

TCEQ

Attachment D

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 have more than one permitted site, then fill-out this form for each one of those sites.
 Note 4: Please send a copy of this sheet and all attachments to the local TCEQ regional office.

For TCEQ Quarter <u>2</u> Reporting period from <u>12-1-2013</u> , <u>2-28-2014</u>	
PERMIT NO.: <u>WQ 000445000</u>	DATE: <u>3-3-2014</u>
NAME OF PERMITTEE: <u>K-3 RESOURCES LP</u>	
MAILING ADDRESS: <u>PO Box 2236, Alvin, TX, 77512</u>	
CONTACT PERSON: Name: <u>Charles E. Pehl</u> Telephone No: <u>281-585-2817</u>	

Field No: _____ (Submit separate form for each field. If site has two or more fields)

- Class B Sewage Sludge Land Applied : 371.60 dry tons / quarter
 - Treated Domestic Septage - Land Applied : 0.00 gallons / quarter
 - Method used to treat Domestic Septage: NA
 - Water Treatment Plant Sludge - Land Applied: 0.00 dry tons / quarter
 - Class A sludge land applied : 0.00 dry tons / quarter
- a. Acreage used for Sludge Application/disposal at this site: 156.93 acres
- b. Site Vegetation (such as grass type etc) and # of cuttings: Bermuda and Native 8 tons/acre
- 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 ✓
- d. Site location: Latitude: N 29° 55' 02", Longitude: W 95° 59' 07"
- e. Site physical address: Northside of SH 529, Waller County, Texas

Please attach the information regarding the following items (Sewage Sludge only):-

- * Please note the following information shall be provided in computer generated report format:
 * Please place check mark before each item below to indicate you have attached that item with 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 REPORT TO :

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

**Facilities Approved
by TCEQ for
Land Application**

Date: 11/30/2013

Facility Name	Permit Number	Approval Date
BMI Lime Stabilization Facility	4364	3/3/2004
BMI Lime Stabilization Facility	4538	7/26/2004
Addicks	11696-002	2/4/2003
Aldine Jr High	12072-001	2/4/2003
Arcola, City of	13362-001	1/26/2006
Bacliff	10627-001	2/4/2003
Bay View, City of	10770-001	8/22/2012
Bellville, City of	10385-002	3/3/2004
BC1	12332-001	2/4/2003
BC 31	14546-001	12/2/2011
Bernard Timbers WSC	12097-001	7/26/2004
Bilma	12025-001	1/26/2006
Blue Ridge	11553-001	2/4/2003
Carby MHP	14217-001	1/12/2005
Castlewood	11883-001	2/4/2003
Chelford City	14418-001	7/24/2013
Cinco Central	13558-001	2/4/2003
Cinco South	13172-002	2/4/2003
Cinco Southwest	14343-001	12/2/2011
Copperfield	11947-001	2/4/2003
Crosby	11388-001	2/4/2003
Cy-Klein	11366-001	3/3/2004
Durkee Manor	10419-001	3/3/2004
Dynamics Products	11841-001	10/21/2005
Emerson EST	14285-001	12/10/2004
Fairgreen	11791-001	2/4/2003
Fondren (HC WCID) Road	10570-001	2/4/2003
Fort Bend 25	12003-001	4/29/2003
Fort Bend 26	12073-001	3/3/2004
Fort Bend 30	12068-001	3/08/2012
Fort Bend 37	12370-001	2/4/2003
Fort Bend 81	13051-002	2/4/2003
Fort Bend 106	12356-001	2/4/2003
Fort Bend 116	13976-001	2/4/2003
Fort Bend 142	14408-001	3/29/2007
Fry Road	11989-001	10/21/2005
Grantham	12070-002	2/4/2003
Greentrails	12289-001	2/4/2003
Harris County Detention Center (HCDC)	13561-001	11/7/2006
Harris County Juvenile Boot Camp (HCBC)	13921-001	12/10/2004
HC/FB 1	12805-001	2/4/2003
HC 8	11727-001	4/29/2013
HCFWSD 6	10184-001	3/3/2004
HC FWSD 58	11941-001	2/4/2003
HC WCID 109	11026-002	2/4/2003
HC 24	11988-001	2/4/2003
HC 26	11406-001	2/4/2003
HC 58	11941-001	3/3/2004
HC 70	11486-001	1/12/2005
HC 71	11947-001	5/15/2013
HC 82	11799-001	3/3/2004

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Facility Name	Permit Number	Approval Date
HC 89	12939-001	4/29/2003
HC WCID 92	10908-001	5/15/2013
HC 104	11925-001	9/5/2012
HC 105	11792-002	4/29/2003
HC 122	12250-001	4/26/2004
HC 130	12574-001	11/14/2013
HC 155	12726-001	2/4/2003
HC 185	12124-001	12/2/2011
HC 196	12447-001	2/4/2003
HC 200	12294-001	3/3/2004
HC 238	12802-001	2/4/2003
HC 249	13765-001	2/4/2003
HC 284	12949-001	2/4/2003
HC 345	12356-001	12/2/2011
HC 358	13290-002	5/15/2013
HC 365	13881-001	4/18/2013
HC 368	12044-001	3/3/2004
HC 374	14354-001	4/10/2013
HC 391	14327-001	12/2/2011
HC 405	14448-001	6/6/2013
HC 432	14589-001	11/14/2013
HC 408	14606-001	6/6/2013
Heather Glen	11231-001	2/4/2003
High Meadow	10812-001	2/4/2003
Hillman Schrimp	03719-001	2/4/2003
Holiday Inn Airport	14066-001	2/4/2003
Horsebend Bayou	12128-001	3/15/2011
Hunter's Glen	11618-001	2/4/2003
Inverness Forest	10783-001	2/4/2003
Katy, City of	10706-001	4/29/2003
Langham Creek	11682-001	12/13/2005
Manford Williams Elementary 8	13007-001	4/29/2003
Mayde Creek	11969-001	3/3/2004
Meadow Hill	11215-001	3/3/2004
Meadow Place	11039-001	10/15/2012
MC UD 2	11271-001	5/3/2013
MC 15	11395-001	2/4/2003
MC 24	14116-001	11/14/2013
MC 56	13760-001	12/2/2011
MC 112	14671001	3/15/2011
MC-Woodland Oaks	14166-001	5/3/2013
Missouri City	13873-001	2/4/2003
New Ulm	13655-001	2/7/2007
Northforest	10905-001	2/4/2003
Northampton	10910-001	12/10/2004
Northline	10518-001	2/4/2003
North Mission Glen	12379-001	1/15/2013
North Park	11855-001	2/4/2003
NWHC 9	14030-001	2/4/2003
NWHC 10	11912-002	2/4/2003
NWHC 15	11939-001	3/3/2004
NWHC 20	13625-001	3/3/2004

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Land Application**

Facility Name	Permit Number	Approval Date
NWHC 21-23	12144-001	3/3/2004
NWHC 24	13760-001	11/14/2013
NWHC 36	13573-001	12/2/2011
Oakwilde	10236-001	3/3/2004
Orange Grove	12070-004	2/4/2003
Palmer Plantation	12937-001	3/3/2004
Pearland, City of	21484-001	3/3/2004
Pecan Grove Plantation	11655-001	3/3/2005
Plantation Crossing	11971-001	1/12/2005
Plantation Crossing	14490-001	12/2/2011
Ponderosa, Joint Powers	11081-001	2/4/2003
Rayford Road	12030-001	2/4/2003
Remington	11328-001	4/29/2005
Richmond, City of	10258-003	3/15/2011
River Oaks MHP	12692-001	12/10/2004
Riverside MHP(Glen Oaks)	12296-001	11/7/2006
Rosenberg, City of	10607-003	3/20/2013
Sealy, City of	10276-001	3/15/2011
Sienna Plantation	14100-001	3/15/2011
Southern Montgomery County	11001-01	7/26/2005
SWHC 1	12641-001	2/4/2003
Spring Creek	11574-001	2/4/2003
Spring Cypress	13711-001	2/4/2003
Sugarland, City of	12833-001	4/29/2005
Tiki Island	10879-001	2/4/2003
Timbercrest	13487-001	3/3/2004
Timberlake	11267-001	3/8/2012
Timberlane	11142-002	1/26/2006
City of Tomball, North	101616-001	2/26/2013
City of Tomball, South	101616-002	2/26/2013
Varco Shaffer	3994	12/10/2004
Waller, City of	10310-001	9/13/2012
WHC 7	12140-001	12/2/2011
WHC 11	13689-001	2/4/2003
WHC 15	12233-001	12/10/2004
Westlake	11284-001	11/14/2013
West Memorial	11152-001	2/4/2003
Westmont MHP	12761-001	12/10/2004
West Park	12346-001	7/26/2004
Ann Louise Ed Complex (Alief ISD)Wilson	13609-001	2/4/2003
WHC 10 (Winchester)	10472-001	2/4/2003
Wild Peach Elementary (CBISD)	12103-001	Pending (7/25/13)
Williamsburg	11598-001	3/3/2004
Willow River Farms	13466-001	7/26/2004
Woodcreek	11933-001	2/4/2003
Woodland Oaks	11670-001	3/3/2004



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres	Land Use	Appl. Date
12/16/2013	08:30 PM	152360	Greentrails	6,500		1.10	0.298155	0.270427	1	44.85	Hay/Pasture	12/16/2013
12/19/2013	11:30 AM	152636	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	01:45 PM	152637	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	02:45 PM	152669	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	12:00 PM	152730	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	02:15 PM	152754	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	02:30 PM	152773	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	10:45 AM	152869	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	12:00 PM	152943	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/19/2013	03:15 PM	152944	HC 345	6,500		1.80	0.487890	0.442516	1	44.85	Hay/Pasture	12/19/2013
12/20/2013	03:45 PM	152672	Blue Ridge	6,500		2.00	0.542100	0.491685	1	44.85	Hay/Pasture	12/20/2013
12/20/2013	03:15 PM	152756	Blue Ridge	6,500		2.00	0.542100	0.491685	1	44.85	Hay/Pasture	12/20/2013
12/20/2013	02:30 PM	152871	Blue Ridge	6,500		2.00	0.542100	0.491685	1	44.85	Hay/Pasture	12/20/2013
12/30/2013	09:15 PM	153014	West Memorial		20	12.00	2.040000	1.850280	1	44.85	Hay/Pasture	12/30/2013
12/30/2013	04:00 PM	153074	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	12/30/2013
12/31/2013	06:15 AM	153075	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	12/31/2013
12/31/2013	07:45 AM	153076	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	12/31/2013
12/31/2013	11:15 AM	153077	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85	Hay/Pasture	12/31/2013
12/31/2013	07:15 AM	154666	HC WCID 92		20	15.10	2.567000	2.328269	1	44.85	Hay/Pasture	12/31/2013
12/31/2013	11:00 AM	154668	Langham Creek		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	12/31/2013
12/31/2013	01:00 PM	154669	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	12/31/2013
01/02/2014	11:25 AM	152272	HC 358 Fairfield		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	03:00 PM	152273	HC 358 Fairfield		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	05:50 PM	152274	HC 358 Fairfield		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	08:45 AM	152885	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	10:15 AM	152886	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	11:45 AM	152887	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	01:15 PM	152888	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	02:45 PM	152889	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	04:30 PM	152890	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	06:15 PM	152891	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	07:45 AM	152892	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres	Land Use	Appl Date
01/02/2014	04:15 PM	153019	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	11:00 AM	153032	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	12:30 PM	153033	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	04:15 AM	153078	Tomball North		20	10.90	1.853000	1.680671	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	05:30 AM	153079	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	02:00 PM	153080	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	07:40 PM	153099	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	02:15 PM	153163	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	03:45 PM	153164	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	05:45 PM	153165	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	05:00 PM	153381	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	08:30 AM	154608	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	10:00 AM	154609	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	11:30 AM	154610	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	12:45 PM	154611	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	02:15 PM	154612	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	03:30 PM	154613	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	05:15 PM	154614	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	05:30 AM	154670	Ponderosa JPA		20	14.90	2.533000	2.297431	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	09:30 AM	154671	HC MUD 200		20	12.50	2.125000	1.927375	1	44.85	Hay/Pasture	01/02/2014
01/02/2014	11:45 AM	154672	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/02/2014
01/03/2014	03:15 PM	152275	HC 358 Fairfield		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	08:45 AM	152893	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	10:15 AM	152894	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	10:45 AM	152895	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	01:15 PM	152896	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	02:45 PM	152897	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	04:00 PM	152898	Williamsburg	6,500		1.60	0.433680	0.393348	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	05:15 AM	153183	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	07:00 AM	153184	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	09:45 AM	153185	Sealy, City of		20	10.00	1.700000	1.541900	1	44.85	Hay/Pasture	01/03/2014
01/03/2014	04:00 PM	153187	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85	Hay/Pasture	01/03/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres Land Use	Appl. Date
01/03/2014	06:30 AM	154674	Ponderosa JPA		20	14.90	2.533000	2.297431	1	44.85 Hay/Pasture	01/03/2014
01/03/2014	08:45 AM	154675	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/03/2014
01/03/2014	11:30 AM	154676	FB 106		13	14.00	1.547000	1.403129	1	44.85 Hay/Pasture	01/03/2014
01/03/2014	01:45 PM	154677	FB 30		13	14.60	1.613300	1.463263	1	44.85 Hay/Pasture	01/03/2014
01/04/2014	05:00 AM	153188	Richmond Regional		20	14.20	2.414000	2.189498	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	07:00 AM	153189	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	10:45 AM	153191	Cinco Central		20	14.80	2.516000	2.282012	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	10:30 AM	153405	HC 358 Fairfield		20	14.00	2.380000	2.158660	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	12:30 PM	153481	HC 358 Fairfield		20	14.00	2.380000	2.158660	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	08:15 AM	154679	HC WCID 92		20	15.10	2.567000	2.328269	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	01:15 AM	154721	Pecan Grove		20	17.50	2.975000	2.698325	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	03:00 PM	154722	Langham Creek		13	14.00	1.547000	1.403129	1	44.85 Hay/Pasture	01/04/2014
01/04/2014	05:30 AM	154723	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/04/2014
01/06/2014	10:00 AM	153389	HC MUD 8		20	14.00	2.380000	2.158660	1	44.85 Hay/Pasture	01/06/2014
01/07/2014	08:45 PM	152277	FB MUD 34 (2)		20	14.00	2.380000	2.158660	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	11:15 AM	152966	W H C 7	6,500		1.38	0.374049	0.339262	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	01:00 PM	152967	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	02:30 PM	152968	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	04:00 PM	152969	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	05:30 PM	152970	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	12:00 PM	153141	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	01:45 PM	153142	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	03:15 PM	153143	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	05:00 PM	153144	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	06:30 PM	153145	W H C 7	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	05:45 AM	153193	Richmond Regional		20	14.20	2.414000	2.189498	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	08:00 AM	153194	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	09:30 AM	153195	Cinco Central		20	14.80	2.516000	2.282012	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	11:30 AM	153196	Rosenberg (1-A)		20	16.50	2.805000	2.544135	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	08:00 AM	153271	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	10:00 AM	153272	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014
01/07/2014	12:00 PM	153273	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85 Hay/Pasture	01/07/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres	Land Use	Appl. Date
01/07/2014	02:00 PM	153274	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/07/2014
01/07/2014	01:00 PM	153390	FB MUD 34 (1)		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/07/2014
01/07/2014	07:45 AM	153486	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/07/2014
01/07/2014	09:45 AM	153487	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/07/2014
01/07/2014	11:45 AM	153488	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/07/2014
01/07/2014	01:30 PM	153489	Cinco Southwest	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/07/2014
01/07/2014	06:30 AM	154725	Ponderosa JPA		20	14.90	2.533000	2.297431	1	44.85	Hay/Pasture	01/07/2014
01/07/2014	10:00 AM	154726	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85	Hay/Pasture	01/07/2014
01/08/2014	10:30 AM	152278	FB MUD 34 (1)		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	03:55 PM	152279	FB MUD 34 (1)		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	08:45 AM	153160	FB MUD 34 (1)		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	05:15 AM	153198	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	10:00 AM	153200	Eagle Lake WWTP		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	12:00 PM	153321	Bellville, City of		20	21.70	3.689000	3.345923	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	11:30 AM	153391	Brookshire WWTP	6,500		2.60	0.704730	0.639190	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	01:15 PM	153392	Brookshire WWTP	6,500		2.60	0.704730	0.639190	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	07:45 AM	154729	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	10:00 AM	154730	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/08/2014
01/08/2014	12:45 PM	154731	FB 106		14	14.00	1.666000	1.511062	1	44.85	Hay/Pasture	01/08/2014
01/09/2014	08:00 AM	153151	HC MUD 8		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/09/2014
01/09/2014	03:45 PM	153323	Tomball North		20	10.90	1.853000	1.680671	1	44.85	Hay/Pasture	01/09/2014
01/09/2014	08:00 AM	153324	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/09/2014
01/09/2014	11:45 AM	153325	Rosenberg (1-A)		20	16.50	2.805000	2.544135	1	44.85	Hay/Pasture	01/09/2014
01/09/2014	01:15 PM	153326	Langham Creek		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/09/2014
01/10/2014	04:30 AM	153328	Tomball South		20	15.70	2.669000	2.420783	1	44.85	Hay/Pasture	01/10/2014
01/10/2014	06:30 AM	153329	Rosenberg (1-A)		20	16.50	2.805000	2.544135	1	44.85	Hay/Pasture	01/10/2014
01/10/2014	08:15 AM	153330	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/10/2014
01/10/2014	11:00 AM	153331	Bellville, City of		20	21.70	3.689000	3.345923	1	44.85	Hay/Pasture	01/10/2014
01/10/2014	02:30 PM	153332	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85	Hay/Pasture	01/10/2014
01/11/2014	08:30 AM	153334	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/11/2014
01/14/2014	12:15 PM	153335	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/14/2014
01/14/2014	09:45 AM	153338	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/14/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres	Land Use	Appl. Date
01/14/2014	03:15 PM	153339	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85	Hay/Pasture	01/14/2014
01/15/2014	05:30 PM	153237	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	10:15 AM	153449	HC MUD 365		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	11:30 AM	153450	HC MUD 365		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	02:45 PM	153528	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	04:30 PM	153529	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	06:15 PM	153530	Creekside Village	6,500		2.60	0.704730	0.639190	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	01:45 PM	153534	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	07:30 AM	153561	Tomball South		20	15.70	2.669000	2.420783	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	09:15 AM	153563	Pecan Grove		20	18.40	3.128000	2.837096	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	11:15 AM	153564	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	10:00 PM	154081	Cinco Southwest		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	09:15 PM	154092	HC MUD 365		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	05:45 AM	154712	NWHC 21- 23		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/15/2014
01/22/2014	11:30 AM	154715	FB 106		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	03:30 PM	154761	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/15/2014
01/15/2014	05:15 PM	154762	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/15/2014
01/16/2014	07:45 AM	153239	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:30 AM	153240	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:45 AM	153255	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	11:00 AM	153256	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	12:45 PM	153257	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	02:30 PM	153258	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	05:15 PM	153259	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:45 AM	153358	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	11:15 AM	153359	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	01:15 PM	153360	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	03:15 PM	153361	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	07:15 PM	153362	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:30 AM	153452	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	10:30 AM	153453	Sealy, City of		20	10.00	1.700000	1.541900	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	12:30 PM	153454	Pecan Grove		20	18.40	3.128000	2.837096	1	44.85	Hay/Pasture	01/16/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres	Land Use	Appl. Date
01/16/2014	03:45 PM	153455	HC MUD 200		20	12.50	2.125000	1.927375	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:00 AM	153502	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	10:45 AM	153503	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	12:30 PM	153504	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	02:15 PM	153505	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	04:45 PM	153506	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	07:45 AM	153531	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	10:00 AM	153532	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	11:45 AM	153533	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	03:45 PM	153535	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	10:30 AM	153550	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	12:00 PM	153551	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	01:45 PM	153552	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	03:00 PM	153553	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	01:00 PM	153566	Tomball North		20	10.90	1.853000	1.680671	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	05:15 AM	153567	Meadow Place		20	14.40	2.448000	2.220336	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	07:00 AM	153568	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:45 AM	153569	Sealy, City of		20	10.00	1.700000	1.541900	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	10:00 AM	153570	Bellville, City of		20	21.70	3.689000	3.345923	1	44.85	Hay/Pasture	01/16/2014
01/20/2014	11:45 AM	153588	Westlake	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	09:15 AM	153621	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	10:15 AM	153622	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	11:15 AM	153623	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	12:15 PM	153624	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	01:15 PM	153625	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	07:30 AM	153642	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:45 AM	153643	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	09:45 AM	153644	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	10:45 AM	153645	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	11:45 AM	153646	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	12:45 PM	153647	Waller WWTP	6,500		1.00	0.271050	0.245842	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:30 AM	154082	Cinco Southwest		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/16/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres	Land Use	Appl. Date
01/16/2014	10:30 AM	154083	Cinco Southwest		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	02:00 PM	154084	Cinco Southwest		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	05:15 PM	154085	Cinco Southwest		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	05:30 AM	154716	HC WCID 92		20	15.10	2.567000	2.328269	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	08:45 AM	154717	Ponderosa JPA		20	14.90	2.533000	2.297431	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	11:00 AM	154718	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/16/2014
01/16/2014	01:00 PM	154719	FB 30		13	14.60	1.613300	1.463263	1	44.85	Hay/Pasture	01/16/2014
01/17/2014	03:45 AM	153572	FB 106		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	06:45 AM	153573	Richmond Regional		20	14.20	2.414000	2.189498	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	07:45 AM	153574	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	09:30 AM	153575	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	02:45 PM	153576	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	04:45 PM	154088	Cinco Southwest		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	04:15 AM	154681	Ponderosa JPA		20	14.90	2.533000	2.297431	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	06:00 AM	154682	NWHC 21- 23		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	08:15 AM	154683	FB 30		13	14.60	1.613300	1.463263	1	44.85	Hay/Pasture	01/17/2014
01/17/2014	12:00 PM	154684	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85	Hay/Pasture	01/17/2014
01/18/2014	11:15 AM	154089	HC MUD 71		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	03:45 PM	154090	HC MUD 71		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	10:00 AM	154121	Richmond Regional		20	14.20	2.414000	2.189498	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	12:15 PM	154122	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	02:00 PM	154123	Langham Creek		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	11:30 AM	154686	NWHC 21- 23		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	09:30 AM	154687	FB 30		13	14.60	1.613300	1.463263	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	01:15 PM	154688	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/18/2014
01/18/2014	03:00 PM	154689	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/18/2014
01/20/2014	01:50 PM	151307	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	03:30 PM	151308	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	01:20 PM	153202	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	04:20 PM	153203	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	05:50 PM	153204	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	12:15 PM	153457	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat: 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres	Land Use	Appl. Date
01/20/2014	01:45 PM	153458	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	03:30 PM	153459	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	05:00 PM	153460	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	12:00 PM	154003	Brookshire WWTP	6,500		2.60	0.704730	0.639190	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	12:30 PM	154004	Brookshire WWTP	6,500		2.60	0.704730	0.639190	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	03:30 PM	154005	Brookshire WWTP	6,500		2.60	0.704730	0.639190	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	05:00 PM	154006	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	12:30 PM	154091	HC MUD 71		20	14.00	2.380000	2.158660	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	03:45 PM	154093	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	06:00 PM	154094	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	06:45 AM	154124	FB 106		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/20/2014
01/20/2014	11:00 AM	154125	FB 30		13	14.60	1.613300	1.463263	1	44.85	Hay/Pasture	01/20/2014
01/21/2014	05:15 PM	151312	HC 358 Fairfield	6,500		2.30	0.623415	0.565437	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	09:30 AM	153205	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	11:25 AM	153206	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	03:40 PM	153209	HC 358 Fairfield	6,500		2.30	0.623415	0.565437	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	04:15 PM	153609	North Park	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	10:30 AM	153661	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	01:00 PM	153662	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	03:30 PM	153663	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	06:15 PM	153664	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	01:30 PM	153681	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	04:30 PM	153682	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	08:00 PM	153683	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	05:45 PM	154023	North Park	6,500		1.50	0.406575	0.368764	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	04:45 AM	154126	Chelford City		20	14.33	2.436100	2.209543	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	06:00 AM	154127	Cinco Central		20	14.80	2.516000	2.282012	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	02:15 PM	154130	FB 30		13	14.60	1.613300	1.463263	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	04:00 PM	154131	Langham Creek		13	14.00	1.547000	1.403129	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	12:30 PM	154181	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	03:00 PM	154182	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014
01/21/2014	06:00 PM	154183	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85	Hay/Pasture	01/21/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres Land Use	Appl. Date
01/21/2014	07:00 AM	154691	Ponderosa JPA		20	14.90	2.533000	2.297431	1	44.85 Hay/Pasture	01/21/2014
01/21/2014	09:30 AM	154692	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/21/2014
01/21/2014	11:00 AM	154693	HC WCID 109		20	15.10	2.567000	2.328269	1	44.85 Hay/Pasture	01/21/2014
01/21/2014	08:45 AM	154805	HC MUD 71	6,500		0.88	0.238524	0.216341	1	44.85 Hay/Pasture	01/21/2014
01/22/2014	12:30 PM	151314	HC 358 Fairfield	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	02:15 PM	151315	HC 358 Fairfield	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	09:00 AM	153665	HC MUD 71	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	11:45 AM	153666	HC MUD 71	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	11:00 AM	153684	HC MUD 71	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	01:45 PM	154026	HC 358 Fairfield	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	06:00 PM	154028	HC 358 Fairfield	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	02:45 AM	154132	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	04:30 AM	154133	Tomball South		20	15.70	2.669000	2.420783	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	12:30 PM	154134	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	02:15 PM	154136	FB 30		13	14.60	1.613300	1.463263	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	04:30 PM	154137	FB 106		13	14.00	1.547000	1.403129	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	12:45 PM	154155	BC MUD 25	6,500		0.53	0.143657	0.130297	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	05:00 PM	154157	HC 358 Fairfield	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	10:40 AM	154184	HC MUD 71	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	01:15 PM	154185	HC MUD 71	6,500		2.30	0.623415	0.565437	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	09:30 AM	154696	Ponderosa JPA		20	14.90	2.533000	2.297431	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	08:00 AM	154697	NWHC 21- 23		13	14.00	1.547000	1.403129	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	11:30 AM	154698	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/22/2014
01/22/2014	01:30 PM	154810	BC MUD 25	6,500		0.53	0.143657	0.130297	1	44.85 Hay/Pasture	01/22/2014
01/23/2014	12:00 PM	153742	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85 Hay/Pasture	01/23/2014
01/23/2014	09:30 AM	154098	Cinco Central		20	14.80	2.516000	2.282012	1	44.85 Hay/Pasture	01/23/2014
01/23/2014	03:00 AM	154138	Richmond Regional		20	14.20	2.414000	2.189498	1	44.85 Hay/Pasture	01/23/2014
01/23/2014	08:30 AM	154140	Tomball South		20	15.70	2.669000	2.420783	1	44.85 Hay/Pasture	01/23/2014
01/24/2014	01:30 PM	153743	Tomball North		20	10.90	1.853000	1.680671	1	44.85 Hay/Pasture	01/24/2014
01/24/2014	06:30 PM	153745	Chelford City		20	14.33	2.436100	2.209543	1	44.85 Hay/Pasture	01/24/2014
01/24/2014	08:00 PM	153746	Cinco Central		20	14.80	2.516000	2.282012	1	44.85 Hay/Pasture	01/24/2014
01/27/2014	09:30 AM	153751	HC MUD 26		13	12.50	1.381250	1.252794	1	44.85 Hay/Pasture	01/27/2014



Land Application Manifest Summary By Site

<Application Date Range: 12/01/2013 - 02/28/2014>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004450000
Site Name: Carl Miller Farms
Address: Lat; 29 Deg 55' 2.41"N Lon: 59 Deg 59' 7.21"W Quality: Class B

Delivery Date	Time	Manifest	Generator	Liquid Gallons	Cake Yards	Percent Solids	Dry Tons	Dry Metric Tons	Field #	Acres Land Use	Appl. Date
Site Total				975,000	2,544	371.602683	337.043655				

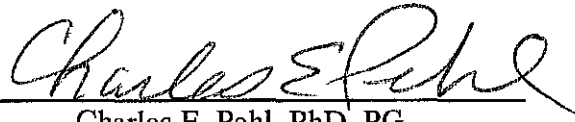
Cumulative Pollutants

February 28, 2014

<i>Pollutants</i>	Cumulative Pollutants 11/30/2013	Weighted Means	Application 12/01/13 to 02/28/2014	Cumulative to 02/28/2014	
	(kg/ha)	(mg/kg)	(kg/ha)	(kg/ha)	(lb./ac.)
Arsenic	2.63	5.85	1.9783	4.61	4.11
Cadmium	1.67	1.68	0.5681	2.24	2.00
Chromium	29.22	20.62	6.9730	36.19	32.32
Copper	165.79	445.92	150.7946	316.58	282.66
Lead	32.05	17.30	5.8503	37.90	33.84
Mercury	0.80	0.68	0.2300	1.03	0.92
Molybdenum	1.33	10.27	3.4730	4.80	4.29
Nickel	9.32	12.31	4.1628	13.48	12.04
Selenium	2.94	8.24	2.7865	5.73	5.11
Zinc	380.03	834.57	282.2224	662.25	591.30

Biosolids Application (11/01/13 to 02/28/14):

371.61 (tons/acre)



Charles E. Pehl, PhD, PG

Compliance Director

**Appendix A
Agronomic Rate Calculations**

TCEQ 04450

Part 1: Biosolids Application Rate

2/28/2014

Step 1- CALCULATE QUANTY OF NUTRIENTS & METALS IN POUNDS PER TON.

Nutrients		Percent	Conversion Factor	Pounds per ton
Total Nitrogen	(TKN)	4.42	x 20 =	88.4
Ammonium Nitrogen	(NH4)	0.48	x 20 =	9.6
Nitrate Nitrogen	(NO3)	0.08	x 20 =	1.6
Total Phosphorus	(P)	1.29	x 20 =	25.8
Total Potassium	(K)	0.39	x 20 =	7.8

Pollutants (mg/kg x 0.002 = lb./ton)		mg/kg*		lb./ton
Total Arsenic	(As)	5.85	x 0.002 =	0.0117
Total Cadmium	(Cd)	1.68	x 0.002 =	0.00336
Total Chromium	(Cr)	20.62	x 0.002 =	0.04124
Total Copper	(Cu)	445.92	x 0.002 =	0.89184
Total Lead	(Pb)	17.3	x 0.002 =	0.0346
Total Mercury	(Hg)	0.68	x 0.002 =	0.00136
Total Molybdenum	(Mo)	10.27	x 0.002 =	0.02054
Total Nickel	(Ni)	12.31	x 0.002 =	0.02462
Total Selenium	(Se)	8.24	x 0.002 =	0.01648
Total Zinc	(Zn)	834.56	x 0.002 =	1.66912

* Values from sludge tests (dry weight)

(Conversion: mg/kg x 0.0001 = %; PPM = mg/kg)

**Appendix A
Agronomic Rate Calculations**

TCEQ 04450

Step 2.- SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Note: Please include fertilizer recommendation from the local County Extension Service or equivalent source for determining the nitrogen need for the specific crop(s)

Intended Crop(s): Bermudagrass, Winter Rye and native pasture grasses

Yield Goal(s): 8 tons/ac in 4 to 6 cuttings.

pH: 7.0

	<u>N lb/ac</u>
A. Crop nutrient need for specific yield goal**	400
B. Nutrients available in soil = 2 x NO ₃ -N (ppm)(0-6" soil depth)+ 6 x NO ₃ -N(ppm)(6-24" soil depth)	145.6
C. Nutrient amount still needed; (A -B) (enter this amount in step 4A.)	254.4

** Crop nutrient need is based on 50 lb.N/ton of forage, Texas Agriculture Extension Service, Fertilizing Summer Perennial Pastures, Publication I-2210.

Step 3 - CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE SLUDGE.

(Use the values for Total N, NH₄-N and NO₃-N from Step 1)

	<u>%</u>	<u>lb./ton</u>
A. Organic-N = Total N-(NH ₄ -N+NO ₃ -N)	3.86	77.2
B. Ammonium Nitrogen (NH ₄ -N)	0.48	9.6
C. Nitrate Nitrogen (NO ₃ -N)	0.08	1.6
D.Total PAN = (0.3 x 3A) + (0.5 x 3B) + 3C =	1.718	29.56

Step 4. CALCULATE MAXIMUM SLUDGE APPLICATION RATE FROM CROP NITROGEN NEED (SARN):

A. Enter amount from Step 2. Nitrogen amount still needed:	254.4	<i>lb./ac./yr</i>
B. Enter amount from Step 3D. Total PAN in sludge	29.56	<i>lb./ton</i>
C. Sludge application rate(SARN)	8.61	<i>ton/ac./yr</i>

**Appendix A
Agronomic Rate Calculations**

TCEQ 04450

Step 5 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON METALS (SARM).

	A	B	C	D	E	F
	Cumulative Metal Limits (lb./ac.)	Max Metal Loading/yr (lb./ac./yr)	Metals in Sludge (lb./ton)	Metals Applied Annually at SARN (lb./ac./yr)	Metals Applied Annually at SARM (lb./ac./yr)	Max Sludge Loading Rate (ton/ac.)
Pollutants	<i>Appendix C</i>	<i>Appendix C</i>	<i>(Step 1)</i>	<i>C x SARN</i>	<i>B/C</i>	<i>A/C</i>
Arsenic	36	1.8	0.0117	0.100692828	0.100692828	3076.923077
Cadmium	35	1.7	0.00336	0.028916915	0.028916915	10416.66667
Chromium	2677	134	0.04124	0.354920704	0.354920704	64912.70611
Copper	1339	67	0.89184	7.675375372	7.675375372	1501.390384
Lead	268	13	0.0346	0.297775372	0.297775372	7745.66474
Mercury	15	0.76	0.00136	0.011704465	0.011704465	11029.41176
Molybdenum	Monitor	Monitor				
Nickel	375	18.7	0.02462	0.21188525	0.21188525	15231.51909
Selenium	89	4.5	0.01648	0.141830582	0.141830582	5400.485437
Zinc	2500	125	1.66912	14.36482165	14.36482165	1497.795245
Other						

If value in column B > D use nitrogen for biosolids application rate.

If value in column B < D use pollutant for biosolids application rate.

Step 6. CALCULATE SITE LIFE AND MAXIMUM APPLICATION RATE BASED ON CUMULATIVE LOADING OF NITROGEN OR LIMITING METAL(S).

A. Maximum allowable cumulative biosolids loading rate:	1497.80	<i>tons/acre</i>
B. Previous application of biosolids:	<u>2.40</u>	<i>tons/acre</i>
C. Remaining biosolids application rate to reach metal limits:	1495.40	<i>tons/acre</i>
D. Maximum allowable biosolids application rate:	<u>8.61</u>	<i>tons/acre/yr</i>
E. Years remaining to reach the maximum cumulative loading:	174	<i>years</i>