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WATER QUALITY DIVISION
TCEQ

K-3 Resources, L.P. TCEQ Permit No. WQ0004518000

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: 2nd Reporting period: Dec 1, 2011 to Feb 29, 2012 From September 1, 2011 to August 31, 2012

Permit No: WQ0004518-000 Date

Name of Registrant: K-3 Resources, LP

Mailing Address: P.O. Box 2236, Alvin, TX 77512

Contact Person Name: Charles E. Pehl Telephone No: 281-585-2817

Field No. (if any): N/A **(Submit separate form for each field, if site has two or more fields).**

Class B biosolids Land Applied: 413.52 dry tons /quarter
Treated Domestic Septage - Land Applied: 1,574,414 gallons / quarter
Method used to treat Domestic Septage: Lime Stabilization
Water Treatment Plant Sludge - Land Applied: 2.64 dry tons /quarter
Class A sludge land applied: 0.00 dry tons /quarter

a. Acreage used for Sludge Application/disposal at this site 270.5

b. Site Vegetation (such as grass type etc) and # of cuttings Hybred burmuda and native pasture grass 3 to 5 cuttings

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: 29°54'30"N Longitude: 95°57'12"W

e. Site physical address: 9458 FM 362, Brookshire, TX 77423

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 ANNUAL REPORT TO:

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

Wastewater Treatment Sources Land Applied

Second Quarter Report, December 1, 2001 to February 29, 2012

Facility Name	Permit Number
BMI Lime Stabilization Facility[1]	WQ0004538000
BC 25	WQ0014322-001
Cinco Central	WQ0013558-001
Cinco South	WQ0013712-001
Cinco Southwest	WQ0014343-001
Durkee Manor	WQ0010419-001
Fondren (HC WCID) Road	WQ0010570-001
Fort Bend 26	WQ0012073-001
Fry Road	WQ0011989-001
Grantham	WQ0012070-002
Greentrails	WQ0012289-001
HC 36	WQ0013573-001
HC 345	WQ0012356-001
HC 391	WQ0014327-001
HC 432	WQ0014589-001
Heather Glen	WQ0011231-001
Hunter's Glen	WQ0011618-001
Langham Creek	WQ0011682-001
MC 56	WQ0013760-001
Northline	WQ0010518-001
Oakwilde	WQ0010236-001
Pecan Grove	WQ0011655-001
Rayford Road	WQ0012030-001
WHC 15	WQ0012233-001
West Park	WQ0012346-001
Williamsburg	WQ0011598-001

1. WWTPs Lime Stabilized at WQ0004538-000 prior to land application to WQ004518-000

Facility Name	Permit Number
Aldine Jr High School	WQ0014277-001
Almost Heaven Campground	WQ0014088-001
BAE Systems	WQ0020124-001
BC 21	WQ0014222-001
Beacon Estates	WQ0014963-001
Beasley, City of	WQ0011450-001
Bernard Timbers	WQ0012097-001
Bilma	WQ0012025-002
Brookshire	WQ0010001-001
Cloverleaf	WQ0010875-001
Douglas	WQ0011200-001
Fatima MHP	WQ0013767-001
FB 116	WQ0014140-001
FB 146	WQ0014455-001
GC 12	WQ0010435-001
Grantham Middle School	WQ0012070-002
Grief Brothers	WQ0013949-001
Happy Hen Farms	WQ0004928-000
HC 122	WQ0012250-001
HC 149	WQ0011836-001
HC 154	WQ0012095-001
HC 185	WQ0012124-001
HC 374	WQ0014345-001
HC 401	WQ0014421-001

Wastewater Treatment Sources Land Applied

WQ0004518-000

Facility Name	Permit Number
HC 418	WQ0014476-001
HC 432	WQ0014589-001
HC 200	WQ0012294-001
Hempstead, City of	WQ0010948-001
Hidden Country MHP	WQ0014613-001
Hillcrest Village	WQ0010420-001
Hungerford 1	WQ0013240-001
KOA Baytown	WQ0013033-001
Lamar S-1, Manfred Williams	WQ0013007-001
Magnolia, City of	WQ0011871-001
MC 15	WQ0011395-001
MC 24	WQ0014116-001
MC 112	WQ0014671-001
Meadowcreek	WQ0013850-001
Needville S1	WQ0012010-001
North Forest	WQ0010905-001
Northland Shopping Center	WQ0011572-001
NWHC 24	Wq0012655-001
Pine Colony	WQ0012935-001
Richmond, City of	WQ0012205-001
Rolling Ridge	WQ0012015-001
San Jacinto Elementary	WQ0012071-01
Steven F Austin State Park	WQ0010896-001
Southwood MHP	WQ0012780-001
Splashtown	WQ0011886-001
Spring Creek	WQ0011574-001
Sralla MHP	WQ0014500-001
Twin Oaks MHP	WQ00012251-001
Varco Shaffer	WQ0003994.000
Vicksburg	WQ0012119-001
WHC 4	WQ0012140-001
WHC 7	WQ0012247-001
WHC 17	WQ0011414-001
West Houston Airport	WQ0011414-001
West Houston MHP	WQ0014312-001
Westlake	WQ0011284-001
Woodloch	WQ0011673-001
Woodland Oaks	WQ0010322-003

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
11/29/2011	09:00 AM	125964	Best Septic	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/01/2011
11/29/2011	09:00 AM	129887	Wellborn Water	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/01/2011
11/29/2011	09:00 AM	130488	Wellborn Water	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/01/2011
12/02/2011	01:00 PM	129897	Splashtown Park	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/03/2011
12/02/2011	01:00 PM	129987	Splashtown Park	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/03/2011
12/02/2011	08:00 AM	A-10000124	Septage (A-1)	22,950		1.13	1.081427	0.980854	3	57.40 Hay/Pasture	12/05/2011
12/02/2011	08:00 AM	A00060	Septage (Apache)	7,000		1.13	0.329847	0.299171	3	57.40 Hay/Pasture	12/05/2011
12/02/2011	08:00 AM	AOK00107	Septage (AOK)	2,750		1.13	0.129583	0.117532	3	57.40 Hay/Pasture	12/05/2011
12/02/2011	08:00 AM	J0000109	Septage (Jones)	6,200		1.13	0.292150	0.264980	3	57.40 Hay/Pasture	12/05/2011
12/02/2011	08:00 AM	R00045	Septage (Reliable)	5,000		1.55	0.323175	0.293120	3	57.40 Hay/Pasture	12/05/2011
12/02/2011	08:00 AM	S0000028	Septage (Sanisep)	2,500		1.13	0.117803	0.106847	3	57.40 Hay/Pasture	12/05/2011
12/02/2011	08:00 AM	TNT0005	Septage (TnT)	32,413		1.13	1.527333	1.385291	3	57.40 Hay/Pasture	12/05/2011
12/02/2011	09:00 AM	125965	Best Septic	6,475		2.33	0.629117	0.570609	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	127143	W H C 4	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/06/2011
12/02/2011	09:00 AM	127144	Splashtown Park	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	128636	W H C 4	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	129894	W H C 4	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	129895	W H C 4	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/06/2011
12/02/2011	09:00 AM	129899	Northland Shopping	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	129954	W H C 4	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	08:35 AM	129960	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	129985	W H C 4	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	129986	W H C 4	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/06/2011
12/02/2011	09:00 AM	129988	Splashtown Park	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	12:20 PM	129992	W H C 17	6,000		1.70	0.425340	0.385783	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	08:20 AM	130303	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	10:20 AM	130304	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	10:35 AM	130321	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	12:20 PM	130322	W H C 17	6,500		1.70	0.460785	0.417932	3	57.40 Hay/Pasture	12/06/2011
12/01/2011	09:00 AM	130493	W H C 4	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/06/2011
12/02/2011	09:00 AM	130495	Splashtown Park	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	08:45 AM	131001	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/06/2011
12/06/2011	10:45 AM	131002	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/06/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/06/2011	12:30 PM	131003	W H C 17	6,500		1.70	0.460785	0.417932	3	57.40	Hay/Pasture	12/06/2011
12/05/2011	09:00 AM	129989	BAE Systems	6,000		1.80	0.450360	0.408477	3	57.40	Hay/Pasture	12/07/2011
12/07/2011	10:15 AM	130324	Durkee Manor	6,500		0.89	0.241235	0.218800	3	57.40	Hay/Pasture	12/07/2011
12/06/2011	09:00 AM	125966	Best Septic	6,425		1.13	0.302752	0.274596	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	127161	Brookshire	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	127162	Brookshire	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	127163	Brookshire	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	127164	Brookshire	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	129990	Brookshire	6,000		2.33	0.582966	0.528750	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	129991	Brookshire	6,000		2.33	0.582966	0.528750	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	129993	Galveston Co. 12	6,000		2.33	0.582966	0.528750	3	57.40	Hay/Pasture	12/08/2011
12/08/2011	09:45 AM	129995	Durkee Manor	6,000		0.89	0.222678	0.201969	3	57.40	Hay/Pasture	12/08/2011
12/06/2011	09:00 AM	130323	Galveston Co. 12	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/08/2011
12/08/2011	09:00 AM	125967	Best Septic	6,500		1.13	0.306287	0.277802	3	57.40	Hay/Pasture	12/10/2011
12/08/2011	09:00 AM	129996	Twin Oaks Mhp	6,000		2.33	0.582966	0.528750	3	57.40	Hay/Pasture	12/10/2011
12/12/2011	05:35 PM	127175	North Forest	6,500		1.00	0.271050	0.245842	3	57.40	Hay/Pasture	12/12/2011
12/12/2011	06:20 PM	130315	North Forest	6,000		1.00	0.250200	0.226931	3	57.40	Hay/Pasture	12/12/2011
12/12/2011	06:30 PM	130331	North Forest	6,500		1.00	0.271050	0.245842	3	57.40	Hay/Pasture	12/12/2011
12/12/2011	04:55 PM	130541	North Forest	6,000		1.00	0.250200	0.226931	3	57.40	Hay/Pasture	12/12/2011
12/12/2011	12:30 PM	131014	W H C 17	6,500		1.70	0.460785	0.417932	3	57.40	Hay/Pasture	12/12/2011
12/12/2011	02:00 PM	131015	W H C 17	6,500		1.70	0.460785	0.417932	3	57.40	Hay/Pasture	12/12/2011
12/12/2011	03:30 PM	131016	W H C 17	6,500		1.70	0.460785	0.417932	3	57.40	Hay/Pasture	12/12/2011
12/13/2011	04:30 PM	127159	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	08:20 AM	127176	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	10:25 AM	127177	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	08:10 AM	130332	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	09:35 AM	130333	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	08:25 AM	130542	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	10:30 AM	130543	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	08:45 AM	131017	BC MUD 25	6,500		1.10	0.298155	0.270427	3	57.40	Hay/Pasture	12/13/2011
12/13/2011	04:15 PM	131020	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/13/2011
12/14/2011	12:10 PM	130123	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40	Hay/Pasture	12/14/2011
12/14/2011	02:20 PM	130124	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40	Hay/Pasture	12/14/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/14/2011	04:40 PM	130125	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	06:50 PM	130126	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	10:55 AM	130161	Cinco Central	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	01:10 PM	130162	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	02:45 PM	130163	Cinco South	6,500		1.40	0.379470	0.344179	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	03:35 PM	130164	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	06:15 PM	130165	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	12:45 PM	130202	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	02:30 PM	130203	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	04:15 PM	130204	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	12:40 PM	130381	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	02:45 PM	130382	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	03:15 PM	130383	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	10:35 AM	130384	Cinco Central	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	01:15 PM	130527	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	03:20 PM	130528	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	05:20 PM	130529	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	12:35 PM	130550	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	02:45 PM	130551	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	05:15 PM	130552	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	02:30 PM	130564	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/14/2011	02:30 PM	130565	HC 345	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/14/2011
12/12/2011	09:00 AM	131013	Lamar S-1 (Manfred	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/14/2011
12/13/2011	09:00 AM	125968	Best Septic	6,500		1.13	0.306287	0.277802	3	57.40 Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	127158	FB 146	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	127178	FB 146	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	127179	FB 146	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	127180	FB 146	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/15/2011
12/15/2011	12:50 PM	130128	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/15/2011
12/15/2011	08:25 AM	130166	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/15/2011
12/15/2011	10:25 AM	130167	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/15/2011
12/15/2011	01:30 PM	130168	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130317	FB 146	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/15/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/13/2011	09:00 AM	130318	FB 146	6,000		1.00	0.250200	0.226931	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130320	HC 374	6,000		1.20	0.300240	0.272318	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130334	FB 146	6,500		1.00	0.271050	0.245842	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130335	FB 146	6,500		1.00	0.271050	0.245842	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130336	FB 146	6,500		1.00	0.271050	0.245842	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130338	HC 374	6,500		1.20	0.325260	0.295011	3	57.40	Hay/Pasture	12/15/2011
12/15/2011	09:50 AM	130385	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/15/2011
12/15/2011	11:55 AM	130386	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130544	FB 146	6,000		1.00	0.250200	0.226931	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130545	FB 146	6,000		1.00	0.250200	0.226931	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	130547	HC 374	6,000		1.20	0.300240	0.272318	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	131018	FB 146	6,500		1.00	0.271050	0.245842	3	57.40	Hay/Pasture	12/15/2011
12/13/2011	09:00 AM	131019	FB 146	6,500		1.00	0.271050	0.245842	3	57.40	Hay/Pasture	12/15/2011
12/14/2011	09:00 AM	130122	HC 374	6,000		1.20	0.300240	0.272318	3	57.40	Hay/Pasture	12/16/2011
12/14/2011	09:00 AM	130201	HC 374	6,500		1.20	0.325260	0.295011	3	57.40	Hay/Pasture	12/16/2011
12/14/2011	09:00 AM	130340	HC 374	6,500		1.20	0.325260	0.295011	3	57.40	Hay/Pasture	12/16/2011
12/14/2011	09:00 AM	130526	HC 374	6,500		1.20	0.325260	0.295011	3	57.40	Hay/Pasture	12/16/2011
12/19/2011	01:40 PM	130134	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	04:00 PM	130135	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	06:30 PM	130136	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	03:10 PM	130177	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	05:25 PM	130178	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	02:40 PM	130393	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	05:15 PM	130394	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	12:35 PM	130534	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	02:40 PM	130535	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	04:50 PM	130536	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	03:40 PM	130556	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	06:10 PM	130557	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40	Hay/Pasture	12/19/2011
12/19/2011	03:45 PM	130574	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/19/2011
12/16/2011	09:00 AM	130130	Beacon Estates	6,000		2.33	0.582966	0.528750	3	57.40	Hay/Pasture	12/20/2011
12/20/2011	09:40 PM	130137	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40	Hay/Pasture	12/20/2011
12/20/2011	11:45 AM	130179	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40	Hay/Pasture	12/20/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/20/2011	03:10 PM	130181	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	05:35 PM	130182	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/20/2011
12/16/2011	09:00 AM	130207	Hidden Country MHP	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/20/2011
12/16/2011	09:00 AM	130208	Northland Shopping	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	02:10 PM	130213	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	04:45 PM	130214	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	09:00 AM	130221	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	03:35 PM	130222	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	05:55 PM	130223	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	05:30 PM	130261	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	07:50 PM	130262	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	08:35 AM	130395	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	10:45 AM	130396	Pecan Grove	6,500		2.00	0.542100	0.491685	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	04:10 PM	130399	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	06:10 PM	130400	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	02:00 PM	130539	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	04:35 PM	130540	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	08:30 PM	130558	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	10:45 AM	130559	Pecan Grove	6,000		2.00	0.500400	0.453863	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	01:15 PM	130560	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	02:15 PM	130577	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	04:00 PM	130578	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	06:30 PM	130801	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/20/2011
12/20/2011	11:50 AM	1430538	BC MUD 25	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/20/2011
12/21/2011	05:00 PM	129625	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	09:00 AM	130183	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	11:15 AM	130184	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	01:20 PM	130185	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	03:15 PM	130186	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	05:10 PM	130187	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	03:45 PM	130220	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	08:15 AM	130224	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	09:55 AM	130225	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/21/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/21/2011	11:45 AM	130226	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	01:30 PM	130227	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	03:30 PM	130228	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	05:45 PM	130229	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	08:20 AM	130263	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	10:10 AM	130264	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	11:50 AM	130265	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	02:00 PM	130266	Westlake	6,000		1.10	0.275220	0.249625	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	04:30 PM	130267	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	10:15 AM	130580	Greentrails MUD	6,500		1.80	0.487890	0.442516	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	12:00 PM	130581	Greentrails MUD	6,500		1.80	0.487890	0.442516	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	01:45 PM	130582	Greentrails MUD	6,500		1.80	0.487890	0.442516	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	04:00 PM	130583	Greentrails MUD	6,500		1.80	0.487890	0.442516	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	08:35 AM	130802	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	10:40 AM	130803	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	12:20 PM	130804	Westlake	6,500		1.10	0.298155	0.270427	3	57.40 Hay/Pasture	12/21/2011
12/21/2011	04:45 PM	130806	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/21/2011
12/19/2011	09:00 AM	125969	Best Septic	13,800		2.33	1.340822	1.216126	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	03:45 PM	129629	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	05:55 PM	129630	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40 Hay/Pasture	12/22/2011
12/20/2011	09:00 AM	130138	Brookshire	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/22/2011
12/20/2011	09:00 AM	130139	Brookshire	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/22/2011
12/20/2011	09:00 AM	130140	Brookshire	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/22/2011
12/20/2011	09:00 AM	130180	Brookshire	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	08:35 AM	130188	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	10:20 AM	130189	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	12:45 PM	130190	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	03:20 PM	130191	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	06:00 PM	130192	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	10:15 AM	130231	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	02:20 PM	130232	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	06:50 PM	130233	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40 Hay/Pasture	12/22/2011
12/22/2011	08:50 AM	130268	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40 Hay/Pasture	12/22/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/22/2011	11:00 AM	130269	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40	Hay/Pasture	12/22/2011
12/22/2011	04:20 PM	130271	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40	Hay/Pasture	12/22/2011
12/22/2011	07:00 PM	130272	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40	Hay/Pasture	12/22/2011
12/20/2011	09:00 AM	130397	Brookshire	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/22/2011
12/20/2011	09:00 AM	130398	Brookshire	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/22/2011
12/22/2011	05:40 PM	130810	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/22/2011
12/21/2011	09:00 AM	129621	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	129622	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	129623	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	129624	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	10:55 AM	129632	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	01:00 PM	129633	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	02:55 PM	129634	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	08:30 PM	130193	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	11:20 AM	130194	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	130215	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	130216	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	130217	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	130218	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	130219	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	08:15 AM	130230	Greentrails MUD	6,000		1.80	0.450360	0.408477	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	10:50 AM	130235	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	12:45 PM	130236	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	02:45 PM	130237	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	01:20 PM	130275	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	03:40 PM	130276	Fry Road	6,000		0.63	0.157626	0.142967	3	57.40	Hay/Pasture	12/23/2011
12/21/2011	09:00 AM	130805	HC 149	6,500		2.33	0.631547	0.572813	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	12:10 PM	130812	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/23/2011	02:00 PM	130813	Fry Road	6,500		0.63	0.170762	0.154881	3	57.40	Hay/Pasture	12/23/2011
12/19/2011	09:00 AM	125970	Best Septic	6,500		1.13	0.306287	0.277802	3	57.40	Hay/Pasture	12/24/2011
12/26/2011	10:05 AM	129637	West Park	6,500		1.50	0.406575	0.368764	3	57.40	Hay/Pasture	12/26/2011
12/26/2011	12:00 PM	129638	West Park	6,500		1.50	0.406575	0.368764	3	57.40	Hay/Pasture	12/26/2011
12/26/2011	08:25 AM	130195	West Park	6,000		1.50	0.375300	0.340397	3	57.40	Hay/Pasture	12/26/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/26/2011	10:20 AM	130196	West Park	6,000		1.50	0.375300	0.340397	3	57.40 Hay/Pasture	12/26/2011
12/26/2011	12:25 PM	130197	West Park	6,000		1.50	0.375300	0.340397	3	57.40 Hay/Pasture	12/26/2011
12/26/2011	09:10 AM	130238	West Park	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/26/2011
12/26/2011	11:05 AM	130239	West Park	6,500		1.50	0.406575	0.368764	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	A-10000125	Septage (A-1)	24,150		1.13	1.137972	1.032141	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	A-10000126	Septage (A-1)	11,350		1.13	0.534823	0.485084	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	A-10000127	Septage (A-1)	21,300		1.13	1.003677	0.910335	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	A00061	Septage (Apache)	10,350		1.13	0.487702	0.442346	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	A00062	Septage (Apache)	2,800		1.13	0.131939	0.119669	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	AOK00108	Septage (AOK)	24,050		1.13	1.133260	1.027867	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	CC000084	Septage (Coast to	14,500		1.13	0.683255	0.619712	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	CS000055	Septage (Country	8,400		1.13	0.395816	0.359005	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	H0000053	Septage (Hurt)	13,400		1.13	0.631421	0.572699	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	J0000110	Septage (Jones)	12,000		1.13	0.565452	0.512865	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	J0000111	Septage (Jones)	8,000		1.13	0.376968	0.341910	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	N000070	Septage (Northside)	7,000		1.13	0.329847	0.299171	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	R00046	Septage (Reliable)	6,450		1.13	0.303930	0.275665	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	RL00018	Septage (Royal)	21,900		1.13	1.031950	0.935979	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	S0000029	Septage (Sanisep)	17,800		1.13	0.838754	0.760750	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	TNT0006	Septage (TnT)	84,298		1.13	3.972206	3.602791	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	TP000056	Septage (Texas Pride)	17,850		1.13	0.841110	0.762887	3	57.40 Hay/Pasture	12/26/2011
12/23/2011	08:00 AM	W000074	Septage (Waller	3,100		1.13	0.146075	0.132490	3	57.40 Hay/Pasture	12/26/2011
12/27/2011	02:55 PM	129664	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	05:05 PM	129665	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	06:55 PM	129666	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	11:50 AM	129682	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	01:50 PM	129683	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	03:30 PM	129684	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	05:20 PM	129685	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	07:05 PM	129686	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	02:30 PM	130246	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	04:10 PM	130247	Williamsburg	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	06:00 PM	130248	Williamsburg	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/27/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/27/2011	08:00 PM	130249	Williamsburg	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	02:55 PM	130281	Williamsburg	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	04:30 PM	130282	Williamsburg	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	06:10 PM	130283	Williamsburg	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	08:00 PM	130284	Williamsburg	6,000		1.00	0.250200	0.226931	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	01:15 PM	130591	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	03:50 PM	130592	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	05:15 PM	130593	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	03:20 PM	130816	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/27/2011	05:40 PM	130817	Williamsburg	6,500		1.00	0.271050	0.245842	3	57.40 Hay/Pasture	12/27/2011
12/26/2011	09:00 AM	129640	West Houston MHP	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	11:45 AM	129641	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	01:45 PM	129642	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	05:00 PM	129643	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/26/2011	09:00 AM	129661	West Houston MHP	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	01:40 PM	129689	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	04:20 PM	129690	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/26/2011	09:00 AM	130243	West Houston MHP	6,000		2.33	0.582966	0.528750	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	03:10 PM	130253	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	02:40 PM	130287	Cinco Southwest	6,000		4.40	1.100880	0.998498	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	11:00 AM	130595	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	01:00 PM	130596	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	03:45 PM	130597	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	11:05 AM	130819	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	01:05 PM	130820	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/28/2011	03:40 PM	130821	Cinco Southwest	6,500		4.40	1.192620	1.081706	3	57.40 Hay/Pasture	12/28/2011
12/29/2011	05:00 PM	129647	HC MUD 401	6,500		1.26	0.341523	0.309761	3	57.40 Hay/Pasture	12/29/2011
12/29/2011	05:50 PM	129677	HC MUD 401	6,500		1.26	0.341523	0.309761	3	57.40 Hay/Pasture	12/29/2011
12/29/2011	06:00 PM	129741	HC MUD 401	6,000		1.26	0.315252	0.285934	3	57.40 Hay/Pasture	12/29/2011
12/29/2011	04:15 PM	130292	HC MUD 401	6,000		1.26	0.315252	0.285934	3	57.40 Hay/Pasture	12/29/2011
12/27/2011	09:00 AM	130815	SF Austin St Park	6,500		2.33	0.631547	0.572813	3	57.40 Hay/Pasture	12/29/2011
12/29/2011	04:45 PM	130827	HC MUD 401	6,500		1.26	0.341523	0.309761	3	57.40 Hay/Pasture	12/29/2011
12/30/2011	02:50 PM	129744	Rayford Road MUD	6,000		1.40	0.350280	0.317704	3	57.40 Hay/Pasture	12/30/2011

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
12/29/2011	09:00 AM	125971	Best Septic	6,475		2.33	0.629117	0.570609	3	57.40	Hay/Pasture	12/31/2011
12/29/2011	09:00 AM	129646	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	3	57.40	Hay/Pasture	12/31/2011
12/28/2011	09:00 AM	129671	W H C 15	6,500		1.70	0.460785	0.417932	3	57.40	Hay/Pasture	12/31/2011
12/29/2011	09:00 AM	129676	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	3	57.40	Hay/Pasture	12/31/2011
12/29/2011	09:00 AM	129692	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	3	57.40	Hay/Pasture	12/31/2011
12/29/2011	09:00 AM	129695	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	3	57.40	Hay/Pasture	12/31/2011
12/28/2011	09:00 AM	130255	HC 391 (Cypress	6,000		0.44	0.110088	0.099850	3	57.40	Hay/Pasture	12/31/2011
12/28/2011	09:00 AM	130289	W H C 15	6,000		1.70	0.425340	0.385783	3	57.40	Hay/Pasture	12/31/2011
12/29/2011	09:00 AM	130291	Spring Creek UD	6,000		2.33	0.582966	0.528750	3	57.40	Hay/Pasture	12/31/2011
12/29/2011	09:00 AM	130826	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	3	57.40	Hay/Pasture	12/31/2011
12/30/2011	08:00 AM	A-10000128	Septage (A-1)	21,025		1.13	0.990719	0.898582	5	62.00	Hay/Pasture	01/02/2012
12/30/2011	08:00 AM	A00063	Septage (Apache)	7,000		1.13	0.329847	0.299171	5	62.00	Hay/Pasture	01/02/2012
12/30/2011	08:00 AM	J0000112	Septage (Jones)	8,500		1.13	0.400529	0.363280	5	62.00	Hay/Pasture	01/02/2012
12/30/2011	08:00 AM	S0000030	Septage (Sanisep)	5,100		1.13	0.240317	0.217968	5	62.00	Hay/Pasture	01/02/2012
12/30/2011	08:00 AM	TNT0007	Septage (TnT)	19,928		1.13	0.939027	0.851697	5	62.00	Hay/Pasture	01/02/2012
12/30/2011	08:00 AM	TP000057	Septage (Texas Pride)	13,800		1.13	0.650270	0.589795	5	62.00	Hay/Pasture	01/02/2012
01/03/2012	02:15 PM	129656	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/03/2012
01/03/2012	04:00 PM	129657	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/03/2012
01/03/2012	05:45 PM	129658	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/03/2012
01/03/2012	05:00 PM	129749	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	01/03/2012
01/03/2012	03:25 PM	129785	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/03/2012
01/02/2012	09:00 AM	130831	Varco Shaffer	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/04/2012
01/04/2012	08:30 AM	130844	Wellborn Water	6,500		0.75	0.203288	0.184382	5	62.00	Hay/Pasture	01/04/2012
01/03/2012	09:00 AM	125972	Best Septic	6,500		1.13	0.306287	0.277802	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129654	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129655	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129748	Hempstead, City of	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129764	Bilma	6,000		1.20	0.300240	0.272318	5	62.00	Hay/Pasture	01/05/2012
01/05/2012	01:15 PM	129769	Cinco Central	6,000		2.00	0.500400	0.453863	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129781	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129782	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129783	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/05/2012
01/03/2012	09:00 AM	129784	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/05/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/06/2012	02:20 PM	129698	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	04:15 PM	129699	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	05:55 PM	129700	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	03:40 PM	129721	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	05:10 PM	129722	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	06:50 PM	129723	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/04/2012	09:00 AM	129750	West Houston Airport	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/06/2012
01/04/2012	09:00 AM	129751	West Houston Airport	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/06/2012
01/04/2012	09:00 AM	129753	Bilma	6,000		1.20	0.300240	0.272318	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	12:30 PM	129759	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	02:00 PM	129760	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	02:10 PM	129773	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	04:05 PM	129774	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	05:35 PM	129775	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	07:20 PM	129776	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/06/2012
01/04/2012	09:00 AM	129791	Bilma	6,500		1.20	0.325260	0.295011	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	03:05 PM	129797	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	05:25 PM	129798	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	07:05 PM	129799	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	01:30 PM	130008	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	03:15 PM	130009	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/06/2012	05:00 PM	130851	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/06/2012
01/07/2012	09:45 AM	130010	Douglas	6,500		2.00	0.542100	0.491685	5	62.00 Hay/Pasture	01/07/2012
01/07/2012	08:40 AM	130021	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/07/2012
01/07/2012	10:00 AM	130022	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/07/2012
01/07/2012	12:20 PM	131621	Douglas	6,500		2.00	0.542100	0.491685	5	62.00 Hay/Pasture	01/07/2012
01/06/2012	09:00 AM	125973	Best Septic	6,500		1.13	0.306287	0.277802	5	62.00 Hay/Pasture	01/09/2012
01/09/2012	11:30 AM	129726	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	01/09/2012
01/09/2012	01:20 PM	129727	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	01/09/2012
01/09/2012	03:20 PM	129728	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	01/09/2012
01/09/2012	05:10 PM	129729	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	01/09/2012
01/07/2012	09:00 AM	129779	Vicksburg	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/09/2012
01/04/2012	09:00 AM	130004	Happy Hen Farms	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/09/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/09/2012	05:00 PM	130011	Wellborn Water	6,500		0.75	0.203288	0.184382	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	07:40 AM	130025	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	01:40 PM	130026	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	03:30 PM	130027	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	05:30 PM	130028	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	01:05 PM	130856	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	01:55 PM	130857	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	04:50 PM	130858	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	06:50 PM	130859	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	12:15 PM	130867	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	02:00 PM	130868	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	04:00 PM	130869	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	05:45 PM	130870	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	04:05 PM	131605	Westlake	6,000		1.10	0.275220	0.249625	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	07:25 PM	131606	Westlake	6,000		1.10	0.275220	0.249625	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	01:20 PM	131622	Wellborn Water	6,500		0.75	0.203288	0.184382	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	03:35 PM	131623	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/09/2012	05:50 PM	131624	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	A-10000129	Septage (A-1)	21,625		1.13	1.018992	0.924226	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	A00064	Septage (Apache)	8,400		1.13	0.395816	0.359005	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	AOK00109	Septage (AOK)	11,450		1.13	0.539535	0.489358	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	CC000085	Septage (Coast to	5,500		1.13	0.259166	0.235064	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	CS000056	Septage (Country	3,700		1.13	0.174348	0.158134	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	J0000113	Septage (Jones)	13,000		1.13	0.612573	0.555604	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	N000071	Septage (Northside)	4,000		1.13	0.188484	0.170955	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	RL00019	Septage (Royal)	12,450		1.13	0.586656	0.532097	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	S0000031	Septage (Sanisep)	4,200		1.13	0.197908	0.179503	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	TNT0008	Septage (TnT)	18,528		1.13	0.873058	0.791864	5	62.00	Hay/Pasture	01/09/2012
01/06/2012	08:00 AM	TP000058	Septage (Texas Pride)	5,700		1.13	0.268590	0.243611	5	62.00	Hay/Pasture	01/09/2012
01/10/2012	12:20 PM	129731	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	01/10/2012
01/10/2012	02:20 PM	129732	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	01/10/2012
01/10/2012	10:45 AM	130030	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/10/2012
01/10/2012	12:40 PM	130031	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/10/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/10/2012	02:40 PM	130032	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/10/2012
01/11/2012	06:15 PM	131632	MC 112	6,500		1.61	0.436391	0.395807	5	62.00 Hay/Pasture	01/11/2012
01/10/2012	09:00 AM	129730	Beasley, City of	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/12/2012
01/10/2012	09:00 AM	129735	HC 418	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/12/2012
01/10/2012	09:00 AM	130016	HC 418	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/12/2012
01/10/2012	09:00 AM	130029	Beasley, City of	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/12/2012
01/10/2012	09:00 AM	130034	HC 418	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/12/2012
01/10/2012	09:00 AM	131610	HC 418	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/12/2012
01/12/2012	09:55 AM	131614	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00 Hay/Pasture	01/12/2012
01/12/2012	12:35 PM	131615	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00 Hay/Pasture	01/12/2012
01/10/2012	09:00 AM	131629	HC 418	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/12/2012
01/12/2012	08:25 AM	131633	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/12/2012
01/12/2012	11:10 AM	131634	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/12/2012
01/12/2012	01:55 PM	131635	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/12/2012
01/11/2012	09:00 AM	131613	Vicksburg	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/13/2012
01/13/2012	03:55 PM	131638	Rayford Road MUD	6,500		1.40	0.379470	0.344179	5	62.00 Hay/Pasture	01/13/2012
01/13/2012	03:00 PM	131683	Rayford Road MUD	6,500		1.40	0.379470	0.344179	5	62.00 Hay/Pasture	01/13/2012
01/12/2012	09:00 AM	125974	Best Septic	4,750		1.13	0.223825	0.203009	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	09:00 AM	125975	Best Septic	6,500		1.13	0.306287	0.277802	5	62.00 Hay/Pasture	01/16/2012
01/12/2012	09:00 AM	129739	Needville S1	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/16/2012
01/12/2012	09:00 AM	129740	Needville S1	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/16/2012
01/12/2012	09:00 AM	130020	BAE Systems	6,500		1.13	0.306287	0.277802	5	62.00 Hay/Pasture	01/16/2012
01/12/2012	09:00 AM	130038	Needville S1	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	02:20 PM	131502	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	04:45 PM	131503	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	09:00 AM	131618	Galveston Co. 12	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/16/2012
01/14/2012	09:00 AM	131639	Beasley, City of	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	03:10 PM	131669	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	03:15 PM	131670	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/16/2012
01/12/2012	09:00 AM	131681	Needville S1	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	12:00 PM	131685	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	01:45 PM	131686	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	04:00 PM	131687	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/16/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/16/2012	03:00 PM	132121	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	05:10 PM	132122	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	09:00 AM	132181	Woodland Oaks	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	12:20 PM	132185	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	02:50 PM	132186	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/16/2012
01/16/2012	04:50 PM	132187	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	09:00 AM	132511	Southwood M H P	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	A-10000130	Septage (A-1)	18,050		1.13	0.850534	0.771434	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	A00065	Septage (Apache)	5,500		1.13	0.259166	0.235064	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	AOK00110	Septage (AOK)	3,000		1.13	0.141363	0.128216	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	CC000086	Septage (Coast to	6,900		1.13	0.325135	0.294897	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	CS000057	Septage (Country	2,200		1.13	0.103666	0.094025	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	J0000114	Septage (Jones)	11,750		1.13	0.553672	0.502181	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	TNT0009	Septage (TnT)	19,793		1.13	0.932666	0.845928	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	TP000059	Septage (Texas Pride)	9,450		1.13	0.445293	0.403881	5	62.00 Hay/Pasture	01/16/2012
01/13/2012	08:00 AM	W000075	Septage (Waller	2,000		1.13	0.094242	0.085477	5	62.00 Hay/Pasture	01/16/2012
01/17/2012	10:50 AM	131672	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	12:40 PM	131673	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	02:20 PM	131674	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	04:20 PM	131675	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	09:00 AM	131688	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	11:15 AM	131689	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	01:45 PM	131690	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	07:55 AM	132123	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	08:40 AM	132188	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	10:20 AM	132189	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	01:40 PM	132191	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	11:40 AM	132518	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	01/17/2012
01/17/2012	03:20 PM	132520	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/17/2012
01/16/2012	09:00 AM	125976	Best Septic	5,900		1.13	0.278014	0.252159	5	62.00 Hay/Pasture	01/18/2012
01/17/2012	09:00 AM	130887	Varco Shaffer	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	130888	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	130889	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	01/19/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/17/2012	09:00 AM	130890	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	130891	W H C 4	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	02:00 PM	130895	W H C 15	6,500		1.70	0.460785	0.417932	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	131504	HC 149	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	131505	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	131506	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	131507	W H C 4	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	131508	W H C 4	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	131671	Varco Shaffer	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	131691	W H C 4	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	10:45 AM	131696	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	12:15 PM	131697	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	01:45 PM	131698	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	03:15 PM	131699	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132124	HC 149	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132125	W H C 4	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132126	W H C 4	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	08:25 AM	132131	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	10:00 AM	132132	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	11:35 AM	132133	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	12:45 PM	132134	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	02:25 PM	132135	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	03:55 PM	132136	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	01:30 PM	132161	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	03:00 PM	132162	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	04:40 PM	132163	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132190	Brookshire	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132192	W H C 4	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132193	W H C 4	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	12:00 PM	132200	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	08:05 AM	132241	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	09:30 AM	132242	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	11:05 AM	132243	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/19/2012	12:30 PM	132244	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	01:55 PM	132245	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/19/2012	03:20 PM	132246	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132517	Varco Shaffer	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/17/2012	09:00 AM	132519	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/19/2012
01/20/2012	01:30 PM	130899	HC MUD 401	6,500		1.26	0.341523	0.309761	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131511	W H C 7	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131512	W H C 7	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131679	W H C 7	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131680	W H C 7	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131692	W H C 4	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131693	W H C 4	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131694	W H C 7	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	131695	W H C 7	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132127	HC 432	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132129	W H C 7	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132130	W H C 7	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/20/2012	01:25 PM	132139	HC MUD 401	6,000		1.26	0.315252	0.285934	5	62.00	Hay/Pasture	01/20/2012
01/20/2012	03:30 PM	132167	HC MUD 401	6,000		1.26	0.315252	0.285934	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132194	HC 432	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132195	W H C 4	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132196	W H C 4	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132197	W H C 7	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132198	W H C 7	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/20/2012
01/18/2012	09:00 AM	132524	W H C 7	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/20/2012
01/19/2012	09:00 AM	125977	Best Septic	6,250		2.33	0.607256	0.550781	5	62.00	Hay/Pasture	01/21/2012
01/19/2012	09:00 AM	131516	W H C 15	6,500		1.70	0.460785	0.417932	5	62.00	Hay/Pasture	01/21/2012
01/20/2012	09:00 AM	131519	HC 122	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/22/2012
01/20/2012	09:00 AM	132101	Rolling Ridge MHP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/22/2012
01/20/2012	09:00 AM	132249	HC 122	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/22/2012
01/24/2012	08:00 AM	131526	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/24/2012
01/24/2012	09:50 AM	131527	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/24/2012
01/24/2012	08:15 AM	132107	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	01/24/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/24/2012	08:55 AM	132145	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	01/24/2012
01/24/2012	08:30 AM	132173	Cinco Southwest	6,000		4.40	1.100880	0.998498	1	48.00	Hay/Pasture	01/24/2012
01/23/2012	09:00 AM	132103	HC 149	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/25/2012
01/23/2012	09:00 AM	132104	HC 149	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/25/2012
01/23/2012	09:00 AM	132105	HC 149	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/25/2012
01/23/2012	09:00 AM	132106	HC 149	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	01/25/2012
01/23/2012	09:00 AM	132143	HC 149	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/25/2012
01/23/2012	09:00 AM	132172	HC 149	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	01/25/2012
01/25/2012	09:00 AM	130906	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	131531	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	131532	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132111	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132112	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132150	HC 374	6,000		1.20	0.300240	0.272318	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132151	HC 374	6,000		1.20	0.300240	0.272318	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132177	HC 374	6,000		1.20	0.300240	0.272318	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132178	HC 374	6,000		1.20	0.300240	0.272318	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132252	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132253	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132545	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/25/2012	09:00 AM	132546	HC 374	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/27/2012
01/26/2012	09:00 AM	125978	Best Septic	5,025		2.33	0.488234	0.442828	5	62.00	Hay/Pasture	01/28/2012
01/26/2012	09:00 AM	132549	Grantham Middle	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	01/28/2012
01/30/2012	05:40 PM	131562	Rayford Road MUD	6,000		1.40	0.350280	0.317704	5	62.00	Hay/Pasture	01/30/2012
01/30/2012	06:40 PM	132157	Rayford Road MUD	6,000		1.40	0.350280	0.317704	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	A-10000131	Septage (A-1)	29,850		1.13	1.406562	1.275752	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	A-10000132	Septage (A-1)	22,950		1.13	1.081427	0.980854	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	A00066	Septage (Apache)	9,900		1.13	0.466498	0.423114	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	AOK00111	Septage (AOK)	14,000		1.13	0.659694	0.598342	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	CC000087	Septage (Coast to	15,200		1.13	0.716239	0.649629	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	CS000058	Septage (Country	2,850		1.13	0.134295	0.121806	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	H0000054	Septage (Hurt)	17,600		1.13	0.829330	0.752202	5	62.00	Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	J0000115	Septage (Jones)	19,300		1.13	0.909435	0.824858	5	62.00	Hay/Pasture	01/30/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/27/2012	08:00 AM	N000072	Septage (Northside)	4,500		1.13	0.212045	0.192325	5	62.00 Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	RL00020	Septage (Royal)	8,630		1.13	0.406654	0.368835	5	62.00 Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	S0000032	Septage (Sanisep)	22,300		1.13	1.050798	0.953074	5	62.00 Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	TNT0010	Septage (TnT)	61,185		1.13	2.883098	2.614970	5	62.00 Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	TP000060	Septage (Texas Pride)	27,800		1.13	1.309964	1.188137	5	62.00 Hay/Pasture	01/30/2012
01/27/2012	08:00 AM	W000076	Septage (Waller	4,500		1.13	0.212045	0.192325	5	62.00 Hay/Pasture	01/30/2012
01/31/2012	12:15 PM	130916	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/31/2012
01/31/2012	02:30 PM	130917	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/31/2012
01/31/2012	01:00 PM	131566	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00 Hay/Pasture	01/31/2012
01/31/2012	04:50 PM	131567	MC MUD 56	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	01/31/2012
01/31/2012	05:30 PM	131585	MC MUD 56	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/31/2012
01/31/2012	04:15 PM	132119	MC MUD 56	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	01/31/2012
01/31/2012	01:50 PM	132160	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00 Hay/Pasture	01/31/2012
01/31/2012	02:00 PM	132557	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	01/31/2012
01/30/2012	09:00 AM	125979	Best Septic	6,425		2.33	0.624259	0.566203	5	62.00 Hay/Pasture	02/01/2012
01/30/2012	09:00 AM	131540	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	5	62.00 Hay/Pasture	02/01/2012
01/30/2012	09:00 AM	131544	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	5	62.00 Hay/Pasture	02/01/2012
02/01/2012	05:50 PM	131570	NWHC 24	6,000		1.60	0.400320	0.363090	5	62.00 Hay/Pasture	02/01/2012
02/01/2012	03:45 PM	132302	NWHC 24	6,500		1.60	0.433680	0.393348	5	62.00 Hay/Pasture	02/01/2012
02/02/2012	01:25 PM	131554	NWHC 24	6,500		1.60	0.433680	0.393348	5	62.00 Hay/Pasture	02/02/2012
02/02/2012	02:00 PM	131572	MC 112	6,000		1.61	0.402822	0.365360	5	62.00 Hay/Pasture	02/02/2012
02/02/2012	06:20 PM	131592	MC 112	6,500		1.61	0.436391	0.395807	5	62.00 Hay/Pasture	02/02/2012
02/02/2012	12:30 PM	132205	Aldine Jr High	6,000		1.00	0.250200	0.226931	5	62.00 Hay/Pasture	02/02/2012
02/02/2012	04:40 PM	132206	NWHC 24	6,000		1.60	0.400320	0.363090	5	62.00 Hay/Pasture	02/02/2012
02/02/2012	03:30 PM	132304	NWHC 24	6,500		1.60	0.433680	0.393348	5	62.00 Hay/Pasture	02/02/2012
01/31/2012	09:00 AM	130915	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	11:45 AM	130926	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	02:30 PM	130927	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	131547	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	131548	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	131549	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	01:50 PM	131557	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	04:50 PM	131558	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
01/31/2012	09:00 AM	131565	HC 391 (Cypress	6,000		0.44	0.110088	0.099850	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	11:50 AM	131574	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	02:40 PM	131575	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	05:20 PM	131576	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	131583	HC 391 (Cypress	6,500		0.44	0.119262	0.108171	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	131584	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/03/2012
02/01/2012	09:00 AM	131588	NWHC 24	6,500		1.60	0.433680	0.393348	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	04:30 PM	131595	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	132117	MC MUD 24	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	132118	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/03/2012
02/01/2012	09:00 AM	132120	BAE Systems	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/03/2012
01/31/2012	09:00 AM	132159	HC 391 (Cypress	6,000		0.44	0.110088	0.099850	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	12:50 PM	132208	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	04:15 PM	132209	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	01:15 PM	132306	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	12:30 PM	132566	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012
02/03/2012	03:20 PM	132567	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/03/2012
02/04/2012	10:30 AM	130928	Almost Heaven	6,500		1.00	0.271050	0.245842	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	01:15 PM	130929	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	03:00 PM	130930	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	08:55 AM	131559	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	11:45 AM	131560	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	08:30 AM	131577	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	11:20 AM	131578	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	02:10 PM	131579	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	09:35 AM	131596	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	12:45 PM	131597	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	04:10 PM	131598	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	08:10 AM	132210	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	10:55 AM	132211	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	01:55 PM	132212	FB 116 S1	6,000		1.82	0.455364	0.413015	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	04:10 PM	132213	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	02:45 PM	132307	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/04/2012	12:45 PM	132308	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	03:30 PM	132309	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	01:40 PM	132401	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	03:50 PM	132402	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	08:40 AM	132568	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	11:30 AM	132569	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	03:05 PM	132570	FB 116 S1	6,500		1.82	0.493311	0.447433	5	62.00 Hay/Pasture	02/04/2012
02/04/2012	05:20 PM	132571	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/04/2012
02/05/2012	07:30 AM	130931	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	09:15 AM	130932	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	11:45 AM	130933	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	01:30 PM	130934	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	10:10 AM	131580	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	08:15 AM	131599	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	10:25 AM	131600	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	08:35 AM	132214	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	10:55 AM	132215	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	01:00 PM	132216	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	03:10 PM	132217	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	12:30 PM	132321	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	02:20 PM	132322	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	11:20 AM	132404	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	01:20 PM	132405	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	12:45 PM	132441	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	02:40 PM	132442	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	07:30 AM	132572	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	09:10 AM	132573	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	11:35 AM	132574	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/05/2012	01:35 PM	132575	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/05/2012
02/06/2012	04:30 PM	130936	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	02:00 PM	132220	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	02:30 PM	132310	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	04:45 PM	132311	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/06/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/06/2012	05:15 PM	132327	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	08:30 AM	132328	Westlake	6,000		1.10	0.275220	0.249625	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	11:50 AM	132406	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	02:10 PM	132407	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	04:20 PM	132408	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	06:40 PM	132409	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	03:05 PM	132448	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	05:25 PM	132449	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	07:40 PM	132450	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	02:00 PM	132455	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	04:15 PM	132461	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	06:10 PM	132462	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	02:00 PM	132578	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	04:40 PM	132579	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/06/2012
02/06/2012	06:35 PM	132580	Westlake	6,500		1.10	0.298155	0.270427	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	A-10000133	Septage (A-1)	21,400		1.13	1.008389	0.914609	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	A00067	Septage (Apache)	9,800		1.13	0.461786	0.418840	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	AOK00112	Septage (AOK)	5,900		1.13	0.278014	0.252159	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	CC000088	Septage (Coast to	14,400		1.13	0.678542	0.615438	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	H0000055	Septage (Hurt)	10,200		1.13	0.480634	0.435935	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	J0000116	Septage (Jones)	8,800		1.13	0.414665	0.376101	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	S0000033	Septage (Sanisep)	7,400		1.13	0.348695	0.316266	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	TNT0011	Septage (TnT)	33,933		1.13	1.598957	1.450254	5	62.00 Hay/Pasture	02/06/2012
02/03/2012	08:00 AM	TP000061	Septage (Texas Pride)	5,200		1.13	0.245029	0.222241	5	62.00 Hay/Pasture	02/06/2012
02/07/2012	07:45 AM	130937	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	10:15 AM	130938	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	08:20 AM	130941	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	10:35 AM	130942	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	11:50 PM	132263	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	02:00 PM	132264	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	04:20 PM	132265	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	08:45 AM	132312	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/07/2012
02/07/2012	11:30 AM	132313	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00 Hay/Pasture	02/07/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/07/2012	01:45 PM	132314	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	04:15 PM	132315	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	09:30 AM	132329	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	12:10 PM	132330	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	02:10 PM	132331	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	04:40 PM	132332	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	07:00 PM	132333	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	08:30 AM	132410	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	11:10 AM	132411	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	01:30 PM	132412	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	03:45 PM	132413	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/07/2012
02/07/2012	06:00 PM	132414	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/07/2012
02/06/2012	09:00 AM	125980	Best Septic	6,500		1.80	0.487890	0.442516	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	01:20 PM	130947	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	03:25 PM	130948	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	05:25 PM	130949	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/08/2012
02/07/2012	06:30 PM	130985	Magnolia, City of	6,500		1.50	0.406575	0.368764	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	03:45 PM	132318	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/08/2012
02/06/2012	09:00 AM	132326	Hempstead, City of	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	09:10 AM	132334	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	11:20 AM	132335	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	02:00 PM	132336	Pecan Grove	6,000		0.80	0.200160	0.181545	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	04:10 PM	132337	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	06:10 PM	132338	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	08:20 AM	132415	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	10:35 AM	132416	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	01:00 PM	132417	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	03:30 PM	132418	Pecan Grove	6,500		0.80	0.216840	0.196674	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	05:45 PM	132419	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/08/2012
02/08/2012	08:20 AM	132466	Hunters Glen	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/08/2012
02/09/2012	08:05 AM	130950	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/09/2012
02/09/2012	03:30 PM	132320	HC MUD 36	6,500		1.30	0.352365	0.319595	5	62.00	Hay/Pasture	02/09/2012
02/09/2012	04:25 PM	132460	Westlake	6,500		1.10	0.298155	0.270427	5	62.00	Hay/Pasture	02/09/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/08/2012	09:00 AM	110931	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/10/2012
02/08/2012	09:00 AM	110932	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/10/2012
02/09/2012	09:00 AM	110935	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	03:10 PM	130043	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	05:00 PM	130044	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	01:45 PM	130614	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	03:30 PM	130615	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	05:00 PM	130616	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	12:20 PM	130954	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	03:05 PM	130955	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	05:05 PM	130956	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	02:15 PM	132042	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/08/2012	09:00 AM	132317	HC 154	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	12:10 PM	132346	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	02:40 PM	132347	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	04:25 PM	132348	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	11:30 AM	132472	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	01:55 PM	132473	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	03:55 PM	132474	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	06:00 PM	132475	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	11:50 AM	132485	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	02:00 PM	132486	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	04:10 PM	132487	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/10/2012	06:10 PM	132488	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00 Hay/Pasture	02/10/2012
02/09/2012	09:00 AM	110933	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	110934	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	110936	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	110937	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	110938	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	110939	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	130101	Best Septic	6,500		1.13	0.306287	0.277802	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	130610	W H C 15	6,500		1.70	0.460785	0.417932	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	130611	W H C 15	6,500		1.70	0.460785	0.417932	5	62.00 Hay/Pasture	02/11/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/09/2012	09:00 AM	130952	Richmond, City of	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	132041	W H C 15	6,500		1.70	0.460785	0.417932	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	132344	W H C 15	6,500		1.70	0.460785	0.417932	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	132469	Fatima M H P	6,000		2.33	0.582966	0.528750	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	132482	W H C 15	6,000		1.70	0.425340	0.385783	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	132483	W H C 15	6,000		1.70	0.425340	0.385783	5	62.00 Hay/Pasture	02/11/2012
02/09/2012	09:00 AM	132381	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/12/2012
02/10/2012	09:00 AM	132382	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/12/2012
02/13/2012	03:40 PM	130050	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	06:30 PM	130051	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	12:30 PM	130618	Rayford Road MUD	6,500		1.40	0.379470	0.344179	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	03:30 PM	130619	Northline	6,500		1.60	0.433680	0.393348	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	05:30 PM	130620	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	03:20 PM	130959	Northline	6,500		1.60	0.433680	0.393348	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	01:45 PM	132044	Rayford Road MUD	6,500		1.40	0.379470	0.344179	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	04:45 PM	132045	Northline	6,500		1.60	0.433680	0.393348	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	01:10 PM	132350	Rayford Road MUD	6,500		1.40	0.379470	0.344179	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	03:10 PM	132351	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	05:35 PM	132352	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	02:30 PM	132478	Northline	6,000		1.60	0.400320	0.363090	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	05:10 PM	132479	HC 345	6,000		1.50	0.375300	0.340397	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	03:00 PM	132491	Rayford Road MUD	6,000		1.40	0.350280	0.317704	5	62.00 Hay/Pasture	02/13/2012
02/13/2012	05:00 PM	132492	HC 345	6,000		1.50	0.375300	0.340397	5	62.00 Hay/Pasture	02/13/2012
02/14/2012	04:40 PM	130054	Bayou Forest Village	6,500		2.33	0.631547	0.572813	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	04:00 PM	132050	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	05:05 PM	132062	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	09:10 AM	132353	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	12:45 PM	132355	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	02:40 PM	132356	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	04:50 PM	132357	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	01:50 PM	132495	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00 Hay/Pasture	02/14/2012
02/14/2012	03:50 PM	132496	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00 Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	A-10000134	Septage (A-1)	22,650		1.13	1.067291	0.968033	5	62.00 Hay/Pasture	02/14/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/13/2012	08:00 AM	A00068	Septage (Apache)	10,600		1.13	0.499483	0.453031	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	AOK00113	Septage (AOK)	10,300		1.13	0.485346	0.440209	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	CC000089	Septage (Coast to	3,000		1.13	0.141363	0.128216	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	CS000059	Septage (Country	2,850		1.13	0.134295	0.121806	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	J0000117	Septage (Jones)	10,000		1.13	0.471210	0.427387	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	R00048	Septage (Reliable)	8,700		1.13	0.409953	0.371827	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	RL00021	Septage (Royal)	8,500		1.13	0.400529	0.363280	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	S0000034	Septage (Sanisep)	7,300		1.13	0.343983	0.311993	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	TNT0012	Septage (TnT)	23,823		1.13	1.122564	1.018166	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	TP000062	Septage (Texas Pride)	8,000		1.13	0.376968	0.341910	5	62.00	Hay/Pasture	02/14/2012
02/13/2012	08:00 AM	W000077	Septage (Waller	3,800		1.13	0.179060	0.162407	5	62.00	Hay/Pasture	02/14/2012
02/15/2012	03:45 PM	130057	North Forest	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/15/2012
02/13/2012	09:00 AM	130102	Best Septic	6,650		1.13	0.313355	0.284213	5	62.00	Hay/Pasture	02/15/2012
02/13/2012	09:00 AM	131921	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/15/2012
02/13/2012	09:00 AM	131922	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/15/2012
02/13/2012	09:00 AM	131924	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/15/2012
02/13/2012	09:00 AM	131925	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/15/2012
02/15/2012	05:45 PM	132358	Wellborn Water	6,500		1.50	0.406575	0.368764	5	62.00	Hay/Pasture	02/15/2012
02/13/2012	09:00 AM	132383	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/15/2012
02/13/2012	09:00 AM	132384	Cloverleaf WWTP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/15/2012
02/15/2012	03:50 PM	132497	Wellborn Water	6,500		1.50	0.406575	0.368764	5	62.00	Hay/Pasture	02/15/2012
02/16/2012	03:20 PM	130059	Cinco Central	6,500		2.00	0.542100	0.491685	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	05:15 PM	130060	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	01:30 PM	130630	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	03:00 PM	130631	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	04:30 PM	130632	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	01:00 PM	130969	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	02:40 PM	130970	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	04:30 PM	130971	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	11:25 AM	131941	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	01:15 PM	131942	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	02:55 PM	131943	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	04:50 PM	131944	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/16/2012	02:20 PM	131961	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	04:00 PM	131962	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	05:50 PM	131963	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/14/2012	09:00 AM	132046	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/16/2012
02/14/2012	09:00 AM	132047	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/16/2012
02/14/2012	09:00 AM	132048	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/16/2012
02/14/2012	09:00 AM	132049	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	08:30 AM	132054	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	10:00 AM	132055	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	11:45 AM	132056	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	02:00 PM	132057	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	03:30 PM	132058	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	06:45 AM	132059	Cinco Central	6,500		2.00	0.542100	0.491685	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	10:40 AM	132067	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	12:25 PM	132068	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	02:10 PM	132069	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	03:45 PM	132070	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	06:00 PM	132071	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/14/2012	09:00 AM	132354	Brookshire	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	08:05 AM	132359	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	09:45 AM	132360	Williamsburg	6,500		1.00	0.271050	0.245842	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	10:50 AM	132499	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/16/2012	12:30 PM	132500	Williamsburg	6,000		1.00	0.250200	0.226931	5	62.00	Hay/Pasture	02/16/2012
02/17/2012	12:10 PM	130062	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	02:25 PM	130063	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	04:25 PM	130064	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	06:00 PM	130065	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	12:30 PM	130635	Greentrails MUD	6,500		1.80	0.487890	0.442516	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	02:30 PM	130636	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	11:40 AM	130973	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	01:40 PM	130974	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	03:30 PM	130975	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	05:50 PM	130976	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/17/2012	01:00 PM	131947	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	03:20 PM	131948	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	05:20 PM	131949	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	04:40 PM	131967	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	06:50 PM	131968	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	02:40 PM	132072	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	04:45 PM	132073	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	07:00 PM	132074	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	12:15 PM	132266	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/17/2012	02:30 PM	132267	Greentrails MUD	6,000		1.80	0.450360	0.408477	5	62.00	Hay/Pasture	02/17/2012
02/16/2012	09:00 AM	130628	Woodloch MHP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/18/2012
02/16/2012	09:00 AM	130968	Sralla MHP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/18/2012
02/17/2012	09:00 AM	130972	Hillcrest Village	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/20/2012
02/17/2012	09:00 AM	131964	Woodland Oaks	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	02/20/2012
02/17/2012	09:00 AM	131965	Woodland Oaks	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	A-10000135	Septage (A-1)	26,650		1.13	1.255775	1.138988	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	A00069	Septage (Apache)	6,100		1.13	0.287438	0.260706	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	AOK00114	Septage (AOK)	11,150		1.13	0.525399	0.476537	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	CC000090	Septage (Coast to	22,800		1.13	1.074359	0.974444	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	CS000060	Septage (Country	2,600		1.13	0.122515	0.111121	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	H0000056	Septage (Hurt)	11,700		1.13	0.551316	0.500044	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	J0000118	Septage (Jones)	16,000		1.13	0.753936	0.683820	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	N000073	Septage (Northside)	2,500		1.13	0.117803	0.106847	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	RL00022	Septage (Royal)	4,530		1.13	0.213458	0.193606	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	S0000035	Septage (Sanisep)	20,800		1.13	0.980117	0.888966	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	TNT0013	Septage (TnT)	35,519		1.13	1.673691	1.518038	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	TP000063	Septage (Texas Pride)	25,900		1.13	1.220434	1.106934	5	62.00	Hay/Pasture	02/20/2012
02/18/2012	08:00 AM	W000078	Septage (Waller	2,300		1.13	0.108378	0.098299	5	62.00	Hay/Pasture	02/20/2012
02/21/2012	05:15 PM	130070	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/21/2012
02/21/2012	04:00 PM	130639	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/21/2012
02/21/2012	11:05 AM	131955	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/21/2012
02/21/2012	01:00 PM	131956	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/21/2012
02/21/2012	03:00 PM	131957	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/21/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/21/2012	04:40 PM	131958	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/21/2012
02/21/2012	04:10 PM	131974	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	02/21/2012
02/21/2012	05:55 PM	132006	Cinco Southwest	6,000		4.40	1.100880	0.998498	5	62.00	Hay/Pasture	02/21/2012
02/20/2012	09:00 AM	130977	Hungerford M U D 1	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/22/2012
02/20/2012	09:00 AM	132268	Rolling Ridge MHP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/22/2012
02/20/2012	09:00 AM	132269	Rolling Ridge MHP	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/22/2012
02/22/2012	08:45 AM	132270	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/22/2012
02/22/2012	12:45 PM	132271	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/22/2012
02/22/2012	05:15 PM	132272	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/22/2012
02/21/2012	09:00 AM	130069	Galveston Co. 12	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/23/2012
02/23/2012	05:05 PM	130075	Heather Glen	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	02/23/2012
02/23/2012	06:50 PM	130082	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00	Hay/Pasture	02/23/2012
02/21/2012	09:00 AM	130103	Best Septic	6,500		1.13	0.306287	0.277802	5	62.00	Hay/Pasture	02/23/2012
02/21/2012	09:00 AM	130638	Galveston Co. 12	6,500		2.33	0.631547	0.572813	5	62.00	Hay/Pasture	02/23/2012
02/21/2012	09:00 AM	131973	Galveston Co. 12	6,000		2.33	0.582966	0.528750	5	62.00	Hay/Pasture	02/23/2012
02/23/2012	02:30 PM	131980	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00	Hay/Pasture	02/23/2012
02/23/2012	07:00 PM	131988	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/23/2012
02/23/2012	03:45 PM	132274	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/23/2012
02/23/2012	07:15 PM	132275	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/23/2012
02/24/2012	11:45 AM	130077	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	01:45 PM	130078	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	03:45 PM	130079	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	04:40 PM	130086	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	03:30 PM	130648	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/22/2012	09:00 AM	131977	Bilma	6,000		1.20	0.300240	0.272318	5	62.00	Hay/Pasture	02/24/2012
02/22/2012	09:00 AM	131983	Bilma	6,500		1.20	0.325260	0.295011	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	02:35 PM	131992	HC 345	6,500		1.50	0.406575	0.368764	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	05:00 PM	131993	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	04:25 PM	132018	Fry Road	6,000		0.63	0.157626	0.142967	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	12:00 PM	132276	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	04:15 PM	132277	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	04:15 PM	132278	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012
02/24/2012	03:20 PM	133034	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00	Hay/Pasture	02/24/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/24/2012	05:30 PM	133035	Fry Road	6,500		0.63	0.170762	0.154881	5	62.00 Hay/Pasture	02/24/2012
02/25/2012	07:00 AM	130649	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/25/2012
02/25/2012	09:00 AM	130650	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/25/2012
02/25/2012	09:10 AM	131994	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/25/2012
02/25/2012	10:45 AM	131995	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/25/2012
02/25/2012	08:00 AM	132279	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/25/2012
02/25/2012	10:00 AM	132280	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/25/2012
02/25/2012	08:45 AM	133036	HC 345	6,500		1.50	0.406575	0.368764	5	62.00 Hay/Pasture	02/25/2012
02/24/2012	09:00 AM	130076	Lamar S-1 (Manfred	6,500		0.94	0.254787	0.231092	5	62.00 Hay/Pasture	02/26/2012
02/21/2012	09:00 AM	130104	Best Septic	6,500		1.13	0.306287	0.277802	5	62.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	A-10000136	Septage (A-1)	31,250		1.13	1.472531	1.335586	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	A00070	Septage (Apache)	7,800		1.13	0.367544	0.333362	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	AOK00115	Septage (AOK)	6,900		1.13	0.325135	0.294897	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	CC000091	Septage (Coast to	12,150		1.13	0.572520	0.519276	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	J0000119	Septage (Jones)	9,500		1.13	0.447650	0.406019	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	R00049	Septage (Reliable)	6,250		1.13	0.294506	0.267117	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	RL00023	Septage (Royal)	2,000		1.13	0.094242	0.085477	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	S0000036	Septage (Sanisep)	3,500		1.13	0.164924	0.149586	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	TNT0014	Septage (TnT)	12,759		1.13	0.601217	0.545304	4	52.00 Hay/Pasture	02/26/2012
02/24/2012	08:00 AM	TP000064	Septage (Texas Pride)	9,900		1.13	0.466498	0.423114	4	52.00 Hay/Pasture	02/26/2012
02/25/2012	09:00 AM	130080	W H C 7	6,500		0.75	0.203288	0.184382	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	130087	W H C 7	6,000		0.75	0.187650	0.170199	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	130088	W H C 7	6,000		0.75	0.187650	0.170199	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	130089	W H C 7	6,000		0.75	0.187650	0.170199	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	130651	W H C 7	6,500		0.75	0.203288	0.184382	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	131701	W H C 7	6,500		0.75	0.203288	0.184382	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	131702	W H C 7	6,500		0.75	0.203288	0.184382	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	131901	W H C 7	6,500		0.75	0.203288	0.184382	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	132019	W H C 7	6,000		0.75	0.187650	0.170199	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	132020	W H C 7	6,000		0.75	0.187650	0.170199	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	133037	W H C 7	6,500		0.75	0.203288	0.184382	5	62.00 Hay/Pasture	02/27/2012
02/25/2012	09:00 AM	133038	W H C 7	6,500		0.75	0.203288	0.184382	5	62.00 Hay/Pasture	02/27/2012
02/28/2012	10:05 AM	131711	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00 Hay/Pasture	02/28/2012

Land Application Manifest Summary By Site

<Application Date Range: 12/01/2011 - 02/29/2012>

TCEQ # 22430

Site Type: Land Application
Permit No: WQ0004518000
Site Name: El Celoso Ranch RN102984986
Address: Lat: N29deg 54'30" ; Long: W95deg 57'12" 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
02/28/2012	12:15 PM	131712	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/28/2012
02/28/2012	02:35 PM	131713	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/28/2012
02/28/2012	11:45 AM	131907	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/28/2012
02/28/2012	01:45 PM	131908	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/28/2012
02/28/2012	10:50 AM	131999	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/28/2012
02/28/2012	12:45 PM	132000	Cinco Southwest	6,500		4.40	1.192620	1.081706	5	62.00	Hay/Pasture	02/28/2012
Site Total				**6,845,914**	**0**		**479.625060**	**435.019922**				

Cumulative Pollutants

February 29, 2012

Pollutants	**Soil Pollutant Analysis 11/18/2011** *(kg/ha)*	**Weighted Means** *(mg/kg)*	**Application 8/01/11 to 2/29/2012** *(kg/ha)*	**Cumulative to 2/29/2012** *(kg/ha)*	*(lb./ac.)*
Arsenic	2.71	6.04	0.0108	**2.72**	2.43
Cadmium	0.45	1.28	0.0023	**0.45**	0.40
Chromium	19.14	22.08	0.0396	**19.18**	17.12
Copper	63.66	396.65	0.7111	**64.37**	57.47
Lead	18.17	22.55	0.0404	**18.21**	16.26
Mercury	0.15	0.70	0.0013	**0.15**	0.14
Molybdenum	11.21	10.97	0.0197	**11.23**	10.03
Nickel	2.92	15.25	0.0273	**2.95**	2.63
Selenium	11.21	5.42	0.0097	**11.22**	10.02
Zinc	126.97	761.71	1.3655	**128.34**	114.59

Biosolids Application (8/1/11 to 2/29/12): 1.97 (tons/acre)

Charles E. Pehl

Charles E. Pehl, Ph. D.
Compliance Director

Appendix A
Agronomic Rate Calculations

Part 1: Biosolids Application Rate 2/29/2012

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

Nutrients		*Percent*	*Conversion Factor*	*Pounds per ton*
Total Nitrogen	(TKN)	3.59	x 20 =	71.8
Ammonium Nitrogen	(NH_4)	0.45	x 20 =	9
Nitrate Nitrogen	(NO_3)	0.18	x 20 =	3.6
Total Phosphorus	(P)	1.18	x 20 =	23.6
Total Potassium	(K)	0.46	x 20 =	9.2

Pollutants *(mg/kg x 0.002 = lb./ton)*		*mg/kg**		*lb./ton*
Total Arsenic	(As)	6.19	x 0.002 =	0.01238
Total Cadmium	(Cd)	1.35	x 0.002 =	0.0027
Total Chromium	(Cr)	19.69	x 0.002 =	0.03938
Total Copper	(Cu)	380.04	x 0.002 =	0.76008
Total Lead	(Pb)	23.24	x 0.002 =	0.04648
Total Mercury	(Hg)	0.73	x 0.002 =	0.00146
Total Molybdenum	(Mo)	10.78	x 0.002 =	0.02156
Total Nickel	(Ni)	14.18	x 0.002 =	0.02836
Total Selenium	(Se)	6.27	x 0.002 =	0.01254
Total Zinc	(Zn)	729.63	x 0.002 =	1.45926

** Values from sludge tests (dry weight)*

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

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)

Yield Goal(s) 7 tons/ac in 3 to 4 cuttings. pH _____

Warm Season Intended Crop(s): Bermudagrass and native pasture grasses

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

	N lb/ac
A. Crop nutrient need for specific yield goal**	350
B. Nutrients available in soil	89.8
= 2 x NO3-N (ppm)(0-6"soil depth)+ 6 x NO3-N(ppm)(6-24" soil depth)	
C. Nutrient amount still needed: (A -B) *(enter this amount in step 4A.)*	260.2

*** Crop nutrient need is based on 50 lb.N/ton of forage, Texas AgricultureExtension Service, Fertilizing Summer Perennial Pastures, Publication l-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)

	%	*lb./ton*
A. Organic-N = Total N-(NH_4-N+NO_3-N)	2.96	59.2
B. Ammonium Nitrogen (NH_4-N)	0.45	9
C. Nitrate Nitrogen (NO_3-N)	0.18	3.6
D.Total PAN = (0.3 x 3A) + (0.5 x 3B) + 3C =	1.518	25.86

Step 4. CALCULATE MAXIUM SLUDGE APPLICATION RATE FROM CROP NITROGEN NEED (BARN):

A. Enter amount from Step 2. Nitrogen amount still needed:	260.2	*lb./ac./yr*
B. Enter amount from Step 3D. Total PAN in sludge	25.86	*lb./ton*
C. Sludge application rate(SARN)	**10.06**	*ton/ac./yr*

Appendix A
Agronomic Rate Calculations

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	*Appendix C*	*Appendix C*	*(Step 1)*	*C x SARN*	*B/C*	*A/C*
Arsenic	36	1.8	0.01238	0.124565971	0.124565971	2907.915994
Cadmium	35	1.7	0.0027	0.027167053	0.027167053	12962.96296
Chromium	2677	134	0.03938	0.396236504	0.396236504	67978.66938
Copper	1339	67	0.76008	7.647827378	7.647827378	1761.656668
Lead	268	13	0.04648	0.467675793	0.467675793	5765.920826
Mercury	15	0.76	0.00146	0.014690333	0.014690333	10273.9726
Molybdenum	Monitor	Monitor				
Nickel	375	18.7	0.02836	0.285354679	0.285354679	13222.84908
Selenium	89	4.5	0.01254	0.12617587	0.12617587	7097.288676
Zinc	2500	125	1.45926	14.68288677	14.68288677	1713.1971
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:	1713.20	*tons/acre*
B. Previous application of biosolids:	5.11	*tons/acre*
C. Remaining biosolids application rate to reach metal limits:	1708.09	*tons/acre*
D. Maximun allowable biosolids application rate:	10.06	*tons/acre/yr*
E. Years remaining to reach the maximum cumulative loading:	170	*years*

EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089
Coldspring, Texas 77331
(936) 653-3249 * (800) 525-0508

ACCREDITED IN ACCORDANCE WITH nelac

P. O. Box 631375
Nacogdoches, Texas 75963-1375
(936) 569-8879

El Celosos
BMI Sludge Hauling
P.O. Box 2236
Alvin TX 77512

LABORATORY ANALYSIS REPORT

Site: El Celoso Sludge 04538

ProjectID: El Celoso Sludge

Sample Number: C1157329-02

SampleType: Grab

Collect Date: 12/5/2011
Collect Time: 9:00 AM
Collector: SRA

Test	*	Result	Units	Tech	Date	Time	Method
Arsenic - ICP	A	3.40	mg/kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
Cadmium - ICP	A	0.60	mg/Kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
Chromium - ICP	A	7.10	mg/Kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
Copper - ICP	A	156.0	mg/Kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
Lead - ICP	A	5.80	mg/Kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
Mercury	A	0.146	mg/kg	MLJ	12/22/2011	2:34:00 PM	EPA SW 846-7471, S CVA
Molybdenum - ICP	A	3.70	mg/Kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
NH3, %	A	1.4640	%	ANP	12/27/2011	3:00:00 PM	SM 4500 C
Nickel - ICP	A	25.20	mg/Kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
Nitrate, %	N	0.001	%	DSB	12/14/2011	2:30:00 PM	SM4500-NO3 D
PCB	A	<0.055	mg/kg	MB	12/16/2011		EPA SW 846-8020
Percent Solid	A	0.70	%	KMV	12/6/2011	1:40:00 PM	SM 2540G
pH Sludge	A	12.3	std. units	LAB	12/12/2011	2:20:00 PM	EPA SW 846-9040
Phosphorus, %	A	1.7214	%	DSB	12/12/2011	1:15:00 PM	SM 4500 P B.5 E
Potassium, % - ICP	A	0.75	%	MLJ	12/20/2011	2:27:00 PM	EPA SW 846-6010, 3050,
Selenium - ICP	A	6.90	mg/kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050
TKN	N	13.52	%	LDP	12/14/2011	12:15:00 PM	EPA 351.2, Sludge
Zinc - ICP	A	275.0	mg/Kg	MLJ	12/20/2011	10:11:00 AM	EPA SW 846-6010, 3050

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

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El Celosos
BMI Sludge Hauling
P.O. Box 2236
Alvin TX 77512

LABORATORY ANALYSIS REPORT

James Johnson, Laboratory Director

All values are on a dry weight basis except as noted. Detection Limit and blank values are on a wet basis.
Analysis PCB performed by subcontract laboratory; see attached report for subcontracr supporting information.

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(936) 569-8879

Eastex Environmental Lab QC Data

El Celosos

Test Method	Blank	Standard Tru	Standard Found	% Rec	Note	---Spike--- %Re	Note	LabID	---Duplicate--- Result	DupRPD	Note	MDL	Related Sample
ProjectID: El Celoso Sludge		***Sample Month:*** December											
Arsenic - ICP													
EPA SW 846-6010, 3050	<0.005	0.250	0.241	96.24	<WL	96.92	<WL	C1158293-02	0.2813	0.247	12.66	>WL	--	C1157329-02
Cadmium - ICP													
EPA SW 846-6010, 3050	<0.001	0.250	0.235	94.08	<WL	85.48	>WL	C1158293-02	0.2357	0.235	0.085	<WL	--	C1157329-02
Chromium - ICP													
EPA SW 846-6010, 3050	<0.005	0.250	0.234	93.40	<WL	93.2%	<WL	C1158293-02	0.3470	0.317	13.42	>WL	--	C1157329-02
Copper - ICP													
EPA SW 846-6010, 3050	<0.005	0.250	0.231	92.40	<WL	91.36	<WL	C1157628-52	0.2284	0.229	0.35	<WL	--	C1157329-02
Lead - ICP													
EPA SW 846-6010, 3050	<0.005	0.250	0.236	94.40	<WL	93.84	<WL	C1157628-52	0.2396	0.240	0.292	<WL	--	C1157329-02
Mercury													
EPA SW 846-7471, S CVAA	<0.200	2.500	2.546	101.84	<WL	85.68	>WL	C1157628-52	2.142	2.039	4.927	<WL	--	C1157329-02
Molybdenum - ICP													
EPA SW 846-6010, 3050	<0.005	0.250	0.248	99.04	<WL	92.92	<WL	C1157628-52	0.2323	0.235	1.411	<WL	--	C1157329-02
NH3, %													
SM 4500 C	<0.1	5.000	4.500	90.00	<WL	97.982	<WL	C1157307-02	190.	190.	0	>WL	--	C1157329-02
Nickel - ICP													
EPA SW 846-6010, 3050	<0.010	0.250	0.234	93.52	<WL	81.76	>WL	C1158293-02	0.3204	0.348	8.402	<WL	--	C1157329-02
Nitrate, %													
SM4500-NO3 D	<0.1	5.000	4.500	90.00	<WL	90%	<WL	C1153235-03	4.6	4.5	2.198	>WL	--	C1157329-02
PCB													
EPA SW 846-8020	<0.055	5.000	4.680	93.60	--	89.8%	--	C1157329-02	4.49	4.50	0.222	<WL	--	C1157329-02
Percent Solid													

EASTEX ENVIRONMENTAL LABORATORY, INC.

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Coldspring, Texas 77331
(936) 653-3249 * (800) 525-0508

ACCREDITED IN ACCORDANCE WITH nelac

P. O. Box 631375
Nacogdoches, Texas 75963-1375
(936) 569-8879

Test Method	Blank	Standard Tru	Standard Found	% Rec	Note	---Spike--- %Re	Note	LabID	---Duplicate--- Result	Dup	RPD	Note	MDL	Related Sample
SM 2540G	<0.1	----	----	----	--	----	--	C1156362-01	1.9	1.9	0	<WL	0.1	C1157329-02
Phosphorus, %														
SM 4500 P B,5 E	<0.02	0.100	0.095	95.00	<WL	98%	<WL	C1157329-02	3.65	3.775	3.367	<WL	--	C1157329-02
Potassium, % - ICP														
EPA SW 846-6010, 3050, %	<0.500	25.00	22.031	88.12	>WL	119.65	>WL	C1158293-02	88.913	85.87	3.474	--	--	C1157329-02
Selenium - ICP														
EPA SW 846-6010, 3050	<0.005	0.250	0.245	97.84	<WL	97.84	<WL	C1158293-02	0.3416	0.302	12.11	>WL	--	C1157329-02
TKN														
EPA 351.2, Sludge	<1.0	10.00	9.700	97.00	<WL	99.438	--	C1157307-02	3.75	3.82	1.849	--	--	C1157329-02
Zinc - ICP														
EPA SW 846-6010, 3050	<0.005	0.250	0.246	98.40	<WL	93.2%	<WL	C1157628-52	0.2330	0.234	0.727	<WL	--	C1157329-02

Eastex Environmental Laboratory
P.O. Box 1089
Coldspring, Texas 77331
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PARAMETER	CLASS A & B MINIMUM TESTING CRITERIA	CLEAN SLUDGE MINIMUM TESTING CRITERIA
Arsenic	75	41
Cadmium	85	39
Chromium	3,000	1,200
Copper	4,300	1,500
Lead	840	300
Mercury	57	17
Molybdenum	75	18
Nickel	420	420
Selenium	100	36
Zinc	7,500	2,800
Potassium	NO LIMIT, CROP SPECIFIC	NO LIMIT, CROP SPECIFIC

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(800) 525-0508 * FAX (936) 653-3172 | (936) 569-8879 * FAX (936) 569-8951
www.eastexlab.com

REPORT TO:

1 Company: BMI
Address: on file
Attn.:
Phone #:
Fax #:

INVOICE TO:

2 Company:
Address:
Attn.:
Phone #:
Fax #:
P.O. #:

Sampler's Name (please print): Shawn Arnold
Sampler's Signature: [signature]

Project Number:
3 Project Name: Elcaposo

8 ANALYSIS REQUESTED: SPA LOWRAP

Remarks:

4 Sample ID	Date	Time	5 C/G	DO	PH	Cl2	Flow	Temp	6 Matrix	# Con	Size	Type	Pres	SPA LOWRAP
Dig	12-5	900	G						WW	4	3/6	P/G	C	✓

7 Containers

Relinquished By: (Signature)	Received By: (Signature)	Date	Time	Received Iced: Yes / No
Relinquished By: (Signature)	Received By: (Signature)	Date	Time	Received Iced: Yes / No
Relinquished By: (Signature) [signature]	Received and/or Checked In By: (Signature) [signature]	Date 12-5-11	Time 1430	Received Iced: Yes / No

LAB USE ONLY Sample Condition Acceptable: Yes / No	Temp °C	Therm ID	Logged in By: (Signature)	Date	Time
Alternate Check In: (Signature) Date Time	4.1	15	[signature]	12-5-11	1455

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink copy-Client Copy

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P. O. Box 631375
Nacogdoches, Texas 75963-1375
(936) 569-8879

El Celosos
BMI Sludge Hauling
P.O. Box 2236
Alvin, TX 77512

BIOSOLIDS PATHOGEN AND VECTOR ATTRACTION ANALYSIS

PROJECT ID:	El Celosos Sludge
SITE:	El Celosos Sludge
COLLECT DATE:	12/5/2011
COLLECT TIME:	9:00
SAMPLER:	SRA
SAMPLE NO.	C1157329-01

PARAMETER	RESULTS	STATUS *	40 CFR 503 CRITERION CLASS B	CLASS A	METHOD	DATE TECH/TIME
PATHOGENS: INDICATOR ORGANISM						
Fecal Coliform #n/grams dry sludge	<10000	A	2,000,000 T.S. CFU/g	1,000 T.S. MPN/g	SM 9222 D (APHA,1992)	KMV;16:09 12/5/11
***Fecal Coliform result is a geometric mean of 7 individual samples**						

VECTOR ATTRACTION: REDUCTION:						
	Results mg/0_2/g Solids/hr	1.96	N	<1.5 mg/0_2/g Solids/hr	TAC312.83(b)(4) (APHA,1992)	KMV;16:20 12/5/11

BIOSOLIDS CHARACTERISTICS:					
Total Solids:	0.7	A		SM 2540 G (APHA,1992)	KMV;13:40 12/6/11
Volatile Solids:	69.2 %	N		SM 2540 G (APHA,1992)	KMV;10:30 12/7/11

James Johnson
Laboratory Director

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

Most current versions applicable for methods listed are being used.

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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REPORT TO:

1 Company: BMI
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2 Company:
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Attn.:
Phone #:
Fax #:
P.O. #:

8 ANALYSIS REQUESTED: 8260 BTEX

Sampler's Name (please print): Shawn Arnold

Sampler's Signature:

Project Number:

3 Project Name: ELCP1050

7 Containers

Remarks:

4 Sample ID	Date	Time	5 C/G	DO	PH	Cl2	Flow	Temp	6 Matrix	# Con	Size	Type	Pres	8
D:9	12-5	900	G						WW	9	3/6	P/G	C	✓

Relinquished By: (Signature)	Received By: (Signature)	Date	Time	Received Iced: Yes / No
Relinquished By: (Signature)	Received By: (Signature)	Date	Time	Received Iced: Yes / No
Relinquished By: (Signature)	Received and/or Checked In By: (Signature)	Date	Time	Received Iced: Yes / No
		12-5-11	1420	

LAB USE ONLY Sample Condition Acceptable: Yes / No

Alternate Check In: (Signature)	Date	Time	Temp °C	Therm ID	Logged in By: (Signature)	Date	Time
			4.1	15		12-5-11	1455

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink copy-Client Copy

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8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

CLIENT: Municipal Operations
230 Spring Hill Dr. #325
Spring, Texas 77386
John Montgomery

Test Report

SAMPLE LOCATION:	BC MUD 25 WWTP	DATE RECEIVED:	10/04/11
SAMPLE DATE:	10/04/11	SAMPLE MATRIX:	Sludge
SAMPLE TIME:	7:45	SAMPLE ID:	1070-0026
SAMPLED BY:	AR	LAB FILE ID:	113011002

All Tests were Performed in Accordance with:

"Test Methods for Evaluating Solid Waste", SW-846, Third Edition, 1995.

Code of Federal Regulations, 40 CFR (7/1/95 Edition), Ch. 1, Pt. 261, App. 2, Method 1311.

PARAMETER	RESULT mg/kg	MAL mg/kg	SW-846 Method	Analysis Initials	Date of Analysis	Blank mg/kg	LCS % Recovery	LSD % Recovery
PCBs	<2.0	2.0	8082	JL	11/08/11	< 2.0	80.8	84.5

* PCB 1260

Derek McCoy
Technical Director

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
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SAMPLE LOCATION:	BC MUD 25 WWTP	DATE RECEIVED:	10/04/11
SAMPLE DATE:	10/04/11	SAMPLE MATRIX:	Sludge
SAMPLE TIME:	7:45	SAMPLE ID:	1070-0027
SAMPLED BY:	AR	LAB FILE ID:	113011002

MS - Matrix Spike MSD - Matrix Spike Dup

TCLP METALS	RESULT mg/L	LIMIT mg/L	EPA Method	Analyst Initials	Date of Analysis	Blank mg/L	Duplicate mg/L	Spike % Recovery
Arsenic	<0.01	5.0	6010C	MO	10/21/11	< 0.01	<0.01/<0.01	100.6
Barium	0.159	100	6010C	MO	10/20/10	< 0.01	0.08/0.08	99.2
Cadmium	< 0.01	1.0	6010C	MO	10/17/11	< 0.01	<0.01/<0.01	93.0
Chromium	< 0.01	5.0	6010C	MO	10/17/11	< 0.01	<0.01/<0.01	98.4
Lead	< 0.01	5.0	6010C	MO	10/17/11	< 0.01	<0.01/<0.01	95.6
Mercury	<0.002	0.2	7471B	ER	11/22/11	< 0.001	<0.001/<0.001	97.0
Selenium	0.069	1.0	6010C	MO	10/24/11	< 0.01	0.05/0.06	91.0
Silver	< 0.01	5.0	6010C	MO	10/19/11	< 0.01	<0.01/<0.01	97.0
TCLP SEMIVOLATILES	**RESULT mg/L**	**LIMIT mg/L**	**EPA Method**	**Analyst Initials**	**Date of Analysis**	**Blank mg/L**	**MS % Recovery**	**MSD % Recovery**
Pyridine	< 0.05	5.0	625	JM	10/12/11	< 0.05	5.6	5.5
O-Cresol	< 0.05	200	625	JM	10/12/11	< 0.05	40.0	39.6
M,P-Cresol	0.01	200	625	JM	10/12/11	< 0.05	41.1	41.8
Hexachloroethane	< 0.01	3.0	625	JM	10/12/11	< 0.01	15.1	14.9
Nitrobenzene	< 0.01	2.0	625	JM	10/12/11	< 0.01	49.7	49.7
Hexachlorobutadiene	< 0.01	0.5	625	JM	10/12/11	< 0.01	29.3	30.2
2,4,5-Trichlorophenol	< 0.02	400	625	JM	10/12/11	< 0.02	83.3	82.8
2,4,6-Trichlorophenol	< 0.02	2.0	625	JM	10/12/11	< 0.02	81.7	82.1
2,4-Dinitrotoluene	< 0.01	0.13	625	JM	10/12/11	< 0.01	107.8	108.3
Hexachlorobenzene	< 0.01	0.13	625	JM	10/12/11	< 0.01	92.1	94.0
Pentachlorophenol	< 0.05	100	625	JM	10/12/11	< 0.05	91.7	91.0
TCLP VOLATILES								
Vinyl Chloride	< 0.005	0.2	624	JM	10/10/11	< 0.005	104.0	104.6
1,1-Dichloroethylene	< 0.005	0.7	624	JM	10/10/11	< 0.005	99.7	103.3
Methyl Ethyl Ketone	< 0.01	200	624	JM	10/10/11	< 0.01	103.3	115.0
Chloroform	< 0.005	6.0	624	JM	10/10/11	< 0.005	105.4	111.8
1,2-Dichloroethane	< 0.005	0.5	624	JM	10/10/11	< 0.005	103.5	113.7
Benzene	< 0.005	0.5	624	JM	10/10/11	< 0.005	105.6	110.9
Carbon Tetrachloride	< 0.005	0.5	624	JM	10/10/11	< 0.005	102.8	103.0
Trichloroethylene	< 0.005	0.5	624	JM	10/10/11	< 0.005	104.1	107.4
Tetrachloroethylene	< 0.005	0.7	624	JM	10/10/11	< 0.005	105.6	107.7
Chlorobenzene	< 0.005	100	624	JM	10/10/11	< 0.005	103.2	105.5
1,4-Dichlorobenzene	< 0.005	7.5	624	JM	10/10/11	< 0.005	99.5	104.7
TCLP PESTICIDES								
Chlordane	< 0.01	0.03	608	JL	11/2/11	< 0.01	119.0	123.0
Lindane	< 0.01	0.4	608	JL	11/2/11	< 0.01	92.0	94.0
Heptachlor	< 0.005	0.008	608	JL	11/2/11	< 0.005	112.0	116.0
Heptachlor Epoxide	< 0.005	0.008	608	JL	11/2/11	< 0.005	124.0	130.0
Endrin	< 0.01	0.02	608	JL	11/2/11	< 0.01	146.0	150.0
Methoxychlor	< 0.01	10	608	JL	11/2/11	< 0.01	146.0	156.0
Toxaphene	< 0.05	0.5	608	JL	11/2/11	< 0.05	71.4	76.2
TCLP HERBICIDES								
2,4-D	< 0.5	10	SM 6640B	JL	11/21/11	< 0.5	277.2	308.7
2,4,5-TP (Silvex)	< 0.5	1.0	SM 6640B	JL	11/21/11	< 0.5	164.8	164.8

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SAMPLE LOCATION: BC MUD 25 WWTP
SAMPLE DATE: 10/04/11
SAMPLE TIME: 7:45
SAMPLED BY: AR

DATE RECEIVED: 10/04/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1070-0018
LAB FILE ID: 113011002

Sludge Analysis

PARAMETER	RESULT %	MAL %	Method	Analysts Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.1	0.1	SM 2540 G	OD	10/05/11	< 0.1	1.2/1.3	~
TKN	6.57	0.01	SM 4500N C	OD	10/13/11	< 0.01	3.90/4.02	0.28/0.30
Ammonia-N	0.49	0.12	SM 4500NH3 C	OD	10/10/11	< 0.01	0.28/0.29	0.81/0.80
Nitrate-N	0.18	0.01	SM 418 E	OD	10/10/11	< 0.01	0.22/0.22	0.40/0.40
Phosphorus	2.86	0.01	EPA 6010C	MO	11/03/11	< 0.01	1.23/1.25	4.13/4.36
Potassium	0.89	0.01	EPA 6010C	MO	11/02/11	< 0.01	0.48/0.47	2.12/2.18

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	7.1	1.0	EPA 6010C	MO	11/11/11	< 1.0	<1.0/<1.0	217.0/217.7
Cadmium	0.9*	0.5	EPA 6010C	MO	11/17/11	< 0.5	3.8/3.8	18.2/21.8
Chromium	10.9	1.0	EPA 6010C	MO	11/11/11	< 1.0	42.9/50.9	89.1/108.9
Copper	208	1.0	EPA 6010C	MO	11/17/11	< 1.0	263/266	2394/2395
Mercury	0.24	0.02	EPA 7471B	ER	11/02/11	< 0.02	0.67/0.66	2.47/2.44
Molybdenum	8.0	1.0	EPA 6010C	MO	11/09/11	< 1.0	14.0/13.6	101.4/108.9
Nickel	13.1	1.0	EPA 6010C	MO	11/11/11	< 1.0	61.0/64.4	87.6/108.9
Lead	4.9	1.0	EPA 6010C	MO	11/11/11	< 1.0	18.1/18.1	91.9/108.9
Selenium	5.2	1.0	EPA 6010C	MO	11/11/11	< 1.0	<1.0/<1.0	24.5/25.0
Zinc	601	2.0	EPA 6010C	MO	11/18/11	< 2.0	2130/1880	4440/4464

* - MS% recovery is < CL ** - duplicate RPD is > CL

* MAL = Minimum Analytical Level

All results are calculated on a dry weight basis.

Route: Angel Rodriguez 10/04/11

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

169 - BCMUD 25

Site: 169
BCMUD 25

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1070-0017	Digester	10/04/11	7:45	GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 B
2	1070-0018	Digester	10/04/11		GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/Ni-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C SM 4165 SM 2540 G EPA 7471B EPA 350.2 EPA 351.2
3	1070-0019	Digester	10/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
4	1070-0020	Digester	10/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
5	1070-0021	Digester	10/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
6	1070-0022	Digester	10/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
7	1070-0023	Digester	10/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
8	1070-0024	Digester	10/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
9	1070-0025	Digester	10/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1070-0026	Digester	10/04/11		GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA 608
11	1070-0027	Digester	10/04/11		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP EPA 1311
12	1070-0028	Outfall 001	10/04/11		GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6919-03
13	1070-0029	Outfall 001	10/04/11		GRAB	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
14	1070-0030	Outfall 001	10/04/11		GRAB	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
15	1070-0031	Outfall 001	10/04/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
16	1070-0032	Raw	10/04/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D

Field Analysis Time	
	7:45
Digester Temperature	21.3°C
Outfall 001 DO	7.50 #5
Outfall 001 Flow	8" Inches - 90° Weir
Outfall 001 pH	7.01
Raw DO	.75 #6
Raw pH	7.17
Collected By (if different than sampler)	

Sampler (Signature): [signature]
Print Name: Angel R.
Affiliation: NWDLS

Relinquished By (Signature): [signature]
Date: 10/04/11
Time: 1340

Relinquished By (Signature):
Date:
Time:

Relinquished To Laboratory By (Signature):

Received By (Signature):
Date:
Time:

Received By (Signature):
Date:
Time:

Received For Laboratory By (Signature): Gustavo Sabillon
Date: 10/04/11
Time: 1340

pH Meter #1 Calibration		
Time	Slope	Buffers
02:56	57.1	4:7:10

DO Meter #1 100% Air Calibration		
Time	Temp °C	D.O.
02:56	20	9.09

Route: Angel Rodriguez 10/04/11

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CHAIN OF CUSTODY RECORD

169 - BCMUD 25

Site: 169
BCMUD 25

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time
17	1070-0033	Raw.	10/04/11	7:45	GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B	Collected By
18	1070-0034	Raw	10/04/11	↓	GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNHS-IC ASTM D6919-03	(If different than sampler)
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date / Time
Print Name: Angel R.	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: NWDLS	Relinquished To Laboratory By (Signature)	Date: 10/04/11 Time: 1340	Received For Laboratory By (Signature): Gustavo Sebith	Date: 10/04/11 Time: 1340

pH Meter #1 Calibration

Time	Slope	Buffers
02:56	57.1	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:56	20	9.09

NWDLS North Water District Laboratory Services, Inc.
8725 Pawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

BCMUD 25 - Municipal Operations and Consulting

CLASS B

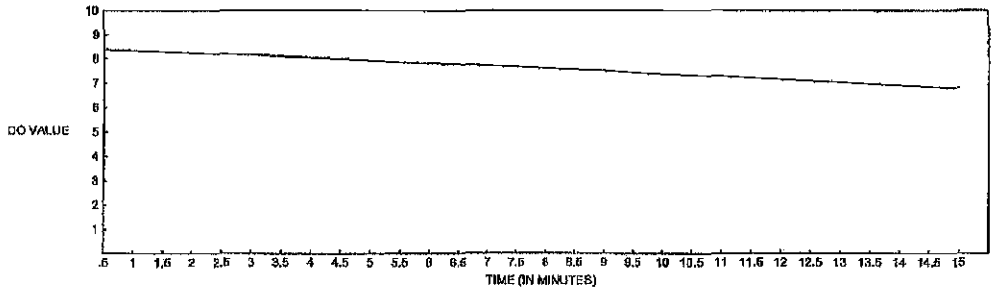
Report #228451

Report Generated 11/29/2011 15:05

Site: MUN 169

Analysis performed on sludge sample received on 11/22/2011 13:13 collected by Angel Rodriguez from the Digester at 11/22/2011 07:30

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10719155	180,000	CFU/g TS	SM 9222 D	DB	11/22/2011 14:00
Fecal Coliform	Sample ID: 10719156	150,000	CFU/g TS	SM 9222 D	DB	11/22/2011 14:00
Fecal Coliform	Sample ID: 10719157	160,000	CFU/g TS	SM 9222 D	DB	11/22/2011 14:00
Fecal Coliform	Sample ID: 10719158	180,000	CFU/g TS	SM 9222 D	DB	11/22/2011 14:00
Fecal Coliform	Sample ID: 10719159	190,000	CFU/g TS	SM 9222 D	DB	11/22/2011 14:00
Fecal Coliform	Sample ID: 10719160	180,000	CFU/g TS	SM 9222 D	DB	11/22/2011 14:00
Fecal Coliform	Sample ID: 10719161	200,000	CFU/g TS	SM 9222 D	DB	11/22/2011 14:00
Fecal Coliform	Geometric Mean	1.8E+05	180,000	CFU/g TS		
Total Solids	Sample ID: 10719154	1.3	%	SM 2540 G	ALR	11/22/2011 14:40
S.O.U.R. Test	Sample ID: 10719154	1.18	mg O2/hr/g TS	SM 2710 B	ALR	11/22/2011 03:12



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

169 - BCMUD 25

Site: 169
BCMUD 25

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1071-9152	Aeration	11/22/11	7:30	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
2	1071-9154	Digester	11/22/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 B
3	1071-9155	Digester	11/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
4	1071-9156	Digester	11/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
5	1071-9157	Digester	11/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
6	1071-9158	Digester	11/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
7	1071-9159	Digester	11/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
8	1071-9160	Digester	11/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
9	1071-9161	Digester	11/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1071-9162	Outfall 001	11/22/11		GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6919-03
11	1071-9163	Outfall 001	11/22/11		GRAB	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
12	1071-9164	Outfall 001	11/22/11		GRAB	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
13	1071-9153	Re Aeration	11/22/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
14											
15											
16											

Field Analysis Time	7:30
Digester Temperature	24.8°C
Outfall 001 DO	8.59
Outfall 001 Flow	4" Inches - 90° Weir
Outfall 001 pH	7.77
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Ben Walsh AR 11/22	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 11/22/11 Time: 1313	Received For Laboratory By (Signature)	Date: 11/22/11 Time: 1313

pH Meter #5 Calibration

Time	Slope	Buffers
04:30	57.6	4:7:10

DO Meter #5 100% Air Calibration

Time	Temp °C	D.O.
04:30	20	9.09

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

CLIENT: ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084
Jim Wolfe

Test Report

SAMPLE LOCATION: Cinco Central WWTP
SAMPLE DATE: 09/20/11
SAMPLE TIME: 11:20
SAMPLED BY: AR

DATE RECEIVED: 09/20/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1069-4005
LAB FILE ID: 102611009

B.L.F.

PARAMETER	RESULT %	MAL* %	Method	Analysis Initials	Date of Analysis	Blank %	Duplicates %	Spike % Recovery
Total Solids	1.2	0.1	SM 2540 G	OD	09/20/11	< 0.1	1.21/1.15	~
TKN	6.18	0.01	SM 4500N C	OD	09/29/11	< 0.01	5.98/5.71	2.78/3.00
Ammonia-N	0.62	0.12	SM 4500NH3 C	OD	09/21/11	< 0.01	0.69/0.68	0.53/0.51
Nitrate-N	0.17	0.01	SM 418 E	OD	09/21/11	< 0.01	0.15/0.15	0.27/0.26
Phosphorus	1.79	0.01	EPA 6010C	MO	10/12/11	< 0.01	2.79/2.80	2.66/3.42
Potassium	0.54	0.01	EPA 6010C	MO	10/11/11	< 0.01	8.10/7.89	1.59/1.71

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysis Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	3.8	1.0	EPA 6010C	MO	10/12/11	< 1.0	<1.0/<1.0	141.0/170.9
Cadmium	0.7	0.5	EPA 6010C	MO	10/12/11	< 0.5	0.7/0.7	16.1/17.1
Chromium	10.8	1.0	EPA 6010C	MO	10/12/11	< 1.0	15.4/15.9	76.6/85.4
Copper	577	1.0	EPA 6010C	MO	10/14/11	< 1.0	425/431	1859/1880
Mercury	0.86	0.02	EPA 7471B	ER	10/03/11	< 0.02	0.23/0.24	2.69/2.60
Molybdenum	20.4	1.0	EPA 6010C	MO	10/12/11	< 1.0	17.0/16.1	78.6/85.4
Nickel	9.9	1.0	EPA 6010C	MO	10/12/11	< 1.0	12.6/12.1	79.6/85.4
Lead	9.9	1.0	EPA 6010C	MO	10/12/11	< 1.0	7.4/8.3	79.6/85.4
Selenium	17.3	1.0	EPA 6010C	MO	10/13/11	< 1.0	<1.0/<1.0	182.0/170.9
Zinc	656	2.0	EPA 6010C	MO	10/14/11	< 2.0	664/680	3670/3503

*MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

Derek McCoy
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

161 - Cinco Central

Copy 0 of 2

Site: 161
Cinco Central

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

NOTE: ***IMPORTANT*** You must use the client's sample stick on-site to collect the effluent fecal samples!
Building Code: 5170

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1069-3999	Outfall 001 Sampler	09/20/11	11:20	24HR COMP	250mL	HDPE	Liquid	HNO3	180D	CU EPA 200.7
2	1069-4000	Outfall 001 Sampler	09/20/11		24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6919-03
3	1069-4001	Outfall 001 Sampler	09/20/11		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
4	1069-4002	Outfall 001 Sampler	09/20/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
5	1069-4003	Aeration	09/20/11		GRAB	250mL	Glass	Sludge			Mic
6	1069-4023	Aeration #1	09/20/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
7	1069-4020	Aeration #3	09/20/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
8	1069-4021	Aeration #4	09/20/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
9	1069-4022	Aeration #5	09/20/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
10	1069-4013	After Lights	09/20/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
11	1069-4014	After Lights	09/20/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	6H	FC SM 9222 D
12	1069-4015	Before Lights	09/20/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	6H	FC SM 9222 D
13	1069-4004	Digester	09/20/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 B
14	1069-4005	Digester	09/20/11		GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/Ni-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C SM 4500E SM 2540 G EPA 7471B EPA 350.2 EPA 351.2
15	1069-4006	Digester	09/20/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
16	1069-4007	Digester	09/20/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D

Field Analysis Time	11:20
Digester Temperature	28.8°C
Outfall 001 DO	7.07 #11
Outfall 001 pH	7.15
Raw pH	7.55
Collected By (if different than sampler)	

Dup. DO: 7.03

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 9/20/11 Time: 1547	Received For Laboratory By (Signature): Gustavo Sabatil	Date: 9/20/11 Time: 1547

pH Meter #1 Calibration

Time	Slope	Buffers
03:02	56.3	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
03:02	21	8.92

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
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(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

161 - Cinco Central

Copy 0 of 2

Site: 161
Cinco Central

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

NOTE: ***IMPORTANT*** You must use the client's sample stick on-site to collect the effluent fecal samples!
Building Code: 5170

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1069-4008	Digester	09/20/11	11:20	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
18	1069-4009	Digester	09/20/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
19	1069-4010	Digester	09/20/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
20	1069-4011	Digester	09/20/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
21	1069-4012	Digester	09/20/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
22	1069-4016	RAS	09/20/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS SM 2540 D
23	1069-4017	Raw	09/20/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D
24	1069-4018	Raw	09/20/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B
25	1069-4019	Raw	09/20/11		GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-IC ASTM D6919-03
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(If different than sampler)

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 9/20/11 Time: 1347	Received For Laboratory By (Signature): Gustavo Sabillo	Date: 9/20/11 Time: 1347

pH Meter #1 Calibration

Time	Slope	Buffers
03:02	56.3	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
03:02	21	8.92

NWDLS North Water District Laboratory Services, Inc.
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(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

Cinco Central - ST Environmental

CLASS B

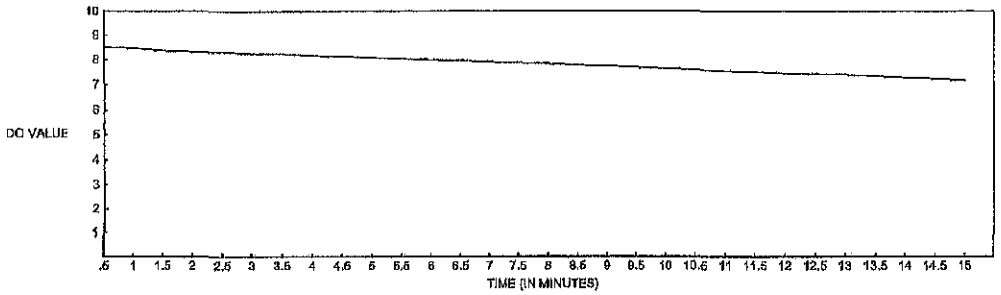
Report #232712

Report Generated 02/09/2012 15:24

Site: ST 161

Analysis performed on sludge sample received on 02/07/2012 13:26 collected by Angel Rodriguez from the Digester at 02/07/2012 09:15

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10745315	59,000	CFU/g TS	SM 9222 D	ALR	02/07/2012 16:24
Fecal Coliform	Sample ID: 10745316	66,000	CFU/g TS	SM 9222 D	ALR	02/07/2012 16:24
Fecal Coliform	Sample ID: 10745317	72,000	CFU/g TS	SM 9222 D	ALR	02/07/2012 16:24
Fecal Coliform	Sample ID: 10745318	60,000	CFU/g TS	SM 9222 D	ALR	02/07/2012 16:24
Fecal Coliform	Sample ID: 10745319	55,000	CFU/g TS	SM 9222 D	ALR	02/07/2012 16:24
Fecal Coliform	Sample ID: 10745320	73,000	CFU/g TS	SM 9222 D	ALR	02/07/2012 16:24
Fecal Coliform	Sample ID: 10745321	54,000	CFU/g TS	SM 9222 D	ALR	02/07/2012 16:24
Fecal Coliform	Geometric Mean	6.2E+04	62,000	CFU/g TS		
Total Solids	Sample ID: 10745314	1.6	%	SM 2540 G	OD	02/07/2012 18:10
S.O.U.R. Test	Sample ID: 10745314	0.61	mg O2/hr/g TS	SM 2710 B	OD	02/07/2012 03:37



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

161 - Cinco Central

Copy 1 of 2

Site: 161
Cinco Central

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

NOTE: ***IMPORTANT*** You must use the client's sample stick on-site to collect the effluent fecal samples!
Building Code: 5170

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1074-5309	Outfall 001 Sampler	02/07/12	9:15	24HR COMP	250mL	HDPE	Liquid	HNO3	180D	CU EPA 200.7
2	1074-5310	Outfall 001 Sampler	02/07/12		24HR COMP	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC ASTM D6919-03
3	1074-5311	Outfall 001 Sampler	02/07/12		24HR COMP	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
4	1074-5312	Outfall 001 Sampler	02/07/12		24HR COMP	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
5	1074-5313	Aeration	02/07/12		GRAB	250mL	Glass	Sludge			Mic
6	1074-5331	Aeration #1	02/07/12		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
7	1074-5332	Aeration #2	02/07/12		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
8	1074-5328	Aeration #3	02/07/12		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
9	1074-5329	Aeration #4	02/07/12		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
10	~~1074-5330~~	~~Aeration #5~~	~~02/07/12~~		~~GRAB~~	~~250mL~~	~~Glass~~	~~Liquid~~	~~4ºC~~	~~7D~~	~~MLSS/VSS~~ SM 2540 D EPA 160.4 tank empty - AR 2/07
11	1074-5322	After Lights	02/07/12		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	8H	ECOLIDEX SM 9223 B
12	1074-5323	Before Lights	02/07/12		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	8H	ECOLIDEX SM 9223 B
13	1074-5314	Digester	02/07/12		GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM 2540 G SM 2710 B
14	1074-5315	Digester	02/07/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
15	1074-5316	Digester	02/07/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
16	1074-5317	Digester	02/07/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D

Field Analysis Time	9:15
Digester Temperature	19.2°C
Outfall 001 DO	8.30
Outfall 001 pH	7.24
Raw pH	7.55
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/07/12 Time: 1316	Received For Laboratory By (Signature): Cristina Sabillon	Date: 2/07/12 Time: 1316

pH Meter #1 Calibration

Time	Slope	Buffers
03:05	56.9	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
03:05	21	8.92

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

CLIENT: ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084
Jim Wolfe

Test Report

SAMPLE LOCATION: Cinco Sout WWTP
SAMPLE DATE: 03/22/11
SAMPLE TIME: 10:55
SAMPLED BY: AR

DATE RECEIVED: 03/22/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1062-3482
LAB FILE ID: 51111009

B.L.F.

PARAMETER	RESULT %	MAL* %	Method	Analysis Initials	Date of Analysis	Blank %	Duplicates %	Spike % Recovery
Total Solids	1.4	0.1	SM 2540 G	OD	03/24/11	< 0.1	1.42/1.37	~
TKN	6.93	0.01	SM 4500N C	OD	03/28/11	< 0.01	6.93/6.83	0.26/0.26
Ammonia-N	0.53	0.12	SM 4500NH3 C	OD	03/28/11	< 0.01	0.53/0.52	0.11/0.10
Nitrate-N	0.14	0.01	SM 418 E	OD	03/28/11	< 0.01	0.14/0.15	0.05/0.05
Phosphorus	2.11	0.01	EPA 6010C	MO	04/06/11	< 0.01	2.09/2.11	2.58/2.93
Potassium	0.48	0.01	EPA 6010C	MO	04/05/11	< 0.01	0.48/0.48	0.46/0.50

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysis Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	9.6	1.0	EPA 6010C	MO	04/05/11	< 1.0	9.2/9.6	131.5/146.2
Cadmium	0.5	0.5	EPA 6010C	MO	04/05/11	< 0.5	0.5/0.5	13.6/14.6
Chromium	11.5	1.0	EPA 6010C	MO	04/05/11	< 1.0	12.1/11.5	67.7/73.1
Copper	469	1.0	EPA 6010C	MO	04/06/11	< 1.0	468/468	1831/1608
Mercury	0.62	0.02	EPA 7471B	MO	04/18/11	< 0.02	0.56/0.62	1.66/1.85
Molybdenum	8.7	1.0	EPA 6010C	MO	04/05/11	< 1.0	8.6/8.7	66.7/73.1
Nickel	11.4	1.0	EPA 6010C	MO	04/05/11	< 1.0	11.5/11.4	69.6/73.1
Lead	6.7	1.0	EPA 6010C	MO	04/05/11	< 1.0	7.8/6.7	24.8/25.0
Selenium	8.4	1.0	EPA 6010C	MO	04/05/11	< 1.0	7.7/8.4	134.7/146.2
Zinc	652	2.0	EPA 6010C	MO	04/06/11	< 2.0	630/652	3318/2998

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

Derek McCoy
Technical Director

Route: Angel Rodriguez 03/22/11

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

163 - Cinco South

Copy 1 of 2

Site: 163
Cinco South

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

NOTE: ***IMPORTANT*** You must use the client's sample stick on-site to collect the effluent fecal samples!

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1062-3470	Outfall 001 Sampler	03/22/11	10:55	24HR COMP	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC ASTM D5913-03
2	1062-3471	Outfall 001 Sampler	03/22/11		24HR COMP	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
3	1062-3472	Outfall 001 Sampler	03/22/11		24HR COMP	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
4	1062-3479	Aeration #1	03/22/11		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
5	1062-3480	Aeration #2	03/22/11		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
6	1062-3473	After Lights	03/22/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	8H	ECOLIDEX SM 9223 B
7	1062-3474	After Lights	03/22/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	6H	FC SM 9222 D
8	1062-3475	Before Lights	03/22/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	6H	FC SM 9222 D
9	1062-3481	Digestor	03/22/11		GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM 2540 G SM 2710 B
10	1062-3482	Digestor	03/22/11		GRAB	1000mL	Glass	Solid	4ºC	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/NI-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn EPA 6010C SM 4110B SM 2540 G EPA 7471B EPA 350.2 EPA 351.3
11	1062-3483	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
12	1062-3484	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
13	1062-3485	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
14	1062-3486	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
15	1062-3487	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
16	1062-3488	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D

Field Analysis Time	10:55
Digestor Temperature	26.3C
Outfall 001 DO	8.06 #8
Outfall 001 pH	7.87
Raw pH	7.69
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 3/22/11 Time: 1326	Received For Laboratory By (Signature): Gustavo Sabillon	Date: 3/22/11 Time: 1326

pH Meter #1 Calibration

Time	Slope	Buffers
03:34	57.3	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
03:34	24	8.42

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

163 - Cinco South

Copy 1 of 2

Site: 163
Cinco South

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

NOTE: ***IMPORTANT*** You must use the client's sample stick on-site to collect the effluent fecal samples!

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1062-3489	Digestor	03/22/11	10:55	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222D
18	1062-3476	Raw	03/22/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540D
19	1062-3477	Raw	03/22/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210B
20	1062-3478	Raw	03/22/11		GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-IC ASTM D6919-03
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

NOTES:

Sampler (Signature)	Relinquished By (Signature)	Received By (Signature)	
Print Name: Angel Rodriguez	Relinquished By (Signature)	Received By (Signature)	
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature) Date: 3/22/11 Time: 1326	Received For Laboratory By (Signature) Gustavo Sabillon Date: 3/22/11 Time: 1326	

pH Meter #1 Calibration

Time	Slope	Buffers
09:34	57.3	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
09:34	24	8.42

99902

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

Cinco South - ST Environmental

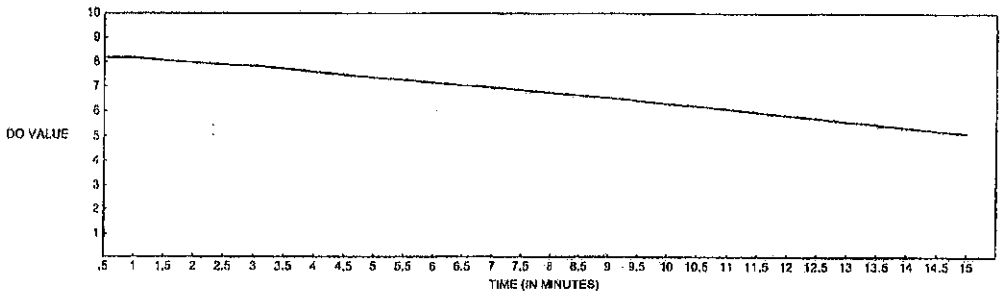
CLASS B

Report #214242 | Report Generated 03/24/2011 08:17

Site: ST 163

Analysis performed on sludge sample collected 03/22/2011 10:55 by Angel Rodriguez from the Digestor

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10623483	79,000	CFU/g TS	SM 9222 D	OD	03/22/2011 13:39
Fecal Coliform	Sample ID: 10623484	82,000	CFU/g TS	SM 9222 D	OD	03/22/2011 13:39
Fecal Coliform	Sample ID: 10623485	84,000	CFU/g TS	SM 9222 D	OD	03/22/2011 13:39
Fecal Coliform	Sample ID: 10623486	78,000	CFU/g TS	SM 9222 D	OD	03/22/2011 13:39
Fecal Coliform	Sample ID: 10623487	81,000	CFU/g TS	SM 9222 D	OD	03/22/2011 13:39
Fecal Coliform	Sample ID: 10623488	80,000	CFU/g TS	SM 9222 D	OD	03/22/2011 13:39
Fecal Coliform	Sample ID: 10623489	81,000	CFU/g TS	SM 9222 D	OD	03/22/2011 13:39
Fecal Coliform	Geometric Mean	8.1E+04	81,000	CFU/g TS		
Total Solids	Sample ID: 10623481	1.6	%	SM 2540 G	OD	03/22/2011 16:35
S.O.U.R. Test	Sample ID: 10623481	1.28	mg O2/hr/g TS	SM 2710 B	OD	03/21/2011 02:17



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

163 - Cinco South

Copy 1 of 2

Site: 163
Cinco South

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

NOTE: ***IMPORTANT*** You must use the client's sample stick on-site to collect the effluent fecal samples!

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserva	Hold	Requested Analysis & Remarks
1	1062-3470	Outfall 001 Sampler	03/22/11	0:55	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6919-03
2	1062-3471	Outfall 001 Sampler	03/22/11		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
3	1062-3472	Outfall 001 Sampler	03/22/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
4	1062-3479	Aeration #1	03/22/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
5	1062-3480	Aeration #2	03/22/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
6	1062-3473	After Lights	03/22/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
7	1062-3474	After Lights	03/22/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	6H	FC SM 9222 D
8	1062-3475	Before Lights	03/22/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	6H	FC SM 9222 D
9	1062-3481	Digestor	03/22/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 E
10	1062-3482	Digestor	03/22/11		GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/Ni-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-(If different than sampler) EPA 6010C SM 4500 SM 2540 G EPA 7471B EPA 9056 EPA 351.3
11	1062-3483	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
12	1062-3484	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
13	1062-3485	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
14	1062-3486	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
15	1062-3487	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
16	1062-3488	Digestor	03/22/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D

Field Analysis Time	10:55
Digestor Temperature	26.3C
Outfall 001 DO	8.04
Outfall 001 pH	7.87
Raw pH	7.69
Collected By (If different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date 3/22/11 Time 1036	Received For Laboratory By (Signature)	Date 3/22/11 Time 1036

pH Meter #1 Calibration

Time	Slope	Buffers
03:34	57.3	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
03:34	24	8.42

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Cinco Southwest WWTP
SAMPLE DATE: 01/25/11
SAMPLE TIME: 10:05
SAMPLED BY: AR

DATE RECEIVED: 01/25/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1060-2116
LAB FILE ID: 31911018

B.L.F.

PARAMETER	RESULT %	MAL* %	Method	Analyst Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	4.4	0.1	SM 2540 G	OD	02/01/11	< 0.1	1.9/1.9	~
TKN	2.82	0.01	SM 4500N C	OD	02/17/11	< 0.01	5.70/5.49	2.62/2.85
Ammonia-N	0.37	0.12	SM 4500NH3 C	OD	02/15/11	< 0.01	0.48/0.47	0.52/0.50
Nitrate-N	0.04	0.01	SM 418 E	OD	02/15/11	< 0.01	0.14/0.15	0.23/0.25
Phosphorus	1.18	0.01	EPA 6010C	MO	02/14/11	< 0.01	2.05/1.81	2.24/1.91
Potassium	0.29	0.01	EPA 6010C	MO	02/11/11	< 0.01	0.65/0.69	0.98/0.95

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	5.2	1.0	EPA 6010C	MO	02/10/11	< 1.0	6.9/6.8	92.3/95.3
Cadmium	0.5	0.5	EPA 6010C	MO	02/10/11	< 0.5	0.4/0.4	9.4/9.5
Chromium	25.6	1.0	EPA 6010C	MO	02/10/11	< 1.0	15.6/16.7	47.5/47.1
Copper	348	1.0	EPA 6010C	MO	02/14/11	< 1.0	337/294	1156/1049
Mercury	0.33	0.02	EPA 7471B	MO	02/10/11	< 0.02	1.35/1.30	1.88/1.85
Molybdenum	6.9	1.0	EPA 6010C	MO	02/11/11	< 1.0	8.1/6.8	50.1/47.7
Nickel	13.4	1.0	EPA 6010C	MO	02/10/11	< 1.0	15.8/16.7	49.3/47.1
Lead	12.0	1.0	EPA 6010C	MO	02/10/11	< 1.0	6.6/7.0	51.3/47.7
Selenium	<1.0	1.0	EPA 6010C	MO	02/10/11	< 1.0	4.1/4.7	96.3/95.3
Zinc	816	2.0	EPA 6010C	MO	02/14/11	< 2.0	372/332	1878/1955

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

162 - Cinco Southwest

Copy 2 of 2

Site: 162
Cinco Southwest

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

Digestor temp: 10.9°C

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-1390	Outfall 001 Sampler	01/25/11	10:05	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N SM 4500-NH3 D
2	1060-1391	Outfall 001 Sampler	01/25/11		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
3	1060-1392	Outfall 001 Sampler	01/25/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
4	1060-1398	Aeration #1	01/25/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
5	1060-1399	Aeration #2	01/25/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
6	1060-1400	Aeration #3	01/25/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4 too low - AR 1/25
7	1060-1393	After Lights	01/25/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
8	1060-1394	Before Lights	01/25/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
9	1060-1395	Raw	01/25/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D
10	1060-1396	Raw	01/25/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B
11	1060-1397	Raw	01/25/11		GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-N SM 4500-NH3 D
12		Digestor 2	1/25/11		GRAB	1000	Glass	Liquid			PCB 1060-2115
13		"	"		"	1000	"	"			BLF 1060-2116
14		"	"		"	1000	"	"			% Solids Sow/ F/C-CB 1060-2117 — 2125
15		"	"	✓	"	1gal.	HDPE	"			TCLP 1060-2126
16											

Field Analysis Time	10.05
Outfall 001 DO	7.64 #1
Outfall 001 pH	7.45
Raw pH	7.19
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel R	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: NWDLS	Relinquished To Laboratory By (Signature)	Date: 1/25/11 Time: 3:24	Received For Laboratory By (Signature): Allan Rivas	Date: 1/25/11 Time: 3:24

pH Meter #1 Calibration

Time	Slope	Buffers
02:47	57	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:47	23	8.58

9878z

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

Cinco Southwest - ST Environmental

CLASS B

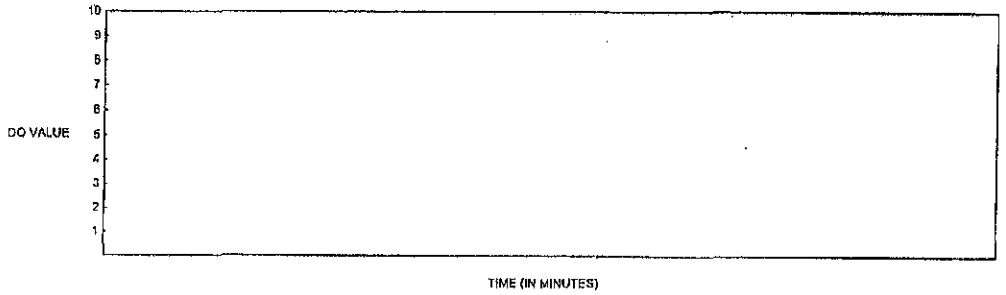
Report #210879

Report Generated 01/31/2011 10:44

Site: ST 162

Analysis performed on sludge sample collected 01/25/2011 10:05 by Angel Rodriguez from the Digestor #2

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10602118	21,000	CFU/g TS	SM 9222 D	OD	01/25/2011 14:37
Fecal Coliform	Sample ID: 10602119	21,000	CFU/g TS	SM 9222 D	OD	01/25/2011 14:37
Fecal Coliform	Sample ID: 10602120	22,000	CFU/g TS	SM 9222 D	OD	01/25/2011 14:37
Fecal Collform	Sample ID: 10602121	22,000	CFU/g TS	SM 9222 D	OD	01/25/2011 14:37
Fecal Coliform	Sample ID: 10602122	19,000	CFU/g TS	SM 9222 D	OD	01/25/2011 14:37
Fecal Coliform	Sample ID: 10602123	22,000	CFU/g TS	SM 9222 D	OD	01/25/2011 14:37
Fecal Coliform	Sample ID: 10602124	21,000	CFU/g TS	SM 9222 D	OD	01/25/2011 14:37
Fecal Coliform	Geometric Mean	2.1E+04	21,000	CFU/g TS		
Total Solids	Sample ID: 10602117	4.5	%	SM 2540 G	OD	01/25/2011 17:35
S.O.U.R. Test	Sample ID: 10602117	0.13	mg O2/hr/g TS	SM 2710 B	OD	01/25/2011 16:30



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

162 - Cinco Southwest

Copy 2 of 2

Site: 162
Cinco Southwest

Customer: ST
ST Environmental
16337 Park Row, Ste 110
Houston, Texas 77084

Digestor temp: 10.9°C

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-1390	Outfall 001 Sampler	01/25/11	10:05	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N SM 4500-NH3 D
2	1060-1391	Outfall 001 Sampler	01/25/11		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
3	1060-1392	Outfall 001 Sampler	01/25/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
4	1060-1398	Aeration #1	01/25/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
5	1060-1399	Aeration #2	01/25/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
6	~~1060-1400~~	~~Aeration #3~~	~~01/25/11~~		~~GRAB~~	~~250mL~~	~~Glass~~	~~Liquid~~	~~4°C~~	~~7D~~	~~MLSS/VSS SM 2540 D EPA 160.4~~ too low - AL 1/25
7	1060-1393	After Lights	01/25/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
8	1060-1394	Before Lights	01/25/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
9	1060-1395	Raw	01/25/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D
10	1060-1396	Raw	01/25/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B
11	1060-1397	Raw	01/25/11		GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-N SM 4500-NH3 D
12		Digestor 2	1/25/11		GRAB	1000	Glass	Liquid			PCB 1060-2115
13		"	"		"	1000	"	"			BLF 1060-2116
14		"	"		"	1000	"	"			% Solids Sow / f/c - CB 1060-2117 - 2125
15		"	"	✓	"	1gal.	HDPE	"			TCLP 1060-2126
16											

Field Analysis Time	10.05
Outfall 001 DO	7.64 #1
Outfall 001 pH	7.43
Raw pH	7.19
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel R.	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: NWDLS	Relinquished To Laboratory By (Signature)	Date: 1/25/11 Time: 3:24	Received For Laboratory By (Signature): Alan Rivas	Date: 1/25/11 Time: 3:24

pH Meter #1 Calibration

Time	Slope	Buffers
02:47	57	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:47	23	8.58

ENVIRODYNE LABORATORIES, INC.

CLIENT: DURKEE MANOR LAB NUMBER: AC59644A

DATE COLLECTED: 19-Apr-11 DATE RECEIVED: 19-Apr-11

DATE COMPLETED: 12-May-11 SAMPLED BY: MB
DATE ANALYZED: 12-May-11

(*) DENOTES: DRY WEIGHT BASIS

LOCATION:	DIGESTER @ 1545	METHOD	SLUDGE LIMITS Clean / Ceiling (mg/kg)	MDL (mg/l)
PARAMETERS:				
pH (UNITS)	6.80	9045	> 6.00	
TOT.NITROGEN-N * (%)	0.12	SM 4500-NH3 F	N.A.	0.01
NO3-N * (%)	0.01	SM 4500-NO3 E	N.A	0.01
NH3-N * (%)	0.10	SM 4500-NH3 F	N.A.	0.01
PHOSPHORUS PENTOXIDE * (%)	0.04	SM 4500-P E	N.A	0.01
POTASSIUM * (%)	<0.01	6020	N.A	0.002
ARSENIC * (mg/kg)	<10.14	6020	< 41 / < 75	0.001
CADMIUM * (mg/kg)	<10.14	6020	< 39 / < 85	0.001
COPPER * (mg/kg)	679.19	6020	< 1,500 / < 4,300	0.002
MOLYBDENUM * (mg/kg)	<10.14	6020	< 18 / < 75	0.001
NICKEL * (mg/kg)	81.10	6020	< 420 / < 420	0.008
LEAD * (mg/kg)	40.55	6020	< 300 / < 840	0.005
CHROMIUM * (mg/kg)	20.27	6020	< 1,200 / < 3,000	0.005
MERCURY * (mg/kg)	<2.03	7471	< 17 / < 57	0.0002
SELENIUM * (mg/kg)	<10.14	6020	< 36 / < 100	0.002
ZINC * (mg/kg)	1,033.98	6020	< 2,800 / < 7,500	0.001
PCB's (mg/kg)	< 1.0	8080	< 2 / 10	0.001
TOTAL SOLIDS (%)	0.89	SM 2540 B	N.A.	
VOLATILE SOLIDS (%)	0.62		N.A	
Org.CONC. (%)	69.70		N.A.	

Lab Representative

Ref. SW-846
*EPA CHEMICAL ANALYSIS
Qual: Analyzed by NELAC certified lab T104704231-10

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

CERTIFICATE OF ANALYSIS

CLIENT:	**DURKEE MANOR**	LAB NUMBER:	AC59644B
DATE COLLECTED:	19-Apr-11	DATE RECEIVED:	19-Apr-11
DATE COMPLETED:	12-May-11	SAMPLED BY:	MB

SAMPLE TYPE: **Processes to Significantly Reduce Pathogens (PSRP)**

LOCATION:	DIGESTER @ 1545	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.)	1.30	1.5 mgO2/gram/Hr.
Sludge Characteristics		
Total Solids (%)	0.89	N/A
Volatile Solids (%)	0.62	N/A
Organic Conc. (%)	69.7	
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.

CERTIFIED BY

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

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7680 - Fax (281)568-8004

ACCREDITED IN ACCORDANCE WITH
TCEQ Certification # T104704265-08-TX

E A019988

Page 1 Of 1

Analysis Request and Chain of Custody Record

Name: Nitsch & Son
Address: 8131 Northline Dr
City: Houston, TX 77037
Contact: Glen Nitsch
Phone:
Fax:

Project No.
Client/Project: Durkee Manor

	Field Sample No./ Identification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
11-019227	Effluent AC59634	4-19-11 1530	/		1 G - P	Liquid	ICE	CBOED, TSS, PH, DO	7.2	6.9	24	1530
			/		500 ml - P	Liquid	ICE,H2SO4	NH3N				
								Fecal				
11-019228	S. Influent AC59640	4-19-11 1535			[redacted]	[redacted]	ICE	[redacted] TSS, VSS, ORG.CONC., PH	7.4		25	1534
						Liquid	ICE,H2SO4	NH3N				
11-019229	N. Influent AC59641	4-19-11 1542	/		1 L - P	Liquid	ICE	CBOD, TSS, VSS, ORG.CONC., PH	7.4		25	1541
			/		500 ml - P	Liquid	ICE,H2SO4	NH3N				
11-219226	S. Aeration AC59642	4-19-11 1534	/		500 ml - P	Sludge	ICE	PH, TSS, VSS, ORG.CONC.	6.8		25	1536
11-219227	N. Aeration AC59643	4-19-11 1542	/		500 ml - P	Sludge	ICE	PH, TSS, VSS, ORG.CONC.	6.8			1543
11-219228	N-S Digester AC59644	4-19-11 1545	/		500 ml - P	Sludge	ICE	PH, TS, VS, ORG.CONC. BOE, PSRP, TRP	6.8			1544

Samplers: (Signature)	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
	Relinquished by: (Signature)	Date: 4-19-11 Time: 1645	[redacted]	Date: Time:	Seal Intact?

Remarks:
Rd 4/18/2011

FLOW:
Meter Reading:
Cl_2 Residual:
Na Correction:
Cl_2 Corrected

Arrival Temp.

Site Representative:

Date:
Time:

[redacted]

Chaparral Laboratories, Inc.

Cert # T104704204-07-TX

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Site: Fondren Road STP
Location: Missouri City, TX

Sample Point: Digester

Sample Number: 80517
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 12/29/2010

Date/Time Collected: 12/14/2010 8:59
Collected By: Client
Sample Type: Grab

Test	Result	Units	Date	Initials	Bottle	Method
% Solids	2.1	%	12/15/10 13:05	DAM	-01	SM 2540 G
Arsenic	<0.25	mg/kg	12/17/10 8:32	JZZ	-01	EPA 7010
Cadmium	<1.3	mg/kg	12/16/10 8:28	JZZ	-01	EPA 7000B
Chromium	34.1	mg/kg	12/16/10 13:42	JZZ	-01	EPA 7000B
Copper	310.0	mg/kg	12/16/10 8:51	JZZ	-01	EPA 7000B
Lead	51.3	mg/kg	12/16/10 10:18	JZZ	-01	EPA 7000B
Mercury	0.52	mg/kg	12/15/10 12:32	JZZ	-01	EPA 7471A
Molybdenum	11.2	mg/kg	12/17/10 13:15	JZZ	-01	EPA 7010
Nickel	17.0	mg/kg	12/16/10 9:32	JZZ	-01	EPA 7000B
Selenium	1.1	mg/kg	12/17/10 10:21	JZZ	-01	EPA 7010
Zinc	996.0	mg/kg	12/16/10 10:56	JZZ	-01	EPA 7000B
Ammonia Nitrogen	0.19	%	12/21/10 9:29	JCG	-01	EPA 350.2
NO3N+NO2N	0.03	%	12/21/10 7:45	JZZ	-01	EPA 353.2
Total Kjeldahl Nitrogen	2.7	%	12/17/10 7:45	JCG	-01	(SM4500-NH3C)
Total Phosphorus	2.1	%	12/20/10 7:31	JCG	-01	EPA 365.2
Total Potassium	0.32	%	12/16/10 12:35	JZZ	-01	EPA 7000B
Oxygen Uptake Rate	0.56	mg/g/h	12/15/10 12:16	JCG	-01	(SM 2710 B)

() Non-NELAC Accredited Analyte

QA ID	Test	Test Date	Type of QA	Result
30263	Arsenic	12/17/2010	Blank: Method	<0.15
			Matrix Spike Recovery	89.3
			Matrix Spike RPD	3.3
			RPD	0.0
			Standard: Method	99.0
30264	Selenium	12/17/2010	Blank: Method	<0.15
			Matrix Spike Recovery	95.2
			Matrix Spike RPD	1.5

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Number: 80517
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 1/3/2011

			RPD	5.6
			Standard: Method	109.3
30265	Molybdenum	12/17/2010	Blank: Method	<0.15
			Matrix Spike Recovery	106.8
			Matrix Spike RPD	19.6
			RPD	0.9
			Standard: Method	102.3
30266	Mercury	12/15/2010	Blank: Method	<0.005
			Matrix Spike Recovery	101.8
			Matrix Spike RPD	9.4
			RPD	0.6
			Standard: Method	107.0
30267	Cadmium	12/16/2010	Blank: Method	<0.5
			Matrix Spike Recovery	100.2
			Matrix Spike RPD	0.4
			RPD	0.0
			Standard: Method	97.3
30268	Chromium	12/16/2010	Blank: Method	<2.5
			Matrix Spike Recovery	91.9
			Matrix Spike RPD	0.5
			RPD	1.7
			Standard: Method	93.3
30269	Copper	12/16/2010	Blank: Method	<1.2
			Matrix Spike Recovery	101.0
			Matrix Spike RPD	3.3
			RPD	0.6
			Standard: Method	99.7
30270	Lead	12/16/2010	Blank: Method	<1.2
			Matrix Spike Recovery	96.4
			Matrix Spike RPD	1.9
			RPD	0.8
			Standard: Method	102.5

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Number: 80517
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 1/3/2011

30271	Nickel	12/16/2010	Blank: Method	<1.2
			Matrix Spike Recovery	104.8
			Matrix Spike RPD	4.1
			RPD	0.6
			Standard: Method	100.9
30272	Zinc	12/16/2010	Blank: Method	<0.25
			Matrix Spike Recovery	102.7
			Matrix Spike RPD	7.2
			RPD	1.0
			Standard: Method	104.4
30273	Total Potassium	12/16/2010	Blank: Method	<0.0001
			Matrix Spike Recovery	92.1
			Matrix Spike RPD	0.8
			RPD	1.6
			Standard: Method	103.8
30311	Oxygen Uptake Rate	12/15/2010	Blank: Method	<0.1
			RPD	0.0
30400	% Solids	12/15/2010	Blank: Method	<5.0
			RPD	0.0
			Standard: Method	99.0
30455	Total Phosphorus	12/20/2010	Blank: Method	<0.003
			Matrix Spike Recovery	98.5
			Matrix Spike RPD	5.1
			RPD	1.4
			Standard: Method	103.8
30456	NO3N+NO2N	12/21/2010	Blank: Method	<0.0001
			Matrix Spike Recovery	94.8
			Matrix Spike RPD	0.2
			RPD	1.0
			Standard: Method	100.0
30458	Ammonia Nitrogen	12/21/2010	Blank: Method	<0.002

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Number: 80517
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 1/3/2011

			Matrix Spike Recovery	106.3
			Matrix Spike RPD	5.4
			RPD	0.1
			Standard: Method	95.9
30459	Total Kjeldahl Nitrogen	12/17/2010	Blank: Method	<0.001
			Matrix Spike Recovery	95.0
			Matrix Spike RPD	5.3
			RPD	0.0
			Standard: Method	85.6

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This complete data package consists of 4 page(s) for the Certificate of Analysis and 1 page(s) for the Chain of Custody.

Approved By David H. Veinotte, Director: _____

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Site: Fondren Road STP
Location: Missouri City, TX

Sample Point: Digester

Sample Number: 80518
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 12/22/2010

Date/Time Collected: 12/14/2010 09:09
Collected By: Client
Sample Type: Grab

Test	Result	Units	Date	Initials	Bottle	Method
Fecal Coliform	39896	CFU/g/TS	12/15/10 07:30	TLP	-01	SM 9222 D
Fecal Coliform	53871	CFU/g/TS	12/15/10 07:30	TLP	-02	SM 9222 D
Fecal Coliform	59849	CFU/g/TS	12/15/10 07:30	TLP	-03	SM 9222 D
Fecal Coliform	41438	CFU/g/TS	12/15/10 07:30	TLP	-04	SM 9222 D
Fecal Coliform	32562	CFU/g/TS	12/15/10 07:30	TLP	-05	SM 9222 D
Fecal Coliform	44289	CFU/g/TS	12/15/10 07:30	TLP	-06	SM 9222 D
Fecal Coliform	32433	CFU/g/TS	12/15/10 07:30	TLP	-07	SM 9222 D

Fecal Coliform Geometric Mean = 42,472

QA ID	Test	Test Date	Type of QA	Result
30319	Fecal Coliform	12/15/2010	Blank: Method	<1
			RPD	22.2

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Site: Fondren Road STP
Location: Missouri City, TX

Sample Point: Digester

Sample Number: 80519
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 12/15/2010

Date/Time Collected: 12/14/2010 09:04
Collected By: Client
Sample Type: Grab

Test	Result	Units	Date	Initials	Bottle	Method
TCLP	CA			PA	-01	
PCB's	CA			PA	-03	

PA analyses are by Pace Analytical.

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This complete data package consists of 1 page(s) for the Certificate of Analysis and 1 page(s) for the Chain of Custody.

Approved By David H. Veinotte, Director:

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Chain of Custody Record

Cert# T104704204-07-TX

CLI-274	Client	Report To (Same as Client ■)	Invoice Info (Same as Client ☐)	COC Page 1 of 1	Collection Code
Name	Quail Valley Utility Dist.		Quail Valley Utility District	Project	A
Attn:	Stan Zylik		Anita Burgoon	PO #	
Address	3134 Cartwright		3134 Cartwright	Sampler: Client	Project Approval: Cleo
City, State, Zip	Missouri City, TX. 77459-2599		Missouri City, TX. 77459-2599		
Phone #	281-657-5349				
Fax #	281-261-4507				
E-Mail	szylik@verizon.net				

Sample Type	Matrix Code	Bottle Code	Preservatives
Grab	B = Biosolids	G = Glass	1 = ice °C
3 pt. Comp.	D = Drinking Water	GA = Glass Amber	2 = H2SO4
6 pt. Comp.	S = Soil	P = Plastic	3 = HNO3
24 Hr. Comp.	W = Wastewater	V = VOA	4 = NaOH
	SW = Stormwater	W = Thiosulfate	5 = HCl
			6 = Na2S2O3
			7 = On-Site Analysis
			8 = Other

Lab Use Only Sample #	Bottle #	Sample Site	Collection Point	Sample Type	Matrix	Date	Time	Flow mgd	Bottle Code	Vol mls	Pres Code	Analysis
80517	01	HC WCID Fondren Road	DK	Grab	B	12/4/10	859		P	1000	1	Land Application, SOUR
80518	01	HC WCID Fondren Road	DK	Grab	B	12/4/10	905		W	100	1	Fecal
	02	HC WCID Fondren Road	DK	Grab	B	12/4/10	905		W	100	1	Fecal
	03	HC WCID Fondren Road	DK	Grab	B	12/4/10	905		W	100	1	Fecal
	04	HC WCID Fondren Road	DK	Grab	B	12/4/10	907		W	100	1	Fecal
	05	HC WCID Fondren Road	DK	Grab	B	12/4/10	907		W	100	1	Fecal
	06	HC WCID Fondren Road	DK	Grab	B	12/4/10	908		W	100	1	Fecal
	07	HC WCID Fondren Road	DK	Grab	B	12/4/10	909		W	100	1	Fecal
80519	01	HC WCID Fondren Road	DK	Grab	B	12/4/10	910		GA	1000	1	TCLP
	02	HC WCID Fondren Road	DK	Grab	B	12/4/10	920		GA	1000	1	TCLP (Extra Volume Only)
	03	HC WCID Fondren Road	DK	Grab	B	12/4/10	901		GA	500	1	PCB
	04	HC WCID Fondren Road	DK	Grab	B	12/4/10	901		GA	500	1	PCB (Extra Volume Only)

Sample Conditions as Received from Client	Relinquished by:	Date	Time	Received by:	Date	Time
Samples intact: Y N NA	[signature]	12/4/10		[signature]	12-14-10	1310
Received on Ice: Y N NA or Temperature ____ °C	[signature]	12-14-10	1555	[signature]	12-14-10	1555
Sample Conditions as Received by Lab						
Samples intact: Y N NA						
Received on Ice: Y N NA Cooler ID # 7L						

Notes:

Chaparral Laboratories, Inc.

Cert# T104704204-07-TX

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Site: Fort Bend # 26
Location: Missouri City, TX

Sample Point: Digester

Sample Number: 80523
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 12/29/2010

Date/Time Collected: 12/14/2010 10:06
Collected By: Client
Sample Type: Grab

Test	Result	Units	Date	Initials	Bottle	Method
% Solids	1.8	%	12/15/10 13:05	DAM	-01	SM 2540 G
Arsenic	<0.29	mg/kg	12/17/10 8:32	JZZ	-01	EPA 7010
Cadmium	<1.4	mg/kg	12/16/10 8:28	JZZ	-01	EPA 7000B
Chromium	20.0	mg/kg	12/16/10 13:42	JZZ	-01	EPA 7000B
Copper	304.0	mg/kg	12/16/10 8:51	JZZ	-01	EPA 7000B
Lead	23.0	mg/kg	12/16/10 10:18	JZZ	-01	EPA 7000B
Mercury	1.1	mg/kg	12/15/10 12:32	JZZ	-01	EPA 7471A
Molybdenum	8.9	mg/kg	12/17/10 13:15	JZZ	-01	EPA 7010
Nickel	14.5	mg/kg	12/16/10 9:32	JZZ	-01	EPA 7000B
Selenium	0.40	mg/kg	12/17/10 10:21	JZZ	-01	EPA 7010
Zinc	518.0	mg/kg	12/16/10 10:56	JZZ	-01	EPA 7000B
Ammonia Nitrogen	0.84	%	12/21/10 9:29	JCG	-01	EPA 350.2
NO3N+NO2N	0.43	%	12/21/10 7:45	JZZ	-01	EPA 353.2
Total Kjeldahl Nitrogen	2.8	%	12/17/10 7:45	JCG	-01	(SM4500-NH3C)
Total Phosphorus	1.9	%	12/20/10 7:31	JCG	-01	EPA 365.2
Total Potassium	0.43	%	12/16/10 12:35	JZZ	-01	EPA 7000B
Oxygen Uptake Rate	0.79	mg/g/h	12/15/10 12:16	JCG	-01	(SM 2710 B)

() Non-NELAC Accredited Analyte

QA ID	Test	Test Date	Type of QA	Result
30263	Arsenic	12/17/2010	Blank: Method	<0.15
			Matrix Spike Recovery	89.3
			Matrix Spike RPD	3.3
			RPD	0.0
			Standard: Method	99.0
30264	Selenium	12/17/2010	Blank: Method	<0.15
			Matrix Spike Recovery	95.2
			Matrix Spike RPD	1.5

Chaparral Laboratories, Inc.

Cert # T104704204-07-TX

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

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX, 77459-2599

Sample Number: 80523
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 1/3/2011

			RPD	5.6
			Standard: Method	109.3
30265	Molybdenum	12/17/2010	Blank: Method	<0.15
			Matrix Spike Recovery	106.8
			Matrix Spike RPD	19.6
			RPD	0.9
			Standard: Method	102.3
30266	Mercury	12/15/2010	Blank: Method	<0.005
			Matrix Spike Recovery	101.8
			Matrix Spike RPD	9.4
			RPD	0.6
			Standard: Method	107.0
30267	Cadmium	12/16/2010	Blank: Method	<0.5
			Matrix Spike Recovery	100.2
			Matrix Spike RPD	0.4
			RPD	0.0
			Standard: Method	97.3
30268	Chromium	12/16/2010	Blank: Method	<2.5
			Matrix Spike Recovery	91.9
			Matrix Spike RPD	0.5
			RPD	1.7
			Standard: Method	93.3
30269	Copper	12/16/2010	Blank: Method	<1.2
			Matrix Spike Recovery	101.0
			Matrix Spike RPD	3.3
			RPD	0.6
			Standard: Method	99.7
30270	Lead	12/16/2010	Blank: Method	<1.2
			Matrix Spike Recovery	96.4
			Matrix Spike RPD	1.9
			RPD	0.8
			Standard: Method	102.5

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Number: 80523
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 1/3/2011

30271	Nickel	12/16/2010	Blank: Method	<1.2
			Matrix Spike Recovery	104.8
			Matrix Spike RPD	4.1
			RPD	0.6
			Standard: Method	100.9
30272	Zinc	12/16/2010	Blank: Method	<0.25
			Matrix Spike Recovery	102.7
			Matrix Spike RPD	7.2
			RPD	1.0
			Standard: Method	104.4
30273	Total Potassium	12/16/2010	Blank: Method	<0.0001
			Matrix Spike Recovery	92.1
			Matrix Spike RPD	0.8
			RPD	1.6
			Standard: Method	103.8
30311	Oxygen Uptake Rate	12/15/2010	Blank: Method	<0.1
			RPD	0.0
30401	% Solids	12/15/2010	Blank: Method	<5.0
			RPD	0.0
			Standard: Method	98.8
30455	Total Phosphorus	12/20/2010	Blank: Method	<0.003
			Matrix Spike Recovery	98.5
			Matrix Spike RPD	5.1
			RPD	1.4
			Standard: Method	103.8
30456	NO3N+NO2N	12/21/2010	Blank: Method	<0.0001
			Matrix Spike Recovery	94.8
			Matrix Spike RPD	0.2
			RPD	1.0
			Standard: Method	100.0
30458	Ammonia Nitrogen	12/21/2010	Blank: Method	<0.002

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Cert # T104704204-07-TX

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX, 77459-2599

Sample Number: 80523
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 1/3/2011

			Matrix Spike Recovery	106.3
			Matrix Spike RPD	5.4
			RPD	0.1
			Standard: Method	95.9
30459	Total Kjeldahl Nitrogen	12/17/2010	Blank: Method	<0.001
			Matrix Spike Recovery	95.0
			Matrix Spike RPD	5.3
			RPD	0.0
			Standard: Method	85.6

The analytical results in this Certificate of Analysis relate only to the sample tested. This Certificate of Analysis with its corresponding chain of custody completes the data package. This data package may not be reproduced except in full without the written approval of Chaparral Laboratories, Inc. Unless stated otherwise, all test results meet the requirements of NELAC. (<) Sample was below quantitation limits. (>) Sample was above quantitation limits. Samples for Oxygen Uptake Rate analysis are diluted to <2% total solids for analysis. Results reported as mg/kg, %, or CFU/g/TS are calculated on a dry weight basis unless otherwise noted.

This complete data package consists of 4 page(s) for the Certificate of Analysis and 1 page(s) for the Chain of Custody.

Approved By David H. Veinotte, Director:

Chaparral Laboratories, Inc.

Cert # T104704204-07-TX

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Site: Fort Bend # 26
Location: Missouri City, TX

Sample Point: Digester

Sample Number: 80524
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 12/22/2010

Date/Time Collected: 12/14/2010 10:08
Collected By: Client
Sample Type: Grab

Test	Result	Units	Date	Initials	Bottle	Method
Fecal Coliform	1154385	CFU/g/TS	12/15/10 07:30	TLP	-01	SM 9222 D
Fecal Coliform	1234010	CFU/g/TS	12/15/10 07:30	TLP	-02	SM 9222 D
Fecal Coliform	1197414	CFU/g/TS	12/15/10 07:30	TLP	-03	SM 9222 D
Fecal Coliform	1214301	CFU/g/TS	12/15/10 07:30	TLP	-04	SM 9222 D
Fecal Coliform	1232590	CFU/g/TS	12/15/10 07:30	TLP	-05	SM 9222 D
Fecal Coliform	1193317	CFU/g/TS	12/15/10 07:30	TLP	-06	SM 9222 D
Fecal Coliform	1250701	CFU/g/TS	12/15/10 07:30	TLP	-07	SM 9222 D

Fecal Coliform Geometric Mean = 1,210,585

QA ID	Test	Test Date	Type of QA	Result
30318	Fecal Coliform	12/15/2010	Blank: Method	<1
			RPD	5.6

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Approved By David H. Veinotte, Director:

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Certificate of Analysis

Quail Valley Utility Dist.
Attn: Stan Zylik
3134 Cartwright
Missouri City, TX. 77459-2599

Sample Site: Fort Bend # 26
Location: Missouri City, TX

Sample Point: Digester

Sample Number: 80525
Client Number: 5626
Date Received: 12/15/2010
Date Reported: 12/15/2010

Date/Time Collected: 12/14/2010 10:08
Collected By: Client
Sample Type: Grab

Test	Result	Units	Date	Initials	Bottle	Method
TCLP	CA			PA	-01	
PCB's	CA			PA	-03	

PA analyses are by Pace Analytical.

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This complete data package consists of 1 page(s) for the Certificate of Analysis and 1 page(s) for the Chain of Custody

Approved By David H. Veinotte, Director:

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Cert# T104704204-07-TX

Chain of Custody Record

QA-274	Client	Report To (Same as Client ■)	Invoice Info (Same as Client ☐)
Name	Quail Valley Utility Dist.		Quail Valley Utility District
Attn:	Stan Zylik		Anita Burgoon
Address	3134 Cartwright		3134 Cartwright
City, State, Zip	Missouri City, TX. 77459-2599		Missouri City, TX. 77459-2599
Phone #	281-657-5349		
Fax #	281-261-4507		
E-Mail	szylik@verizon.net		

COC Page 1 of 1

Project

PO #

Sampler: Client

Project Approval: Cleo

Collection Code: A

Sample Type	Matrix Code	Bottle Code	Preservatives
Grab	B = Biosolids	G = Glass	1 = Ice
1-gal Comp	D = Drinking Water	GA = Glass Amber	2 = H_2SO_4
4-gal Comp	S = Soil	P = Plastic	3 = HNO_3
24-Hr Comp	W = Wastewater	V = VOA	4 = NaOH
	SW = Stormwater	B = Thiosulfate	5 = HCl
			6 = $Na_2S_2O_3$
			7 = On-Site Analysis
			8 = Other

Lab Use Only Sample #	Bottle #	Sample Site	Collection Point	Sample Type	Matrix	Date	Time	Flow mgd	Bottle Code	Vol mls	Pres Code	Analysis
80523	01	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10	1006		P	1000	1	Land Application SOUR
80524	01	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10	1008		W	100	1	Fecal
	02	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			W	100	1	Fecal
	03	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			W	100	1	Fecal
	04	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			W	100	1	Fecal
	05	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			W	100	1	Fecal
	06	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			W	100	1	Fecal
	07	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			W	100	1	Fecal
80525	01	Fort Bend Co M U D #26	[illegible]	Grab	B	[illegible]	1008		GA	1000	1	TCLP
	02	Fort Bend Co M U D #26	[illegible]	Grab	B	[illegible]			GA	1000	1	TCLP (Extra Volume Only)
	03	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			GA	500	1	PCB
	04	Fort Bend Co M U D #26	[illegible]	Grab	B	12/14/10			GA	500	1	PCB (Extra Volume Only)

Sample Conditions as Received from Client
Samples intact: Y N NA
Received on Ice: Y N NA or Temperature ____ °C

Sample Conditions as Received by Lab
Samples intact: Y N NA
Received on Ice: Y N NA Cooler ID # 71

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	12/14/10		[signature]	12-14-10	1310
[signature]	12-14-10	1555			
				12-14-10	1555

Notes: Land App. time was taken from sample bottle. Client called in time of 1008 for Fecal samples
TCLP time was taken from sample bottle. PB 12-15-10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 600-29882-1

Job Description: Fry Road

For:
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Attention: Cyrus Dumas

Approved for release.
Jodi L Allen
Customer Service Manager
10/13/2010 10:23 AM

Designee for
STES Project Manager Jodi Allen
Project Manager I
jodi.allen@testamericainc.com
10/13/2010

cc: Mr. Ben Agee
Mr. Jim Wolfe

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.
TestAmerica Houston 6310 Rothway Street, Houston, TX 77040
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Client: Severn Trent Environmental Services

Job Number: 600-29882-1

Method Blank - Batch: 600-41470

Method: SM 2710B
Preparation: N/A

Lab Sample ID: MB 600-41470/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/05/2010 1444
Date Prepared: N/A

Analysis Batch: 600-41470
Prep Batch: N/A
Units: mg/g/hr

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 300 mL

Analyte	Result	Qual	RL
Specific Oxygen Uptake Rate	<0.10		0.10

Duplicate - Batch: 600-41470

Method: SM 2710B
Preparation: N/A

Lab Sample ID: 600-29882-6
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/05/2010 1444
Date Prepared: N/A

Analysis Batch: 600-41470
Prep Batch: N/A
Units: mg/g/hr

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 300 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Oxygen Uptake Rate	0.50	0.458	9	20	

Laboratory Analysis Report

Total Number of Pages: 6

Job ID : 10100110

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
600-29882 Fry Rd

Report To :	Client Name:	TestAmerica	P.O.#.: 600-29882
	Attn:	Allen,Jodi L	Sample Collected By:
	Client Address:	6310 Rothway	Date Collected: 10/05/10
	City, State, Zip:	Houston, Texas, 77040	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Effluent	Water	10100110.01

Shantall Carpenter

Released By: Shantall Carpenter
Title: Senior Project Manager
Date: 10/12/2010

This Laboratory is NELAP (T104704213-10-2) accredited. Effective: 07/01/2010; Expires: 06/30/2011
Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted.

Date Received : 10/05/2010 14:41

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-6**

Date Sampled: 05/19/2009 1015
Date Received: 05/19/2009 1205
Client Matrix: Solid
Percent Solids: 1

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 6010B			Date Analyzed:		06/03/2009 0950	
Prep Method: 3050B			Date Prepared:		06/02/2009 0955	
As	<34		mg/Kg	34	160	1.0
Cd	<4.0		mg/Kg	4.0	39	1.0
Cr	8.6	J	mg/Kg	7.9	78	1.0
Cu	47	J	mg/Kg	27	78	1.0
Mo	<21		mg/Kg	21	78	1.0
Ni	<18		mg/Kg	18	160	1.0
Pb	<16		mg/Kg	16	78	1.0
K	5000	J	mg/Kg	1700	16000	1.0
Se	<40		mg/Kg	40	310	1.0
Zn	300	B	mg/Kg	17	230	1.0
Method: 7471A			Date Analyzed:		05/21/2009 1347	
Prep Method: 7471A			Date Prepared:		05/21/2009 0750	
Mercury	1100	B	ug/Kg	16	480	1.0
Method: 350.1			Date Analyzed:		05/20/2009 1519	
Prep Method: Distill/Ammonia			Date Prepared:		05/20/2009 1330	
Ammonia	2800	J	mg/Kg	920	3200	1.0
Method: 351.2			Date Analyzed:		05/27/2009 1115	
Nitrogen, Kjeldahl	64000		mg/Kg	16000	32000	5.0
Method: Soluble-353.2			Date Analyzed:		05/21/2009 1305	
Nitrate Nitrite as N	15000		mg/Kg	50	800	10
Method: Soluble-8507			Date Analyzed:		05/20/2009 1615	
Nitrite as N	32		mg/Kg	1.7	16	1.0
Method: Soluble-Nitrate by calc			Date Analyzed:		05/22/2009 1308	
Nitrate as N	15000		mg/Kg	0.50	8.0	1.0
Method: SM 4500 P E			Date Analyzed:		05/20/2009 1700	
Prep Method: SM 4500 P B			Date Prepared:		05/20/2009 1130	
Phosphorus, Total	19000		mg/Kg	140	1600	2.0

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-9**

Date Sampled: 05/19/2009 1018
Date Received: 05/19/2009 1205
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		05/19/2009 1415	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		05/19/2009 1415	
Total Solids	6600	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		05/19/2009 1543	
Prep Method: SterileWatSusp		Date Prepared:		05/19/2009 1540	
Coliform, Fecal	<15000	CFU/g D.W.	15000	15000	1.0

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-10**

Date Sampled: 05/19/2009 1018
Date Received: 05/19/2009 1205
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		05/19/2009 1415	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		05/19/2009 1415	
Total Solids	6500	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		05/19/2009 1543	
Prep Method: SterileWatSusp		Date Prepared:		05/19/2009 1540	
Coliform, Fecal	<15000	CFU/g D.W.	15000	15000	1.0

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-11**

Date Sampled: 05/19/2009 1018
Date Received: 05/19/2009 1205
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		05/19/2009 1415	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		05/19/2009 1415	
Total Solids	6100	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		05/19/2009 1543	
Prep Method: SterileWatSusp		Date Prepared:		05/19/2009 1540	
Coliform, Fecal	<16000	CFU/g D.W.	16000	16000	1.0

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-12**

Date Sampled: 05/19/2009 1018
Date Received: 05/19/2009 1205
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		05/19/2009 1415	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		05/19/2009 1415	
Total Solids	5900	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		05/19/2009 1543	
Prep Method: SterileWatSusp		Date Prepared:		05/19/2009 1540	
Coliform, Fecal	<17000	CFU/g D.W.	17000	17000	1.0

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-13**

Date Sampled: 05/19/2009 1018
Date Received: 05/19/2009 1205
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		05/19/2009 1415	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		05/19/2009 1415	
Total Solids	6400	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		05/19/2009 1543	
Prep Method: SterileWatSusp		Date Prepared:		05/19/2009 1540	
Coliform, Fecal	<16000	CFU/g D.W.	16000	16000	1.0

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-14**

Date Sampled: 05/19/2009 1018
Date Received: 05/19/2009 1205
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		05/19/2009 1415	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		05/19/2009 1415	
Total Solids	6600	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		05/19/2009 1543	
Prep Method: SterileWatSusp		Date Prepared:		05/19/2009 1540	
Coliform, Fecal	<15000	CFU/g D.W.	15000	15000	1.0

Mr. Ben Agee
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-10708-1

Client Sample ID: **Digester**
Lab Sample ID: **600-10708-15**

Date Sampled: 05/19/2009 1018
Date Received: 05/19/2009 1205
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		05/19/2009 1415	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		05/19/2009 1415	
Total Solids	6300	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		05/19/2009 1543	
Prep Method: SterileWatSusp		Date Prepared:		05/19/2009 1540	
Coliform, Fecal	<16000	CFU/g D.W.	16000	16000	1.0

NWDLS North Water District Laboratory Services, Inc.
8725 Sawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

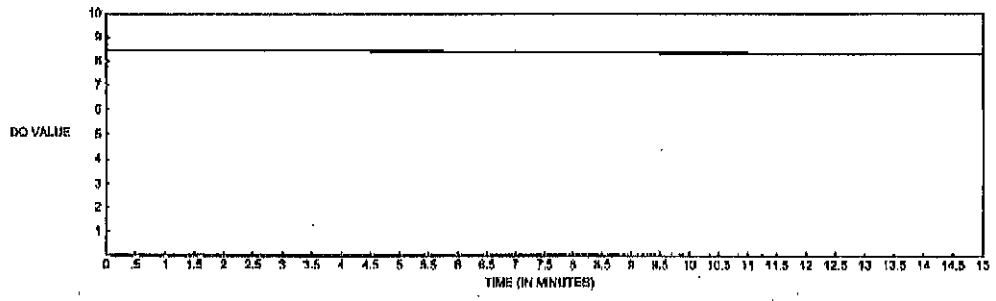
Aldine ISD - Grantham - Eagle Water Management

CLASS B

Report #178876 | Report Generated 03/03/2010 10:27 | Site: EW 405 |

Analysis performed on sludge sample collected 03/01/2010 11:50 by Jason Keasling from the Digestor

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10455103	2,300	CFU/g TS	SM 9222 D	OD	03/01/2010 16:35
Fecal Coliform	Sample ID: 10455104	1,600	CFU/g TS	SM 9222 D	OD	03/01/2010 16:35
Fecal Coliform	Sample ID: 10455105	780	CFU/g TS	SM 9222 D	OD	03/01/2010 16:35
Fecal Coliform	Sample ID: 10455106	780	CFU/g TS	SM 9222 D	OD	03/01/2010 16:35
Fecal Coliform	Sample ID: 10455107	780	CFU/g TS	SM 9222 D	OD	03/01/2010 16:35
Fecal Coliform	Sample ID: 10455108	780	CFU/g TS	SM 9222 D	OD	03/01/2010 16:35
Fecal Coliform	Sample ID: 10455109	1,600	CFU/g TS	SM 9222 D	OD	03/01/2010 16:35
Fecal Coliform	Geometric Mean	1,100	CFU/g TS			
Total Solids	Sample ID: 10455102	1.2	%	SM 2540 G	OD	03/01/2010 19:00
S.O.U.R. Test	Sample ID: 10455102	0.15	mg O2/hr/g TS	SM 2710 B	OD	03/01/2010 19:27



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
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CHAIN OF CUSTODY RECORD

405 - Aldine ISD - Grantham

Site: 405
Aldine ISD - Grantham

Customer: EW
Eagle Water Management
P.O. Box 11750
Spring, Texas 77391-1750

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1045-5099	Aeration	03/01/10	1150	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540D EPA 160.4
2	1045-5100	Digestor	03/01/10	"	GRAB	1000mL	HDPE	Solid		7D	As-S/BLF NB/LF NH3/BLF TKN/BLF TS/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/Na-S/P-S-ICP/Pb-S/Se-S/Zn-S EPA 6010C SM 4500 SM 4500-Hg-B SM 3500-Cr B EPA 7471B SM 4500-Hg C
3	1045-5101	Digestor	03/01/10	"	GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA 608
4	1045-5102	Digestor	03/01/10	"	GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 B
5	1045-5103	Digestor	03/01/10	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
6	1045-5104	Digestor	03/01/10	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
7	1045-5105	Digestor	03/01/10	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
8	1045-5106	Digestor	03/01/10	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
9	1045-5107	Digestor	03/01/10	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1045-5108	Digestor	03/01/10	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
11	1045-5109	Digestor	03/01/10	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
12	1045-5110	Outfall 001	03/01/10	"	GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N SM 4500-NH3 D
13	1045-5111	Outfall 001	03/01/10	"	GRAB	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210-B
14	1045-5112	Outfall 001	03/01/10	"	GRAB	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
15											
16											

Field Analysis Time	1150
Digestor Temperature	17°C
8 Outfall 001 DO	7.46
Outfall 001 Flow	3.0 Inches - 90° Weir
Outfall 001 pH	7.27
Collected By (if different than sampler)	

Sampler (Signature): Jason Keasling
Print Name: Jason Keasling
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date: — Time:
Relinquished By (Signature) — Date: — Time:
Relinquished To Laboratory By (Signature) — Date: 3-1-10 Time: 15:56

Received By (Signature) — Date: — Time:
Received By (Signature) — Date: — Time:
Received For Laboratory By (Signature) — Date: 3-1-10 Time: 15:56

pH Meter #4 Calibration

Time	Slope	Buffers
04:50	57.6	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
04:55	20	9.09

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Green trails

Client Sample ID: Digester
Lab Sample ID: 600-22281-2

Date Sampled: 03/24/2010 0810
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	14000	mg/L	10	10	1.0
Method: SM 2710B		Date Analyzed:		03/24/2010 1719	
Specific Oxygen Uptake Rate	0.20	mg/g/hr	0.10	0.10	1.0

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-3

Date Sampled: 03/24/2010 0812
Date Received: 03/24/2010 0918
Client Matrix: Solid
Percent Solids: 1

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 6010B			Date Analyzed:	04/07/2010 1008		
Prep Method: 3050B			Date Prepared:	04/06/2010 1140		
As	14		mg/Kg	1.6	7.5	1.0
Cd	0.62	J	mg/Kg	0.19	1.9	1.0
Cr	11		mg/Kg	0.38	3.8	1.0
Cu	930	^	mg/Kg	1.3	3.8	1.0
Mo	14		mg/Kg	1.0	3.8	1.0
Ni	12		mg/Kg	0.88	7.5	1.0
Pb	16		mg/Kg	0.79	3.8	1.0
K	4800	^	mg/Kg	83	750	1.0
Se	6.0	J	mg/Kg	1.9	15	1.0
Zn	850	^	mg/Kg	0.82	11	1.0
Method: 7471A			Date Analyzed:	03/25/2010 1238		
Prep Method: 7471A			Date Prepared:	03/25/2010 0655		
Mercury	1.0		mg/Kg	0.0075	0.22	1.0
Method: 350.1			Date Analyzed:	03/29/2010 1438		
Prep Method: Distill/Ammonia			Date Prepared:	03/29/2010 0930		
Ammonia	66		mg/Kg	5.7	20	1.0
Method: 351.2			Date Analyzed:	03/31/2010 1443		
Nitrogen, Kjeldahl	.0790 %		mg/Kg	98	200	5.0
Method: Soluble-353.2			Date Analyzed:	03/25/2010 1827		
Nitrate Nitrite as N	170		mg/Kg	0.77	12	25
Method: Soluble-8507			Date Analyzed:	03/24/2010 1600		
Nitrite as N	0.085		mg/Kg	0.0010	0.010	1.0
Method: Soluble-Nitrate by calc			Date Analyzed:	04/06/2010 1742		
Nitrate as N	170		mg/Kg	0.0031	0.050	1.0
Method: SM 4500 P E			Date Analyzed:	03/31/2010 1645		
Prep Method: SM 4500 P B			Date Prepared:	03/30/2010 1630		
Phosphorus, Total	280		mg/Kg	2.2	25	5.0

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-4

Date Sampled: 03/24/2010 0813
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		03/24/2010 1518	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	15000	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		03/24/2010 1400	
Prep Method: SterileWatSusp		Date Prepared:		03/24/2010 1145	
Coliform, Fecal	37000	CFU/g D.W.	6800	6800	1.0

$\overline{X}_g$: 18407.9998 = 18408 CFU/g Tsolids

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-5

Date Sampled: 03/24/2010 0813
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		03/24/2010 1518	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	14000	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		03/24/2010 1400	
Prep Method: SterileWatSusp		Date Prepared:		03/24/2010 1145	
Coliform, Fecal	89000	CFU/g D.W.	6500	6500	1.0

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-6

Date Sampled: 03/24/2010 0813
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		03/24/2010 1518	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	15000	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		03/24/2010 1400	
Prep Method: SterileWatSusp		Date Prepared:		03/24/2010 1145	
Coliform, Fecal	12000	CFU/g D.W.	6500	6500	1.0

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-7

Date Sampled: 03/24/2010 0813
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		03/24/2010 1518	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	15000	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		03/24/2010 1400	
Prep Method: SterileWatSusp		Date Prepared:		03/24/2010 1145	
Coliform, Fecal	59000	CFU/g D.W.	7200	7200	1.0

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-8

Date Sampled: 03/24/2010 0813
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		03/24/2010 1518	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	15000	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		03/24/2010 1400	
Prep Method: SterileWatSusp		Date Prepared:		03/24/2010 1145	
Coliform, Fecal	30000	CFU/g D.W.	6500	6500	1.0

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-9

Date Sampled: 03/24/2010 0813
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		03/24/2010 1518	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	15000	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		03/24/2010 1400	
Prep Method: SterileWatSusp		Date Prepared:		03/24/2010 1145	
Coliform, Fecal	32000	CFU/g D.W.	7000	7000	1.0

Cyrus Dumas
Severn Trent Environmental Services
16337 Park Road
Houston, TX 77084

Job Number: 600-22281-1

Client Sample ID: Digester
Lab Sample ID: 600-22281-10

Date Sampled: 03/24/2010 0813
Date Received: 03/24/2010 0918
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Moisture		Date Analyzed:		03/24/2010 1518	
Percent Moisture	99	%	1.0	1.0	1.0
Method: SM 2540G		Date Analyzed:		03/24/2010 1518	
Total Solids	14000	mg/L	10	10	1.0
Method: 9222D		Date Analyzed:		03/24/2010 1400	
Prep Method: SterileWatSusp		Date Prepared:		03/24/2010 1145	
Coliform, Fecal	32000	CFU/g D.W.	7100	7100	1.0

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

CLIENT: Municipal Operations
230 Spring Hill Dr. #325
Spring, Texas 77386
John Montgomery

Test Report

SAMPLE LOCATION:	HC MUD 36 WWTP	DATE RECEIVED:	08/10/11
SAMPLE DATE:	08/10/11	SAMPLE MATRIX:	Sludge
SAMPLE TIME:	13:05	SAMPLE ID:	1067-6852
SAMPLED BY:	JK	LAB FILE ID:	90911003

All Tests were Performed in Accordance with:

"Test Methods for Evaluating Solid Waste", SW-846, Third Edition, 1995.

Code of Federal Regulations, 40 CFR (7/1/95 Edition), Ch. 1, Pt. 261, App. 2, Method 1311.

PARAMETER	RESULT mg/kg	MAL mg/kg	SW-846 Method	Analyst Initials	Date of Analysis	Blank mg/kg	LCS % Recovery	LSD % Recovery
PCBs	<2.0	2.0	8082	JL	08/25/11	< 2.0	93.2*	99.2*

* PCB 1260

Derek McCoy
Technical Director

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION:	HC MUD 36 WWTP	DATE RECEIVED:	08/10/11
SAMPLE DATE:	08/10/11	SAMPLE MATRIX:	Sludge
SAMPLE TIME:	13:05	SAMPLE ID:	1067-6853
SAMPLED BY:	JK	LAB FILE ID:	90911003

MS - Matrix Spike MSD - Matrix Spike Dup

TCLP METALS	RESULT mg/L	LIMIT mg/L	EPA Method	Analyst Initials	Date of Analysis	Blank mg/L	Duplicate mg/L	Spike % Recovery
Arsenic	<0.01	5.0	6010C	MO	9/1/11	< 0.01	<0.01/<0.01	106.8
Barium	0.531	100	6010C	MO	9/1/11	< 0.01	0.091/0.091	110.0
Cadmium	< 0.01	1.0	6010C	MO	9/1/11	< 0.01	<0.01/<0.01	102.8
Chromium	<0.05	5.0	6010C	MO	9/1/11	< 0.01	<0.01/<0.01	102.8
Lead	<0.05	5.0	6010C	MO	9/1/11	< 0.01	<0.01/<0.01	104.0
Mercury	<0.002	0.2	7471B	ER	8/25/11	< 0.001	<0.001/<0.001	105.6
Selenium	0.01	1.0	6010C	MO	9/1/11	< 0.01	<0.01/<0.01	105.4
Silver	<0.05	5.0	6010C	MO	8/30/11	< 0.01	<0.01/<0.01	101.0
TCLP SEMI-VOLATILES	RESULT mg/L	LIMIT mg/L	EPA Method	Analyst Initials	Date of Analysis	Blank mg/L	MS % Recovery	MSD % Recovery
Pyridine	< 0.05	5.0	625	JM	08/24/11	< 0.05	15.9	16.0
O-Cresol	< 0.05	200	625	JM	08/24/11	< 0.05	53.7	54.5
M,P-Cresol	<0.01	200	625	JM	08/24/11	< 0.05	57.6	58.5
Hexachloroethane	< 0.01	3.0	625	JM	08/24/11	< 0.01	49.3	50.6
Nitrobenzene	< 0.01	2.0	625	JM	08/24/11	< 0.01	62.1	62.3
Hexachlorobutadiene	< 0.01	0.5	625	JM	08/24/11	< 0.01	54.9	55.2
2,4,5-Trichlorophenol	< 0.02	400	625	JM	08/24/11	< 0.02	88.6	88.9
2,4,6-Trichlorophenol	< 0.02	2.0	625	JM	08/24/11	< 0.02	87.9	88.2
2,4-Dinitrotoluene	< 0.01	0.13	625	JM	08/24/11	< 0.01	99.7	99.7
Hexachlorobenzene	< 0.01	0.13	625	JM	08/24/11	< 0.01	98.1	97.9
Pentachlorophenol	< 0.05	100	625	JM	08/24/11	< 0.05	60.6	59.7
TCLP VOLATILES								
Vinyl Chloride	< 0.005	0.2	624	JM	8/18/11	< 0.005	98.3	94.2
1,1-Dichloroethylene	< 0.005	0.7	624	JM	8/18/11	< 0.005	113.8	105.2
Methyl Ethyl Ketone	< 0.01	200	624	JM	8/18/11	< 0.01	107.4	115.9
Chloroform	< 0.005	6.0	624	JM	8/18/11	< 0.005	107.4	107.5
1,2-Dichloroethane	< 0.005	0.5	624	JM	8/18/11	< 0.005	105.7	110.3
Benzene	< 0.005	0.5	624	JM	8/18/11	< 0.005	104.5	104.6
Carbon Tetrachloride	< 0.005	0.5	624	JM	8/18/11	< 0.005	103.3	101.9
Trichloroethylene	< 0.005	0.5	624	JM	8/18/11	< 0.005	103.6	101.5
Tetrachloroethylene	< 0.005	0.7	624	JM	8/18/11	< 0.005	107.6	104.8
Chlorobenzene	< 0.005	100	624	JM	8/18/11	< 0.005	103.9	104.2
1,4-Dichlorobenzene	< 0.005	7.5	624	JM	8/18/11	< 0.005	101.4	103.6
TCLP PESTICIDES								
Chlordane	< 0.01	0.03	608	JL	9/9/11	< 0.01	89.1	91.5
Lindane	< 0.01	0.4	608	JL	9/9/11	< 0.01	99.8	105.5
Heptachlor	< 0.005	0.008	608	JL	9/9/11	< 0.005	63.5	68.3
Heptachlor Epoxide	< 0.005	0.008	608	JL	9/9/11	< 0.005	91.1	91.7
Endrin	< 0.01	0.02	608	JL	9/9/11	< 0.01	191.3	199.1
Methoxychlor	< 0.01	10	608	JL	9/9/11	< 0.01	240.2	230.5
Toxaphene	< 0.05	0.5	608	JL	9/9/11	< 0.05	123.8	111.1
TCLP HERBICIDES								
2,4-D	< 0.5	10	SM 6640B	JL	9/8/11	< 0.5	101.3	141.5
2,4,5-TP (Silvex)	< 0.5	1.0	SM 6640B	JL	9/8/11	< 0.5	122.2	133.7

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

HC MUD 36 - Municipal Operations and Consulting

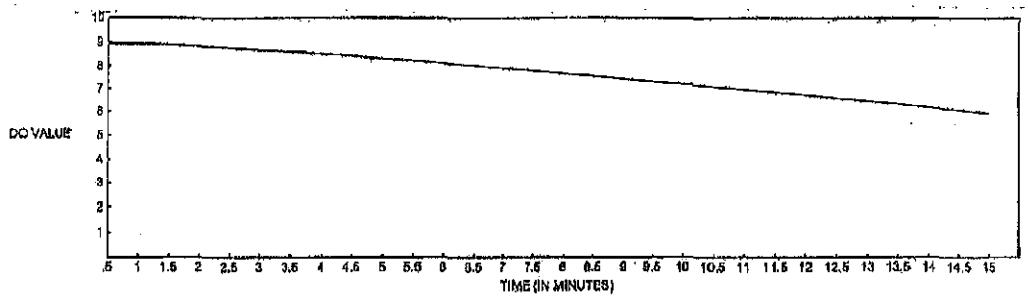
CLASS B

Report #232832 | Report Generated 02/13/2012 07:16

Site: MUN 167 |

Analysis performed on sludge sample received on 02/08/2012 16:17 collected by Jason Keasling from the Digester at 02/08/2012 14:15

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10746512	150,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 17:31
Fecal Coliform	Sample ID: 10746513	170,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 17:31
Fecal Coliform	Sample ID: 10746514	190,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 17:31
Fecal Coliform	Sample ID: 10746515	100,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 17:31
Fecal Coliform	Sample ID: 10746516	200,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 17:31
Fecal Coliform	Sample ID: 10746517	160,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 17:31
Fecal Coliform	Sample ID: 10746518	220,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 17:31
Fecal Coliform	Geometric Mean	1.6E+05	160,000	CFU/g TS		
Total Solids	Sample ID: 10746511	1.3	%	SM 2540 G	OD	02/08/2012 18:30
S.O.U.R. Test	Sample ID: 10746511	1.26	mg O2/hr/g TS	SM 2710 B	OD	02/08/2012 04:52



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
Technical Director

Pickup Date: 02/08/12

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

167 - HC MUD 36

Site: 167
HC MUD 36

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1074-3941	Outfall 001 Sampler	02/08/12	1000	24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
2	1074-3942	Outfall 001 Sampler	02/08/12		24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6919-03
3	1074-3943	Outfall 001 Sampler	02/08/12		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
4	1074-3945	Aeration	02/08/12	1415	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
5	1073-8903	Digester	02/08/12		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLPHerb/TCLPPest/TCLPSVOA EPA 8270 EPA 200.7 EPA 245.1 EPA 6151A EPA 8081
6	1073-8904	Digester	02/08/12		GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/Ni-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C-SM 4500E SM 2540 G EPA 7471B EPA 353.2 EPA 351.3
7	1073-8906	Digester	02/08/12		GRAB	1000mL	HDPE	Solid	4°C	7D	PCBC EPA 8082
8	1073-8907	Digester	02/08/12		GRAB	60mL	VOA VIAL	Sludge	4°C	14D	TCLP VOA EPA 624
9	1074-6511	Digester	02/08/12	14:15	GRAB	250mL	Glass	Sludge		24H	% Solids/SOUR/% Solids SM 2540 G SM 2710 B
10	1074-6512	Digester	02/08/12	14:15	GRAB	110mL	HDPE	Sludge		8H	FC-CB SM 9222 D
11	1074-6513	Digester	02/08/12	14:15	GRAB	110mL	HDPE	Sludge		8H	FC-CB SM 9222 D
12	1074-6514	Digester	02/08/12	14:15	GRAB	110mL	HDPE	Sludge		8H	FC-CB SM 9222 D
13	1074-6515	Digester	02/08/12	14:15	GRAB	110mL	HDPE	Sludge		8H	FC-CB SM 9222 D
14	1074-6516	Digester	02/08/12	14:15	GRAB	110mL	HDPE	Sludge		8H	FC-CB SM 9222 D
15	1074-6517	Digester	02/08/12	14:15	GRAB	110mL	HDPE	Sludge		8H	FC-CB SM 9222 D
16	1074-6518	Digester	02/08/12	14:15	GRAB	110mL	HDPE	Sludge		8H	FC-CB SM 9222 D

Field Analysis Time	1415
Digester Temperature	18.6°C
Outfall 001 DO	8.51
Outfall 001 pH	7.59
Collected By (if different than sampler)	

Sampler (Signature): Jason Keasling
Print Name: Jason Keasling
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date: — Time:
Relinquished By (Signature) — Date: — Time:
Relinquished To Laboratory By (Signature): Jason Keasling — Date: 2-8-12 — Time: 1617

Received By (Signature) — Date: — Time:
Received By (Signature) — Date: — Time:
Received For Laboratory By (Signature): Gustavo Sabill — Date: 2-8-12 — Time: 1617

pH Meter #9 Calibration

Time	Slope	Buffers
03:00	56.4	4:7:10

DO Meter #9 100% Air Calibration

Time	Temp °C	D.O.
03:05	19	9.28

Pickup Date: 02/08/12

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

167 - HC MUD 36

Site: 167
HC MUD 36

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1074-6519	Digester	02/08/12	14:15	GRAB						Temp SM 2550 B
18	1074-3944	Outfall 001	02/08/12		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B
19	1074-3946	Raw	02/08/12		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D
20	1074-3947	Raw	02/08/12		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B
21	1074-3948	Raw	02/08/12		GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-IC ASTM D6919-03
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(if different than sampler)

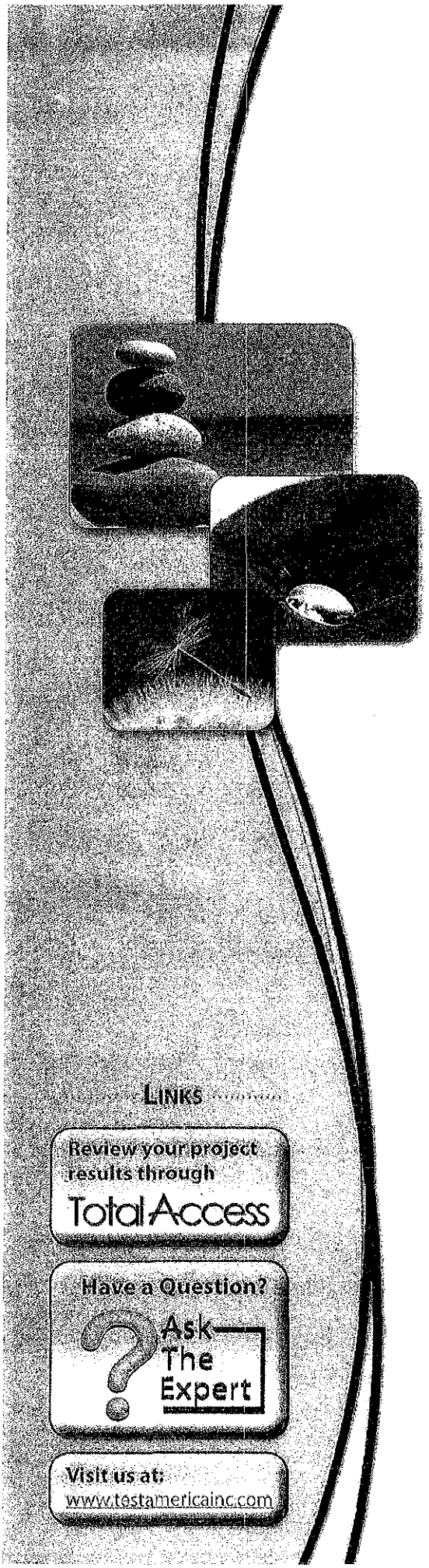
Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Jason Keasling	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2-8-12 / Time: 1617	Received For Laboratory By (Signature): Gustavo Sabill	Date: 2-8-12 / Time: 1617

pH Meter #9 Calibration

Time	Slope	Buffers
03:00	56.4	4:7:10

DO Meter #9 100% Air Calibration

Time	Temp °C	D.O.
03:05	19	9.28



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-35883-1
Client Project/Site: Harris Co. MUD 345

For:
Severn Trent Environmental Services
16337 Park Road
Houston, Texas 77084

Attn: Area Manager Ben Agee

Authorized for release by:
03/22/2011 11:02:30 AM
Jodi Allen
Customer Service Manager
jodi.allen@testamericainc.com

Designee for

STES Project Manager Jodi Allen
Project Manager I
jodi.allen@testamericainc.com

3/10/2011 – Sample Collected

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Client Sample ID: Digester

Lab Sample ID: 600-35883-1

Date Collected: 03/10/11 11:50
Matrix: Solid
Date Received: 03/10/11 13:04
Percent Solids: 1.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
As	7.8		4.6	1.0	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Cd	0.41	J	1.2	0.12	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Cr	8.3	B	2.3	0.23	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Cu	370		2.3	0.80	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Mo	9.8	B	2.3	0.63	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Ni	8.7	B	4.6	0.54	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Pb	8.3		2.3	0.49	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
K	2700		460	51	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Se	7.5	J B	9.3	1.2	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1
Zn	510	B	6.9	0.50	mg/Kg	☼	03/14/11 13:07	03/15/11 07:50	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.70	B	0.16	0.0053	mg/Kg	☼	03/14/11 07:05	03/14/11 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	2600		1100	300	mg/Kg	☼	03/14/11 08:09	03/14/11 12:41	1
Nitrogen, Kjeldahl	47000		4200	2100	mg/Kg	☼		03/15/11 16:48	2
Phosphorus, Total	12000		1300	120	mg/Kg	☼	03/14/11 06:30	03/14/11 06:56	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.38	HF	0.0100	0.0100	SU			03/21/11 14:15	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	6300		660	41	mg/Kg	☼		03/11/11 17:05	25
Nitrite as N	110		26	2.8	mg/Kg	☼		03/11/11 17:00	5
Nitrate as N	6200		2.6	0.16	mg/Kg	☼		03/17/11 17:51	1

Method: 9040B - pH (Field)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.10				SU			03/10/11 12:18	1

Client Sample ID: Digester

Lab Sample ID: 600-35883-2

Date Collected: 03/10/11 11:51
Matrix: Solid
Date Received: 03/10/11 13:04

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	15000		10	10	mg/L			03/11/11 18:43	1
Specific Oxygen Uptake Rate	1.0		0.10	0.10	mg/g/hr			03/10/11 16:45	1

Client Sample ID: Digester

Lab Sample ID: 600-35883-3

Date Collected: 03/10/11 11:52
Matrix: Solid
Date Received: 03/10/11 13:04

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	20000		10	10	mg/L			03/11/11 18:43	1

Client Sample ID: Digester — Lab Sample ID: 600-35883-3

Date Collected: 03/10/11 11:52
Date Received: 03/10/11 13:04
Matrix: Solid
Percent Solids: 1.2

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	59000		810	810	CFU/g D.W.	☼	03/10/11 15:30	03/10/11 16:00	1

Client Sample ID: Digester — Lab Sample ID: 600-35883-4

Date Collected: 03/10/11 11:52
Date Received: 03/10/11 13:04
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	4700		10	10	mg/L			03/11/11 18:43	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	33000		730	730	CFU/g D.W.	☼	03/10/11 15:30	03/10/11 16:00	1

Client Sample ID: Digester — Lab Sample ID: 600-35883-5

Date Collected: 03/10/11 11:52
Date Received: 03/10/11 13:04
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	15000		10	10	mg/L			03/11/11 18:43	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	24000		530	530	CFU/g D.W.	☼	03/10/11 15:30	03/10/11 16:00	1

Client Sample ID: Digester — Lab Sample ID: 600-35883-6

Date Collected: 03/10/11 11:52
Date Received: 03/10/11 13:04
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	3900		10	10	mg/L			03/11/11 18:43	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	88000		1200	1200	CFU/g D.W.	☼	03/10/11 15:30	03/10/11 16:00	1

Client Sample ID: Digester — Lab Sample ID: 600-35883-7

Date Collected: 03/10/11 11:52
Date Received: 03/10/11 13:04
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	15000		10	10	mg/L			03/11/11 18:43	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	63000		990	990	CFU/g D.W.	☼	03/10/11 15:30	03/10/11 16:00	1

Analytical Data

Client: Severn Trent Environmental Services
Project/Site: Harris Co. MUD 345

TestAmerica Job ID: 600-35883-1

Client Sample ID: Digester

Lab Sample ID: 600-35883-8

Date Collected: 03/10/11 11:52
Date Received: 03/10/11 13:04

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	20000		10	10	mg/L			03/11/11 18:43	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	55000		610	610	CFU/g D.W.	☼	03/10/11 15:30	03/10/11 16:00	1

Client Sample ID: Digester

Lab Sample ID: 600-35883-9

Date Collected: 03/10/11 11:52
Date Received: 03/10/11 13:04

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	22000		10	10	mg/L			03/11/11 18:43	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	48000		580	580	CFU/g D.W.	☼	03/10/11 15:30	03/10/11 16:00	1

Client Sample ID: Digester — Lab Sample ID: 600-35985-2

Date Collected: 03/14/11 10:21 — **Matrix: Solid**
Date Received: 03/14/11 11:13 — **Percent Solids: 1.9**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*58 - 122*	*03/18/11 11:22*	*03/18/11 18:24*	*1*
DCB Decachlorobiphenyl	*113*		*67 - 143*	*03/18/11 11:22*	*03/18/11 18:24*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.040		0.20	0.040	ug/L		03/17/11 16:52	03/21/11 18:21	1
Silvex (2,4,5-TP)	<0.020		0.20	0.020	ug/L		03/17/11 16:52	03/21/11 18:21	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*85*		*10 - 125, 2*	*03/17/11 16:52*	*03/21/11 18:21*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pb	<0.029		0.10	0.029	mg/L		03/17/11 10:22	03/17/11 16:30	10
Cr	<0.016		0.10	0.016	mg/L		03/17/11 10:22	03/17/11 16:30	10
Cd	<0.0073		0.050	0.0073	mg/L		03/17/11 10:22	03/17/11 16:30	10
Ba	0.43		0.20	0.022	mg/L		03/17/11 10:22	03/17/11 16:30	10
As	<0.033		0.10	0.033	mg/L		03/17/11 10:22	03/17/11 16:30	10
Ag	<0.012		0.10	0.012	mg/L		03/17/11 10:22	03/17/11 16:30	10
Se	<0.042		0.40	0.042	mg/L		03/17/11 10:22	03/17/11 16:30	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000021		0.00020	0.000021	mg/L		03/21/11 05:55	03/21/11 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.9		1.0	1.0	%			03/15/11 13:57	1

Client Sample ID: Digester — Lab Sample ID: 600-35985-3

Date Collected: 03/14/11 10:20 — **Matrix: Solid**
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	20000		10	10	mg/L			03/15/11 13:57	1
Specific Oxygen Uptake Rate	1.1		0.10	0.10	mg/g/hr			03/14/11 15:00	1

Client Sample ID: Digester — Lab Sample ID: 600-35985-4

Date Collected: 03/14/11 10:19 — **Matrix: Solid**
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.9		1.0	1.0	%			03/15/11 13:57	1
Total Solids	18000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	970		97	97	CFU/g D.W.		03/14/11 12:30	03/14/11 12:30	1

Client Sample ID: Digester — Lab Sample ID: 600-35985-5

Date Collected: 03/14/11 10:19 — **Matrix: Solid**
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.9		1.0	1.0	%			03/15/11 13:57	1
Total Solids	19000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	960		110	110	CFU/g D.W.		03/14/11 12:30	03/14/11 12:30	1

Client Sample ID: Digester — Lab Sample ID: 600-35985-6

Date Collected: 03/14/11 10:19 — **Matrix: Solid**
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.8		1.0	1.0	%			03/15/11 13:57	1
Total Solids	18000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	820		100	100	CFU/g D.W.		03/14/11 12:30	03/14/11 12:30	1

Client Sample ID: Digester — Lab Sample ID: 600-35985-7

Date Collected: 03/14/11 10:19 — **Matrix: Solid**
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.9		1.0	1.0	%			03/15/11 13:57	1
Total Solids	19000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	530		97	97	CFU/g D.W.		03/14/11 12:30	03/14/11 12:30	1

Client Sample ID: Digester — Lab Sample ID: 600-35985-8

Date Collected: 03/14/11 10:19 — **Matrix: Solid**
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.9		1.0	1.0	%			03/15/11 13:57	1
Total Solids	19000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	640		100	100	CFU/g D.W.		03/14/11 12:30	03/14/11 12:30	1

Analytical Data

Client: Severn Trent Environmental Services
Project/Site: Harris Co. MUD 391

TestAmerica Job ID: 600-35985-1

Client Sample ID: Digester

Lab Sample ID: 600-35985-9
Matrix: Solid

Date Collected: 03/14/11 10:19
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.9		1.0	1.0	%			03/15/11 13:57	1
Total Solids	18000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	280		100	100	CFU/g D.W.		03/14/11 12:30	03/14/11 12:30	1

Client Sample ID: Digester

Lab Sample ID: 600-35985-10
Matrix: Solid

Date Collected: 03/14/11 10:19
Date Received: 03/14/11 11:13

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	2.0		1.0	1.0	%			03/15/11 13:57	1
Total Solids	18000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	910		100	100	CFU/g D.W.		03/14/11 12:30	03/14/11 12:30	1

$\bar{X}_{geo} = 678.20$

Job No. [redacted]

ANALYSIS REQUEST AND CHAIN OF CUSTODY FO

Loc: 600
35985
#1
600-35985-A-1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Houston
6310 Rothway Street
Houston, Texas 77040
Tel: 713-690-4444 • Fax: 713-690-5646

Client: 391
Completion Date:
District Code:
Rush (Y/N):
Pick-

Please do not complete shaded areas.

Field Analysis, Time: 1026

Sample No.	Sample ID Eff, Inf, Aer, etc.	Date & Time (3-14-11)	Type (SEE KEY BELOW)	Container	Preservative	Temp.	Flow	pH	DO	Tot CL2	Correction	Final CL2	BOD	CBOD	TSS	VSS	COD	NH3	TKN	Fecal	% Solids	OUR	TS	Additional Analysis/Remarks
	DIS	1022	A	6	ICE	24.8		6.14																BUSA
	"	"	"	"	"																			"
	DIS	1021	A	6	ICE																			TCLP + PCB
	"																							
	"																							
	"																							
	DIS	1020	A	1	ICE																	X	X	
	DIS	1019	1	4																X			X	
	"																			X			X	
	"																			X			X	
	"																			X			X	
	"																			X			X	
	"																			X			X	
	"																			X			X	

Sampled By: (Signature) Bruce Parsons

Relinquished By: (Signature) Bruce Parsons
Date: 3-14-11
Time: 1113

Received By: (Signature)
Date:
Time:

Comments:

Courier (If Applicable)

Bill of Lading #

Relinquished By: (Signature)
Date:
Time:

Received By Lab: (Signature)
Date: 3/14/11
Time: 1113.

KEY

COLLECTION TYPE	CONTAINER
A. Grab	1. 1 L. plastic certified
B. Composite	2. 500 ml plastic
C. Manual Composite	3. 120 ml plastic cup
	4. 100 ml sterile plastic cup
	5. 1 L. widemouth glass
	6. 1 L. amber glass
	7. Other

Condition of Cooler	Condition of Samples	Temp.	Approved	Date
[illegible]	[illegible]	3.7 5.28		3-14-11

Subcontracted ☐ Yes ☐ No

To

Date

TAL-2100 (01/08)

04/18/2011

13

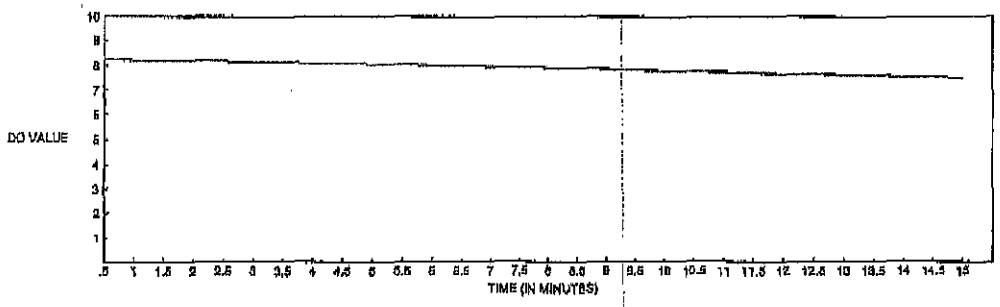
NWDLS Northwater District Laboratory Services, Inc.
8725 Pawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report
HC MUD 432 - Municipal Operations and Consulting
CLASS B

Report #253704 Report generated 02/23/2012 14:06
Site: MUN 153

Analysis performed on sludge sample received on 02/22/2012 12:22 collected by Angel Rodriguez from the Digester at 02/22/2012 07:10

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10743979	34,000	CFU/g TS	SM 9222 D	DB	02/22/2012 12:34
Fecal Coliform	Sample ID: 10743980	36,000	CFU/g TS	SM 9222 D	DB	02/22/2012 12:34
Fecal Coliform	Sample ID: 10743981	34,000	CFU/g TS	SM 9222 D	DB	02/22/2012 12:34
Fecal Coliform	Sample ID: 10743982	38,000	CFU/g TS	SM 9222 D	DB	02/22/2012 12:34
Fecal Coliform	Sample ID: 10743983	34,000	CFU/g TS	SM 9222 D	DB	02/22/2012 12:34
Fecal Coliform	Sample ID: 10743984	36,000	CFU/g TS	SM 9222 D	DB	02/22/2012 12:34
Fecal Coliform	Sample ID: 10743985	35,000	CFU/g TS	SM 9222 D	DB	02/22/2012 12:34
Fecal Coliform	Geometric Mean	3.5E+04	35,000	CFU/g TS		
Total Solids	Sample ID: 10743976	1.7	%	SM 2540 G	ALR	02/22/2012 16:55
S.O.U.R. Test	Sample ID: 10743976	0.55	mg O2/hr/g TS	SM 2710 B	ALR	02/22/2012 03:31



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

153 - HC MUD 432

Site: 153
HC MUD 432

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: Combo: 1516

DO min: 6.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1074-4127	Aeration	02/22/12	7:10	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM2540 D EPA 160.4
2	1074-3976	Digester	02/22/12		GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM2540 G SM 2710 B
3	1074-3977	Digester	02/22/12		GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLP Herb/TCLP Pest/TCLP SVOA EPA 8270 EPA 206.2 EPA 245.1 EPA 6010A EPA 8081
4	1074-3978	Digester	02/22/12		GRAB	1000mL	Glass	Solid	4ºC	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/Ni-S/N-S-T/NO3N-S-T/NO2N-S-T/NH3-N-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C SM 4110 B SM 2540 G EPA 7471B EPA 300.0 EPA 351.4
5	1074-3979	Digester	02/22/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
6	1074-3980	Digester	02/22/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
7	1074-3981	Digester	02/22/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
8	1074-3982	Digester	02/22/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
9	1074-3983	Digester	02/22/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1074-3984	Digester	02/22/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
11	1074-3985	Digester	02/22/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
12	1074-3986	Digester	02/22/12		GRAB	1000mL	HDPE	Solid	4ºC	7D	PCBC EPA 8082
13	1074-3987	Digester	02/22/12		GRAB	60mL	VOA VIAL	Sludge	4ºC	14D	TCLP VOA EPA 624
14	1074-4128	Digester	02/22/12		GRAB	250mL	Glass	Liquid	4ºC	7D	DIG/VSS SM 2540 D EPA 160.4
15	1074-4129	Outfall 001	02/22/12		GRAB	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC ASTM D6919-03
16	1074-4130	Outfall 001	02/22/12		GRAB	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D

Field Analysis Time	7:10
Digester Temperature	18.6°C
Outfall 001 DO	9.67
Outfall 001 Flow	1" Inches - 60° Weir
Outfall 001 pH	7.98
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/22/12 Time: 1222	Received For Laboratory By (Signature): Gustavo Sabillon	Date: 2/22/12 Time: 1222

pH Meter #1 Calibration

Time	Slope	Buffers
02:06	57.1	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:06	20	9.09

P. 006
FAX No.
FEB/27/2012/MON 06:31 PM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

153 - HC MUD 432

Site: 153
HC MUD 432

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: Combo: 1515

DO min: 6.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1074-4131	Outfall 001	02/22/12	7:10	GRAB	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
18	1074-4124	Raw Bar Screen	02/22/12		GRAB	250mL	Glass	Liquid	4ºC	7D	RTSS SM 2540 D
19	1074-4125	Raw Bar Screen	02/22/12		GRAB	250mL	Glass	Liquid	4ºC	48H	RBOD SM 5210 B
20	1074-4126	Raw Bar Screen	02/22/12		GRAB	250mL	Glass	Liquid	H2SO4 4ºC	28D	RNH3-IC ASTM D6919-03
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(if different than sampler)

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/22/12 Time: 1:33	Received For Laboratory By (Signature): Gaston Sabill	Date: 2/22/12 Time: 1:33

pH Meter #1 Calibration

Time	Slope	Buffers
02:06	57.1	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:06	20	9.09

P. 007
FAX No.
FEB/27/2012/MON 06:32 PM

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: HC MUD 432 WWTP
SAMPLE DATE: 05/04/11
SAMPLE TIME: 6:45
SAMPLED BY: AR

DATE RECEIVED: 05/04/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1064-1082
LAB FILE ID: 61311001

Sludge Analysis

PARAMETER	RESULT %	MAL %	Method	Analysts Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	0.7	0.1	SM 2540 G	OD	05/06/11	< 0.1	0.65/0.65	~
TKN	2.62	0.01	SM 4500N C	OD	05/27/11	< 0.01	4.99/4.94	3.17/2.99
Ammonia-N	0.21	0.12	SM 4500NH3 C	OD	05/27/11	< 0.01	0.46/0.47	0.51/0.50
Nitrate-N	0.83	0.01	SM 418 E	OD	05/27/11	< 0.01	0.13/0.12	0.27/0.25
Phosphorus	1.48	0.01	EPA 6010C	MO	05/31/11	< 0.01	1.48/1.48	5.63/5.35
Potassium	0.58	0.01	EPA 6010C	MO	05/26/11	< 0.01	0.58/0.58	2.67/2.67

POLLUTANT	RESULT mg/kg	MAL mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	6.5	1.0	EPA 6010C	MO	05/25/11	< 1.0	5.7/6.5	251.5/266.7
Cadmium	0.7	0.5	EPA 6010C	MO	05/25/11	< 0.5	0.7/0.7	25.6/26.7
Chromium	26.7	1.0	EPA 6010C	MO	05/25/11	< 1.0	28.5/26.7	130.3/133.3
Copper	246	1.0	EPA 6010C	MO	05/26/11	< 1.0	214/211	2729/2933
Mercury	0.09	0.02	EPA 7471B	MO	05/25/11	< 0.02	0.14/0.14	4.03/4.00
Molybdenum	3.6	1.0	EPA 6010C	MO	05/25/11	< 1.0	3.5/3.6	118.4/133.3
Nickel	13.3	1.0	EPA 6010C	MO	05/25/11	< 1.0	13.8/13.3	128.7/133.3
Lead	18.9	1.0	EPA 6010C	MO	05/25/11	< 1.0	19.6/18.9	121.1/133.3
Selenium	<1.0	1.0	EPA 6010C	MO	05/25/11	< 1.0	<1.0/<1.0	246.0/266.7
Zinc	2100	2.0	EPA 6010C	MO	05/26/11	< 2.0	1850/1920	5210/5467

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6960 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

153 - HC MUD 432

Site: 153
HC MUD 432

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1064-1079	Aeration	05/04/11	6:45	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D-EPA 160.2
2	1064-1080	Digester	05/04/11		GRAB	250mL	Glass	Liquid	4°C	7D	DIG/VSS SM 2540 D EPA 160.2
3	1064-1081	Digester	05/04/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM2710B
4	1064-1082	Digester	05/04/11		GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/NI-S/P-S/CP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C SM 4110E SM 2540 G EPA 1418 EPA 2503 EPA 2513
5	1064-1083	Digester	05/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
6	1064-1084	Digester	05/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
7	1064-1085	Digester	05/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
8	1064-1086	Digester	05/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
9	1064-1087	Digester	05/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1064-1088	Digester	05/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
11	1064-1089	Digester	05/04/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
12	1064-1090	Digester	05/04/11		GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA 608
13	1064-1091	Digester	05/04/11		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP EPA 1311
14	1064-1092	Outfall 001	05/04/11		GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASPP-0998-02
15	1064-1093	Outfall 001	05/04/11		GRAB	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
16	1064-1094	Outfall 001	05/04/11		GRAB	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210B

Field Analysis Time	
	6:45
Digester Temperature	18.4°C
Outfall 001 DO	9.26 #4
Outfall 001 Flow	1" Inches - 60° Weir
Outfall 001 pH	7.46
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Received By (Signature)	
Print Name: Angel Rodriguez	Relinquished By (Signature)	Received By (Signature)	
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature) Date: 5/04/11 Time: 1226	Received For Laboratory By (Signature) Date: 5/04/11 Time: 1226	

pH Meter #1 Calibration		
Time	Slope	Buffers
03:40	57.1	4:7:10

DO Meter #1 100% Air Calibration		
Time	Temp °C	D.O.
03:40	22	8.74

P. 005
FAX No.
JUN/14/2011/TUE 12:56 PM

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Heather Glen WWTP
SAMPLE DATE: 01/24/12
SAMPLE TIME: 11:10
SAMPLED BY: JK

DATE RECEIVED: 01/24/12
SAMPLE MATRIX: Sludge
SAMPLE ID: 1073-8918
LAB FILE ID: 30612008

Sludge Analysis

PARAMETER	RESULT %	MAL* %	Method	Analysis Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.3	0.1	SM 2540 G	OD	01/27/12	< 0.1	1.28/1.29	~
TKN	7.15	0.01	SM 4500N C	OD	02/03/12	< 0.01	7.57/6.90	0.31/0.29
Ammonia-N	0.69	0.12	SM 4500NH3 C	OD	02/03/12	< 0.01	0.76/0.76	0.41/0.49
Nitrate-N	0.16	0.01	SM 418 E	OD	02/03/12	< 0.01	1.07/1.07	0.25/0.25
Phosphorus	1.67	0.01	EPA 6010C	MO	02/12/12	< 0.01	1.49/1.50	1.40/1.62
Potassium	0.43	0.01	EPA 6010C	MO	02/12/12	< 0.01	0.31/0.31	0.81/0.81

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysis Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	1.3	1.0	EPA 6010C	MO	02/10/12	< 1.0	9.4/9.0	76.5/81.1
Cadmium	1.3	0.5	EPA 6010C	MO	02/10/12	< 0.5	0.8/0.8	7.8/8.1
Chromium	24.9	1.0	EPA 6010C	MO	02/10/12	< 1.0	13.5/12.7	36.0/40.6
Copper	206	1.0	EPA 6010C	MO	02/10/12	< 1.0	490/499	881/892
Mercury	0.37	0.02	EPA 7471B	ER	01/31/12	< 0.02	0.42/0.42	1.68/1.90
Molybdenum	6.1	1.0	EPA 6010C	MO	02/10/12	< 1.0	10.1/9.9	36.7/40.6
Nickel	12.0	1.0	EPA 6010C	MO	02/10/12	< 1.0	9.5/8.9	35.1/40.6
Lead	30.2	1.0	EPA 6010C	MO	02/10/12	< 1.0	18.0/15.6	35.1/40.6
Selenium	11.7	1.0	EPA 6010C	MO	02/10/12	< 1.0	4.6/4.9	23.3/25.0
Zinc	1410	2.0	EPA 6010C	MO	02/12/12	< 2.0	1100/1130	1680/1663

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Pawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

194 - Heather Glen

Site: 194
Heather Glen

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77057

NOTE: Gate Combo 8144
sampler comb 2146

DO min: 6.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1073-9707	Outfall 001 Sampler	01/24/12	800	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC
2	1073-9708	Outfall 001 Sampler	01/24/12		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS
3	1073-9709	Outfall 001 Sampler	01/24/12		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD
4	1073-9710	Aeration	01/24/12	1110	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS
5	1073-8916	Digester	01/24/12		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR
6	1073-8917	Digester	01/24/12		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLPHerb/TCLPPest/TCLPSVOA
7	1073-8918	Digester	01/24/12		GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/Ag-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/Ni-S/Pb-S/Se-S/TKN-S/Zn-S
8	1073-8919	Digester	01/24/12		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
9	1073-8920	Digester	01/24/12		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
10	1073-8921	Digester	01/24/12		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
11	1073-8922	Digester	01/24/12		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
12	1073-8923	Digester	01/24/12		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
13	1073-8924	Digester	01/24/12		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
14	1073-8925	Digester	01/24/12		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
15	1073-8926	Digester	01/24/12		GRAB	1000mL	HDPE	Solid	4°C	7D	PCBC
16	1073-8927	Digester	01/24/12		GRAB	60mL	VOA VIAL	Sludge	4°C	14D	TCLP VOA

Field Analysis Time	1110
Digester Temperature	22°C
8 Outfall 001 DO	7.48
Outfall 001 pH	6.96
Collected By (if different than sampler)	

Sampler (Signature): Jason Keasling
Print Name: Jason Keasling
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date: — Time:
Relinquished By (Signature) — Date: — Time:
Relinquished To Laboratory By (Signature) — Date: 1-24-12 — Time: 1420

Received By (Signature) — Date: — Time:
Received By (Signature) — Date: — Time:
Received For Laboratory By (Signature) — Date: 1-24-12 — Time: 1420

pH Meter #4 Calibration

Time	Slope	Buffers
08:15	57.1	4.7/10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
03:20	18	9.47

P. 024
FAX No.
MAR/08/2012/THU 03:30 PM

P. 025

FAX No.

MAR/08/2012/THU 03:31 PM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Pawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

194 - Heather Glen

Site: 194
Heather Glen

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77037

NOTE: Gate Combo 8144
sampler comb 2146

DO min: 6.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1073-9711	RAS	01/24/12	1110	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.2
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(if different than sampler)

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Jason Keasling				
Print Name: Jason Keasling	Relinquished By (Signature)		Received By (Signature)	
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature): Jason Keasling	Date: 1-24-12 Time: 1420	Received For Laboratory By (Signature): Christina Sabill	Date: 1-24-12 Time: 1420

pH Meter #4 Calibration		
Time	Slope	Buffers
03:15	57.1	4:7:10

DO Meter #4 100% Air Calibration		
Time	Temp °C	D.O.
03:20	18	9.47

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

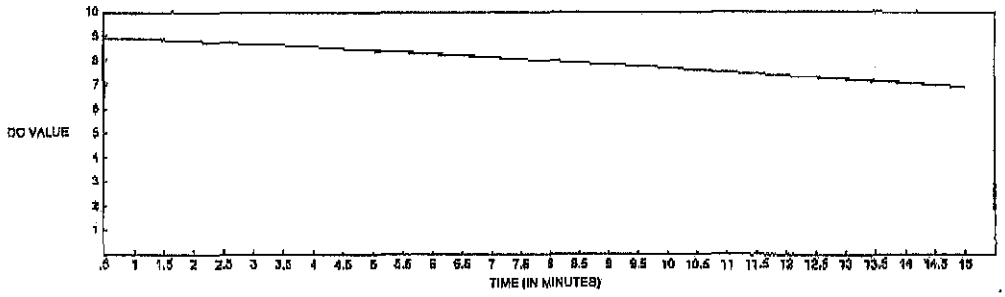
Test Report
Heather Glen - Municipal Operations and Consulting
CLASS B

Report #232148
Site: MUN 194

Report Generated 02/02/2012 07:53

Analysis performed on sludge sample received on 01/31/2012 15:04 collected by Jason Keasling from the Digester at 01/31/2012 12:05

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10744152	53,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:46
Fecal Coliform	Sample ID: 10744153	49,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:46
Fecal Coliform	Sample ID: 10744154	56,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:46
Fecal Coliform	Sample ID: 10744155	52,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:46
Fecal Coliform	Sample ID: 10744156	48,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:46
Fecal Coliform	Sample ID: 10744157	54,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:46
Fecal Coliform	Sample ID: 10744158	46,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:46
Fecal Coliform	Geometric Mean	5.1E+04	51,000	CFU/g TS		
Total Solids	Sample ID: 10744151	1.1	%	SM 2540 G	OD	01/31/2012 17:40
S.O.U.R. Test	Sample ID: 10744151	0.94	mg O2/hr/g TS	SM 2710 B	OD	01/31/2012 03:46



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

194 - Heather Glen

Site: 194
Heather Glen

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77037

NOTE: Gate Combo 8144
sampler comb 2146

DO min: 6.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1074-3633	Outfall 001 Sampler	01/31/12	1000	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6919-03
2	1074-3634	Outfall 001 Sampler	01/31/12		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
3	1074-3635	Outfall 001 Sampler	01/31/12		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
4	1074-3636	Aeration	01/31/12	1205	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
5	1074-3640	RAS	01/31/12		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
6	1074-3637	Raw	01/31/12		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D
7	1074-3638	Raw	01/31/12		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B
8	1074-3639	Raw	01/31/12		GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-IC ASTM D6919-03
9		DIGESTER	"		"	1000mL	"	SLUDGE	4°C		2 Solid / Jar 1074-4151
10			"		"	110 ml	PORE	"	"		FC-CB 1074-4152
11			"		"			"	"		" " 53
12			"		"			"	"		" " 54
13			"		"			"	"		" " 55
14			"		"			"	"		" " 56
15			"		"			"	"		" " 57
16			"		"			"	"		" " 58 Top 57

Field Analysis Time	
10 Aeration DO	1205
	1.92
Aeration pH	6.36
12 Clarifier DO	5.56
11 Outfall 001 DO	7.86
Dup-	7.87
Outfall 001 pH	7.35
Raw pH	7.29
Collected By (if different than sampler)	
Dig Temp = 20°C	

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Jason Keasling				
Print Name: Jason Keasling	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature): Jason Keasling	Date: 1-31-12 Time: 1543	Received For Laboratory By (Signature): Gustavo Sabell	Date: 1-31-12 Time: 1543

pH Meter #4 Calibration		
Time	Slope	Buffers
03:15	56.7	4:7:10

DO Meter #4 100% Air Calibration		
Time	Temp °C	D.O.
03:20	19	9.28

P. 003
FAX No.
FEB/06/2012/MON 03:38 PM

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

Hunters Glen MUD - Municipal Operations and Consulting

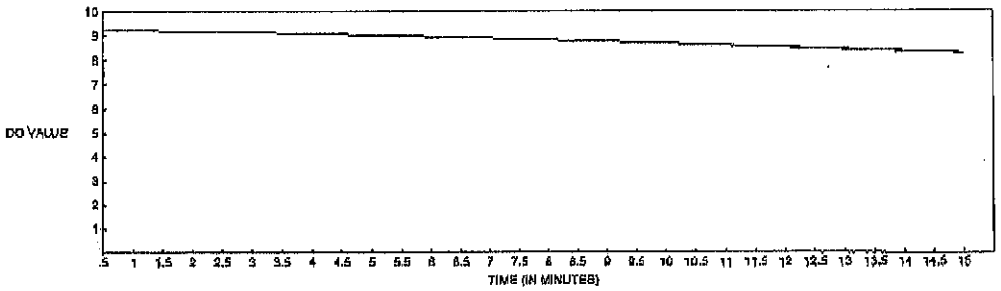
CLASS B

Report #232709 | Report Generated 02/09/2012 15:23

Site: MUN 17 |

Analysis performed on sludge sample received on 02/06/2012 15:11 collected by Jason Keasling from the Digester at 02/06/2012 12:15

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10743922	41,000	CFU/g TS	SM 9222 D	OD	02/06/2012 15:51
Fecal Coliform	Sample ID: 10743923	52,000	CFU/g TS	SM 9222 D	OD	02/06/2012 15:51
Fecal Coliform	Sample ID: 10743924	44,000	CFU/g TS	SM 9222 D	OD	02/06/2012 15:51
Fecal Coliform	Sample ID: 10743925	47,000	CFU/g TS	SM 9222 D	OD	02/06/2012 15:51
Fecal Coliform	Sample ID: 10743926	40,000	CFU/g TS	SM 9222 D	OD	02/06/2012 15:51
Fecal Coliform	Sample ID: 10743927	44,000	CFU/g TS	SM 9222 D	OD	02/06/2012 15:51
Fecal Coliform	Sample ID: 10743928	57,000	CFU/g TS	SM 9222 D	OD	02/06/2012 15:51
Fecal Coliform	Geometric Mean	4.6E+04	46,000	CFU/g TS		
Total Solids	Sample ID: 10743919	1.5	%	SM 2540 G	OD	02/06/2012 17:55
S.O.U.R. Test	Sample ID: 10743919	0.63	mg O2/hr/g TS	SM 2710 B	OD	02/06/2012 03:37



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.

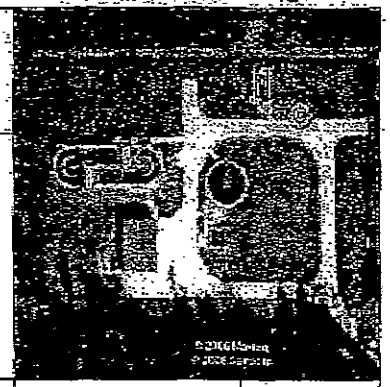
Derek McCoy
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

17 - Hunters Glen MUD



Site: 17
Hunters Glen MUD

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Hunter's Glen MUD
c/o Hauser
P.O. Box 5074
Katy, TX 77491-5074

NOTE: Combo 2146

DO min: 6.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1074-3915	Outfall 001 Sampler	02/06/12	1000	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC
2	1074-3916	Outfall 001 Sampler	02/06/12	↓	24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD
3	1074-3917	Outfall 001 Sampler	02/06/12	↓	24HR COMP	250mL	Glass	Liquid	4°C	7D	TDS
4	1074-3918	Outfall 001 Sampler	02/06/12	↓	24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS
5	1074-3932	Aeration #1	02/06/12	1215	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS
6	1074-3933	Aeration #2	02/06/12	↓	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS
7	1074-3919	Digester	02/06/12	↓	GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR
8	1074-3920	Digester	02/06/12	↓	GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLP Hexa/TCLP Pest/TCLP SVOC
9	1074-3921	Digester	02/06/12	↓	GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/Ni-S/N-S-TKN/SN-S-T/NI-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S
10	1074-3922	Digester	02/06/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
11	1074-3923	Digester	02/06/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
12	1074-3924	Digester	02/06/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
13	1074-3925	Digester	02/06/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
14	1074-3926	Digester	02/06/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
15	1074-3927	Digester	02/06/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB
16	1074-3928	Digester	02/06/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB

Field Analysis Time	1215
Digester Temperature	19°C
Outfall 001 DO	7.96
Outfall 001 pH	7.90
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Jason Keasling				
Print Name: Jason Keasling	Relinquished By (Signature)		Received By (Signature)	
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2-6-12 Time: 1511	Received For Laboratory By (Signature)	Date: 2-6-12 Time: 1511

pH Meter #9 Calibration		
Time	Slope	Buffers
07:00	56.1	4:7:10

DO Meter #9 100% Air Calibration		
Time	Temp °C	D.O.
07:05	18	9.47

FEB/13/2012/MON 04:47 PM FAX No. P. 003

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Hunters Glen MUD WWTP
SAMPLE DATE: 02/07/11
SAMPLE TIME: 12:30
SAMPLED BY: JK

DATE RECEIVED: 02/07/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1060-7485
LAB FILE ID: 31911010

B.L.F.

PARAMETER	RESULT %	MAL %	Method	Analysis Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.8	0.1	SM 2540 G	OD	02/08/11	< 0.1	0.20/0.15	~
TKN	5.81	0.01	SM 4500N C	OD	03/04/11	< 0.01	1.93/1.97	2.94/2.88
Ammonia-N	0.83	0.12	SM 4500NH3 C	OD	03/04/11	< 0.01	0.09/0.09	1.02/0.97
Nitrate-N	0.12	0.01	SM 418 E	OD	03/04/11	< 0.01	0.07/0.07	0.46/0.49
Phosphorus	2.11	0.01	EPA 6010C	MO	02/14/11	< 0.01	2.14/2.16	1.58/1.64
Potassium	0.40	0.01	EPA 6010C	MO	02/11/11	< 0.01	0.62/0.61	0.85/0.82

POLLUTANT	RESULT mg/kg	MAL mg/kg	Method	Analysis Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	4.5	1.0	EPA 6010C	MO	02/10/11	< 1.0	1.5/1.9	80.6/81.8
Cadmium	0.6	0.5	EPA 6010C	MO	02/10/11	< 0.5	0.5/0.5	8.0/8.2
Chromium	20.6	1.0	EPA 6010C	MO	02/10/11	< 1.0	13.3/13.5	41.2/40.9
Copper	221	1.0	EPA 6010C	MO	02/14/11	< 1.0	323/325	915/900
Mercury	0.49	0.02	EPA 7471B	MO	02/17/11	< 0.02	0.31/0.31	1.62/1.67
Molybdenum	5.1	1.0	EPA 6010C	MO	02/11/11	< 1.0	5.2/5.4	39.9/40.9
Nickel	8.5	1.0	EPA 6010C	MO	02/10/11	< 1.0	9.4/9.7	40.9/40.9
Lead	9.0	1.0	EPA 6010C	MO	02/10/11	< 1.0	8.0/8.2	39.9/40.9
Selenium	8.6	1.0	EPA 6010C	MO	02/10/11	< 1.0	2.8/2.6	79.7/81.8
Zinc	744	2.0	EPA 6010C	MO	02/14/11	< 2.0	725/780	1490/1678

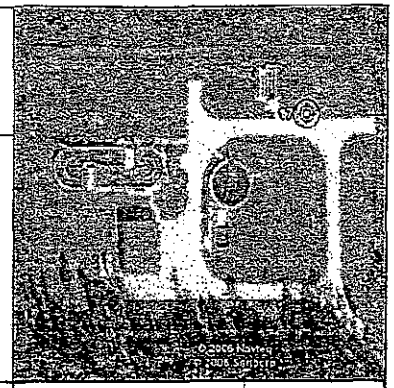
* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

17 - Hunters Glen MUD



Site: 17
Hunters Glen MUD

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Hunter's Glen MUD
c/o Hauser
P.O. Box 5074
Katy, TX 77491-5074

NOTE: Combo 2146

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-5561	Outfall 001 Sampler	02/07/11	1000	24HR COMP	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N SM 4500-NH3 D
2	1060-5562	Outfall 001 Sampler	02/07/11	"	24HR COMP	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
3	1060-5563	Outfall 001 Sampler	02/07/11	"	24HR COMP	250mL	Glass	Liquid	4ºC	7D	TDS SM 2540 C
4	1060-5564	Outfall 001 Sampler	02/07/11	"	24HR COMP	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
5	1060-5576	Aeration #1	02/07/11	1230	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
6	1060-5577	Aeration #2	02/07/11	"	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
7	1060-5565	Digester	02/07/11	"	GRAB	1000mL	Amber	Liquid	4ºC	365D	PCB EPA 608
8	1060-5566	Digester	02/07/11	"	GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM 2540 G SM 2710 B
9	1060-5567	Digester	02/07/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1060-5568	Digester	02/07/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
11	1060-5569	Digester	02/07/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
12	1060-5570	Digester	02/07/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
13	1060-5571	Digester	02/07/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
14	1060-5572	Digester	02/07/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
15	1060-5573	Digester	02/07/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
16	1060-5574	Digester	02/07/11	"	GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP EPA 1311

Field Analysis Time	1230
Digester Temperature	24°C
Outfall 001 DO	8.46
Outfall 001 pH	7.29
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Jason Keasling				
Print Name: Jason Keasling	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature): Jason Keasling	Date: 2-7-11 / Time: 1514	Received For Laboratory By (Signature): [illegible]	Date: 2-7-11 / Time: 1510

pH Meter #4 Calibration

Time	Slope	Buffers
03:30	57.1	4:7:10

DO Meter #4 100% Air Calibration

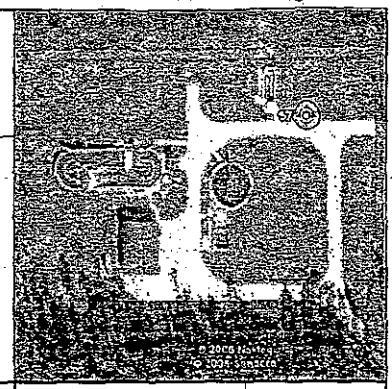
Time	Temp °C	D.O.
03:35	19	9.28

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

17 - Hunters Glen MUD



Site: 17
Hunters Glen MUD

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Hunter's Glen MUD
c/o Hauser
P.O. Box 5074
Katy, TX 77491-5074

NOTE: Combo 2146

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1060-5575	Outfall 001	02/07/11	1230	GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	8H	ECOLIDEX SM 9223 B
18	1060-5578	RA #1	02/07/11	"	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
19	1060-5579	RA #2	02/07/11	"	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
20		D16	"	"	"	1000ml	"	sludge			BLF 1060-7485
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(if different than sampler)

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Jason Keasling	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2.7.11 / Time: 5:00	Received For Laboratory By (Signature)	Date: 2.7.11 / Time: 5:00

pH Meter #4 Calibration

Time	Slope	Buffers
03:30	57.1	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
03:35	19	9.28

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-36008-2
Client Project/Site: Langham Creek UD

For:
Severn Trent Environmental Services
16337 Park Road
Houston, Texas 77084

Attn: Area Manager Frank Garcia

Authorized for release by:
04/01/2011 05:20:28 PM
Jodi Allen
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STES Project Manager Jodi Allen
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

04/01/2011

Client Sample ID: Digester — Lab Sample ID: 600-36008-8

Date Collected: 03/14/11 11:25 — **Matrix: Solid**
Date Received: 03/14/11 13:02 — **Percent Solids: 1.4**

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
As	8.2	B	6.5	1.4	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Cd	0.70	J	1.6	0.17	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Cr	12		3.2	0.33	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Cu	240		3.2	1.1	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Mo	4.7		3.2	0.89	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Ni	18	B	6.5	0.76	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Pb	12		3.2	0.68	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
K	4700		650	71	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Se	7.6	J B	13	1.7	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1
Zn	820	B	9.7	0.70	mg/Kg	☼	03/15/11 10:26	03/21/11 16:04	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	350		210	7.2	ug/Kg	☼	03/19/11 10:50	03/19/11 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	5400		1400	410	mg/Kg	☼	03/16/11 08:57	03/16/11 12:58	1
Nitrogen, Kjeldahl	<1400		2900	1400	mg/Kg	☼		03/17/11 16:19	1
Phosphorus, Total	22000		1800	160	mg/Kg	☼	03/16/11 07:10	03/16/11 07:24	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.28	HF	0.0100	0.0100	SU			03/21/11 14:15	1
Percent Moisture	99		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.4		1.0	1.0	%			03/15/11 13:57	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	120		7.2	0.75	mg/Kg	☼		03/15/11 16:18	1
Nitrate as N	11000		3.6	0.22	mg/Kg	☼		03/21/11 16:40	1
Nitrate Nitrite as N	11000		3.6	0.22	mg/Kg	☼		03/21/11 16:40	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-9

Date Collected: 03/14/11 11:25 — **Matrix: Solid**
Date Received: 03/14/11 13:02

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		100	11	ug/L			03/26/11 17:21	20
Carbon tetrachloride	<18		100	18	ug/L			03/26/11 17:21	20
Chlorobenzene	<16		100	16	ug/L			03/26/11 17:21	20
Chloroform	<16		100	16	ug/L			03/26/11 17:21	20
1,2-Dichloroethane	<20		100	20	ug/L			03/26/11 17:21	20
1,1-Dichloroethene	<15		100	15	ug/L			03/26/11 17:21	20
2-Butanone (MEK)	<31		200	31	ug/L			03/26/11 17:21	20
Tetrachloroethene	<25		100	25	ug/L			03/26/11 17:21	20
Trichloroethene	<32		100	32	ug/L			03/26/11 17:21	20
Vinyl chloride	<17		100	17	ug/L			03/26/11 17:21	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*67 - 139*		*03/26/11 17:21*	*20*
Dibromofluoromethane	*89*		*62 - 130*		*03/26/11 17:21*	*20*

Client Sample ID: Digester

Date Collected: 03/14/11 11:25
Date Received: 03/14/11 13:02

Lab Sample ID: 600-36008-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*03/26/11 17:21*	*20*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*		*03/26/11 17:21*	*20*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<1.3		11	1.3	ug/L		03/25/11 14:39	03/25/11 22:27	1
2,4-Dinitrotoluene	<1.0		11	1.0	ug/L		03/25/11 14:39	03/25/11 22:27	1
2,4,5-Trichlorophenol	<1.3		11	1.3	ug/L		03/25/11 14:39	03/25/11 22:27	1
2,4,6-Trichlorophenol	<0.97		11	0.97	ug/L		03/25/11 14:39	03/25/11 22:27	1
2-Methylphenol	<1.1		11	1.1	ug/L		03/25/11 14:39	03/25/11 22:27	1
3 & 4 Methylphenol	<2.0		21	2.0	ug/L		03/25/11 14:39	03/25/11 22:27	1
Hexachlorobenzene	<0.95		11	0.95	ug/L		03/25/11 14:39	03/25/11 22:27	1
Hexachlorobutadiene	<1.2		11	1.2	ug/L		03/25/11 14:39	03/25/11 22:27	1
Hexachloroethane	<1.2	*	11	1.2	ug/L		03/25/11 14:39	03/25/11 22:27	1
Nitrobenzene	<1.2		11	1.2	ug/L		03/25/11 14:39	03/25/11 22:27	1
Pentachlorophenol	<0.94		53	0.94	ug/L		03/25/11 14:39	03/25/11 22:27	1
Pyridine	<1.1		11	1.1	ug/L		03/25/11 14:39	03/25/11 22:27	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d6	*41*		*10 - 94*	*03/25/11 14:39*	*03/25/11 22:27*	*1*
Nitrobenzene-d5	*98*		*35 - 114*	*03/25/11 14:39*	*03/25/11 22:27*	*1*
2-Fluorophenol	*55*		*21 - 100*	*03/25/11 14:39*	*03/25/11 22:27*	*1*
2-Fluorobiphenyl	*89*		*43 - 116*	*03/25/11 14:39*	*03/25/11 22:27*	*1*
2,4,6-Tribromophenol	*80*		*10 - 123*	*03/25/11 14:39*	*03/25/11 22:27*	*1*
Terphenyl-d14	*84*		*33 - 141*	*03/25/11 14:39*	*03/25/11 22:27*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<0.063		0.11	0.063	ug/L		03/25/11 14:32	03/28/11 22:35	1
Endrin	<0.0074		0.11	0.0074	ug/L		03/25/11 14:32	03/28/11 22:35	1
Heptachlor	<0.0063		0.053	0.0063	ug/L		03/25/11 14:32	03/28/11 22:35	1
gamma-BHC (Lindane)	<0.0063		0.053	0.0063	ug/L		03/25/11 14:32	03/28/11 22:35	1
Methoxychlor	<0.0095		0.053	0.0095	ug/L		03/25/11 14:32	03/28/11 22:35	1
Toxaphene	<2.6		5.3	2.6	ug/L		03/25/11 14:32	03/28/11 22:35	1
Heptachlor epoxide	<0.0074		0.053	0.0074	ug/L		03/25/11 14:32	03/28/11 22:35	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*32 - 143*	*03/25/11 14:32*	*03/28/11 22:35*	*1*
DCB Decachlorobiphenyl	*87*		*36 - 123*	*03/25/11 14:32*	*03/28/11 22:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<130		1300	130	ug/Kg	☼	03/18/11 11:22	03/18/11 18:43	1
PCB-1221	<700		1300	700	ug/Kg	☼	03/18/11 11:22	03/18/11 18:43	1
PCB-1232	<540		1300	540	ug/Kg	☼	03/18/11 11:22	03/18/11 18:43	1
PCB-1242	<100		1300	100	ug/Kg	☼	03/18/11 11:22	03/18/11 18:43	1
PCB-1248	<200		1300	200	ug/Kg	☼	03/18/11 11:22	03/18/11 18:43	1
PCB-1254	<180		1300	180	ug/Kg	☼	03/18/11 11:22	03/18/11 18:43	1
PCB-1260	<1100		1300	1100	ug/Kg	☼	03/18/11 11:22	03/18/11 18:43	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-9

Date Collected: 03/14/11 11:25 — **Matrix: Solid**
Date Received: 03/14/11 13:02 — **Percent Solids: 1.2**

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*58 - 122*	*03/18/11 11:22*	*03/18/11 18:43*	*1*
DCB Decachlorobiphenyl	*124*		*67 - 143*	*03/18/11 11:22*	*03/18/11 18:43*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.062		0.31	0.062	ug/L		03/25/11 16:32	03/28/11 14:24	1
Silvex (2,4,5-TP)	<0.031		0.31	0.031	ug/L		03/25/11 16:32	03/28/11 14:24	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*100*		*10 - 125, 2*	*03/25/11 16:32*	*03/28/11 14:24*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pb	<0.029		0.10	0.029	mg/L		03/25/11 10:46	03/25/11 16:33	10
Cr	<0.016		0.10	0.016	mg/L		03/25/11 10:46	03/25/11 16:33	10
Cd	<0.0073		0.050	0.0073	mg/L		03/25/11 10:46	03/25/11 16:33	10
Ba	0.55		0.20	0.022	mg/L		03/25/11 10:46	03/25/11 16:33	10
As	<0.033		0.10	0.033	mg/L		03/25/11 10:46	03/25/11 16:33	10
Ag	<0.012		0.10	0.012	mg/L		03/25/11 10:46	03/25/11 16:33	10
Se	<0.042		0.40	0.042	mg/L		03/25/11 10:46	03/25/11 16:33	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.026		0.20	0.026	ug/L		03/28/11 08:30	03/28/11 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	99		1.0		%			03/15/11 14:52	1
Percent Solids	1.2		1.0		%			03/15/11 14:52	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-10

Date Collected: 03/14/11 11:28 — **Matrix: Solid**
Date Received: 03/14/11 13:02

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	16000		10	10	mg/L			03/15/11 13:57	1
Specific Oxygen Uptake Rate	0.31		0.10	0.10	mg/g/hr			03/14/11 15:00	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-11

Date Collected: 03/14/11 11:28 — **Matrix: Solid**
Date Received: 03/14/11 13:02

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.5		1.0	1.0	%			03/15/11 13:57	1
Total Solids	14000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<6700		6700	6700	CFU/g D.W.	☼	03/14/11 14:00	03/14/11 14:30	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-12

Date Collected: 03/14/11 11:28 — **Matrix: Solid**
Date Received: 03/14/11 13:02

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	99		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.5		1.0	1.0	%			03/15/11 13:57	1
Total Solids	15000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<6800		6800	6800	CFU/g D.W.	☼	03/14/11 14:00	03/14/11 14:30	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-13

Date Collected: 03/14/11 11:28 — **Matrix: Solid**
Date Received: 03/14/11 13:02

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.6		1.0	1.0	%			03/15/11 13:57	1
Total Solids	15000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<6300		6300	6300	CFU/g D.W.	☼	03/14/11 14:00	03/14/11 14:30	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-14

Date Collected: 03/14/11 11:28 — **Matrix: Solid**
Date Received: 03/14/11 13:02

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.6		1.0	1.0	%			03/15/11 13:57	1
Total Solids	16000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<6300		6300	6300	CFU/g D.W.	☼	03/14/11 14:00	03/14/11 14:30	1

Client Sample ID: Digester — Lab Sample ID: 600-36008-15

Date Collected: 03/14/11 11:28 — **Matrix: Solid**
Date Received: 03/14/11 13:02

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.6		1.0	1.0	%			03/15/11 13:57	1
Total Solids	15000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<6000		6000	6000	CFU/g D.W.	☼	03/14/11 14:00	03/14/11 14:30	1

Analytical Data

Client: Severn Trent Environmental Services
Project/Site: Langham Creek UD

TestAmerica Job ID: 600-36008-2

Client Sample ID: Digester

Lab Sample ID: 600-36008-16

Date Collected: 03/14/11 11:28
Date Received: 03/14/11 13:02

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.6		1.0	1.0	%			03/15/11 13:57	1
Total Solids	15000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	12000		6500	6500	CFU/g D.W.	☼	03/14/11 14:00	03/14/11 14:30	1

Client Sample ID: Digester

Lab Sample ID: 600-36008-17

Date Collected: 03/14/11 11:28
Date Received: 03/14/11 13:02

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	98		1.0	1.0	%			03/15/11 13:57	1
Percent Solids	1.5		1.0	1.0	%			03/15/11 13:57	1
Total Solids	16000		10	10	mg/L			03/16/11 16:51	1

Method: 9222D - Membrane Filter Technique - Fecal Coliform Procedure

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<6300		6300	6300	CFU/g D.W.	☼	03/14/11 14:00	03/14/11 14:30	1

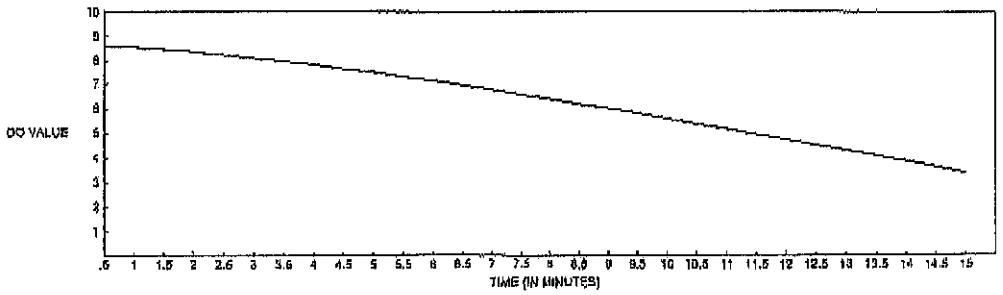
8725 Fawn Trail • The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 • lab@nwdls.com

CLASS B

Site: MUN 170

Analysis performed on sludge sample received on 02/08/2012 12:47 collected by Ben Walsh from the Digester at 02/08/2012 08:10

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10738873	280,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:48
Fecal Coliform	Sample ID: 10738874	180,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:48
Fecal Coliform	Sample ID: 10738875	170,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:48
Fecal Coliform	Sample ID: 10738876	180,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:48
Fecal Coliform	Sample ID: 10738877	280,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:48
Fecal Coliform	Sample ID: 10738878	240,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:48
Fecal Coliform	Sample ID: 10738879	170,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:48
Fecal Coliform	Geometric Mean	2.1E+05	210,000	CFU/g TS		
Total Solids	Sample ID: 10738870	0.8	%	SM 2540 G	OD	02/08/2012 16:30
S.O.U.R. Test	Sample ID: 10738870	2.82	mg O2/hr/g TS	SM 2710 B	OD	02/08/2012 03:16



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

CLASS B - FAIL

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 1.6 mg O2/hr/g TS.

Derek McCoy
Technical Director

P.012/013

FAX No.

FEB/16/2012/THU 05:07 PM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

170 - MCMUD 56

Site: 170
MCMUD 56

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: Combo 2146

DO min: 6.0

Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time	
1074-5879	Aeration	02/08/12	810	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM2540 D EPA 160.4	Aeration DO	3.07
1073-8870	Digester	02/08/12	"	GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 B		
1073-8871	Digester	02/08/12	"	GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLP Hexb/TCLP Resb/TCLP SVOA EPA 8270 EPA 8081 EPA 245.1 EPA 8151A EPA 6010	Aeration pH	3.11
1073-8872	Digester	02/08/12	"	GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/Ni-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C/SM 4500E SM 2540 G EPA 7471B EPA 300.0 EPA 351.1		
1073-8873	Digester	02/08/12	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D	Clarifier DO	2.78
1073-8874	Digester	02/08/12	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D		
1073-8875	Digester	02/08/12	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D	Digester Temperature	20.92
1073-8876	Digester	02/08/12	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D		
1073-8877	Digester	02/08/12	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D	Outfall 001 DO	7.56
1073-8878	Digester	02/08/12	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D		
1073-8879	Digester	02/08/12	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D	Outfall 001 Flow	3 Inches - 90° Weir
1073-8880	Digester	02/08/12	"	GRAB	1000mL	HDPE	Solid	4°C	7D	PCBC EPA 8082		
1073-8881	Digester	02/08/12	"	GRAB	60mL	VOA VIAL	Sludge	4°C	14D	TCLP VOA EPA 8260	Outfall 001 pH	7.29
1074-5881	Outfall 001	02/08/12	"	GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6919-03		
1074-5882	Outfall 001	02/08/12	"	GRAB	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D	Raw pH	7.61
1074-5883	Outfall 001	02/08/12	"	GRAB	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B		

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Name: Ben Walsh	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Station: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2-8-12 Time: 1247	Received For Laboratory By (Signature): Gustavo Schell	Date: 2-8-12 Time: 1247

pH Meter #5 Calibration

Time	Slope	Buffers
06:00	57.4	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
06:00	20	9.09

P.013/013

FAX No.

FEB/16/2012/THU 05:08 PM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

170 - MCMUD 56

Site: 170
MCMUD 56

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: Combo 2146

DO min: 6.0

Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time
1074-5880	RAS	02/08/12	810	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM2540 D SPA 160.1	
1074-5884	Raw	02/08/12	"	GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM2540 D	
1074-5885	Raw	02/08/12	"	GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM5210 B	
1074-5886	Raw	02/08/12	"	GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-IC ASTM D6919-03	

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Ben				
Name: Ben Walsh	Relinquished By (Signature)		Received By (Signature)	
Station: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date 2-8-12 Time 1247	Received For Laboratory By (Signature)	Date 2-8-12 Time 1247

pH Meter #5 Calibration		
Time	Slope	Buffers
06:00	57.4	4:7:10

DO Meter #4 100% Air Calibration		
Time	Temp °C	D.O.
06:00	20	9.09

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: MC MUD 56 WWTP
SAMPLE DATE: 05/04/11
SAMPLE TIME: 11:25
SAMPLED BY: BW

DATE RECEIVED: 05/04/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1064-1123
LAB FILE ID: 61411008

Sludge Analysis

PARAMETER	RESULT %	MAL* %	Method	Analysts Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.0	0.1	SM 2540 G	OD	05/06/11	< 0.1	1.87/1.89	–
TKN	6.30	0.01	SM 4500N C	OD	05/27/11	< 0.01	4.99/4.94	3.17/2.99
Ammonia-N	0.34	0.12	SM 4500NH3 C	OD	05/27/11	< 0.01	0.46/0.47	0.51/0.50
Nitrate-N	0.16	0.01	SM 418 E	OD	05/27/11	< 0.01	0.13/0.12	0.27/0.25
Phosphorus	3.65	0.01	EPA 6010C	MO	05/31/11	< 0.01	1.48/1.48	5.63/5.35
Potassium	0.96	0.01	EPA 6010C	MO	05/26/11	< 0.01	0.58/0.58	2.67/2.67

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	5.5	1.0	EPA 6010C	MO	05/25/11	< 1.0	5.7/6.5	251.5/266.7
Cadmium	0.8	0.5	EPA 6010C	MO	05/25/11	< 0.5	0.7/0.7	25.6/26.7
Chromium	14.0	1.0	EPA 6010C	MO	05/25/11	< 1.0	28.5/26.7	130.3/133.3
Copper	230	1.0	EPA 6010C	MO	05/26/11	< 1.0	214/211	2729/2933
Mercury	0.19	0.02	EPA 7471B	MO	05/25/11	< 0.02	0.14/0.14	4.03/4.00
Molybdenum	6.1	1.0	EPA 6010C	MO	05/25/11	< 1.0	3.5/3.6	118.4/133.3
Nickel	19.6	1.0	EPA 6010C	MO	05/25/11	< 1.0	13.8/13.3	128.7/133.3
Lead	17.4	1.0	EPA 6010C	MO	05/25/11	< 1.0	19.6/18.9	121.1/133.3
Selenium	10.1	1.0	EPA 6010C	MO	05/25/11	< 1.0	<1.0/<1.0	246.0/266.7
Zinc	753	2.0	EPA 6010C	MO	05/26/11	< 2.0	1850/1920	5210/5467

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

Route: Ben Walsh 05/04/11

CSN-266328 Page 1 of 2

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

170 - MCMUD 56

Site: 170
MCMUD 56

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

NOTE: Combo 2146

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1064-1121	Aeration	05/04/11	1125	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
2	1064-1122	Digester	05/04/11	"	GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540G SM 2710 B
3	1064-1123	Digester	05/04/11	"	GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/MBN-S-7/NOSN-S-10/S-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C SM4185 SM 2540 G EPA 7470B EPA 7520.2 EPA 254.2
4	1064-1124	Digester	05/04/11	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
5	1064-1125	Digester	05/04/11	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
6	1064-1126	Digester	05/04/11	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
7	1064-1127	Digester	05/04/11	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
8	1064-1128	Digester	05/04/11	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
9	1064-1129	Digester	05/04/11	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1064-1130	Digester	05/04/11	"	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
11	1064-1131	Digester	05/04/11	"	GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA 608
12	1064-1132	Digester	05/04/11	"	GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP EPA 1311
13	1064-1134	Outfall 001	05/04/11	"	GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM-D6919-03
14	1064-1135	Outfall 001	05/04/11	"	GRAB	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
15	1064-1136	Outfall 001	05/04/11	"	GRAB	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
16	1064-1137	Outfall 001	05/04/11	"	GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	8H	ECOLIDEX SM 9223 B

Field Analysis Time	
Aeration DO	4.02
Aeration pH	5.37
Clarifier DO	3.09
Digester Temperature	20.9
Outfall 001 DO	7.98
Outfall 001 Flow	4" inches - 90° Weir
Outfall 001 pH	7.36
Raw pH	6.8

Sampler (Signature): Ben
Print Name: Ben Walsh
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date: — Time:
Relinquished By (Signature) — Date: — Time:
Relinquished To Laboratory By (Signature) — Date: 5-4-11 — Time: 1216

Received By (Signature) — Date: — Time:
Received By (Signature) — Date: — Time:
Received For Laboratory By (Signature) — Date: 5-4-11 — Time: 1216

pH Meter #5 Calibration

Time	Slope	Buffers
04:00	57.5	4:7:10

DO Meter #5 100% Air Calibration

Time	Temp °C	D.O.
04:00	20	9.09

Route: Ben Walsh 05/04/11

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Pawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

170 - MCMUD 56

Site: 170
MCMUD 56

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

NOTE: Combo 2146

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time
17	1064-1133	RAS	05/04/11	1125	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM2540D-EPA 160.4	
18	1064-1138	Raw	05/04/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM2540D	
19	1064-1139	Raw	05/04/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM5210B	
20	1064-1140	Raw	05/04/11		GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-IC ASTM D6919-03	
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Ben Walsh	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 5-4-11 / Time: 1216	Received For Laboratory By (Signature)	Date: 5-4-11 / Time: 1216

pH Meter #5 Calibration

Time	Slope	Buffers
04:00	57.5	4:7:10

DO Meter #5 100% Air Calibration

Time	Temp °C	D.O.
04:00	20	9.09

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Northline WWTP
SAMPLE DATE: 01/17/12
SAMPLE TIME: 11:35
SAMPLED BY: JK

DATE RECEIVED: 01/17/12
SAMPLE MATRIX: Sludge
SAMPLE ID: 1073-8707
LAB FILE ID: 30612007

Sludge Analysis

PARAMETER	RESULT %	MAL* %	Method	Analysis Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	2.4	0.1	SM 2540 G	OD	01/20/12	< 0.1	2.25/2.20	~
TKN	7.91	0.01	SM 4500N C	OD	02/03/12	< 0.01	7.57/6.90	0.31/0.29
Ammonia-N	0.93	0.12	SM 4500NH3 C	OD	02/03/12	< 0.01	0.76/0.76	0.41/0.49
Nitrate-N	0.13	0.01	SM 418 E	OD	02/03/12	< 0.01	1.07/1.07	0.25/0.25
Phosphorus	1.50	0.01	EPA 6010C	MO	02/12/12	< 0.01	1.49/1.50	1.40/1.62
Potassium	0.31	0.01	EPA 6010C	MO	02/12/12	< 0.01	0.31/0.31	0.81/0.81

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysis Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	9.0	1.0	EPA 6010C	MO	02/10/12	< 1.0	9.4/9.0	76.5/81.1
Cadmium	0.8	0.5	EPA 6010C	MO	02/10/12	< 0.5	0.8/0.8	7.8/8.1
Chromium	12.7	1.0	EPA 6010C	MO	02/10/12	< 1.0	13.5/12.7	36.0/40.6
Copper	499	1.0	EPA 6010C	MO	02/10/12	< 1.0	490/499	881/892
Mercury	0.30	0.02	EPA 7471B	ER	01/31/12	< 0.02	0.42/0.42	1.68/1.90
Molybdenum	9.9	1.0	EPA 6010C	MO	02/10/12	< 1.0	10.1/9.9	36.7/40.6
Nickel	8.9	1.0	EPA 6010C	MO	02/10/12	< 1.0	9.5/8.9	35.1/40.6
Lead	15.6	1.0	EPA 6010C	MO	02/10/12	< 1.0	18.0/15.6	35.1/40.6
Selenium	4.9	1.0	EPA 6010C	MO	02/10/12	< 1.0	4.6/4.9	23.3/25.0
Zinc	1130	2.0	EPA 6010C	MO	02/12/12	< 2.0	1100/1130	1680/1663

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

193 - Northline

Site: 193
Northline

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77037

NOTE: Combo 8144

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1073-7525	Aeration	01/17/12	1135	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
2	1073-8705	Digester	01/17/12		GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM2540 G SM 2710 B
3	1073-8706	Digester	01/17/12		GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLPHerb/TCLPPest/TCLPSVOA EPA 6010C EPA 8270 EPA 7471B EPA 3051A EPA 8081
4	1073-8707	Digester	01/17/12		GRAB	1000mL	Glass	Solid	4ºC	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/Ni/SN-S-T/NCSN-S-T/Ni-S/P-S-T/CR/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C SM 4140 SM 2540 G EPA 7471B EPA 353.2 EPA 365.3
5	1073-8708	Digester	01/17/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
6	1073-8709	Digester	01/17/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
7	1073-8710	Digester	01/17/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
8	1073-8711	Digester	01/17/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
9	1073-8712	Digester	01/17/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1073-8713	Digester	01/17/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
11	1073-8714	Digester	01/17/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
12	1073-8715	Digester	01/17/12		GRAB	1000mL	HDPE	Solid	4ºC	7D	PCBC EPA 8082
13	1073-8716	Digester	01/17/12		GRAB	60mL	VOA VIAL	Sludge	4ºC	14D	TCLP VOA EPA 624
14	1073-7526	Outfall 001	01/17/12		GRAB	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC ASTM D6919-03
15	1073-7527	Outfall 001	01/17/12		GRAB	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210-B
16	1073-7528	Outfall 001	01/17/12		GRAB	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D

Field Analysis Time	1135
7 Aeration DO	1.52
Aeration pH	6.06
8 Clarifier DO	5.93
Digester Temperature	26°C
9 Outfall 001 DO	7.91
Outfall 001 Flow	5.50 Inches - 90° Weir
Outfall 001 pH	7.42
Raw pH	7.16

Sampler (Signature): Jason Keasling
Print Name: Jason Keasling
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature): Date: Time:
Relinquished By (Signature): Date: Time:
Relinquished To Laboratory By (Signature): Jason Keasling Date: 1-17-12 Time: 1507

Received By (Signature): Date: Time:
Received By (Signature): Date: Time:
Received For Laboratory By (Signature): Gustavo Sabill Date: 1-17-12 Time: 1507

pH Meter #4 Calibration

Time	Slope	Buffers
03:00	56.9	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
03:05	19	9.28

P. 019
FAX No.
MAR/08/2012/THU 03:28 PM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

193 - Northline

Site: 193
Northline

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77037

NOTE: Combo 8144

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time
17	1073-7532	RAS	01/17/12	1135	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM2540 EPA 160.4	
18	1073-7529	Raw	01/17/12		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540D	
19	1073-7530	Raw	01/17/12		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210B	
20	1073-7531	Raw	01/17/12		GRAB	250mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-IC ASTM D6919-03	
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Sampler (Signature): Jason Keasling	Relinquished By (Signature):	Date:	Received By (Signature):	Date:	pH Meter #4 Calibration
		Time:		Time:	Time / Slope / Buffers
Print Name: Jason Keasling	Relinquished By (Signature):	Date:	Received By (Signature):	Date:	03:00 / 56.9 / 4:7:10
		Time:		Time:	DO Meter #4 100% Air Calibration
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature): Jason Keasling	Date: 1-17-12	Received For Laboratory By (Signature): Gustavo Schaill	Date: 1-17-12	Time / Temp °C / D.O.
		Time: 1507		Time: 1507	03:05 / 19 / 9.28

P. 020
FAX No.
MAR/08/2012/THU 03:28 PM

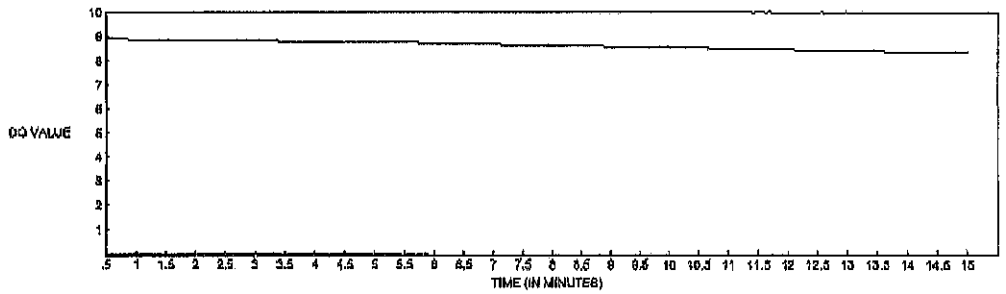
NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report
Northline - Municipal Operations and Consulting
CLASS B

Report #232144 | Report Generated 02/02/2012 07:58
Site: MUN 193 | Page 1 of 1

Analysis performed on sludge sample received on 01/31/2012 15:03 collected by Jason Keasling from the Digester at 01/31/2012 11:35

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10743619	96,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:13
Fecal Coliform	Sample ID: 10743620	97,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:13
Fecal Coliform	Sample ID: 10743621	100,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:13
Fecal Coliform	Sample ID: 10743622	99,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:13
Fecal Coliform	Sample ID: 10743623	98,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:13
Fecal Coliform	Sample ID: 10743624	96,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:13
Fecal Coliform	Sample ID: 10743625	100,000	CFU/g TS	SM 9222 D	OD	01/31/2012 16:13
Fecal Coliform	Geometric Mean	9.8E+04	98,000	CFU/g TS		
Total Solids	Sample ID: 10743618	1.1	%	SM 2540 G	OD	01/31/2012 17:40
S.O.U.R. Test	Sample ID: 10743618	0.54	mg O2/hr/g TS	SM 2710 B	OD	01/31/2012 04:10



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
Technical Director

P. 005

FAX No.

FEB/03/2012/MON 03:39 PM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

193 - Northline

Site: 193
Northline

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77037

NOTE: Combo 8144

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1074-3617	Aeration	01/31/12	1135	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM2540 D EPA 160.4
2	1074-3618	Digester	01/31/12		GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM2540 G SM 2710 B
3	1074-3619	Digester	01/31/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
4	1074-3620	Digester	01/31/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
5	1074-3621	Digester	01/31/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
6	1074-3622	Digester	01/31/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
7	1074-3623	Digester	01/31/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
8	1074-3624	Digester	01/31/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
9	1074-3625	Digester	01/31/12		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1074-3626	Outfall 001	01/31/12		GRAB	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC ASTM D6919-03
11	1074-3627	Outfall 001	01/31/12		GRAB	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
12	1074-3628	Outfall 001	01/31/12		GRAB	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
13	1074-3632	RAS	01/31/12		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM2540 D EPA 160.4
14	1074-3629	Raw	01/31/12		GRAB	250mL	Glass	Liquid	4ºC	7D	RTSS SM 2540 D
15	1074-3630	Raw	01/31/12		GRAB	250mL	Glass	Liquid	4ºC	48H	RBOD SM 5210 B
16	1074-3631	Raw	01/31/12		GRAB	250mL	Glass	Liquid	H2SO4 4ºC	28D	RNH3-IC ASTM D6919-03

Field Analysis Time	1135
7 Aeration DO	2.18
Aeration pH	6.13
8 Clarifier DO	5.79
Digester Temperature	19°C
9 Outfall 001 DO	8.16
Outfall 001 Flow	6.50 inches - 90° Weir
Outfall 001 pH	7.73
Raw pH	7.39

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Jason Keasling	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 1-31-12 Time: 1503	Received For Laboratory By (Signature): Gustavo Sebill	Date: 1-31-12 Time: 1503

pH Meter #4 Calibration

Time	Slope	Buffers
03:15	56.7	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
03:20	19	9.28

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Oakwilde WWTP
SAMPLE DATE: 02/09/11
SAMPLE TIME: 10:10
SAMPLED BY: JK

DATE RECEIVED: 02/09/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1060-9292
LAB FILE ID: 31911020

B.L.F.

PARAMETER	RESULT %	MAL* %	Method	Analysis Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.3	0.1	SM 2540 G	OD	02/16/11	< 0.1	0.20/0.15	~
TKN	6.40	0.01	SM 4500N C	OD	03/04/11	< 0.01	1.93/1.97	2.94/2.88
Ammonia-N	1.57	0.12	SM 4500NH3 C	OD	03/04/11	< 0.01	0.09/0.09	1.02/0.97
Nitrate-N	0.89	0.01	SM 418 E	OD	03/04/11	< 0.01	0.07/0.07	0.46/0.49
Phosphorus	2.45	0.01	EPA 6010C	MO	02/28/11	< 0.01	2.30/2.30	1.51/1.68
Potassium	0.55	0.01	EPA 6010C	MO	02/24/11	< 0.01	0.50/0.50	0.36/0.37

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysis Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	2.8	1.0	EPA 6010C	MO	02/24/11	< 1.0	1.9/2.3	82.0/83.8
Cadmium	0.9	0.5	EPA 6010C	MO	02/24/11	< 0.5	0.7/0.7	8.6/8.4
Chromium	20.0	1.0	EPA 6010C	MO	02/25/11	< 1.0	15.8/16.1	43.3/41.9
Copper	172	1.0	EPA 6010C	MO	02/25/11	< 1.0	306/310	1020/922
Mercury	0.22	0.02	EPA 7471B	MO	02/23/11	< 0.02	0.57/0.66	2.40/2.78
Molybdenum	5.1	1.0	EPA 6010C	MO	02/24/11	< 1.0	7.8/8.0	41.6/41.9
Nickel	14.9	1.0	EPA 6010C	MO	02/24/11	< 1.0	19.2/19.7	44.9/41.9
Lead	26.3	1.0	EPA 6010C	MO	02/24/11	< 1.0	12.0/12.4	44.7/41.9
Selenium	11.0	1.0	EPA 6010C	MO	02/24/11	< 1.0	7.5/8.0	82.2/83.8
Zinc	719	2.0	EPA 6010C	MO	02/28/11	< 2.0	1330/1360	1650/1718

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

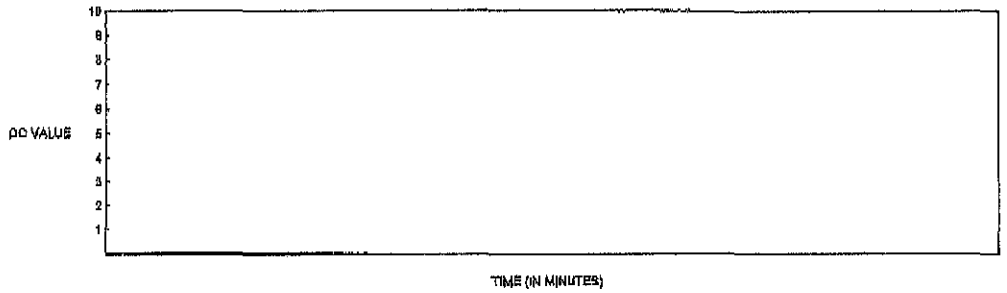
Test Report
Oakwilde - Municipal Operations and Consulting
CLASS B

Report #211776 | Report Generated 02/14/2011 08:59
Site: MUN 192 | Page 1 of 1

RECEIVED FEB 15 2011

Analysis performed on sludge sample collected 02/09/2011 10:10 by Jason Keasling from the Digester

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10604141	690,000	CFU/g TS	SM 9222 D	OD	02/09/2011 16:48
Fecal Coliform	Sample ID: 10604142	610,000	CFU/g TS	SM 9222 D	OD	02/09/2011 16:48
Fecal Coliform	Sample ID: 10604143	700,000	CFU/g TS	SM 9222 D	OD	02/09/2011 16:48
Fecal Coliform	Sample ID: 10604144	640,000	CFU/g TS	SM 9222 D	OD	02/09/2011 16:48
Fecal Coliform	Sample ID: 10604145	620,000	CFU/g TS	SM 9222 D	OD	02/09/2011 16:48
Fecal Coliform	Sample ID: 10604146	660,000	CFU/g TS	SM 9222 D	OD	02/09/2011 16:48
Fecal Coliform	Sample ID: 10604147	590,000	CFU/g TS	SM 9222 D	OD	02/09/2011 16:48
Fecal Coliform	Geometric Mean	6.4E+05	640,000	CFU/g TS		
Total Solids	Sample ID: 10604140	1.4	%	SM 2540 G	OD	02/09/2011 17:30
S.O.U.R. Test	Sample ID: 10604140	0.35	mg O2/hr/g TS	SM 2710 B	OD	02/09/2011 17:25



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
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

192 - Oakwilde

Site: 192
Oakwilde

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77037

NOTE: Combo 8144

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-6523	Aeration	02/09/11	1010	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
2	1060-4139	Digester	02/09/11	"	GRAB	1000mL	Amber	Liquid	4ºC	365D	PCB EPA 608
3	1060-4140	Digester	02/09/11	"	GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM 2540 G SM 2710 B
4	1060-4141	Digester	02/09/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
5	1060-4142	Digester	02/09/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
6	1060-4143	Digester	02/09/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
7	1060-4144	Digester	02/09/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
8	1060-4145	Digester	02/09/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
9	1060-4146	Digester	02/09/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1060-4147	Digester	02/09/11	"	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
11	1060-4148	Digester	02/09/11	"	GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP EPA 1311
12	1060-6525	Outfall 001	02/09/11	"	GRAB	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N SM 4500-NH3 D
13	1060-6526	Outfall 001	02/09/11	"	GRAB	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
14	1060-6527	Outfall 001	02/09/11	"	GRAB	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
15	1060-6528	Raw	02/09/11	"	GRAB	250mL	Glass	Liquid	4ºC	7D	RTSS SM 2540 D
16	1060-6529	Raw	02/09/11	"	GRAB	250mL	Glass	Liquid	4ºC	48H	RBOD SM 5210 B

Field Analysis Time	1010
Digester Temperature	23°C
4 Outfall 001 DO	7.73
Outfall 001 Flow	6.0 inches - 90° Weir
Outfall 001 pH	7.28
Raw pH	7.16
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Jason Keasling	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2-9-11 / Time:	Received For Laboratory By (Signature)	Date: 2-9-11 / Time: 1622

pH Meter #4 Calibration

Time	Slope	Buffers
06:40	56.9	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
06:45	18	9.47

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

192 - Oakwilde

Site: 192
Oakwilde

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Sunbelt
410 West Gulf Bank
Houston, TX 77037

NOTE: Combo 8144

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1060-6530	Raw	02/09/11	1010	GRAB	500mL	Glass	Liquid	H2SO4 4ºC	28D	RNH3-N SM 4500-NH3 D
18	1060-6524	Re Aeration	02/09/11	"	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D EPA 160.4
19		Dig	2/9/11	11	GRAB						BLF 1060-9292
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(if different than sampler)

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Jason Keasling				
Print Name: Jason Keasling	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature): Jason Keasling	Date: 2-9-11 Time: 1622	Received For Laboratory By (Signature): Curt Rx	Date: 2-9-11 Time: 1622

pH Meter #4 Calibration

Time	Slope	Buffers
06:40	56.9	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
06:45	18	9.47

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Pecan Grove 20 WWTP
SAMPLE DATE: 12/02/11
SAMPLE TIME: 11:10
SAMPLED BY: AR

DATE RECEIVED: 12/02/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1072-1106
LAB FILE ID: 11912015

Sludge Analysis

PARAMETER	RESULT %	MAL %	Method	Analysts Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	0.8	0.1	SM 2540 G	OD	12/08/11	< 0.1	1.01/0.97	~
TKN	3.89	0.01	SM 4500N C	OD	12/28/11	< 0.01	5.67/5.73	2.83/2.89
Ammonia-N	0.25	0.12	SM 4500NH3 C	OD	12/27/11	< 0.01	0.53/0.55	0.58/0.55
Nitrate-N	0.28	0.01	SM 418 E	OD	12/27/11	< 0.01	0.49/0.46	0.26/0.28
Phosphorus	0.90	0.01	EPA 6010C	MO	12/12/11	< 0.01	0.02/0.02	1.62/1.96
Potassium	0.67	0.01	EPA 6010C	MO	12/13/11	< 0.01	0.02/0.02	9.86/9.78

POLLUTANT	RESULT mg/kg	MAL mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	2.8	1.0	EPA 6010C	MO	12/12/11	< 1.0	<1.0/<1.0	939.0/977.8
Cadmium	0.6	0.5	EPA 6010C	MO	12/12/11	< 0.5	0.2/0.2	94.8/97.8
Chromium	48.5**	1.0	EPA 6010C	MO	12/10/11	< 1.0	4.0/2.5	469.5/488.9
Copper	943	1.0	EPA 6010C	MO	12/13/11	< 1.0	150/157	10843/10756
Mercury	0.05	0.02	EPA 7471B	ER	12/28/11	< 0.02	0.08/0.05	3.44/3.38
Molybdenum	7.0**	1.0	EPA 6010C	MO	12/10/11	< 1.0	0.8/0.6	477.4/488.9
Nickel	28.5**	1.0	EPA 6010C	MO	12/10/11	< 1.0	6.1/2.2	491.9/488.9
Lead	17.5	1.0	EPA 6010C	MO	12/12/11	< 1.0	14.6/16.9	430.1/488.9
Selenium	4.3	1.0	EPA 6010C	MO	12/12/11	< 1.0	<1.0/<1.0	837.0/977.8
Zinc	1170	2.0	EPA 6010C	MO	12/13/11	< 2.0	3060/3030	20270/20046

* MAL = Minimum Analytical Level
** - batch dup RPD > laboratory CL
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

541 - Pecan Grove 20

Site: 541
Pecan Grove 20

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

NOTE: comb 2006

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1072-1105	Aeration	12/02/11	11:10	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS SM 2540 D
2	1072-1106	Digester	12/02/11		GRAB	1000mL	Glass	Solid	4ºC	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/NH3N-S-T/NO3N-S-T/Ni-S/P-S-ICP/Pb-S/Se-S/TKN-S-T/Zn-S EPA 6010C SM 4186 SM 2540 G EPA 7471B EPA 350.2 EPA 351.3
3	1072-1107	Digester	12/02/11		GRAB	1000mL	HDPE	Solid	4ºC	7D	PCBC EPA 8082
4	1072-1108	Digester	12/02/11		GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP EPA 1311
5	1072-1109	Outfall 001	12/02/11		GRAB	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC ASTM D6919-03
6	1072-1110	Outfall 001	12/02/11		GRAB	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
7	1072-1111	Outfall 001	12/02/11		GRAB	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
8	1072-1112	Outfall 001	12/02/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	8H	ECOLIDEX SM 9223 B
9											
10											
11											
12											
13											
14											
15											
16											

Field Analysis Time	11:10
Outfall 001 DO	8.41 #4
Outfall 001 Flow	3.5" Inches - 22.5° Weir
Outfall 001 pH	7.13
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 12/02/11 Time: 1455	Received For Laboratory By (Signature)	Date: 12/02/11 Time: 1455

pH Meter #1 Calibration

Time	Slope	Buffers
03:33	56.7	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
03:33	22	8.74

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

CERTIFICATE OF ANALYSIS

CLIENT:	**PECAN GROVE MUD**	LAB NUMBER:	AC59363B
DATE COLLECTED:	15-Apr-11	DATE RECEIVED:	15-Apr-11
DATE COMPLETED:	13-May-11	SAMPLED BY:	MB

SAMPLE TYPE: **Processes to Significantly Reduce Pathogens (PSRP)**

LOCATION:	BELT PRESS CAKE @ 0920	**LIMITS**
PARAMETERS:		
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	6,760	2,000,000 CFU/g/TS
Vector Attraction Pontential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.25	1.5 mgO2/gram/Hr.
Sludge Characteristics		
Total Solids (%)	17.80	N/A
Volatile Solids (%)	10.00	N/A
Organic Conc. (%)	56.2	
Soil pH - Measured in Water (Units)	6.64	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	24/24	(+/- 1C) - Var.

CERTIFIED BY

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

Envirodyne Laboratories, Inc.
11011 Brooklet. Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

ACCREDITED IN ACCORDANCE WITH nelac
TCEQ Certification # T104704265-08-TX

E A019880

Page ___ Of ___

Analysis Request and Chain of Custody Record

Name: EDP
Address: 2035 FM 359
City: Richmond, TX 77469
Contact: Andy Phelps
Phone: 281-238-5000 Fax:

Project No.
Client/Project: Pecan Grove

Lab ID No.	Field Sample No./ Identification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
11-216605	Belt Press Cake ACS9363	4-15-11 0920	/		1 Lt/G	Solid	Ice	TCLP, BLF, PSRP				

Samplers: (Signature)	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
	Relinquished by: (Signature)	Date: 4-15-11 Time: 1514	Received by Lab: (Signature)	Date: 4/15/11 Time: 1545	Seal Intact?
Remarks:	FLOW: ___ Meter Reading: ___ Cl_2 Residual: ___ Mn Correction: ___ Cl_2 Corrected	Arrival Temp. 3	Data Results To:		Laboratory No.
			Site Representative:	Date: Time:	

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Rayford Road WWTP
SAMPLE DATE: 01/19/12
SAMPLE TIME: 14:20
SAMPLED BY: JK

DATE RECEIVED: 01/19/12
SAMPLE MATRIX: Sludge
SAMPLE ID: 1073-6903
LAB FILE ID: 30612001

Sludge Analysis

PARAMETER	RESULT %	MAL* %	Method	Analyst Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.4	0.1	SM 2540 G	OD	01/20/12	< 0.1	2.25/2.20	~
TKN	6.90	0.01	SM 4500N C	OD	02/03/12	< 0.01	7.57/6.90	0.31/0.29
Ammonia-N	0.76	0.12	SM 4500NH3 C	OD	02/03/12	< 0.01	0.76/0.76	0.41/0.49
Nitrate-N	1.07	0.01	SM 418 E	OD	02/03/12	< 0.01	1.07/1.07	0.25/0.25
Phosphorus	1.50	0.01	EPA 6010C	MO	02/12/12	< 0.01	1.49/1.50	1.40/1.62
Potassium	0.49	0.01	EPA 6010C	MO	02/12/12	< 0.01	0.31/0.31	0.81/0.81

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analyst Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	3.5	1.0	EPA 6010C	MO	02/10/12	< 1.0	9.4/9.0	76.5/81.1
Cadmium	0.7	0.5	EPA 6010C	MO	02/10/12	< 0.5	0.8/0.8	7.8/8.1
Chromium	16.2	1.0	EPA 6010C	MO	02/10/12	< 1.0	13.5/12.7	36.0/40.6
Copper	457	1.0	EPA 6010C	MO	02/10/12	< 1.0	490/499	881/892
Mercury	0.42	0.02	EPA 7471B	ER	01/31/12	< 0.02	0.42/0.42	1.68/1.90
Molybdenum	6.2	1.0	EPA 6010C	MO	02/10/12	< 1.0	10.1/9.9	36.7/40.6
Nickel	9.0	1.0	EPA 6010C	MO	02/10/12	< 1.0	9.5/8.9	35.1/40.6
Lead	10.2	1.0	EPA 6010C	MO	02/10/12	< 1.0	18.0/15.6	35.1/40.6
Selenium	9.1	1.0	EPA 6010C	MO	02/10/12	< 1.0	4.6/4.9	23.3/25.0
Zinc	968	2.0	EPA 6010C	MO	02/12/12	< 2.0	1100/1130	1680/1663

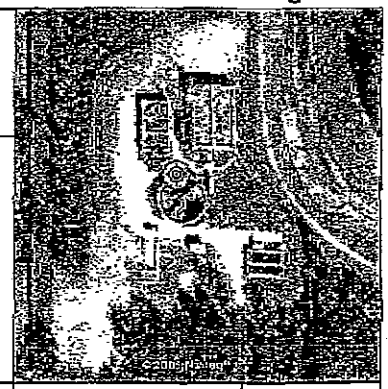
* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

15 - Rayford Road MUD



Site: 15
Rayford Road MUD

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: Combo 2146

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1073-8246	Outfall 001 Sampler	01/18/12	1300	24HR COMP	250mL	HDPE	Liquid	HNO3	180D	CU EPA 200.7
2	1073-8247	Outfall 001 Sampler	01/18/12	|	24HR COMP	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC ASTM D6919-03
3	1073-8248	Outfall 001 Sampler	01/18/12	|	24HR COMP	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
4	1073-8249	Outfall 001 Sampler	01/18/12	|	24HR COMP	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
5	1073-8250	Aeration	01/19/12	1420	GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS/VSS SM 2540 D-EPA 160.4
6	1073-6901	Digester	01/19/12	|	GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM 2540 B SM 2710 B
7	1073-6902	Digester	01/19/12	|	GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLPHerb/TCLPPest/TCLPSVOA EPA 6020 EPA 200.7 EPA 245.1 EPA 1311 A EPA 8081
8	1073-6903	Digester	01/19/12	|	GRAB	1000mL	Glass	Solid	4ºC	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/K-S/Mo-S/Ni-S/N-S-T/NCON-S-T/Ni-S/P-S-ICP/Pb-S/Se-S/SXN-S-T Zn EPA 6010C SM 4500 E SM 2540 G EPA TX 716 EPA 350.1 EPA 351.3
9	1073-6904	Digester	01/19/12	|	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1073-6905	Digester	01/19/12	|	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
11	1073-6906	Digester	01/19/12	|	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
12	1073-6907	Digester	01/19/12	|	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
13	1073-6908	Digester	01/19/12	|	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
14	1073-6909	Digester	01/19/12	|	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
15	1073-6910	Digester	01/19/12	|	GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
16	1073-6911	Digester	01/19/12	|	GRAB	1000mL	HDPE	Solid	4ºC	7D	PCBC EPA 8082

Field Analysis Time	1420
Digester Temperature	25°C
17 Outfall 001 DO	7.96
Outfall 001 pH	7.42
Collected By (if different than sampler)	

Sampler (Signature): Jason Keasling
Print Name: Jason Keasling
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date: — Time:
Relinquished By (Signature) — Date: — Time:
Relinquished To Laboratory By (Signature): Jason Keasling — Date: 1.19.12 — Time: 1531

Received By (Signature) — Date: — Time:
Received By (Signature) — Date: — Time:
Received For Laboratory By (Signature): Curtis — Date: 1.19.12 — Time: 1531

pH Meter #4 Calibration		
Time	Slope	Buffers
08:30	56.9	4:7:10

DO Meter #4 100% Air Calibration		
Time	Temp °C	D.O.
08:35	18	9.47

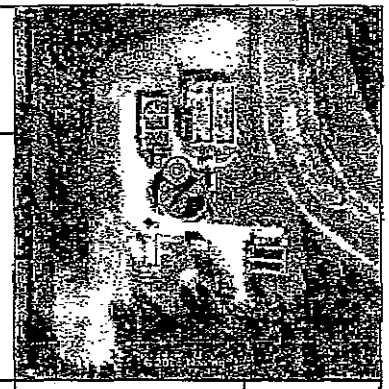
P. 005
FAX No.
MAR/08/2012/THU 03:20 PM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

15 - Rayford Road MUD



Site: 15
Rayford Road MUD

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: Combo 2146

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1073-6912	Digester	01/19/12	1420	GRAB	60mL	VOA VIAL	Sludge	4°C	14D	TCLP VOA EPA 624
18	1073-8251	Re Aeration	01/19/12	--	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540D EPA 160.4
19											
20											
21											
22											
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24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(if different than sampler)

Sampler (Signature): Jason Keasling

Print Name: Jason Keasling

Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date: — Time:

Relinquished By (Signature) — Date: — Time:

Relinquished To Laboratory By (Signature): Jason Keasling — Date: 1-19-12 — Time: 1531

Received By (Signature) — Date: — Time:

Received By (Signature) — Date: — Time:

Received For Laboratory By (Signature): Curtis — Date: 1-19-12 — Time: 1531

pH Meter #4 Calibration

Time	Slope	Buffers
03:30	56.9	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
03:35	18	9.47

P. 006
FAX No.
MAR/08/2012/THU 03:20 PM

NWDLS North Water District Laboratory Services, Inc.
8725 Town Park - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

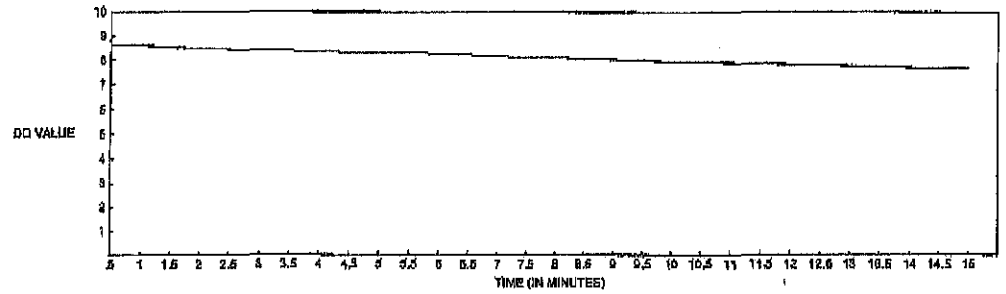
Rayford Road MUD - Municipal Operations and Consulting

Report #2317.10 Report Generated 01/23/2012 09:29

CLASS B Site: MUN 15

Analysis performed on sludge sample received on 01/19/2012 15:31 collected by Jason Keasling from the Digester at 01/19/2012 14:20

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10736904	17,000	CFU/g TS	SM 9222 D	OD	01/19/2012 17:14
Fecal Coliform	Sample ID: 10736905	14,000	CFU/g TS	SM 9222 D	OD	01/19/2012 17:14
Fecal Coliform	Sample ID: 10736906	14,000	CFU/g TS	SM 9222 D	OD	01/19/2012 17:14
Fecal Coliform	Sample ID: 10736907	16,000	CFU/g TS	SM 9222 D	OD	01/19/2012 17:14
Fecal Coliform	Sample ID: 10736908	14,000	CFU/g TS	SM 9222 D	OD	01/19/2012 17:14
Fecal Coliform	Sample ID: 10736909	16,000	CFU/g TS	SM 9222 D	OD	01/19/2012 17:14
Fecal Coliform	Sample ID: 10736910	14,000	CFU/g TS	SM 9222 D	OD	01/19/2012 17:14
Fecal Coliform	Geometric Mean	1.5E+04	15,000	CFU/g TS		
Total Solids	Sample ID: 10736901	1.4	%	SM 2540 G	OD	01/19/2012 19:15
S.O.U.R. Test	Sample ID: 10736901	0.53	mg O2/hr/g TS	SM 2710 B	OD	01/19/2012 05:35



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.

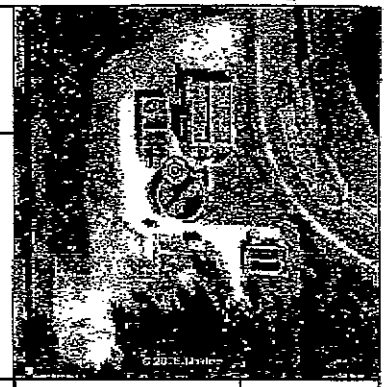
Derek McCoy
Technical Director

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Pawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

15 - Rayford Road MUD



Site: 15
Rayford Road MUD

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: Combo 2148

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1073-8246	Outfall 001 Sampler	01/18/12	1800	24HR COMP	250mL	HDPE	Liquid	HNO3	180D	CU EPA 200.7
2	1073-8247	Outfall 001 Sampler	01/18/12	↓	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N-IC ASTM D6918-03
3	1073-8248	Outfall 001 Sampler	01/18/12	↓	24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
4	1073-8249	Outfall 001 Sampler	01/18/12	↓	24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
5	1073-8250	Aeration	01/19/12	1420	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
6	1073-6901	Digester	01/19/12	↓	GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2210 B
7	1073-6902	Digester	01/19/12	↓	GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP Ag/TCLP As/TCLP Ba/TCLP Cd/TCLP Cr/TCLP Hg/TCLP Pb/TCLP Se/TCLPHerb/TCLPPest/TCLPSVOA EPA 1670 EPA 2000 EPA 2451 EPA 4153A EPA 8081
8	1073-6903	Digester	01/19/12	↓	GRAB	1000mL	Glass	Solid	4°C	7D	% Solids/As-S/Cd-S/Cr-S/Cu-S/Hg-S/Ni-S/Mo-S/NH3N-S-T/NO3N-S-T/N-S/P-S-ICP/Pb-S/Se-S/Tl/Ni-S-T/Zn EPA 6010C SM 4500 SM 2540 G EPA 7470B EPA 3052 EPA 351.4
9	1073-6904	Digester	01/19/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1073-6905	Digester	01/19/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
11	1073-6906	Digester	01/19/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
12	1073-6907	Digester	01/19/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
13	1073-6908	Digester	01/19/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
14	1073-6909	Digester	01/19/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
15	1073-6910	Digester	01/19/12	↓	GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
16	1073-6911	Digester	01/19/12	↓	GRAB	1000mL	HDPE	Solid	4°C	7D	PCBC EPA 8082

Field Analysis Time	1420
Digester Temperature	25°C
Outfall 001 DO	17 / 7.96
Outfall 001 pH	7.42
Collected By (if different than sampler)	

Sampler (Signature): Jason Keasling
Print Name: Jason Keasling
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature): Date: Time:
Relinquished By (Signature): Date: Time:
Relinquished To Laboratory By (Signature): Jason Keasling Date: 1-19-12 Time: 1531

Received By (Signature): Date: Time:
Received By (Signature): Date: Time:
Received For Laboratory By (Signature): Date: 1-19-12 Time: 1531

pH Meter #4 Calibration

Time	Slope	Buffers
09:30	56.9	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
09:35	18	9.47

P. 003
FAX No.
JAN/27/2012/FRI 03:13 PM

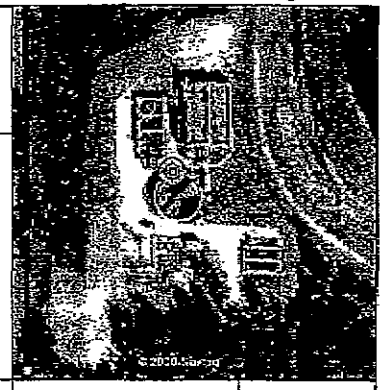
Route: Jason Keasling 01/19/12

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

15 - Rayford Road MUD



Site: 15
Rayford Road MUD

Customer: MUN
Municipal Operations and Consulting
312 Spring Hill Dr. Ste #100
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: Combo 2146

DO min: 4.0

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1073-6912	Digester	01/19/12	1420	GRAB	60mL	VOA VIAL	Sludge	4°C	14D	TCLP VOA EPA 624
18	1073-8251	Re Aeration	01/19/12	"	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540-D EPA 160.4
19											
20											
21											
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24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(If different than sampler)

Sampler (Signature): Jason Keasling
Print Name: Jason Keasling
Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date: — Time:
Relinquished By (Signature) — Date: — Time:
Relinquished To Laboratory By (Signature): Jason Keasling — Date: 1-19-12 — Time: 1531

Received By (Signature) — Date: — Time:
Received By (Signature) — Date: — Time:
Received For Laboratory By (Signature): Curt Fu — Date: 1-19-12 — Time: 1531

pH Meter #4 Calibration

Time	Slope	Buffers
03:30	56.9	4:7:10

DO Meter #4 100% Air Calibration

Time	Temp °C	D.O.
03:35	18	9.47

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

CLIENT: Municipal Operations
230 Spring Hill Dr. #325
Spring, Texas 77386
John Montgomery

Test Report

SAMPLE LOCATION:	WHC MUD 15 WWTP	DATE RECEIVED:	02/02/11
SAMPLE DATE:	02/02/11	SAMPLE MATRIX:	Sludge
SAMPLE TIME:	8:45	SAMPLE ID:	1060-3891
SAMPLED BY:	KE	LAB FILE ID:	31911005

All Tests were Performed in Accordance with:

"Test Methods for Evaluating Solid Waste", SW-846, Third Edition, 1995.

Code of Federal Regulations, 40 CFR (7/1/95 Edition), Ch. 1, Pt. 261, App. 2, Method 1311.

PARAMETER	RESULT mg/kg	MAL mg/kg	SW-846 Method	Analysis Initials	Date of Analysis	Blank mg/kg	LCS % Recovery	LSD % Recovery
PCBs	<2.0	2.0	8082	JL	03/16/11	< 2.0	119.4	125.0

* PCB 1260

Derek McCoy
Technical Director

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: WHC MUD 15 WWTP
SAMPLE DATE: 02/02/11
SAMPLE TIME: 8:45
SAMPLED BY: KE

DATE RECEIVED: 02/02/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1060-5131
LAB FILE ID: 31911005

B.L.F.

PARAMETER	RESULT %	MAL %	Method	Analysts Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.7	0.1	SM 2540 G	OD	02/08/11	< 0.1	1.4/1.4	~
TKN	6.18	0.01	SM 4500N C	OD	02/17/11	< 0.01	6.40/6.69	2.81/2.86
Ammonia-N	0.88	0.12	SM 4500NH3 C	OD	02/15/11	< 0.01	0.77/0.79	1.05/0.99
Nitrate-N	0.19	0.01	SM 418 E	OD	02/15/11	< 0.01	0.36/0.38	0.50/0.50
Phosphorus	1.84	0.01	EPA 6010C	MO	02/14/11	< 0.01	2.67/2.66	1.75/1.89
Potassium	0.45	0.01	EPA 6010C	MO	02/11/11	< 0.01	0.62/0.62	0.98/0.94

POLLUTANT	RESULT mg/kg	MAL mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	2.9	1.0	EPA 6010C	MO	02/10/11	< 1.0	1.2/1.0	91.4/94.1
Cadmium	1.8	0.5	EPA 6010C	MO	02/10/11	< 0.5	1.1/1.1	9.4/9.4
Chromium	27.7	1.0	EPA 6010C	MO	02/10/11	< 1.0	15.6/16.7	47.5/47.1
Copper	489	1.0	EPA 6010C	MO	02/14/11	< 1.0	311/312	1068/1035
Mercury	0.32	0.02	EPA 7471B	MO	02/10/11	< 0.02	0.38/0.37	1.93/1.92
Molybdenum	103	1.0	EPA 6010C	MO	02/11/11	< 1.0	6.5/6.7	46.8/47.1
Nickel	16.7	1.0	EPA 6010C	MO	02/10/11	< 1.0	15.8/16.7	49.3/47.1
Lead	16.7	1.0	EPA 6010C	MO	02/10/11	< 1.0	9.8/10.0	48.9/47.1
Selenium	4.8	1.0	EPA 6010C	MO	02/10/11	< 1.0	5.8/5.2	95.8/94.1
Zinc	468	2.0	EPA 6010C	MO	02/14/11	< 2.0	1000/1020	1800/1929

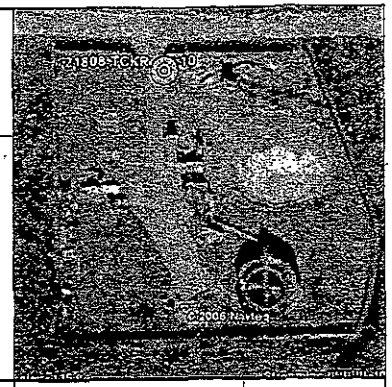
* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

10 - WHC MUD 15



Site: 10
WHC MUD 15

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: gate combination 2146
reset sampler for Tuesday Thursday
start time

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-3887	Outfall 001 Sampler	02/02/11	0400	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	25D	NH3-N/TKN SM 4500-NH3 D
2	1060-3888	Outfall 001 Sampler	02/02/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	BOD SM 5210 B
3	1060-3889	Outfall 001 Sampler	02/02/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
4	1060-3890	Outfall 001 Sampler	02/02/11		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
5	1060-3908	#1 RAS	02/02/11	0845	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS SM 2540 D
6	1060-3909	#2 RAS	02/02/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS SM 2540 D
7	1060-3891	Digester	02/02/11		GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA 608
8	1060-3892	Digester	02/02/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 B
9	1060-3893	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1060-3894	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
11	1060-3895	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
12	1060-3896	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
13	1060-3897	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
14	1060-3898	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
15	1060-3899	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
16	1060-3900	Digester	02/02/11		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP EPA 1311

Move to Frt. KE

Field Analysis Time	0845
(9) Clarifier #1 DO	2.21
(10) Clarifier #2 DO	2.16
Digester Temperature	21.8
(11) Outfall 001 DO	10.54
Outfall 001 pH	7.56
(12) Plant #1 Aer. DO	2.31
Plant #1 Aer. pH	7.35
(13) Plant #2 Aer. DO	2.37
Plant #2 Aer. pH	7.42
Collected By (if different than sampler)	
(21) DO Clr #2	2.15

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Kenneth Elliot	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/2/11 Time: 1337	Received For Laboratory By (Signature)	Date: 2/2/11 Time: 1337

pH Meter #3 Calibration

Time	Slope	Buffers
02:50	56.2	4:7:10

DO Meter #3 100% Air Calibration

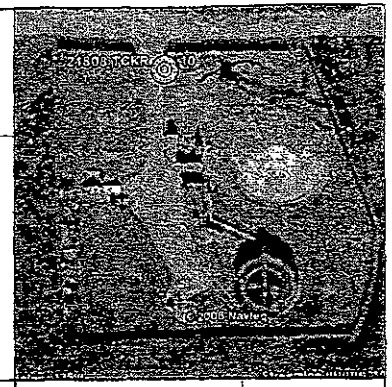
Time	Temp °C	D.O.
02:50	20	9.09

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

10 - WHC MUD 15



Site: 10
WHC MUD 15

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: gate combination 2146
reset sampler for Tuesday Thursday
start time

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1060-3904	Plant #1 Aer.	02/02/11	0845	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
18	1060-3905	Plant #1 Aer.	02/02/11		GRAB	250mL	Glass	Sludge			Mic
19	1060-3906	Plant #2 Aer.	02/02/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
20	1060-3907	Plant #2 Aer.	02/02/11		GRAB	250mL	Glass	Sludge			Mic
21	1060-3901	Raw	02/02/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D
22	1060-3902	Raw	02/02/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B DEP 15 212
23	1060-3903	Raw	02/02/11		GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-N SM 4500-NH3 D
24		Dig	2/2/11	845							BLF 1060-5131
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time	0845
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Kenneth Elliot	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/2/11 / Time:	Received For Laboratory By (Signature)	Date: 2/2/11 / Time:

pH Meter #3 Calibration

Time	Slope	Buffers
02:50	56.2	4:7:10

DO Meter #3 100% Air Calibration

Time	Temp °C	D.O.
02:50	20	9.09

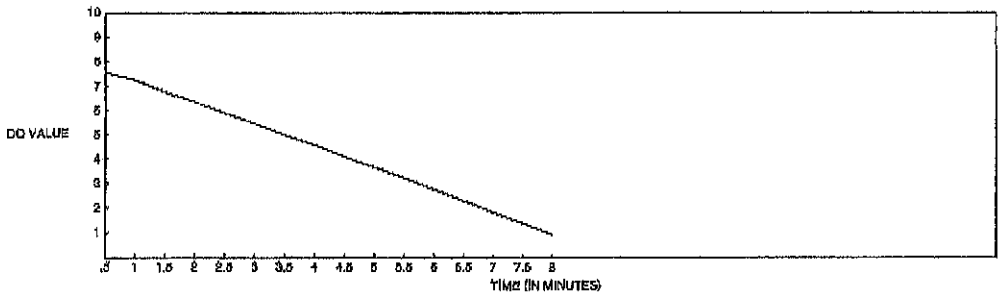
NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report
WHC MUD 15 - Municipal Operations and Consulting
15918 Tuckerton Rd
CLASS B

Report #232835 | Report Generated 02/13/2012 07:19
Site: MUN 10 |

Analysis performed on sludge sample received on 02/08/2012 11:10 collected by Kenneth Elliot from the Digester at 02/08/2012 07:50

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10736481	190,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:24
Fecal Coliform	Sample ID: 10736482	240,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:24
Fecal Coliform	Sample ID: 10736483	280,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:24
Fecal Coliform	Sample ID: 10736484	220,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:24
Fecal Coliform	Sample ID: 10736485	230,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:24
Fecal Coliform	Sample ID: 10736486	300,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:24
Fecal Coliform	Sample ID: 10736487	190,000	CFU/g TS	SM 9222 D	ALR	02/08/2012 12:24
Fecal Coliform	Geometric Mean	2.3E+05	230,000	CFU/g TS		
Total Solids	Sample ID: 10736478	1.3	%	SM 2540 G	OD	02/08/2012 16:30
S.O.U.R. Test	Sample ID: 10736478	8.16	mg O2/hr/g TS	SM 2710 B	OD	02/08/2012 01:52



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

CLASS B - FAIL

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
Technical Director

P. 003/032

FAX No.

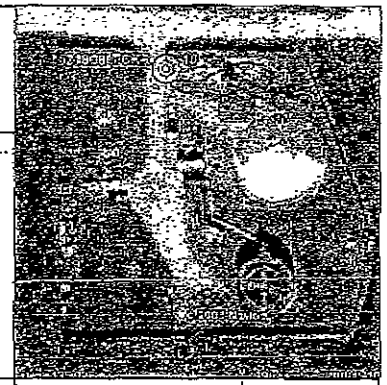
FEB/14/2011/MON 10:47 AM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

10 - WHC MUD 15



Site: 10
WHC MUD 15

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: gate combination 2146
reset sampler for Tuesday Thursday start time

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-3887	Outfall 001 Sampler	02/02/11	0400	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N/TKN SM4500-NH3-D
2	1060-3888	Outfall 001 Sampler	02/02/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	BOD SM5210-B
3	1060-3889	Outfall 001 Sampler	02/02/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM5210-B
4	1060-3890	Outfall 001 Sampler	02/02/11		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM2540-D
5	1060-3908	#1 RAS	02/02/11	0845	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS SM2540-D
6	1060-3909	#2 RAS	02/02/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS SM2540-D
7	1060-3891	Digester	02/02/11		GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA608
8	1060-3892	Digester	02/02/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM2540 G/SM2710 B
9	1060-3893	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222-D
10	1060-3894	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222-D
11	1060-3895	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222-D
12	1060-3896	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222-D
13	1060-3897	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222-D
14	1060-3898	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222-D
15	1060-3899	Digester	02/02/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222-D
16	1060-3900	Digester	02/02/11		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP EPA1311

Note to Fit. Lab

Field Analysis Time	
	0845
(9) Clarifier #1 DO	2.21
(10) Clarifier #2 DO	2.16
Digester Temperature	21.8
(11) Outfall 001 DO	10.54
Outfall 001 pH	7.51
(12) Plant #1 Aer. DO	2.31
Plant #1 Aer. pH	7.35
(13) Plant #2 Aer. DO	2.37
Plant #2 Aer. pH	7.42
Collected By (if different than sampler)	
(14) Q2 Clar #2	2.15

Sampler (Signature)	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Print Name: Kenneth Elliot	Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/2/11 Time: 1737	Received For Laboratory By (Signature)	Date: 2/2/11 Time: 1737

pH Meter #3 Calibration

Time	Slope	Buffers
02:50	56.2	4:7:10

DO Meter #3 100% Air Calibration

Time	Temp °C	D.O.
02:50	20	9.09

P. 004/032

FAX No.

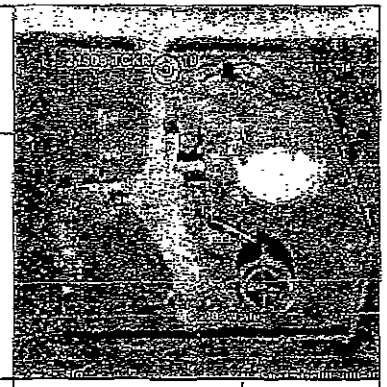
FEB/14/2011/MON 10:47 AM

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

10 - WHC MUD 15



Site: 10
WHC MUD 15

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: gate combination 2146
reset sampler for Tuesday Thursday
start time

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1060-3904	Plant #1 Aer.	02/02/11	0845	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM2540 E EPA 160.4
18	1060-3905	Plant #1 Aer.	02/02/11		GRAB	250mL	Glass	Sludge			Mic
19	1060-3906	Plant #2 Aer.	02/02/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM2540 G EPA 160.4
20	1060-3907	Plant #2 Aer.	02/02/11		GRAB	250mL	Glass	Sludge			Mic
21	1060-3901	Raw	02/02/11		GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM2540 D
22	1060-3902	Raw	02/02/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM5210 B diff to 212
23	1060-3903	Raw	02/02/11		GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-N SM4500-NH3 D
24		Dig	2/2/11	845							BLF 1060-5131
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time 0845

Collected By
(if different than sampler)

Sampler (Signature)

Print Name: Kenneth Elliot

Affiliation: N.W.D.L.S., Inc.

Relinquished By (Signature) — Date / Time

Received By (Signature) — Date / Time

Relinquished By (Signature) — Date / Time

Received By (Signature) — Date / Time

Relinquished To Laboratory By (Signature) — Date 2/2/11 / Time

Received For Laboratory By (Signature) — Date 2/2/11 / Time

pH Meter #3 Calibration

Time	Slope	Buffers
02:50	56.2	4-7-10

DO Meter #3 100% Air Calibration

Time	Temp °C	D.O.
02:50	20	9.09

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: West Park MUD WWTP
SAMPLE DATE: 04/05/11
SAMPLE TIME: 12:00
SAMPLED BY: AR

DATE RECEIVED: 04/05/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1063-0126
LAB FILE ID: 51211007

Sludge Analysis

PARAMETER	RESULT %	MAL* %	Method	Analysts Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.9	0.1	SM 2540 G	OD	04/11/11	< 0.1	1.02/1.08	~
TKN	6.10	0.01	SM 4500N C	OD	04/29/11	< 0.01	5.90/6.10	2.78/2.85
Ammonia-N	0.52	0.12	SM 4500NH3 C	OD	04/29/11	< 0.01	0.52/0.52	0.55/0.51
Nitrate-N	0.18	0.01	SM 418 E	OD	04/29/11	< 0.01	0.19/0.18	0.24/0.26
Phosphorus	2.28	0.01	EPA 6010C	MO	04/20/11	< 0.01	2.25/2.21	3.28/3.55
Potassium	0.69	0.01	EPA 6010C	MO	04/20/11	< 0.01	0.81/0.80	1.85/1.77

POLLUTANT	RESULT mg/kg	MAL* mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	6.8	1.0	EPA 6010C	MO	04/19/11	< 1.0	4.7/4.3	168.7/177.2
Cadmium	1.1	0.5	EPA 6010C	MO	04/19/11	< 0.5	0.7/0.7	17.0/17.7
Chromium	11.4	1.0	EPA 6010C	MO	04/19/11	< 1.0	20.5/20.3	85.7/88.6
Copper	356	1.0	EPA 6010C	MO	04/20/11	< 1.0	1150/1150	2210/1949
Mercury	0.56	0.02	EPA 7471B	MO	04/18/11	< 0.02	1.23/1.19	2.41/2.50
Molybdenum	7.1	1.0	EPA 6010C	MO	04/19/11	< 1.0	6.3/6.5	82.5/88.6
Nickel	12.4	1.0	EPA 6010C	MO	04/19/11	< 1.0	25.8/28.0	85.0/88.6
Lead	11.0	1.0	EPA 6010C	MO	04/19/11	< 1.0	21.0/20.9	86.1/88.6
Selenium	10.3	1.0	EPA 6010C	MO	04/20/11	< 1.0	1.8/2.2	175.8/177.2
Zinc	1100	2.0	EPA 6010C	MO	04/21/11	< 2.0	3170/3150	4360/3632

* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
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North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands. TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

33 - West Park MUD

Site: 33
West Park MUD

Customer: HAYS
Hays Utility Corporation
P.O. Box 1209
Spring, TX 77379

NOTE: Program sampler for next
Tuesday start
combo 1952

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1062-8791	Outfall 001 Sampler	04/05/11	0500	24HR COMP	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC/TKN T SM 4500-NH3 C ASTM D6919-03
2	1062-8792	Outfall 001 Sampler	04/05/11		24HR COMP	1000mL	Glass	Liquid	4ºC	48H	BOD SM 5210 B
3	1062-8793	Outfall 001 Sampler	04/05/11		24HR COMP	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
4	1062-8794	Outfall 001 Sampler	04/05/11		24HR COMP	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
5	1062-8797	Digester	04/05/11	12:00	GRAB	1000mL	Amber	Liquid	4ºC	365D	PCB EPA 608
6	1062-8798	Digester	04/05/11		GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM 2540 G SM 2710 B
7	1062-8799	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
8	1062-8800	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
9	1062-8801	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1062-8802	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
11	1062-8803	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
12	1062-8804	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
13	1062-8805	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
14	1062-8806	Digester	04/05/11		GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP EPA 1311
15	1062-8795	East Aer	04/05/11		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS SM 2540 D
16	1062-8807	Outfall 001	04/05/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	8H	ECOLIDEX SM 9223 B

Field Analysis	Time
	12:00
Digester Temperature	23.8°C
Outfall 001 DO	7.02
Outfall 001 pH	7.91
Collected By (If different than sampler)	

Dup DO: 7.00

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 4/05/11 / Time:	Received For Laboratory By (Signature)	Date: 4/05/11 / Time:

pH Meter #1 Calibration

Time	Slope	Buffers
02:44	57.1	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:44	20	9.09

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

33 - West Park MUD

Site: 33
West Park MUD

Customer: HAYS
Hays Utility Corporation
P.O. Box 1209
Spring, TX 77379

NOTE: Program sampler for next
Tuesday start
combo 1952

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time
17	1062-8788	Raw Bar Screen	04/05/11	12:00	GRAB	250mL	Glass	Liquid	4ºC	48H	RBOD SM 5210 B	Collected By
18	1062-8789	Raw Bar Screen	04/05/11		GRAB	250mL	Glass	Liquid	H2SO4 4ºC	28D	RNH3-IC ASTM D6919-03	(if different than sampler)
19	1062-8790	Raw Bar Screen	04/05/11		GRAB	250mL	Glass	Liquid	4ºC	7D	RTSS SM 2540 D	
20	1062-8796	West Aer	04/05/11		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS SM 2540 D	
21		Digestor	4/04/11	10:25	GRAB	500	HDPE	C	4ºC		% Solids — collected by operator (Andrew) 1063-0127	
22		dig	4/5/11	1000	Grab						BLF 1063-0128 & left in sampler.	
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 4/04/11 Time: 1479	Received For Laboratory By (Signature)	Date: 4/04/11 Time: 1479

pH Meter #1 Calibration

Time	Slope	Buffers
02:44	57.1	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:44	20	9.09

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

West Park MUD - Hays Utility Corporation

CLASS B

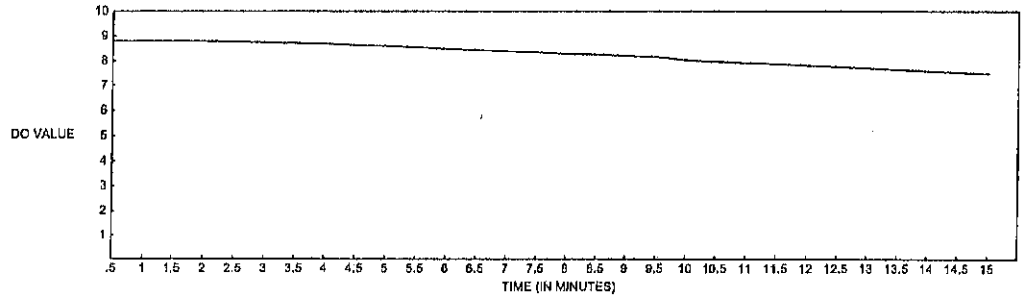
Report #214906

Report Generated 04/07/2011 09:25

Site: HAYS 33

Analysis performed on sludge sample collected 04/05/2011 12:00 by Angel Rodriguez from the Digester

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10628799	270,000	CFU/g TS	SM 9222 D	OD	04/05/2011 15:22
Fecal Coliform	Sample ID: 10628800	270,000	CFU/g TS	SM 9222 D	OD	04/05/2011 15:22
Fecal Coliform	Sample ID: 10628801	220,000	CFU/g TS	SM 9222 D	OD	04/05/2011 15:22
Fecal Coliform	Sample ID: 10628802	240,000	CFU/g TS	SM 9222 D	OD	04/05/2011 15:22
Fecal Coliform	Sample ID: 10628803	230,000	CFU/g TS	SM 9222 D	OD	04/05/2011 15:22
Fecal Coliform	Sample ID: 10628804	260,000	CFU/g TS	SM 9222 D	OD	04/05/2011 15:22
Fecal Coliform	Sample ID: 10628805	270,000	CFU/g TS	SM 9222 D	OD	04/05/2011 15:22
Fecal Coliform	Geometric Mean	2.5E+05	250,000	CFU/g TS		
Total Solids	Sample ID: 10628798	1.6	%	SM 2540 G	OD	04/05/2011 16:50
S.O.U.R. Test	Sample ID: 10628798	0.74	mg O2/hr/g TS	SM 2710 B	OD	04/05/2011 03:01



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
Technical Director

NWDLS
North Water District
Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

33 - West Park MUD

Site: 33
West Park MUD

Customer: HAYS
Hays Utility Corporation
P.O. Box 1209
Spring, TX 77379

NOTE: Program sampler for next
Tuesday start
combo 1952

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1062-8791	Outfall 001 Sampler	04/05/11	05:00	24HR COMP	500mL	Glass	Liquid	H2SO4 4ºC	28D	NH3-N-IC/TKN T SM 4500-NH3 C ASTM D6919-03
2	1062-8792	Outfall 001 Sampler	04/05/11		24HR COMP	1000mL	Glass	Liquid	4ºC	48H	BOD SM 5210 B
3	1062-8793	Outfall 001 Sampler	04/05/11		24HR COMP	1000mL	Glass	Liquid	4ºC	48H	CBOD SM 5210 B
4	1062-8794	Outfall 001 Sampler	04/05/11		24HR COMP	1000mL	Glass	Liquid	4ºC	7D	TSS SM 2540 D
5	1062-8797	Digester	04/05/11	12:00	GRAB	1000mL	Amber	Liquid	4ºC	365D	PCB EPA 608
6	1062-8798	Digester	04/05/11		GRAB	1000mL	Glass	Sludge	4ºC	24H	% Solids/SOUR SM 2540 G SM 2710 B
7	1062-8799	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
8	1062-8800	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
9	1062-8801	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
10	1062-8802	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
11	1062-8803	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
12	1062-8804	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
13	1062-8805	Digester	04/05/11		GRAB	110mL	HDPE	Sludge	4ºC	8H	FC-CB SM 9222 D
14	1062-8806	Digester	04/05/11		GRAB	1 gal	HDPE	Sludge	4ºC	14D	TCLP EPA 1311
15	1062-8795	East Aer	04/05/11		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS SM 2540 D
16	1062-8807	Outfall 001	04/05/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10ºC	8H	ECOLIDEX SM 9223 B

Field Analysis Time	
Digester Temperature	12:00
Outfall 001 DO	23.8
Outfall 001 pH	7.02
Collected By (if different than sampler)	7.91

Dup DO: 7.00

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 4/05/11 / Time:	Received For Laboratory By (Signature)	Date: 4/05/11 / Time:

pH Meter #1 Calibration

Time	Slope	Buffers
02:44	57.1	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:44	20	9.09

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

33 - West Park MUD

Site: 33
West Park MUD

Customer: HAYS
Hays Utility Corporation
P.O. Box 1209
Spring, TX 77379

NOTE: Program sampler for next
Tuesday start
combo 1952

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1062-8788	Raw Bar Screen	04/05/11	12:00	GRAB	250mL	Glass	Liquid	4ºC	48H	RBOD SM 5210 B
18	1062-8789	Raw Bar Screen	04/05/11		GRAB	250mL	Glass	Liquid	H2SO4 4ºC	28D	RNH3-IC ASTM D6919-03
19	1062-8790	Raw Bar Screen	04/05/11		GRAB	250mL	Glass	Liquid	4ºC	7D	RTSS SM 2540 D
20	1062-8796	West Aer	04/05/11		GRAB	250mL	Glass	Liquid	4ºC	7D	MLSS SM 2540 D
21		Digester	4/04/11	10:25	GRAB	500	HDPE		4ºC		% Solids — Collected by operator (Andrew) 1063-0127
22		dig	4/5/11	1100	Grab						BLF 1063-0126 & left in sampler.
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Field Analysis Time

Collected By
(if different than sampler)

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 4/04/11 Time: 1479	Received For Laboratory By (Signature)	Date: 4/04/11 Time: 1479

pH Meter #1 Calibration

Time	Slope	Buffers
02:44	57.1	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:44	20	9.09

NWDLS NORTH WATER DISTRICT LABORATORY SERVICES, INC.
8725 Fawn Trail • The Woodlands, Texas 77385
(936)321-6060 • fax (936)321-6061 • email: lab@nwdls.com

SAMPLE LOCATION: Williamsburg Regional WWTP
SAMPLE DATE: 02/07/11
SAMPLE TIME: 9:20
SAMPLED BY: AR

DATE RECEIVED: 02/07/11
SAMPLE MATRIX: Sludge
SAMPLE ID: 1060-7479
LAB FILE ID: 31911006

B.L.F.

PARAMETER	RESULT %	MAL %	Method	Analysts Initials	Date of Analysis	Blank %	Duplicates Act/Theo	Spike Act/Theo
Total Solids	1.0	0.1	SM 2540 G	OD	02/08/11	< 0.1	0.20/0.15	~
TKN	4.82	0.01	SM 4500N C	OD	03/04/11	< 0.01	1.93/1.97	2.94/2.88
Ammonia-N	0.86	0.12	SM 4500NH3 C	OD	03/04/11	< 0.01	0.09/0.09	1.02/0.97
Nitrate-N	0.10	0.01	SM 418 E	OD	03/04/11	< 0.01	0.07/0.07	0.46/0.49
Phosphorus	1.92	0.01	EPA 6010C	MO	02/14/11	< 0.01	2.14/2.16	1.58/1.64
Potassium	0.45	0.01	EPA 6010C	MO	02/11/11	< 0.01	0.62/0.61	0.85/0.82

POLLUTANT	RESULT mg/kg	MAL mg/kg	Method	Analysts Initials	Date of Analysis	Blank mg/kg	Duplicates Act/Theo	Spike Act/Theo
Arsenic	6.9	1.0	EPA 6010C	MO	02/10/11	< 1.0	1.5/1.9	80.6/81.8
Cadmium	0.7	0.5	EPA 6010C	MO	02/10/11	< 0.5	0.5/0.5	8.0/8.2
Chromium	13.1	1.0	EPA 6010C	MO	02/10/11	< 1.0	13.3/13.5	41.2/40.9
Copper	352	1.0	EPA 6010C	MO	02/14/11	< 1.0	323/325	915/900
Mercury	0.39	0.02	EPA 7471B	MO	02/17/11	< 0.02	0.31/0.31	1.62/1.67
Molybdenum	10.3	1.0	EPA 6010C	MO	02/11/11	< 1.0	5.2/5.4	39.9/40.9
Nickel	10.1	1.0	EPA 6010C	MO	02/10/11	< 1.0	9.4/9.7	40.9/40.9
Lead	15.6	1.0	EPA 6010C	MO	02/10/11	< 1.0	8.0/8.2	39.9/40.9
Selenium	6.6	1.0	EPA 6010C	MO	02/10/11	< 1.0	2.8/2.6	79.7/81.8
Zinc	856	2.0	EPA 6010C	MO	02/14/11	< 2.0	725/780	1490/1678

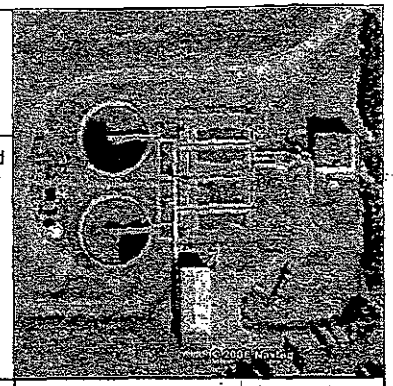
* MAL = Minimum Analytical Level
All results are calculated on a dry weight basis.

NWDLS
North Water District Laboratory Services, Inc.

North Water District
Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

12 - Williamsburg Regional Auth.



Site: 12
Williamsburg Regional Auth.

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: Program sampler for Sunday and Tuesday start times

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-5545	Outfall 001 Sampler	02/07/11	0500	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	25D	NH3-N/TKN SM 4500-NH3 D
2	1060-5546	Outfall 001 Sampler	02/07/11		24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM 5210 B
3	1060-5547	Outfall 001 Sampler	02/07/11		24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM 2540 D
4	1060-5548	Aeration	02/07/11	9:20	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D EPA 160.4
5	1060-5550	Digester	02/07/11		GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA 608
6	1060-5551	Digester	02/07/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM 2540 G SM 2710 B
7	1060-5552	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
8	1060-5553	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
9	1060-5554	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
10	1060-5555	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
11	1060-5556	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
12	1060-5557	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
13	1060-5558	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM 9222 D
14	1060-5559	Digester	02/07/11		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP EPA 1311
15	1060-5560	Outfall 001	02/07/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	6H	FC SM 9222 D
16	1060-5542	Raw Bar Screen	02/07/11		GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM 5210 B

Field Analysis Time	9:20
Digester Temperature	14.2°C
Outfall 001 DO	6.61
Outfall 001 pH	7.46
Collected By (if different than sampler)	

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/07/11 Time: 1154	Received For Laboratory By (Signature)	Date: 2/07/11 Time: 1154

pH Meter #1 Calibration

Time	Slope	Buffers
02:46	57.5	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:46	21	8.92

NWDLS
North Water District Laboratory Services, Inc.

North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

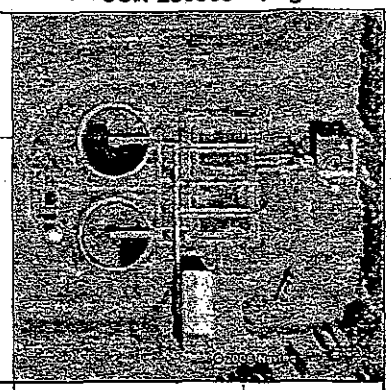
12 - Williamsburg Regional Auth.

Site: 12
Williamsburg Regional Auth.

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1621 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: Program sampler for Sunday and Tuesday start times



#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
17	1060-5543	Raw Bar Screen	02/07/11	9:20	GRAB	500mL	Glass	Liquid	H2SO4 4°C	28D	RNH3-N SM 4500-NH3 D
18	1060-5544	Raw Bar Screen	02/07/11	↓	GRAB	250mL	Glass	Liquid	4°C	7D	RTSS SM 2540 D
19	1060-5549	Re Aeration	02/07/11		GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM 2540 D,E/PV 160.4 AL 2/07
20		Dig	2/7/11	920	GRAB						BLF 1060-7479
21											
22											
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32											

Field Analysis Time

Collected By
(if different than sampler)

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/07/11 Time: 1154	Received For Laboratory By (Signature)	Date: 2/07/11 Time: 1154

pH Meter #1 Calibration

Time	Slope	Buffers
02:46	57.5	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:46	21	8.92

NWDLS North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

Test Report

Williamsburg Regional Auth. - Municipal Operations and Consulting

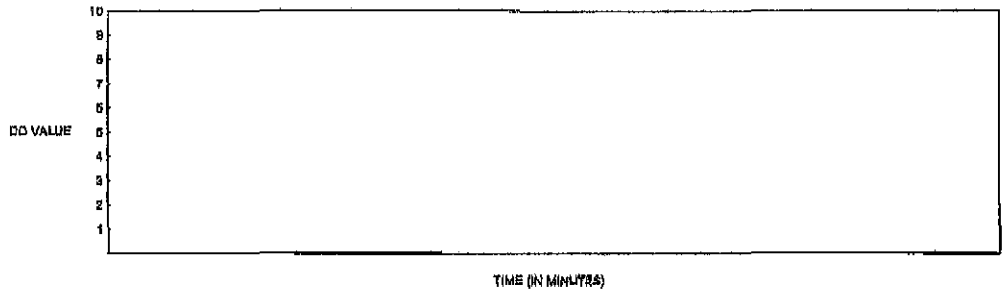
CLASS B

Report #211386 | Report Generated 02/09/2011 09:10 | Site: MUN 12 |

RECEIVED FEB 11 2011

Analysis performed on sludge sample collected 02/07/2011 09:20 by Angel Rodriguez from the Digester

PARAMETER		RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10605552	85,000	CFU/g TS	SM 9222 D	OD	02/07/2011 13:03
Fecal Coliform	Sample ID: 10605553	85,000	CFU/g TS	SM 9222 D	OD	02/07/2011 13:03
Fecal Coliform	Sample ID: 10605554	73,000	CFU/g TS	SM 9222 D	OD	02/07/2011 13:03
Fecal Coliform	Sample ID: 10605555	87,000	CFU/g TS	SM 9222 D	OD	02/07/2011 13:03
Fecal Coliform	Sample ID: 10605556	78,000	CFU/g TS	SM 9222 D	OD	02/07/2011 13:03
Fecal Coliform	Sample ID: 10605557	84,000	CFU/g TS	SM 9222 D	OD	02/07/2011 13:03
Fecal Coliform	Sample ID: 10605558	78,000	CFU/g TS	SM 9222 D	OD	02/07/2011 13:03
Fecal Coliform	Geometric Mean	8.1E+04	81,000	CFU/g TS		
Total Solids	Sample ID: 10605551	1.0	%	SM 2540 G	OD	02/07/2011 15:45
S.O.U.R. Test	Sample ID: 10605551	0.98	mg O2/hr/g TS	SM 2710 B	OD	02/07/2011 14:55



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
Technical Director

Pickup Date: 02/07/11

CSN-251063 ... Page 1 of 2

NWDLS
North Water District Laboratory Services, Inc.

North Water District Laboratory Services, Inc.
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

12 - Williamsburg Regional Auth.

Site: 12
Williamsburg Regional Auth.

Customer: MUN
Municipal Operations and Consulting
230 Spring Hill Dr. #325
Spring, Texas 77386

Site Billing:
Myrtle Cruz Corp.
1521 Milam, 3rd Floor
Houston, TX 77002-8017

NOTE: Program sampler for Sunday and Tuesday start times

#	Sample ID	Collection Point	Date	Time	Sample Type	Container Size	Container Type	Container Content	Preserve	Hold	Requested Analysis & Remarks
1	1060-5545	Outfall 001 Sampler	02/07/11	0500	24HR COMP	500mL	Glass	Liquid	H2SO4 4°C	28D	NH3-N/TKN SM4500-NH3 D
2	1060-5546	Outfall 001 Sampler	02/07/11	↓	24HR COMP	1000mL	Glass	Liquid	4°C	48H	CBOD SM5210B
3	1060-5547	Outfall 001 Sampler	02/07/11	↓	24HR COMP	1000mL	Glass	Liquid	4°C	7D	TSS SM2540D
4	1060-5548	Aeration	02/07/11	9:20	GRAB	250mL	Glass	Liquid	4°C	7D	MLSS/VSS SM2540D EPA 160A
5	1060-5550	Digester	02/07/11		GRAB	1000mL	Amber	Liquid	4°C	365D	PCB EPA 608
6	1060-5551	Digester	02/07/11		GRAB	1000mL	Glass	Sludge	4°C	24H	% Solids/SOUR SM2540G SM2710B
7	1060-5552	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222D
8	1060-5553	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222D
9	1060-5554	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222D
10	1060-5555	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222D
11	1060-5556	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222D
12	1060-5557	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222D
13	1060-5558	Digester	02/07/11		GRAB	110mL	HDPE	Sludge	4°C	8H	FC-CB SM9222D
14	1060-5559	Digester	02/07/11		GRAB	1 gal	HDPE	Sludge	4°C	14D	TCLP EPA 1311
15	1060-5560	Outfall 001	02/07/11		GRAB	110mL	HDPE	Liquid	Na2S2O3 <10°C	6H	FC SM9222D
16	1060-5542	Raw Bar Screen	02/07/11	↓	GRAB	250mL	Glass	Liquid	4°C	48H	RBOD SM5210B

Field Analysis Time	9:20
Digester Temperature	14.2°C
Outfall 001 DO	6.61
Outfall 001 pH	7.46
Collected By (if different than sampler)	

#7

Sampler (Signature)	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Print Name: Angel Rodriguez	Relinquished By (Signature)	Date: / Time:	Received By (Signature)	Date: / Time:
Affiliation: N.W.D.L.S., Inc.	Relinquished To Laboratory By (Signature)	Date: 2/07/11 Time: 1154	Received For Laboratory By (Signature)	Date: 2/07/11 Time: 1154

pH Meter #1 Calibration

Time	Slope	Buffers
02:46	57.5	4:7:10

DO Meter #1 100% Air Calibration

Time	Temp °C	D.O.
02:46	21	8.92