



Quarterly Sludge Summary Report Form (Class B)

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/permited 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 1st Reporting Period from 2013 To 2014
PERMIT NO.: 04462 DATE: December 15, 2013
NAME OF PERMITEE: TRS Enviroganics
MAILING ADDRESS: PO Box 73006
Houston, TX 77273-3006
CONTACT NAME: Todd Shearin TELEPHONE NO.: (336) 266-9134

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

1. Class B Sewage Sludge -Land Applied: 34.76 dry tons/quarter
2. Treated Domestic Septage- Land Applied: 0.00 gallons/quarter
Method used to treat Domestic Septage N/A
3. Water Treatment Plant Sludge- Land Applied: 0.0 dry tons/quarter
4. Class A Sludge- Land Applied: 0.00 dry tons/quarter
a. Acreage used for Sludge Application/disposal at this site: _____ acres
b. Site Vegetation (such as grass type etc) and # of cuttings: Bermuda-hay cutting & heavy grazing
c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43(b)" Yes _____ No X
d. Site Location Latitude: 30 Deg 04 Min Longitude: 96 Deg 05 Min
e. Site physical address: 4.8 miles west of the intersection of Hwy 290 & Hwy 6

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

- 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



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 PERMIT NO.: 04462 DATE: December 15, 2013
 NAME OF PERMITEE: TRS Envirogenics
 MAILING ADDRESS: PO Box 73006
Houston, TX 77273-3006
 CONTACT NAME: Todd Shearin TELEPHONE NO.: (336) 266-9134
 Field Number (if any): E (Submit separate form for each field, if site has two or more fields)

1. Class B Sewage Sludge -Land Applied:	<u>227.92</u>	dry tons/quarter
2. Treated Domestic Septage- Land Applied:	<u>0.00</u>	gallons/quarter
Method used to treat Domestic Septage	<u>N/A</u>	
3. Water Treatment Plant Sludge- Land Applied:	<u>0.0</u>	dry tons/quarter
4. Class A Sludge- Land Applied:	<u>0.00</u>	dry tons/quarter
a. Acreage used for Sludge Application/disposal at this site:	<u>78.0</u>	acres
b. Site Vegetation (such as grass type etc) and # of cuttings:	<u>Bermuda-hay cutting & heavy grazing</u>	
c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43(b)?"	Yes _____	No <u>X</u>
d. Site Location Latitude:	<u>30 Deg 04 Min</u>	Longitude: <u>96 Deg 05 Min</u>
e. Site physical address:	<u>4.8 miles west of the intersection of Hwy 290 & Hwy 6</u>	

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

- 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

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 Municipal Permits Team (MC 148)
 Wastewater Permitting Section
 P.O. Box 13087
 Austin, TX 78711-3087



Quarterly Sludge Summary Report Form (Class B)

- Note 1: If your site has more than one land application field, please submit a separate form for each field.
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 Note 3: If you operate other registered/permitted sludge land application sites, a form should be submitted for each site.
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For TCEQ Quarter 1st Reporting Period from 2013 To 2014
 PERMIT NO.: 04462 DATE: December 15, 2013
 NAME OF PERMITEE: TRS Enviroganics
 MAILING ADDRESS: PO Box 73006
Houston, TX 77273-3006
 CONTACT NAME: Todd Shearin TELEPHONE NO.: (336) 266-9134

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

1. Class B Sewage Sludge -Land Applied: 50.11 dry tons/quarter
2. Treated Domestic Septage- Land Applied: 0.00 gallons/quarter
 Method used to treat Domestic Septage N/A
3. Water Treatment Plant Sludge- Land Applied: 0.0 dry tons/quarter
4. Class A Sludge- Land Applied: 0.00 dry tons/quarter
 - a. Acreage used for Sludge Application/disposal at this site: _____ acres
 - b. Site Vegetation (such as grass type etc) and # of cuttings: Bermuda-hay cutting & heavy grazing
 - c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43(b)" Yes _____ No X
 - d. Site Location Latitude: 30 Deg 04 Min Longitude: 96 Deg 05 Min
 - e. Site physical address: 4.8 miles west of the intersection of Hwy 290 & Hwy 6

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

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

Permit
WQ 004462

Regulated Entity:
Customer:
Physical Location:

RN103015509
CN603212135

Look Ranch
TRS ENVIROGANICS
4.8 mi. W of intx of Hwy 290 and Hwy 6

Sludge Delivery Dates

9/2/13	9/27/13	11/14/13
9/4/13	9/27/13	11/14/13
9/4/13	9/27/13	11/15/13
9/5/13	9/30/13	11/15/13
9/5/13	10/4/13	11/15/13
9/6/13	10/7/13	11/18/13
9/9/13	10/8/13	11/18/13
9/9/13	10/8/13	11/18/13
9/11/13	10/9/13	11/20/13
9/11/13	10/9/13	11/21/13
9/11/13	10/10/13	11/22/13
9/12/13	10/11/13	
9/12/13	10/11/13	
9/13/13	10/11/13	
9/13/13	10/11/13	
9/13/13	10/18/13	
9/16/13	10/21/13	
9/16/13	10/21/13	
9/17/13	10/25/13	
9/17/13	10/25/13	
9/17/13	10/25/13	
9/17/13	10/25/13	
9/18/13	10/25/13	
9/18/13	10/25/13	
9/18/13	11/4/13	
9/18/13	11/4/13	
9/18/13	11/4/13	
9/18/13	11/4/13	
9/19/13	11/5/13	
9/19/13	11/7/13	
9/19/13	11/8/13	
9/20/13	11/8/13	
9/20/13	11/8/13	
9/23/13	11/8/13	
9/23/13	11/11/13	
9/23/13	11/11/13	
9/24/13	11/11/13	
9/24/13	11/12/13	
9/25/13	11/12/13	
9/25/13	11/12/13	
9/25/13	11/13/13	
9/26/13	11/13/13	
9/27/13	11/13/13	

Sludge Application Information
1st Quarter Sept - Oct - Nov 2013

LOOK
4462

Date	WWTP Name	Field	Dry Tons	Path A	Path B	Vector	Limit 1	Limit 3
9/2/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/4/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/4/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/5/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/5/13	NOTTINGHAM COUNTRY MUD WWTP	E	2.70	N	Y	Y	N	N
9/6/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/9/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/9/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/11/13	COPPERFIELD-HC MUD 208 WWTP	E	4.69	N	Y	Y	N	N
9/11/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/11/13	LAKE FOREST REGIONAL WWTP	E	3.47	N	Y	Y	N	N
9/12/13	MILLS ROAD MUD WWTP	E	2.12	N	Y	Y	N	N
9/12/13	LAKE FOREST REGIONAL WWTP	E	6.93	N	Y	Y	N	N
9/13/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/13/13	NOTTINGHAM COUNTRY MUD WWTP	E	2.70	N	Y	Y	N	N
9/13/13	LAKE FOREST REGIONAL WWTP	E	3.47	N	Y	Y	N	N
9/16/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/16/13	HASTINGS GREEN WWTP	E	7.20	N	Y	Y	N	N
9/17/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/17/13	HASTINGS GREEN WWTP	E	7.20	N	Y	Y	N	N
9/17/13	PORTER MUD WWTP	E	2.97	N	Y	Y	N	N
9/17/13	CINCO RANCH REGIONAL WWTP	E	14.63	N	Y	Y	N	N
9/18/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/18/13	HASTINGS GREEN WWTP	E	7.20	N	Y	Y	N	N
9/18/13	SAN JACINTO RIVER AUTH. III	E	6.41	N	Y	Y	N	N
9/18/13	HARRIS COUNTY WCID NO 133 WWTP	E	8.81	N	Y	Y	N	N
9/18/13	CINCO RANCH REGIONAL WWTP	E	3.66	N	Y	Y	N	N
9/18/13	MAYDE CREEK WWTP	E	6.51	N	Y	Y	N	N
9/19/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/19/13	HASTINGS GREEN WWTP	E	7.20	N	Y	Y	N	N
9/19/13	MAYDE CREEK WWTP	E	6.51	N	Y	Y	N	N
9/20/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/20/13	PORTER MUD WWTP	E	2.97	N	Y	Y	N	N
9/23/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/23/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/23/13	JACKRABBIT ROAD PUD WWTP	E	3.22	N	Y	Y	N	N
9/24/13	JACKRABBIT ROAD PUD WWTP	E	6.43	N	Y	Y	N	N
9/24/13	JACKRABBIT ROAD PUD WWTP	E	1.07	N	Y	Y	N	N
9/25/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/25/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
9/25/13	HASTINGS GREEN WWTP	E	2.40	N	Y	Y	N	N
9/26/13	PORTER MUD WWTP	E	2.97	N	Y	Y	N	N
9/27/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
9/27/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N

Sludge Application Information
1st Quarter Sept - Oct - Nov 2013

LOOK
4462

Date	WWTP Name	Field	Dry Tons	Path A	Path B	Vector	Limit 1	Limit 3
9/27/13	NOTTINGHAM COUNTRY MUD WWTP	E	2.70	N	Y	Y	N	N
9/27/13	MILLS ROAD MUD WWTP	E	2.12	N	Y	Y	N	N
9/30/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
10/4/13	BAMMEL UTILITY DISTRICT WWTP	E	2.58	N	Y	Y	N	N
10/7/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
10/8/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
10/8/13	CITY OF KATY WWTP	E	2.72	N	Y	Y	N	N
10/9/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
10/9/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
10/10/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
10/11/13	COPPERFIELD-HC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
10/11/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
10/11/13	CITY OF KATY WWTP	E	1.36	N	Y	Y	N	N
10/11/13	PORTER MUD WWTP	E	2.97	N	Y	Y	N	N
10/18/13	COPPERFIELD-I-IC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
10/21/13	BAMMEL UTILITY DISTRICT WWTP	E	2.58	N	Y	Y	N	N
10/21/13	PRESTONWOOD MUD WWTP	E	2.19	N	Y	Y	N	N
10/25/13	COPPERFIELD-I-IC MUD 208 WWTP	E	2.34	N	Y	Y	N	N
10/25/13	JACKRABBIT ROAD PUD WWTP	E	2.39	N	Y	Y	N	N
10/25/13	BAMMEL UTILITY DISTRICT WWTP	E	2.58	N	Y	Y	N	N
10/25/13	NOTTINGHAM COUNTRY MUD WWTP	E	2.70	N	Y	Y	N	N
10/25/13	PRESTONWOOD MUD WWTP	E	2.19	N	Y	Y	N	N
10/25/13	MILLS ROAD MUD WWTP	E	2.12	N	Y	Y	N	N
11/4/13	JACKRABBIT ROAD PUD WWTP	E	2.28	N	Y	Y	N	N
11/4/13	BAMMEL UTILITY DISTRICT WWTP	J	2.58	N	Y	Y	N	N
11/4/13	COPPERFIELD-I-IC MUD 208 WWTP	J	2.71	N	Y	Y	N	N
11/4/13	PRESTONWOOD MUD WWTP	J	2.19	N	Y	Y	N	N
11/5/13	PRESTONWOOD MUD WWTP	J	2.19	N	Y	Y	N	N
11/7/13	COPPERFIELD-I-IC MUD 208 WWTP	J	2.71	N	Y	Y	N	N
11/8/13	COPPERFIELD-I-IC MUD 208 WWTP	J	2.71	N	Y	Y	N	N
11/8/13	JACKRABBIT ROAD PUD WWTP	J	2.28	N	Y	Y	N	N
11/8/13	MILLS ROAD MUD WWTP	J	2.12	N	Y	Y	N	N
11/8/13	NOTTINGHAM COUNTRY MUD WWTP	J	2.70	N	Y	Y	N	N
11/11/13	BAMMEL UTILITY DISTRICT WWTP	J	2.58	N	Y	Y	N	N
11/11/13	PRESTONWOOD MUD WWTP	J	2.19	N	Y	Y	N	N
11/11/13	HASTINGS GREEN WWTP	J	4.80	N	Y	Y	N	N
11/12/13	CITY OF KATY WWTP	J	1.36	N	Y	Y	N	N
11/12/13	COPPERFIELD-I-IC MUD 208 WWTP	J	2.71	N	Y	Y	N	N
11/12/13	HASTINGS GREEN WWTP	J	7.20	N	Y	Y	N	N
11/13/13	CITY OF KATY WWTP	B	0.45	N	Y	Y	N	N
11/13/13	JACKRABBIT ROAD PUD WWTP	J	2.28	N	Y	Y	N	N
11/13/13	HASTINGS GREEN WWTP	J	4.80	N	Y	Y	N	N
11/14/13	COPPERFIELD-I-IC MUD 208 WWTP	B	2.71	N	Y	Y	N	N
11/14/13	HASTINGS GREEN WWTP	B	7.20	N	Y	Y	N	N

Sludge Application Information
1st Quarter Sept - Oct - Nov 2013

LOOK
4462

Date	WWTP Name	Field	Dry Tons	Path A	Path B	Vector	Limit 1	Limit 3
11/15/13	BAMMEL UTILITY DISTRICT WWTP	B	2.58	N	Y	Y	N	N
11/15/13	PRESTONWOOD MUD WWTP	B	2.19	N	Y	Y	N	N
11/15/13	HASTINGS GREEN WWTP	B	4.80	N	Y	Y	N	N
11/18/13	COPPERFIELD-I-IC MUD 208 WWTP	B	2.71	N	Y	Y	N	N
11/18/13	JACKRABBIT ROAD PUD WWTP	B	2.28	N	Y	Y	N	N
11/18/13	HASTINGS GREEN WWTP	B	2.40	N	Y	Y	N	N
11/20/13	PORTER MUD WWTP	B	2.97	N	Y	Y	N	N
11/21/13	JACKRABBIT ROAD PUD WWTP	B	2.28	N	Y	Y	N	N
11/22/13	PRESTONWOOD MUD WWTP	B	2.19	N	Y	Y	N	N

SLUDGE APPLIER'S CERTIFICATION

I certify, under penalty of law, that the requirements to obtain information in 30 TAC Section 312.42(e) have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain information have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

I certify, under penalty of law, that the site restrictions in Section 312.82(b)(3) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the site restrictions have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

VECTOR ATTRACTION REDUCTION CERTIFICATE

I certify, under penalty of law, that the vector attraction reduction requirement in Section 312.83(b) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

CUMUATIVE LOADING CERTIFICATE

I certify, under penalty of law, that the management practices in 30 TAC Section 312.44 have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Signature:



Printed Name:

Todd Shearin

Title:

Director, Municipal Environmental Services

Site # 04462

Field B

Suggested Agronomic rate 12

Metal	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
Cumulative Metals	0.0806	0.0641	0.3084	4.2483	0.1363	0.0128	0.1510	0.2338	0.1140	10.3501

Site # 04462

Field E

Suggested Agronomic rate 12

Metal	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
Cumulative Metals	0.0325	0.0220	0.1059	1.4862	0.0616	0.0028	0.0532	0.0876	0.0354	3.3516

Site # 04462

Field J

Suggested Agronomic rate 12

Metal	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
Cumulative Metals	0.4956	0.5165	6.0859	42.3209	3.7706	1.9185	0.9951	2.1631	7.2877	74.5553



EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089
Coldspring, Texas 77331

(936) 653-3249 (800) 525-0508
www.eastexlabs.com eastexlab@eastex.net



Bammel UD
Water District Management
P.O. Box 579
Spring, TX 77383

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Bammel Dig

Collect Date:	7/25/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	12:40 PM
Sample Number:	C1335857-01	Collector:	CAG

Test	*	Result	Units	Tech	Date	Time	Method
Percent Solid	A	1.80	%	WGW	7/26/2013	3:15:00 P	SM 2540G
Vector	N	0.56	mg O2/hr/g	SDS	7/25/2013	5:43:00 P	TAC 312.83(b)(4)

40 CFR 503 Criterion for Fecal Colliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

*Fecal Colliform result is a geometric mean of seven individual samples.

Pam P. Hickman, Laboratory Manager

*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.

The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.



EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089
Coldspring, Texas 77331

(936) 653-3249 (800) 525-0508
www.eastexlabs.com eastexlab@eastex.net



Bammel UD
Water District Management
P.O. Box 579
Spring, TX 77383

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Bammel Dig

Collect Date:	7/8/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	11:25 AM
Sample Number:	C1332761-01	Collector:	SRA

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	49822	MPN/gram	LDP	7/8/2013	2:25:00 PM	Colilert 18
Percent Solid	A	2.10	%	CEW	7/11/2013	2:00:00 P	SM 2540G
Vector	N	2.88	mg O2/hr/g	CEW	7/8/2013	3:30:00 PM	TAC 312.83(b)(4)
Volatile Percent Solid	A	76.8	%	CEW	7/12/2013	11:00:00 A	SM 2540G

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

*Fecal Coliform result is a geometric mean of seven individual samples.

Pam P. Hickman, Laboratory Manager

*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to our analyses.

The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.

ENVIRODYNE LABORATORIES, INC.
11011 BROOKLET Dr. #230
HOUSTON, TEXAS 77099
(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: CINCO REGIONAL
(SI Environmental)
DATE COLLECTE 13-Dec-12
DATE COMPLETE 18-Dec-12
LAB NUMBER: AD58982B
DATE RECEIVED: 13-Dec-12
SAMPLED BY: MB

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER @ 1500	LIMITS
PARAMETERS:		
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	15,900	2,000,000 CFU/g/TS
Vector Attraction Pontential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.12	1.5 mgO2/gram/Hr.
Sludge Characteristics		
Total Solids (%)	2.34	N/A
Volatile Solids (%)	1.16	N/A
Organic Conc. (%)	49.6	
Soil pH - Measured in Water (Units)	6.90	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS <2.0%


CERTIFIED BY

Ref. STANDARD METHODS 21st Ed. & *EPA SW-846
9222D - F. COLI 2540G - TS & VS
2710B - SOUR *9045 - pH

ENVIRODYNE LABORATORIES, INC.
11011 BROOKLET Dr. #230
HOUSTON, TEXAS 77099
(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: COPPERFIELD	LAB NUMBER: AD62753B
DATE COLLECTED: 03-Jan-13	DATE RECEIVED: 03-Jan-13
DATE COMPLETED: 21-Jan-13	SAMPLED BY: PM

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	CAKE GRAB @ 1220	LIMITS
PARAMETERS:		
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	4,549	2,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	0.20	1.5 mgO ₂ /gram/Hr.
Sludge Characteristics		
Total Solids (%)	13.48	N/A
Volatile Solids (%)	8.30	N/A
Organic Conc. (%)	61.6	
Soil pH - Measured in Water (Units)	7.27	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR DILUTED TO TS <2%



 CERTIFIED BY

Ref. STANDARD METHODS 18th Ed. & *EPA SW-846
 9222D - F. COLI 2540G - TS & VS
 2710B - SOUR *9045 - pH

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(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: HASTING GREEN WWTP LAB NUMBER: 13B0004B
(HCFWSD #61)
DATE COLLECTE 01-Feb-13 DATE RECEIVED: 01-Feb-13
DATE COMPLETE 13-Mar-13 SAMPLED BY: MB

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
PARAMETERS:	@ 1134	
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	1,500	1,000,000 CFU/g/TS
Vector Attraction Pontential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.39	1.5 mgO ₂ /gram/Hr.
Sludge Characteristics		
Total Solids (%)	1.20	N/A
Volatile Solids (%)	0.60	N/A
Organic Conc. (%)	50.0	
Soil pH - Measured in Water (Units)	6.80	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS <2.0%


CERTIFIED BY

Ref. STANDARD METHODS 21st Ed. & *EPA SW-846
9222D - F. COLI 2540G - TS & VS
2710B - SOUR *9045 - pH

ENVIRODYNE LABORATORIES, INC.
11011 BROOKLET Dr. #230
HOUSTON, TEXAS 77099
(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: HCWCID #133 LAB NUMBER: 13F0938B
DATE COLLECTED: 11-Jun-13 DATE RECEIVED: 11-Jun-13
DATE COMPLETED: 18-Jun-13 SAMPLED BY: WP

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
PARAMETERS:	@ 1415	
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo. Mean = 7)	8,600	2,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.12	1.5 mgO ₂ /gram/Hr.
Sludge Characteristics		
Total Solids (%)	1.68	N/A
Volatile Solids (%)	1.04	N/A
Organic Conc. (%)	61.9	
Soil pH - Measured in Water (Units)	6.81	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS <2.0%

Ref. STANDARD METHODS 21st Ed. & *EPA SW-846
9222D - F, COLI 2540G - TS & VS
2710B - SOUR *9045 - pH


CERTIFIED BY

**ENVIRODYNE LABORATORIES, INC.
11011 BROOKLET Dr. #230
HOUSTON, TEXAS 77099
(281) 568-7880.**

CERTIFICATE OF ANALYSIS

CLIENT: JACKRABBIT PUD	LAB NUMBER: 13D0344B
DATE COLLEC⁰ 03-Apr-13	DATE RECEIVED: 03-Apr-13
DATE COMPLE 20-Apr-13	SAMPLED BY: MB

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	Digester	LIMITS
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PARAMETERS:

Microbial Populations

Fecal Coliform (Colonies/gram) (Geo Mean = 7)	5,700	000,000 CFU/g/l
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Vector Attraction Pontential

Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	0.63	1.5 mgO2/gram/
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Sludge Characteristics

Total Solids (%)	1.40	N/A
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Volatile Solids (%)	0.81	N/A
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Organic Conc. (%)	58.5	
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Soil pH - Measured in Water (Units)	6.11	> 5.50
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SOUR diluted to TS < 2.0%



CERTIFIED BY

**Ref. STANDARD METHODS 18th Ed. & *EPA SW-846
9222D - F. COLI/540G - TS & VS
2710B - SOUR *9045 - pH**



Chaparral Laboratories, Inc.



T104704204

861 State Hwy 19 P.O. Box 1622 Huntsville, TX 77342-1622 www.chaparrallabs.com Phone: 936-291-1881 Fax: 936-295-1731

Certificate of Analysis

City of Katy
Attn: Eddie Pierce
P.O. Box 617
Katy, TX 77492

Customer ID: CKATY
Sample ID: 13090155
Date Received: 09/05/2013
Date Reported: 10/02/2013

Project: City of Katy WWTP
Location: Fort Bend County, TX

Analytical Results

Collection Point: Digester 4B

Date/Time Collected: 09/05/2013 08:50

Sample Type: Grab

Collector: CRH

Parameter	Result	Units	Date/Time	Analyst	Bottle	Method	QC ID	Acrd
Ammonia Nitrogen	<0.002	%	09/10/2013 10:06	JCG	-01	EPA 350.2	QC1309129	NELAC
Cadmium	<2.0	mg/kg	09/24/2013 13:03	TLP	-01	EPA 7000 B	QC1309347	NELAC
Chromium	<20.0	mg/kg	09/24/2013 14:20	TLP	-01	EPA 7000 B	QC1309348	NELAC
Copper	357.4	mg/kg	09/24/2013 10:36	TLP	-01	EPA 7000 B	QC1309342	NELAC
Lead	23.8	mg/kg	09/24/2013 15:33	TLP	-01	EPA 7000 B	QC1309346	NELAC
Mercury	0.68	mg/kg	09/13/2013 15:38	TLP	-01	EPA 7471 A	QC1309225	NELAC
Nickel	12.7	mg/kg	09/24/2013 12:27	TLP	-01	EPA 7000 B	QC1309343	NELAC
Nitrate Nitrogen	0.22	%	09/16/2013 08:50	TLP	-01	EPA 353.2	QC1309331	NELAC
Oxygen Uptake Rate	0.27	mg/g/h	09/06/2013 11:09	JWH	-01	SM 2710 B	QC1309126	
Total Kjeldahl Nitrogen	4.02	%	09/10/2013 07:18	JCG	-01	SM/4500-NH3 C	QC1309284	
Total Phosphorus	1.58	%	09/23/2013 07:03	JCG	-01	EPA 365.2	QC1309329	NELAC
Total Potassium	0.29	%	09/24/2013 15:37	TLP	-01	EPA 7000 B	QC1309345	NELAC
Total Solids	1.7	%	09/06/2013 16:19	TLP	-01	SM 2540 G	QC1309120	NELAC
Zinc	841.9	mg/kg	09/24/2013 16:08	TLP	-01	EPA 7000 B	QC1309349	NELAC
Arsenic	5.3	mg/kg	09/20/2013 16:08	SA	-02	EPA 6010	QC1309388	NELAC
Molybdenum	8.7	mg/kg	09/20/2013 16:08	SA	-02	EPA 6010	QC1309389	NELAC
Selenium	8.7	mg/kg	09/20/2013 16:08	SA	-02	EPA 6010	QC1309390	NELAC
7 Pt Fecal Geometric Mean	654327	CFU/g/TS	09/07/2013 09:15	JCG	-03	Calculation	QC1309146	
Fecal Coliform	591281	CFU/g/TS	09/06/2013 08:00	TLP	-03	SM 9222 D	QC1309145	NELAC
Fecal Coliform	663905	CFU/g/TS	09/06/2013 08:00	TLP	-04	SM 9222 D	QC1309145	NELAC
Fecal Coliform	685534	CFU/g/TS	09/06/2013 08:00	TLP	-05	SM 9222 D	QC1309145	NELAC
Fecal Coliform	768996	CFU/g/TS	09/06/2013 08:00	TLP	-06	SM 9222 D	QC1309145	NELAC
Fecal Coliform	618294	CFU/g/TS	09/06/2013 08:00	TLP	-07	SM 9222 D	QC1309145	NELAC
Fecal Coliform	633513	CFU/g/TS	09/06/2013 08:00	TLP	-08	SM 9222 D	QC1309145	NELAC
Fecal Coliform	633525	CFU/g/TS	09/06/2013 08:00	TLP	-09	SM 9222 D	QC1309145	NELAC
TCLP	See Pace Report			SA	-10	N/A	QC1310009	NELAC
PCB	See Pace Report			SA	-10	N/A	QC1310010	NELAC

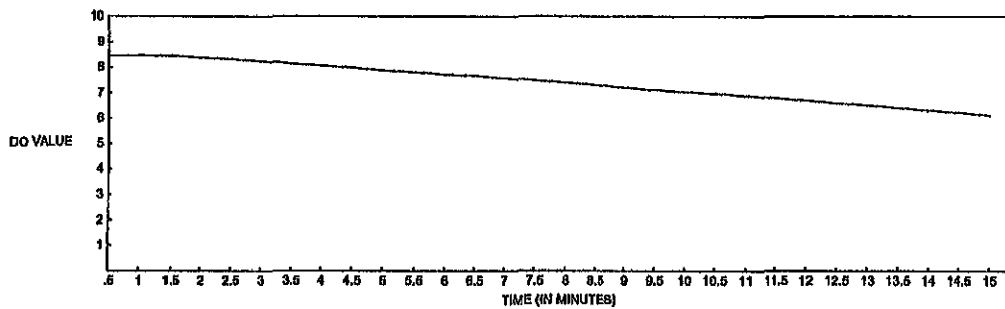
Date Entered in EATS:

Cert List Updated on:

10/8/13

Analysis performed on sludge sample received on 11/05/2012 11:40 collected by Kenneth Elliot from the Digester at 11/05/2012 06:05

PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME	
Fecal Coliform	Sample ID: 10848604	82,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform	Sample ID: 10848605	82,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform	Sample ID: 10848606	79,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform	Sample ID: 10848607	85,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform	Sample ID: 10848608	80,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform	Sample ID: 10848609	81,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform	Sample ID: 10848610	84,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform	Geometric Mean	8.2E+04	82,000	CFU/g TS		
Total Solids	Sample ID: 10848602	1.4	%	SM 2540 G	OD	11/05/2012 16:23
S.O.U.R. Test	Sample ID: 10848602	0.77	mg O2/hr/g TS	SM 2710 B	OD	11/05/2012 03:09



The total solids is diluted to <= 2.0% for the S.O.U.R. test when necessary.

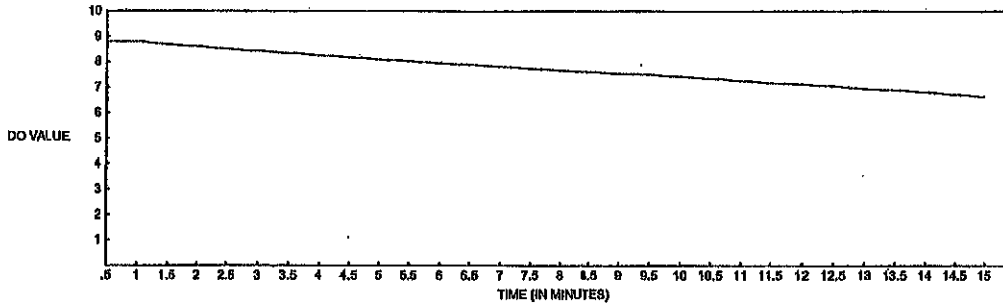
CLASS B - PASS

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

Derek McCoy
Derek McCoy
Technical Director

Analysis performed on sludge sample received on collected by Angel Rodriguez from the Digester at 02/05/2013 09:25

PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform Sample ID: 10884075	66,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Coliform Sample ID: 10884076	79,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Coliform Sample ID: 10884077	72,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Coliform Sample ID: 10884078	73,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Coliform Sample ID: 10884079	66,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Coliform Sample ID: 10884080	72,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Coliform Sample ID: 10884081	75,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Coliform Geometric Mean	7.2E+04	72,000	CFU/g TS		
Total Solids Sample ID: 10884072	1.3	%	SM 2540 G	OD	02/05/2013 16:50
S.O.U.R. Test Sample ID: 10884072	1.10	mg O2/hr/g TS	SM 2710 B	OD	02/03/2013 04:24



The total solids is diluted to <= 2.0% for the S.O.U.R. test when necessary.

CLASS B - PASS

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

Paul Canevaro
 Laboratory Director

FEB 10 2013

AW



EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089
Coldspring, Texas 77331

(936) 653-3249 (800) 525-0508

www.eastexlabs.com eastexlab@eastex.net



Mills Road
Water District Management
P.O. Box 579
Spring, TX 77383

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Mills Rd Digester

Collect Date:	6/13/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	1:50 PM
Sample Number:	C1328698-01	Collector:	CAG

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	93127	MPN/gram	SDS	6/13/2013	6:50:00 P	Collert 18
Percent Solid	A	2.00	%	WGW	6/14/2013	1:35:00 P	SM 2540G
Vector	N	0.82	mg O2/hr/g	SDS	6/13/2013	7:44:00 P	TAC 312.83(b)(4)
Volatile Percent Solid	A	67.2	%	WGW	6/17/2013	9:50:00 A	SM 2540G

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

*Fecal Coliform result is a geometric mean of seven individual samples.

Pam P. Hickman, Laboratory Manager

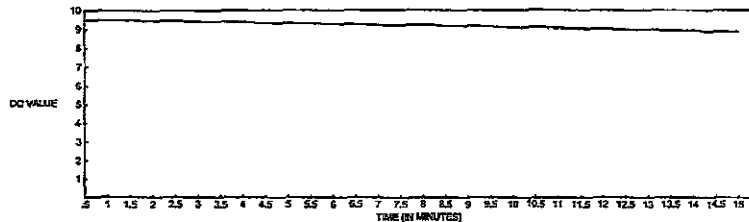
*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.

The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.

Analysis performed on sludge sample received on 01/07/2013 12:00 collected by Angel Rodriguez from the Digester at 01/07/2013 09:40

PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform Sample ID: 10870597	48,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform Sample ID: 10870598	93,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform Sample ID: 10870599	45,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform Sample ID: 10870600	100,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform Sample ID: 10870601	52,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform Sample ID: 10870602	48,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform Sample ID: 10870603	98,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform Geometric Mean	6.5E+04	65,000	CFU/g TS		
Total Solids Sample ID: 10870594	2.3	%	SM 2540 G	OD	01/08/2013 15:07
S.O.U.R. Test Sample ID: 10870594	0.30	mg O2/hr/g TS	SM 2710 B	OD	01/07/2013 01:24



The total solids is diluted to <= 2.0% for the S.O.U.R. test when necessary.

CLASS B - PASS

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

[Handwritten Signature]
 Derek McCoy
 Technical Director



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Porter MUD
P.O. Box 1030
Porter, TX 77365

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Porter Digester

Collect Date:	7/16/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	9:45 AM
Sample Number:	C1334582-02	Collector:	BMB

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	1433	MPN/gram	SDS	7/16/2013	5:26:00 P	Collert 18
Percent Solid	A	1.30	%	WGW	7/19/2013	2:50:00 P	SM 2540G
Vector	N	0.11	mg O2/hr/g	SDS	7/16/2013	6:25:00 P	TAC 312.83(b)(4)
Volatile Percent Solid	A	73.6	%	WGW	7/22/2013	9:40:00 A	SM 2540G

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g
40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

*Fecal Coliform result is a geometric mean of seven individual samples.

Pam P. Hickman, Laboratory Manager

*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.

The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.



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Coldspring, Texas 77331

(936) 653-3249 (800) 525-0508
www.eastexlabs.com eastexlab@eastex.net



Prestonwood
Water District Management
P.O. Box 579
Spring, TX 77383

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Prestonwood Digester

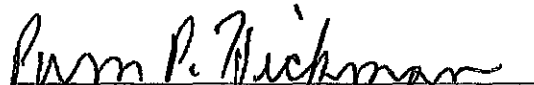
Collect Date:	8/13/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	8:30 AM
Sample Number:	C1338895-01	Collector:	SRA

Test	*	Result	Units	Tech	Date	Time	Method
Percent Solid	A	1.70	%	ANP	8/14/2013	9:55:00 A	SM 2540G
Vector	N	0.69	mg O2/hr/g	SDS	8/13/2013	6:15:00 P	TAC 312.83(b)(4)

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

*Fecal Coliform result is a geometric mean of seven individual samples.


Pam P. Hickman, Laboratory Manager

*NELAC Status:A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses. The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.



EASTEX ENVIRONMENTAL LABORATORY, INC.

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Coldspring, Texas 77331

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www.eastexlabs.com eastexlab@eastex.net



San Jacinto River Authority WWTP 3
WWTP #3
P.O. Box 7537
The Woodlands, TX 77387

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: SJRA #3 Digester

Collect Date:	5/7/2013	SampleType:	Grab
Site:	Digester	Collect Time:	7:15 AM
Sample Number:	C1322226-01	Collector:	KH

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	16227	MPN/gram	SDS	5/7/2013	1:54:00 PM	Collert 18
Percent Solid	A	1.90	%	LAB	5/10/2013	9:40:00 A	SM 2540G
Vector	N	0.24	mg O2/hr/g	SDS	5/7/2013	1:40:00 PM	TAC 312.83(b)(4)
Volatile Percent Solid	A	75.7	%	LAB	5/14/2013	9:00:00 A	SM 2540G

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

*Fecal Coliform result is a geometric mean of seven individual samples.


Pam P. Hickman, Laboratory Manager

*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.

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