dry Tons/Acre: 8.43



| Customer       | Product | Volume | Units | DryTons | DT/Ac | Path Class |   |   | 503 Limit* |   | Loading Rates (lbs/acre) |      |        |        |        |        |        |        |        |        |        |        |       |        |
|----------------|---------|--------|-------|---------|-------|------------|---|---|------------|---|--------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
|                |         |        |       |         |       | A          | B | V | 1          | 3 | Total N                  | P    | K      | As     | Cd     | Cu     | Pb     | Ni     | Cr     | Hg     | Mo     | Se     | Zn    | AIC#   |
| BEAWWTP        | Sludge  | 6,000  | GAL   | 0.83    | 0.02  |            |   |   | N          | N | 0.51                     | 0.01 | 0.05   | 0.0003 | 0.0000 | 0.0062 | 0.0005 | 0.0003 | 0.0005 | 0.0000 | 0.0002 | 0.0000 | 0.010 | C43591 |
| PINNCLU        | Sludge  | 6,000  | GAL   | 0.60    | 0.01  |            |   |   | N          | N | 0.20                     | 0.10 | 0.05   | 0.0000 | 0.0000 | 0.0312 | 0.0006 | 0.0002 | 0.0004 | 0.0000 | 0.0002 | 0.0001 | 0.013 | C36769 |
| SEVERNT        | Sludge  | 36,000 | GAL   | 10.69   | 0.21  |            |   |   | N          | N | 0.68                     | 1.11 | 0.60   | 0.0008 | 0.0004 | 0.0436 | 0.0010 | 0.0014 | 0.0011 | 0.0000 | 0.0008 | 0.0008 | 0.047 | 481342 |
| Report Totals: |         | 48,000 |       | 12.12   | 0.24  |            |   |   |            |   | 1.39                     | 1.21 | 0.7168 | 0.0014 | 0.0004 | 0.1272 | 0.0032 | 0.0021 | 0.0030 | 0.0001 | 0.0014 | 0.0010 | 0.090 |        |

\*Indicates whether the 503 limits for table 1 and 3 have been exceeded.

# FIELD REPORT

Load Detail - Environmental



**TERRA**  
renewal

Field Name: IRON FARM 3 DM-3  
 Landowner:  
 Crop: Bermuda Pasture  
 Application Rate 300 PAN/acre  
 Available Acres: 44.70

Permit No. WQ0004830000  
 6/1/2014 - 8/31/2014

| Delivery Date | Application Date | Customer                          | Product | PAN   | Dry Tons Applied | DT/Ac |
|---------------|------------------|-----------------------------------|---------|-------|------------------|-------|
| 6/5/2014      | 6/5/2014         | AQUARES-Aqua Texas Inc            | Sludge  | 19.68 | 0.58             | 0.01  |
| 6/7/2014      | 6/7/2014         | CHEWWTP-Southwest Water Co        | Sludge  | 31.77 | 1.10             | 0.02  |
| 6/9/2014      | 6/9/2014         | LAKFORK-Southwest Water Co        | Sludge  | 4.81  | 0.38             | 0.01  |
| 6/13/2014     | 6/13/2014        | BEAWWTP-Southwest Water Co        | Sludge  | 25.66 | 0.83             | 0.02  |
| 6/17/2014     | 6/17/2014        | BEACHWO-Southwest Water Co        | Sludge  | 0.35  | 0.15             | 0.00  |
| 6/19/2014     | 6/19/2014        | CHEWWTP-Southwest Water Co        | Sludge  | 31.77 | 1.10             | 0.02  |
| 6/21/2014     | 6/21/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/24/2014     | 6/24/2014        | LOGCABI-City Of Log Cabin, TX     | Sludge  | 13.08 | 0.51             | 0.01  |
| 6/24/2014     | 6/24/2014        | LOGCABI-City Of Log Cabin, TX     | Sludge  | 13.08 | 0.51             | 0.01  |
| 6/25/2014     | 6/25/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/25/2014     | 6/25/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/25/2014     | 6/25/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/26/2014     | 6/26/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/26/2014     | 6/26/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/26/2014     | 6/26/2014        | CHEWWTP-Southwest Water Co        | Sludge  | 31.77 | 1.10             | 0.02  |
| 6/26/2014     | 6/26/2014        | CHEWWTP-Southwest Water Co        | Sludge  | 31.77 | 1.10             | 0.02  |
| 6/27/2014     | 6/27/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/27/2014     | 6/27/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/28/2014     | 6/28/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/28/2014     | 6/28/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/28/2014     | 6/28/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/28/2014     | 6/28/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/30/2014     | 6/30/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/30/2014     | 6/30/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 6/30/2014     | 6/30/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/4/2014      | 7/4/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/4/2014      | 7/4/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/4/2014      | 7/4/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/4/2014      | 7/4/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/4/2014      | 7/4/2014         | CHEWWTP-Southwest Water Co        | Sludge  | 31.77 | 1.10             | 0.02  |
| 7/5/2014      | 7/5/2014         | CHEWWTP-Southwest Water Co        | Sludge  | 31.77 | 1.10             | 0.02  |
| 7/5/2014      | 7/5/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/5/2014      | 7/5/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/5/2014      | 7/5/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/5/2014      | 7/5/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 8/25/2014     | 8/25/2014        | LONGVIE-City Of Longview Wwtp     | Cake    | 60.04 | 2.34             | 0.05  |
| 8/25/2014     | 8/25/2014        | LONGVIE-City Of Longview Wwtp     | Cake    | 60.04 | 2.34             | 0.05  |
| 8/25/2014     | 8/25/2014        | LONGVIE-City Of Longview Wwtp     | Cake    | 60.04 | 2.34             | 0.05  |
| 8/25/2014     | 8/25/2014        | LONGVIE-City Of Longview Wwtp     | Cake    | 60.04 | 2.34             | 0.05  |
| 8/26/2014     | 8/26/2014        | LONGVIE-City Of Longview Wwtp     | Cake    | 60.04 | 2.34             | 0.05  |
| 8/26/2014     | 8/26/2014        | LONGVIE-City Of Longview Wwtp     | Cake    | 60.04 | 2.34             | 0.05  |

Field Name: IRON FARM 3

Crop: Bermuda Pasture

continued

| Application Date | Customer  | Product                       | PAN  | Dry Tons Applied | DT/Ac  |      |
|------------------|-----------|-------------------------------|------|------------------|--------|------|
| 8/26/2014        | 8/26/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/27/2014        | 8/27/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/27/2014        | 8/27/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/27/2014        | 8/27/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/27/2014        | 8/27/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/27/2014        | 8/27/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/28/2014        | 8/28/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/28/2014        | 8/28/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/28/2014        | 8/28/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/28/2014        | 8/28/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/28/2014        | 8/28/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/29/2014        | 8/29/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/29/2014        | 8/29/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/29/2014        | 8/29/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/29/2014        | 8/29/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| 8/29/2014        | 8/29/2014 | LONGVIE-City Of Longview Wwtp | Cake | 60.04            | 2.34   | 0.05 |
| Report Totals:   |           |                               |      | 1,723.92         | 103.73 | 2.32 |

# FIELD REPORT

Load Detail - Environmental



Field Name: IRON FARM 4 DM-4  
 Landowner:  
 Crop: Bermuda Pasture  
 Application Rate 300 PAN/acre  
 Available Acres: 54.00

Permit No. WQ0004830000  
 6/1/2014 - 8/31/2014

| Delivery Date | Application Date | Customer                          | Product | PAN   | Dry Tons Applied | DT/Ac |
|---------------|------------------|-----------------------------------|---------|-------|------------------|-------|
| 7/7/2014      | 7/7/2014         | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/10/2014     | 7/10/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 7/10/2014     | 7/10/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 7/10/2014     | 7/10/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 7/10/2014     | 7/10/2014        | BEAWWTP-Southwest Water Co        | Sludge  | 25.66 | 0.83             | 0.02  |
| 7/11/2014     | 7/11/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/11/2014     | 7/11/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/11/2014     | 7/11/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/12/2014     | 7/12/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/12/2014     | 7/12/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/12/2014     | 7/12/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/14/2014     | 7/14/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/15/2014     | 7/15/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/15/2014     | 7/15/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/15/2014     | 7/15/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/16/2014     | 7/16/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/16/2014     | 7/16/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/17/2014     | 7/17/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/17/2014     | 7/17/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/18/2014     | 7/18/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/18/2014     | 7/18/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/18/2014     | 7/18/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/19/2014     | 7/19/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 7/19/2014     | 7/19/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/9/2014      | 8/9/2014         | BEAWWTP-Southwest Water Co        | Sludge  | 25.66 | 0.83             | 0.02  |
| 8/11/2014     | 8/11/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/11/2014     | 8/11/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/12/2014     | 8/12/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/12/2014     | 8/12/2014        | LOGCABI-City Of Log Cabin, TX     | Sludge  | 13.08 | 0.51             | 0.01  |
| 8/12/2014     | 8/12/2014        | LOGCABI-City Of Log Cabin, TX     | Sludge  | 13.08 | 0.51             | 0.01  |
| 8/13/2014     | 8/13/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/14/2014     | 8/14/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/14/2014     | 8/14/2014        | LOGCABI-City Of Log Cabin, TX     | Sludge  | 13.08 | 0.51             | 0.01  |
| 8/15/2014     | 8/15/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 8/16/2014     | 8/16/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 8/16/2014     | 8/16/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 8/18/2014     | 8/18/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 8/20/2014     | 8/20/2014        | CARESTA-Southwest Water Co        | Sludge  | 6.86  | 1.58             | 0.03  |
| 8/20/2014     | 8/20/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/21/2014     | 8/21/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.03  |
| 8/28/2014     | 8/28/2014        | CHESWTP-Southwest Water Co        | Sludge  | 3.20  | 0.28             | 0.01  |

Field Name: IRON FARM 4

Crop: Bermuda Pasture

*continued*

| Application Date | Customer | Product | PAN    | Dry Tons Applied | DT/Ac |
|------------------|----------|---------|--------|------------------|-------|
| Report Totals:   |          |         | 301.31 | 64.17            | 1.19  |



# FIELD REPORT

Load Detail - Environmental

Permit No. WQ0004830000

6/1/2014 - 8/31/2014



Field Name: IRON FARM 5 DM-5  
Landowner:  
Crop: Bermuda Pasture  
Application Rate 300 PAN/acre  
Available Acres: 50.00

| Delivery Date  | Application Date | Customer                          | Product | PAN   | Dry Tons Applied | DT/Ac |
|----------------|------------------|-----------------------------------|---------|-------|------------------|-------|
| 7/23/2014      | 7/23/2014        | PINNCLU-Southwest Water Co        | Sludge  | 9.99  | 0.60             | 0.01  |
| 7/29/2014      | 7/29/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/30/2014      | 7/30/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/30/2014      | 7/30/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/30/2014      | 7/30/2014        | BEAWWTP-Southwest Water Co        | Sludge  | 25.66 | 0.83             | 0.02  |
| 7/31/2014      | 7/31/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/31/2014      | 7/31/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| 7/31/2014      | 7/31/2014        | SEVERNT-Kaufman Co Fresh Water Su | Sludge  | 5.65  | 1.78             | 0.04  |
| Report Totals: |                  |                                   |         | 69.57 | 12.12            | 0.24  |

TCEQ Permit No. WQ0004830000

Cummulative Metals Table

Reporting Period: June 1st, 2014 - August 31st, 2014

For TCEQ Quarter: 4th

Field: 3

|                    | As     | Cd     | Cu     | Pb     | Ni     | Cr     | Hg     | Mo     | Se     | Zn    |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Cummulative Metals | 0.0633 | 0.0154 | 5.2486 | 0.3487 | 0.3939 | 0.3673 | 0.0065 | 0.1239 | 0.0628 | 6.215 |

TCEQ Permit No. WQ0004830000

Cummulative Metals Table

Reporting Period: June 1st, 2014 - August 31st, 2014

For TCEQ Quarter: 4th

Field: 4

|                    | Ar     | Cd     | Cu      | Pb     | Ni     | Cr    | Hg     | Mo     | Se     | Zn     |
|--------------------|--------|--------|---------|--------|--------|-------|--------|--------|--------|--------|
| Cummulative Metals | 0.6417 | 0.0647 | 31.7328 | 4.2502 | 5.1976 | 4.477 | 0.0569 | 0.7045 | 0.4143 | 36.011 |

TCEQ Permit No. WQ0004830000

Cummulative Metals Table

Reporting Period: June 1st, 2014 - August 31st, 2014

For TCEQ Quarter: 4th

Field: 5

|                    | As     | Cd     | Cu      | Pb     | Ni     | Cr    | Hg     | Mo     | Se    | Zn     |
|--------------------|--------|--------|---------|--------|--------|-------|--------|--------|-------|--------|
| Cummulative Metals | 0.5635 | 0.0806 | 23.2994 | 4.3553 | 4.5321 | 3.997 | 0.0489 | 0.7021 | 0.402 | 38.005 |




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 Permit No: WQ0004830000

| Facility   | Source Permit No. |
|--|-------------------|
| AQUASHA: Aqua Texas Inc / Shale Creek WWTP                     | WQ0014186-001     |
| BEAWWTP: Southwest Water Co / Beachwood -Trinidad, TX WWT      | WQ0011282-001     |
| CARESTA: Southwest Water Co / Carolyn Estates WTP              | PWS1070106        |
| CHEWWTP: Southwest Water Co / Cherokee Shores WWTP             | WQ0013879-001     |
| EASCEDA: East Cedar Creek / Mabank, TX WWTP                    | WQ0011858-001     |
| LAKFORK: Southwest Water Co / Lake Fork Est/Holiday Vlg WWT    | WQ0011282001      |
| LAKHARB: Southwest Water Co / Lakeway Harbor WTP               | PWS2120064        |
| LOGCABI: City Of Log Cabin, TX / Malakoff WWTP                 | WQ0014158-001     |
| LONGVIE: City Of Longview Wwtp / WWTP                          | WQ0010589-002     |
| LONGWTP: City Of Longview-Lake O'Pine / Water Treatment Plant  | PWS0920004        |
| PINNCLU: Southwest Water Co / Mabank, TX WWTP                  | WQ0011506-001     |
| SEVERNT: Kaufman Co Fresh Water Supply / District 1a - Forney, | WQ0013910-001     |