



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.
- Note3: If you have more than one permitted site, then fill-out this form for each one of these sites.
- Note4: Please send a copy of this sheet and all the attachment to the local TCEQ regional office.

For TCEQ Quarter <u>2nd</u> Reporting period from <u>12/01/13</u> , to, <u>2/28/14</u> PERMIT NO.: <u>04585</u> DATE: <u>5/12/09</u> NAME OF PERMITTEE: <u>City of Lufkin</u> MAILING ADDRESS: <u>P.O. Box 190</u> <u>Lukin, TX 75902-0190</u> CONTACT PERSON: Name <u>Debra Cassidy</u> Telephone No: <u>(936) 633-0288</u>

Field No: McCurry's 1,2,3 (Submit separate form for each field, if site has two or more fields)

- Class B Sewage Sludge Land Applied: 21,8185 dry tons / quarter (19.7934 MT)
 - Treated Domestic Septage – Land Applied: NA gallons / quarter
 - Method used to treat Domestic Septage: NA
 - Water treatment Plant Sludge – Land Applied: NA dry tons / quarter
 - Class A sludge land applied NA dry tons / quarter
- a. Acreage used for Sludge Application/disposal at this site:- 150 acres
- b. Site Vegetation (such as grass type etc) and # of cuttings: Wheat and Coastal Bermuda 2 cuttings/year & grazing
- c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes No X
- d. Site location: Latitude: N 70°W & S. 40°E , Longitude: N. 13°30'E
- e. Site physical address: Approximately 1.25 miles east of the intersection of State HWY 287 and Farm Road 325, approximately 2.25 miles east of the City of Lufkin in Angelina County, TX.

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.

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

PLEASE MAIL THE COMPLETED REPORT TO :

Texas Commission on Environmental Quality
 Municipal Permits Team (MC 148)
 Wastewater Permitting Section
 P.O. Box 13087
 Austin, TX 78711.3087



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For TCEQ Quarter 2nd Reporting period from 12/01/13 , to, 2/28/14

PERMIT NO.: 04585 **DATE:** 5/12/09

NAME OF PERMITTEE: City of Lufkin

MAILING ADDRESS: P.O. Box 190
Lukin, TX 75902-0190

CONTACT PERSON: Name Debra Cassidy Telephone No: (936) 633-0288

Field No: 1 (Submit separate form for each field, if site has two or more fields)

- Class B Sewage Sludge Land Applied: 21,8185 dry tons / quarter (19.7934 MT)
 - Treated Domestic Septage – Land Applied: NA gallons / quarter
 - Method used to treat Domestic Septage: NA
 - Water treatment Plant Sludge – Land Applied: NA dry tons / quarter
 - Class A sludge land applied NA dry tons / quarter
- a. Acreage used for Sludge Application/disposal at this site:- 50.5 acres
- b. Site Vegetation (such as grass type etc) and # of cuttings:- Wheat and Coastal Bermuda 2 cuttings/year & grazing
- c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)? Yes No X
- d. Site location: Latitude: N 70°W & S. 40°E , Longitude: N. 13°30'E
- e. Site physical address: Approximately 1.25 miles east of the intersection of State HWY 287 and Farm Road 325, approximately 2.25 miles east of the City of Lufkin in Angelina County, TX.

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.

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

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For TCEQ Quarter	<u>2nd</u>	Reporting period from	<u>12/01/13</u>	, to,	<u>2/28/14</u>
PERMIT NO.:	<u>04585</u>	DATE:	<u>5/12/09</u>		
NAME OF PERMITTEE:	<u>City of Lufkin</u>				
MAILING ADDRESS:	<u>P.O. Box 190</u>				
	<u>Lukin, TX 75902-0190</u>				
CONTACT PERSON: Name	<u>Debra Cassidy</u>	Telephone No:	<u>(936) 633-0288</u>		

Field No: 2 (Submit separate form for each field, if site has two or more fields)

- Class B Sewage Sludge Land Applied: 0 dry tons / quarter
- Treated Domestic Septage – Land Applied: NA gallons / quarter
- Method used to treat Domestic Septage: NA
- Water treatment Plant Sludge – Land Applied: NA dry tons / quarter
- Class A sludge land applied: NA dry tons / quarter

- a. Acreage used for Sludge Application/disposal at this site:- 67.5 acres
- b. Site Vegetation (such as grass type etc) and # of cuttings:- Wheat and Coastal Bermuda 2 cuttings/year & grazing
- c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes No X
- d. Site location: Latitude: N 70°W & S. 40°E, Longitude: N. 13°30'E
- e. Site physical address: Approximately 1.25 miles east of the intersection of State HWY 287 and Farm Road 325, approximately 2.25 miles east of the City of Lufkin in Angelina County, TX.

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.

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

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Municipal Permits Team (MC 148)
Wastewater Permitting Section
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NAME OF PERMITTEE: <u>City of Lufkin</u>
MAILING ADDRESS: <u>P.O. Box 190</u> <u>Lukin, TX 75902-0190</u>
CONTACT PERSON: Name <u>Debra Cassidy</u> Telephone No: <u>(936) 633-0288</u>

Field No: 3 (Submit separate form for each field, if site has two or more fields)

- Class B Sewage Sludge Land Applied: 0 dry tons / quarter
- Treated Domestic Septage – Land Applied: NA gallons / quarter
- Method used to treat Domestic Septage: NA
- Water treatment Plant Sludge – Land Applied: NA dry tons / quarter
- Class A sludge land applied NA dry tons / quarter

- a. Acreage used for Sludge Application/disposal at this site:- 32.0 acres
- b. Site Vegetation (such as grass type etc) and # of cuttings:-Wheat and Coastal Bermuda 2 cuttings/year & grazing
- c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of “30 TAC §312.43 (b)? Yes No X
- d. Site location: Latitude: N 70°W & S. 40°E, Longitude: N. 13°30’E
- e. Site physical address: Approximately 1.25 miles east of the intersection of State HWY 287 and Farm Road 325, approximately 2.25 miles east of the City of Lufkin in Angelina County, TX.

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.

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

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Wastewater Permitting Section
P.O. Box 13087
Austin, TX 78711.3087

2nd Quarter Sludge Report Summary Sheet

For **2014** Quarterly Report period from December 2013 through February 2014

Sludge Permit Number: 04585 **Date Issued:** May 12, 2009

Name of Permittee: Site Operator -City of Lufkin Hurricane Creek Wastewater
Wastewater Treatment Plant ; Permit No. WQ0010214-001.
Land Owner – Lois Ann McCurry; 2122 Paul Street, Lufkin, Texas 75901

Contact Person: Debra Cassidy – Director of Water Utility Plant Operations

Phone Number: 4 (936) 633-0288

Mailing Address: P.O. Box 190 Lufkin, Texas 75902-0190

Sludge - Land Applied: 21.8185 dry tons (19.7934 Metric Tons) December 2013 - February 2014

- a) Permit No. 04585: total of 150 usable acres 2nd Quarter of December 2013 through February 2014, where 21.8185 dry tons (19.7934 Metric Tons) of sludge were applied (21.8185 tons x 2000 lbs/ton = 43637.000 lbs) at 290.9133 lbs/ac {See enclosed Tables I (a-c)}.
- i) **Site 1 = 21.8185 dry tons (19.7934 metric tons) of sludge applied to 50.5 acres** from December 01, 2013 through February 28, 2014.
- ii) **Site 2 = No sludge applied to 67.5 acres** from December 01, 2013 through February 28, 2014.
- iii) **Site 3 = No sludge applied to 32.0 acres** from December 01, 2013 through February 28, 2014.

Sludge - Disposed via Monofill: N/A

Sludge - Disposed via Landfill: Angelina County Waste Management Center (Landfill): TCEQ Permit No. 2105A = **204,573 Dry Tons (185,585 Metric Tons) disposed of in the Landfill** from December 01, 2013 through February 28, 2014.

Paint Filter Test: 9/4/13; Pass

TCLP: 9/4/13; Pass

Treated Domestic Septage - Land Applied: N/A

Acreeage used for Sludge Application / Disposal at this Site: 150 usable acres

a) Site 1 = 50.5 Acres

b) Site 2 = 67.5 Acres

c) Site 3 = 32.0 Acres

Site Vegetation (such as grass type, etc) and # of cuttings: Wheat & Coastal Bermuda ; Year round application. No rotation of crops. The Site is divided into application zones. Each zone receives approximately 8 tons of sludge per acre and is allowed to rest for a period of 14 to 30 months. Grass is harvested as hay and removed from the site before application is resumed on a rested zone. Two cutting per year for Area 1, 2 and 3 were agreed upon. Areas 1, 2, and 3 are used for grazing. The one large permitted Site is listed as 3 areas. Area 1 is comprised of 50.5 acres, Area 2 is 67.5 acres, and Area 3 is 32.0 acres. Area 1 received 21,8185 dry tons (19,7934 metric tons) of sludge from December 01, 2013 – February 28, 2014. Area 2 received no sludge from December 01, 2013 – February 28, 2014. Area 3 received no sludge from December 01, 2013 – February 28, 2014.

Frequency of Monitoring / Analysis (Pathogens, Metals, PCB, TCLP):

- a) Toxicity Characteristic Leaching procedure (TCLP) - Annually
- b) PCB's – Annually
- c) Sewage Sludge Fecal Coliform - Once/Quarter required; voluntarily tested more frequently
- d) Sewage Sludge 503 Regulation Metals - Once/Quarter required

TCLP Pass / Fail Status: Passed during 2013 (Tested 9/4/13)

Please provide information regarding the following 3 items (Sewage Sludge Only):

- 1) **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 _____ or NO X
- 2) **Has your site reached or exceeded 90% of the cumulative metal loading rates for any metals as listed in Table 2 of "30 TAC 312.43 (b)" ?**
Yes _____ or NO X
- 3) **Have you applied sewage sludge to a site after 90% of cumulative metal loading rates for any of the metals have been reached per in Table 2 of "30 TAC 312.43 (b)" ?**
Yes _____ or NO X

City of Lufkin

2nd Quarterly Sludge Disposal Report December 2013 through February 2014

Hurricane Creek Wastewater Treatment Plant Permit No. WQ0010214-001

Lois Ann

McCurry's Site Permit No. 04585

Page 13 – XI(B). Reporting Requirements

- 1) **Results of tests performed for pollutants found in sludge permit Table 3 (pg3) as appropriate for our land application practices.**
 - a) For analytical data, please refer to the enclosed Table III
- 2) **The frequency of monitoring listed in permit section IX & XII**
 - a) Toxicity Characteristic Leaching Procedure - annually
 - b) PCB=s – annually
 - c) Sewage Sludge Fecal Coliform - Once/Quarter required; voluntarily tested more frequently
 - d) Sewage Sludge 503 regulation Metals - Once/Quarter
 - e) Soil Nutrients – Once per Year
 - f) Soil Metals – Once per 5 Years
- 3) **Toxicity Characteristic Leaching Procedure (TCLP) Results:**
 - a) Passed during 2013 (Tested 9/4/13)
- 4) **Identity of Hauler(s) (Land Applier/Operator) and TCEQ transporter number**
 - a) City of Lufkin – Hurricane Creek WWTP ; # 21494
 - b) Sludge Permit No; 04585 (McCurry)(Sites, #1, #2, #3)
 - c) Angelina County Waste Management Center (Landfill)
- 5) **Source of Sludge**
 - a) Hurricane Creek WWTP; FM 324 South, Lufkin, Texas 75902
 - b) TCEQ Permit No. WQ0010214-001 (Site Permit No. 04585)
 - c) Billing Address: P.O. Box 190, Lufkin, Texas 75901

6) **PCB concentration in sludge in mg/kg.**

- a) Anaerobic sludge : < Detection Limit during 2013.

7) **Date(s) of Disposal (Delivery and Land Application)**

- a) Continuous

8) **Owner of Disposal Site(s)**

Lois Ann McCurry ; (Categorized as Sites #1, #2, & #3)

2122 Paul Street

Lufkin, Texas 75901

Current Permit No. 04585

Location: This site is located in Angelina County, Texas, on County Road 155 approximately 1.25 miles east of the intersection of Farm-to-Market Road and State Highway Loop 287.

Angelina County Waste Management Center(ACWMC)(Landfill)

Chuck Brooks – Landfill Manager

P.O. Box 1862

Lufkin, Texas 75902-1862

TCEQ Permit # 2105A

Location: This Site is located in Angelina County, Texas, on Farm to Market Road 58, approximately 4.5 miles South of Loop 287

9) **Texas Commission on Environmental Quality Permit Number**

- a) # 710263 (McCurry) ; Permit No. 04585
ACWMC (Landfill) – Permit No. 2105A

10) **Amount of Sludge Dry weight (lbs/ac) at each disposal site**

- a) Permit No. 04585: total of 150 usable acres 2nd Quarter of December 01, 2013 through February 28, 2014, where 21.8185 dry tons (19.7934 Metric Tons) of sludge was applied (21.8185 tons x 2000 lbs/ton = 43,637.000 lbs) at 290.9133 lbs/ac {See enclosed Table I (a), I (b), & I (c)}.
- i) **Site 1** = 21.8185 dry tons (19.7934 Metric Tons) of sludge applied to **50.5 acres** from December 01, 2013 through February 28, 2014.
- ii) **Site 2** = No sludge applied to **67.5 acres** from December 01, 2013 through February 28, 2014.
- iii) **Site 3** = No sludge applied to **32.0 acres** from December 01, 2013 through February 28, 2014.
- b) Angelina County Waste Management Center (**Landfill**): TCEQ Permit No. 2105A = 204.573 Dry Tons (185.5855 Metric Tons) disposed of in the Landfill from December 01, 2013 through February 28, 2014.

- 11) The concentration (mg/kg) in the sludge of each pollutant listed in sludge permit Table 1 (pg 2) (defined as monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 (pg3)**
- a) See enclosed Table III for monthly averages in mg/kg with the applicable Pollutant concentration criteria (mg/kg) from Table 3.
- 12) Level of Pathogen Reduction achieved (Class A or Class B)**
- a) See enclosed Table VI
- 13) Alternative used as listed in permit Section VII A2.-Pathogen Control:**
- a) Alternative # 1
- b) A mixture of domestic and industrial waste is passed through a bar screen channel and pumped to the pre-aeration basin. Grease is removed and the flow enters the primary clarifier. Settled sludge is pumped to a cyclone/clarifier grit removal and then a gravity thickener unit. This thickened sludge is pumped into the sludge holding tank.
- Secondary sludge is thickened by a Belt Thickener unit. The sludge is pumped to the holding tank where it combines with the primary sludge. It is pumped from the holding tank to the Anaerobic Digesters. The secondary sludge has the largest volume in the holding tank.
- The Anaerobic Digesters are maintained for 18 days at approximately 94 - 104 ° F.
- 14) Vector Attraction Reduction alternative used as listed in permit Section VIII A**
- a) Alternative # 10
- b) The Anaerobic Digested sludge is de-watered using a Belt Press to approximately 17% solids. The dried sludge is then land applied at the approved permitted site by spreading it with a dozier and tractor and it is disked into the soil within 6 hours of application. Some sludge is also disposed of at the Angelina County Waste Management Center (Landfill).
- 15) 2nd Quarter Sludge production in dry tons December 01, 2013 – February 28, 2014**
- a) 226,391 Dry tons (205,379 Metric Tons) of sludge produced.
{See enclosed Table I (c) and the WWTP Sludge Haul sheets}.

16) **Amount of sludge Land Applied in Dry Tons 2nd Quarter December 01, 2013 – February 28, 2014**

- a) 21.8185 dry tons (19.7934 Metric Tons) of sludge land applied at McCurry's {see enclosed Table I (a-b)}.
 - i) **Site 1** = 21.8185 dry tons (19.7934 metric tons) Sludge applied to **50.5 acres** from December 01, 2013 through February 28, 2014.
 - ii) **Site 2** = No Sludge applied to **67.5 acres**
 - iii) from December 01, 2013 through February 28, 2014.
 - iv) **Site 3** = No Sludge applied to **32.0 acres** from December 01, 2013 through February 28, 2014.

- b) Angelina County Waste management Center (**Landfill**): TCEQ Permit No. 2105A = **204.573 Dry Tons (185.5855 Metric Tons) of sludge disposed of in the Landfill** from December 01, 2013 through February 28, 2014.

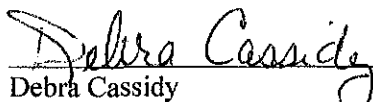
17) **Sludge Management practices**

- a) The site operators are instructed in the proper application procedures as listed in the 30 TAC 312.44.

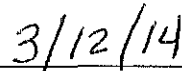
18) **The required certification statements**

For Obtaining Information – Metals (30 TAC 312.47(a)(5)(B)(vi)):

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



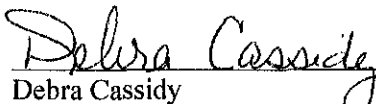
Debra Cassidy
Director of Water Utility Plant Operations



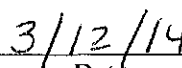
Date

For Management Practices (30 TAC 312.47(a)(5)(B)(viii)):

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



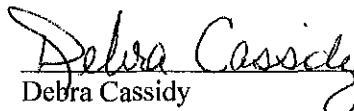
Debra Cassidy
Director of Water Utility Plant Operations



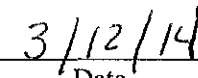
Date

For Site Restrictions (30 TAC 312.47(a)(5)(B)(x)):

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



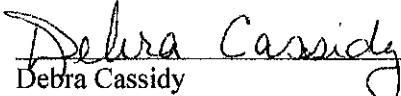
Debra Cassidy
Director of Water Utility Plant Operations

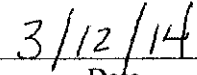


Date

For Pathogen Reduction (30 TAC 312.47(a)(5)(B)(x)):

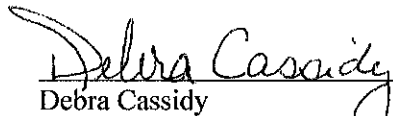
"I certify, under penalty of law, that the site restrictions in 30 TAC §312.82(b)(3) have been met. This determination has been met under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the site restrictions have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.

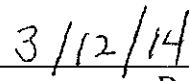

Debra Cassidy
Director of Water Utility Plant Operations


Date

For Vector Attraction Reduction (30TAC 312.47(a)(5)(B)(xii))

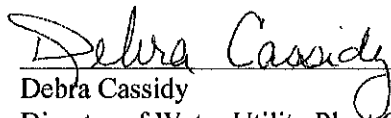
A I certify, under penalty of law, that the vector attraction reduction requirement in 312.83(b)(10) has been met. This determination has been met under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirement has been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.@

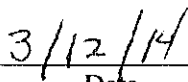

Debra Cassidy
Director of Water Utility Plant Operations


Date

For Sludge Disposal in a Municipal Solid Waste Landfill (30 TAC Chapter 330)

I certify that the sewage sludge disposed of in the Angelina County Waste management Center Landfill meets the requirements of 30 TAC Chapter 330 concerning the quality of sludge disposed in a municipal solid waste landfill.


Debra Cassidy
Director of Water Utility Plant Operations


Date

Respectfully,



Debra Cassidy
Director of Water Utility Plant Operations

TABLE I (a)

AMOUNT OF SLUDGE APPLIED TO McCURRY'S SITE FOR 12/1/13 to 2/28/14

DATE	TONS	MET.TON	KG	POUNDS	LBS/AC
Dec 2013	21.819	19.793	19793.434	43637	290.913
Jan 2014	0.000	0.000	0.000	0	0.000
Feb 2014	0.000	0.000	0.000	0	0.000
TOTAL	21.8185	19.7934	19793.4338	43637.000	290.9133

No Sludge Applied to McCurry's in January - February 2014

CALCULATIONS:

Tons Hauled x 2000 lbs/ton x 1 Metric Ton / 2204.62 lbs = Metric Tons

Metric Tons x 1000 = Kilograms of sludge applied

Tons Hauled x 2000 lbs/ ton = pounds of sludge applied

*Pounds sludge / 150 usable acres = lbs / ac sludge

Table 1 (b)

AMOUNT OF SLUDGE APPLIED TO McCURRY'S SITE # 1 DECEMBER 2013 TO FEBRUARY 2014

DATE	TONS	MET.TON	KG	POUNDS	LBS/AC
Dec 2013	21.819	19.793	19793.434	43637.000	864.099
Jan 2014	0.000	0.000	0.000	0.000	0.000
Feb 2014	0.000	0.000	0.000	0.000	0.000
TOTAL	21.8185	19.7934	19793.4338	43637.0000	864.0990

**No Sludge Applied to McCurry's Site # 1 (50.5 acres) during January 01, 2014 - February 28, 2014*

AMOUNT OF SLUDGE APPLIED TO McCURRY'S SITE # 2 DECEMBER 2013 TO FEBRUARY 2014

DATE	TONS	MET.TON	KG	POUNDS	LBS/AC
Dec 2013	0.000	0.000	0.000	0.0	0.000
Jan 2014	0.000	0.000	0.000	0.0	0.000
Feb 2014	0.000	0.000	0.000	0.0	0.000
TOTAL	0.0000	0.0000	0.0000	0.0	0.0000

No Sludge Applied to McCurry's Site # 2 (67.5 acres) during December 01, 2013 - February 28, 2014

AMOUNT OF SLUDGE APPLIED TO McCURRY'S SITE # 3 DECEMBER 2013 TO FEBRUARY 2014

DATE	TONS	MET.TON	KG	POUNDS	LBS/AC
Dec 2013	0.000	0.000	0.000	0.000	0.000
Jan 2014	0.000	0.000	0.000	0.000	0.000
Feb 2014	0.000	0.000	0.000	0.000	0.000
TOTAL	0.0000	0.0000	0.0000	0.0000	0.0000

**No Sludge Applied to McCurry's Site # 3 (32.0 acres) during December 01, 2013 - February 28, 2014*

AMOUNT OF SLUDGE APPLIED TO ANGELINA COUNTY LANDFILL DECEMBER 2013 - FEBRUARY 2014

DATE	TONS	MET.TON	KG	POUNDS
Dec 2013	43.201	39.191	39191.062	86401.400
Jan 2014	96.640	87.671	87670.710	193280.600
Feb 2014	64.732	58.724	58723.680	129463.400
TOTAL	204.573	185.5855	185585.452	409145.400

Table 1 (c)

Total Sludge Produced

DATE	TONS	MET.TON
Dec 2013	65.019	58.984
Jan 2014	96.640	87.671
Feb 2014	64.732	58.724
TOTAL	226.391	205.379

Sludge Disposal

DATE	SITE # 1		SITE # 2		SITE # 3		LANDFILL	
	TONS	MET.TON	TONS	MET.TON	TONS	MET.TON	TONS	MET.TON
Dec 2013	21.819	19.793	0.000	0.000	0.000	0.000	43.201	39.191
Jan 2014	0.000	0.000	0.000	0.000	0.000	0.000	96.640	87.671
Feb 2014	0.000	0.000	0.000	0.000	0.000	0.000	64.732	58.724
TOTAL	21.819	19.793	0.000	0.000	0.000	0.000	204.573	185.585

*No Sludge was Land Applied to McCurry's Site #2 or Site #3 during the 2nd Qtr of December 2013 to January 2014.

*No Sludge was Land Applied to McCurry's Site #1 during the months of January - February 2014.

TABLE II

CUMULATIVE LOADINGS PER METAL AT McCURRY'S DECEMBER 2013 TO FEBRUARY 2014

DATE	As mg/kg	As kg/ha	As lb/ac	Cd mg/kg	Cd kg/ha	Cd lb/ac	Cu mg/kg	Cu kg/ha	Cu lb/ac
2/18/14	3.27	0.001066	0.000960	3.92	0.001278	0.001150	529.40	0.172618	0.155356
TOTAL	3.27	0.001066	0.000960	3.92	0.001278	0.001150	529.40	0.172618	0.155356
Max. Load Rate per 365 Day Period		2.0	1.8		1.9	1.7		75	67
Table 2 : Cumulative Load Limits		41	36		39	35		1500	1339
Table 1 Daily Max:	75			85			4300		

Calculations:

$\text{mg/kg} \times \text{MT} \times 1000 / 1000000 \times (2.471 / 150) = \text{kg/ha}$

$\text{kg/ha} \times 0.9 = \text{lb/ac}$

McCurry's = 150 usable acres

*Pressed Sludge

CUMULATIVE LOADINGS PER METAL AT McCURRY'S DECEMBER 2013 TO FEBRUARY 2014

DATE	Pb mg/kg	Pb kg/ha	Pb lb/ac	Hg mg/kg	Hg kg/ha	Hg lb/ac	Mo mg/kg	Mo kg/ha	Mo lb/ac
2/18/14	37.58	0.012253	0.011028	0.542	0.000177	0.000159	6.54	0.002132	0.001919
TOTAL	37.58	0.012253	0.011028	0.542	0.000177	0.000159	6.54	0.002132	0.001919
Max. Load Rate per 365 Day Period		15	13		0.85	0.76		Report	Report
Table 2 : Cumulative Load Limits		300	268		17	15			Report
Table 1 Daily Max:	840			57			75		

CUMULATIVE LOADINGS PER METAL AT McCURRY'S DECEMBER 2013 TO FEBRUARY 2014

DATE	Ni mg/kg	Ni kg/ha	Ni lb/ac	Se mg/kg	Se kg/ha	Se lb/ac	Zn mg/kg	Zn kg/ha	Zn lb/ac
2/18/14	22.22	0.007245	0.006521	9.48	0.003091	0.002782	777.80	0.253612	0.228251
TOTAL	22.22	0.007245	0.006521	9.48	0.003091	0.002782	777.80	0.253612	0.228251
Max. Load Rate per 365 Day Period	21	18.7		5.0	4.5		140	125	
Table 2 : Cumulative Load Limits	420	375		100	89		2800	2500	
Table 1 Daily Max:	420		100			7500			

CUMULATIVE LOADINGS PER METAL AT McCURRY'S DECEMBER 2013 TO FEBRUARY 2014

DATE	Cr mg/kg	Cr kg/ha	Cr lb/ac	K mg/kg	K kg/ha	K lb/ac
2/18/14	24.84	0.008099	0.007289	1680.00	0.547787	0.493009
TOTAL	24.84	0.008099	0.007289	1680.00	0.547787	0.493009
Max. Load Rate per 365 Day Period			134			
Table 2 : Cumulative Load Limits			2677			
Table 1 Daily Max:	3000					

TABLE III

Monthly Average Metal Concentrations in mg/kg Dry Weight Basis December 2013 to February 2014

DATE	As mg/kg	Cd mg/kg	Cu mg/kg	Pb mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg
2/18/14	3.27	3.92	529.40	37.58	0.542	6.54	22.22
Average	3.27	3.92	529.40	37.58	0.542	6.54	22.22
Table 3 Avg. Limits	41	39	1500	300	17	Report	420

Monthly Average Metal Concentrations in mg/kg Dry Weight Basis December 2013 to February 2014

DATE	Se mg/kg	Zn mg/kg	Cr mg/kg	K mg/kg
2/18/14	9.48	777.80	24.84	1680.00
Average	9.48	777.80	24.84	1680.00
Table 3 Avg. Limits	36	2800	1200	

Table IV
Amount of Sludge Applied to McCurry's Site (Cumulative Pollutant Loading)

YEAR	As lb/ac	As kg/ha	Cd lb/ac	Cd kg/ha	Cu lb/ac	Cu kg/ha	Pb lb/ac	Pb kg/ha	Hg lb/ac	Hg kg/ha
1991			0.065000	0.072000	9.589000	10.654000	1.800000	2.000000		
1992			0.079000	0.088000	9.180000	10.200000	0.810000	0.900000		
1993			0.064000	0.071000	7.397000	8.219000	0.064000	0.071000		
1994			0.388000	0.431000	10.074000	11.193000	8.048000	8.942000		
1995	0.013000	0.014000	0.038000	0.042000	0.826000	0.918000	0.869000	0.966000	0.009000	0.010000
1996	0.235000	0.261000	0.029000	0.032000	5.291000	5.879000	0.399000	0.443000	0.099000	0.110000
1997	0.028000	0.312000	0.019000	0.021000	3.387000	3.764000	0.433000	0.481000	0.012000	0.013000
Jan-Jun 98	0.001000	0.001000	0.003000	0.004000	0.428000	0.476000	0.066000	0.074000	0.000000	0.000000
Jul98-Jun99	0.051202	0.056891	0.033856	0.037618	7.683394	8.537104	0.790244	0.878049	0.017899	0.019887
JUL99-JUN00	0.023376	0.025973	0.022931	0.025478	5.668109	6.297899	0.447680	0.497422	0.012561	0.013957
JUL00-JUL01	0.131541	0.146156	0.113868	0.126520	19.315457	21.461619	1.548317	1.720352	0.055598	0.061776
AUG01-JUL02	0.113913	0.126570	0.116110	0.129011	20.601277	22.890307	1.520878	1.689864	0.056259	0.062510
AUG02-JUL03	0.084411	0.093790	0.051428	0.057142	14.289136	15.876818	0.895870	0.995411	0.022363	0.024847
AUG03-OCT03	0.011606	0.012896	0.009088	0.010098	1.777216	1.974664	0.087581	0.097312	0.002123	0.002359
NOV03-JAN04	0.010046	0.011161	0.008027	0.008919	2.375947	2.639942	0.267694	0.297439	0.003982	0.003980
FEB04-APR04	0.019915	0.022128	0.001825	0.002028	0.516150	0.573501	0.048813	0.054237	0.000391	0.000434
MAY04-JUL04	0.001988	0.022090	0.001886	0.002095	0.254783	0.283092	0.030669	0.034076	0.000310	0.000345
AUG04-OCT04	0.010212	0.011347	0.010760	0.011956	1.984441	2.204935	0.202904	0.225449	0.003597	0.003997
NOV04-JAN05	0.002395	0.002661	0.003612	0.004014	0.454573	0.505082	0.068348	0.075943	0.001404	0.001560
FEB05-APR05	0.002547	0.002830	0.001893	0.002103	0.459596	0.510662	0.049765	0.055295	0.000641	0.000712
MAY05-JUL05	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
AUG05-OCT05	0.007993	0.008881	0.012607	0.014008	1.285427	1.428252	0.130186	0.144651	0.002084	0.002316
NOV05-JAN06	0.006189	0.006877	0.005361	0.005957	1.409992	1.566658	0.893500	0.992780	0.003596	0.003995
FEB06-APR06	0.008838	0.009820	0.003082	0.003424	0.952849	1.058721	0.110693	0.122993	0.000441	0.000490
MAY06-JUL06	0.004566	0.005073	0.00291	0.003233	0.793952	0.882168	0.100134	0.11126	0.001842	0.002046
AUG06-OCT06	0.001124	0.001249	0.001059	0.001177	0.288344	0.320383	0.034156	0.037951	0.000641	0.000712
NOV06-JAN07	0.004429	0.004922	0.002637	0.00293	1.105665	1.228517	0.074049	0.082277	0.001826	0.002029
FEB07-APR07	0.002788	0.003098	0.005303	0.005892	0.744121	0.826801	0.135481	0.150535	0.002669	0.002965
MAY07-JUL07	0.007149	0.007943	0.003847	0.004275	2.298084	2.553426	0.185354	0.205949	0.002028	0.002253
AUG07-OCT07	0.005428	0.006031	0.016365	0.018184	2.131228	2.368032	0.105625	0.117362	0.00181	0.002011
NOV07-JAN08	0.003361	0.003734	0.003361	0.003734	1.467509	1.630565	0.113141	0.125712	0.002149	0.002388
FEB08-APR08	0.003554	0.003949	0.002695	0.002994	0.182389	0.202655	0.056600	0.062888	0.001765	0.001961
MAY08-JUL08	0.007101	0.007890	0.006534	0.007260	1.200096	1.333441	0.082124	0.091249	0.002786	0.003095
AUG08-NOV08	0.014595	0.016217	0.009524	0.010582	3.114644	3.460715	0.158306	0.175896	0.004229	0.004699
DEC08-FEB09	0.003105	0.003449	0.001136	0.001262	0.389574	0.432860	0.022770	0.025300	0.000048	0.000054
MAR09-MAY09	0.001747	0.001941	0.001155	0.001284	0.278819	0.309799	0.019203	0.021336	0.000111	0.000123
JUN09-AUG09	0.000239	0.000266	0.000239	0.000266	0.078154	0.086838	0.007184	0.007982	0.000239	0.000266
SEP09-NOV09	0.004810	0.005344	0.004441	0.004934	0.848246	0.942496	0.061859	0.068733	0.002483	0.002759
DEC09-FEB10	0.002074	0.002304	0.001154	0.001282	0.233875	0.259862	0.016936	0.018818	0.000539	0.000599
MAR10-MAY10	0.004564	0.005072	0.001071	0.001190	0.373346	0.414829	0.031699	0.035221	0.000559	0.000622
JUN10-AUG10	0.014286	0.015873	0.010315	0.011461	1.397121	1.552357	0.016518	0.018354	0.001668	0.001854
SEP10-NOV10	0.003525	0.003917	0.000709	0.000788	1.169732	1.299702	0.059905	0.066561	0.001836	0.002039
DEC10-FEB11	0.000367	0.000408	0.000367	0.000408	0.113542	0.126157	0.007875	0.008751	0.000087	0.000097
MAR11-MAY11	0.001060	0.001177	0.000212	0.000235	0.314345	0.349272	0.018903	0.021004	0.000344	0.000382
JUN11-AUG11	0.008261	0.009179	0.007848	0.008720	1.701805	1.890894	0.092938	0.103265	0.001900	0.002111
SEP11-NOV11	0.004889	0.005410	0.003455	0.003839	0.873229	0.970255	0.048530	0.053922	0.000440	0.000489
DEC11-FEB12	0.001254	0.001393	0.000896	0.000995	0.137941	0.153268	0.008778	0.009753	0.000061	0.000068
MAR12-MAY12	0.005336	0.005929	0.001488	0.001653	0.247304	0.274782	0.025295	0.028105	0.000048	0.000053
JUN12-AUG12	0.003890	0.004322	0.004141	0.004601	0.530764	0.589738	0.057970	0.064411	0.000095	0.000106
SEP12-NOV12	0.006175	0.006861	0.005037	0.005597	0.874199	0.971332	0.082545	0.091717	0.007007	0.007785
DEC12-FEB13	0.000447	0.000497	0.000478	0.000531	0.084853	0.094282	0.007297	0.008108	0.000165	0.000183
MAR13-MAY13	0.000410	0.000456	0.000957	0.001063	0.365939	0.406599	0.218680	0.024297	0.000506	0.000563
JUN13-AUG13	0.004564	0.005071	0.005860	0.006511	1.330154	1.477949	0.109538	0.121709	0.000407	0.000452
SEP13-NOV13	0.002385	0.002650	0.002385	0.002650	0.790953	0.087884	0.063375	0.070416	0.001896	0.002107
DEC13-FEB14	0.000960	0.001066	0.001150	0.001278	0.155356	0.172618	0.011028	0.012253	0.000159	0.000177
TOTAL	0.891595	1.290762	1.190063	1.322180	150.815630	166.782752	21.615938	23.799368	0.345592	0.383213
Table 2 Limits	36	41	35	39	1339	1500	268	300	15	17

Table IV
Amount of Sludge Applied to McCurry's Site (Cumulative Pollutant Loading) (Continued)

YEAR	Mo lb/ac	Mo kg/ha	Ni lb/ac	Ni kg/ha	Se lb/ac	Se kg/ha	Zn lb/ac	Zn kg/ha	Cr lb/ac	Cr kg/ha
1991			0.450000	0.500000			12.800000	14.222000		
1992			0.810000	0.900000			14.100000	15.667000		
1993			0.638000	0.709000			11.400000	12.667000		
1994			1.937000	2.152000			13.200000	14.667000		
1995	0.076000	0.085000	0.372000	0.413000	0.013000	0.014000	13.058000	14.509000	0.203729	0.226365
1996	0.110000	0.122000	0.170000	0.189000	0.100000	0.111000	4.148000	4.609000	0.423990	0.471100
1997	0.168000	0.187000	0.183000	0.204000	1.728000	1.921000	4.132000	4.591000	0.493703	0.548559
Jan-Jun 98	0.028000	0.032000	0.010000	0.011000	0.000000	0.000000	0.535000	0.594000	0.044000	0.049000
Jul98-Jun99	0.205657	0.228507	0.277778	0.308643	0.036461	0.040512	10.740035	11.933373	0.595948	0.662165
JUL99-JUN00	0.119933	0.133259	0.176649	0.196277	0.018035	0.020039	7.989585	8.877317	0.375631	0.417367
JUL00-JUL01	0.481136	0.534595	0.741596	0.823996	0.065950	0.073278	31.176879	34.640977	1.225281	1.361424
AUG01-JUL02	1.156241	1.284712	0.620139	0.689044	0.070328	0.078143	31.436901	34.929890	1.241133	1.379037
AUG02-JUL03	0.707611	0.786235	0.888508	0.542787	0.036751	0.040835	19.95994	22.177711	0.928786	1.031984
AUG03-OCT03	0.162356	0.180396	0.102979	0.114422	0.006394	0.007104	2.955591	3.283990	0.120028	0.133364
NOV03-JAN04	0.129498	0.143886	0.146503	0.162781	0.005851	0.006501	3.737093	4.152327	0.210870	0.234300
FEB04-APR04	0.033105	0.036784	0.032835	0.036484	0.011936	0.013262	0.578743	0.643048	0.040079	0.044532
MAY04-JUL04	0.009432	0.010480	0.032387	0.035985	0.000981	0.001090	0.442039	0.491154	0.022735	0.025262
AUG04-OCT04	0.067675	0.075195	0.174424	0.093804	0.010862	0.012069	3.777410	4.197123	0.206433	0.229370
NOV04-JAN05	0.015829	0.017588	0.058120	0.064578	0.001388	0.001542	0.776833	0.863148	0.053088	0.058986
FEB05-APR05	0.013856	0.015396	0.046252	0.051391	0.001571	0.001746	0.887967	0.986630	0.035226	0.039140
MAY05-JUL05	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
AUG05-OCT05	0.067359	0.074844	0.117648	0.130720	0.006712	0.007458	2.978956	3.309951	0.088199	0.097999
NOV05-JAN06	0.050995	0.056661	0.130321	0.144801	0.004468	0.004964	2.963816	3.293129	0.128577	0.142864
FEB06-APR06	0.043038	0.047820	0.060926	0.067695	0.006341	0.007045	2.550377	2.833752	0.108745	0.120828
MAY06-JUL06	0.051692	0.057436	0.038382	0.042647	0.003869	0.004299	1.680763	1.867514	0.08961	0.099566
AUG06-OCT06	0.009340	0.010378	0.017159	0.019066	0.001059	0.001177	0.418126	0.464585	0.018246	0.020273
NOV06-JAN07	0.023331	0.025923	0.047506	0.052785	0.003652	0.004057	1.673714	1.859682	0.104649	0.116277
FEB07-APR07	0.019159	0.021288	0.073215	0.08135	0.003541	0.003934	1.247044	1.385606	0.043621	0.048468
MAY07-JUL07	0.045494	0.050549	0.56152	0.062391	0.003847	0.004275	3.444526	3.827251	0.078509	0.087232
AUG07-OCT07	0.069258	0.076954	0.099208	0.110231	0.004546	0.005051	3.291772	3.657524	0.095464	0.106071
NOV07-JAN08	0.020127	0.022363	0.064680	0.071866	0.003361	0.003734	2.440637	2.711819	0.068783	0.076426
FEB08-APR08	0.011038	0.012264	0.044009	0.048899	0.001942	0.002157	0.828401	0.920446	0.026829	0.029810
MAY08-JUL08	0.021824	0.024249	0.068966	0.076629	0.007101	0.007890	2.046289	2.273655	0.077813	0.086459
AUG08-NOV08	0.023885	0.026539	0.113517	0.126130	0.014930	0.016589	3.897166	4.330184	0.281862	0.313180
DEC08-FEB09	0.006765	0.007516	0.010026	0.011140	0.001619	0.001799	0.576207	0.640230	0.028448	0.031609
MAR09-MAY09	0.005750	0.006389	0.015189	0.016876	0.002050	0.002278	0.436129	0.484588	0.012314	0.013682
JUN09-AUG09	0.001439	0.001599	0.001872	0.002080	0.000239	0.000266	0.113639	0.126265	0.001959	0.002177
SEP09-NOV09	0.013334	0.014815	0.028894	0.032104	0.010739	0.011932	1.237189	1.374654	0.027037	0.030041
DEC09-FEB10	0.003687	0.004097	0.010138	0.011265	0.003227	0.003586	0.313390	0.348212	0.011175	0.012417
MAR10-MAY10	0.008863	0.009848	0.023368	0.025965	0.002954	0.003283	0.615148	0.683498	0.017194	0.019104
JUN10-AUG10	0.034141	0.037934	0.082568	0.091742	0.036514	0.040571	2.373179	2.636866	0.063512	0.070569
SEP10-NOV10	0.003525	0.003917	0.034520	0.038356	0.002899	0.003221	1.832190	2.035767	0.007759	0.008621
DEC10-FEB11	0.001466	0.001628	0.003968	0.004409	0.000976	0.001085	0.162984	0.181094	0.003236	0.003596
MAR11-MAY11	0.006372	0.007080	0.009558	0.010620	0.002546	0.002829	0.571299	0.634776	0.007219	0.008021
JUN11-AUG11	0.031186	0.034651	0.070220	0.078022	0.019414	0.021571	2.994681	3.327424	0.041926	0.046584
SEP11-NOV11	0.013664	0.015182	0.033139	0.036821	0.006910	0.007678	1.201475	1.334972	0.019161	0.021290
DEC11-FEB12	0.003560	0.003956	0.005195	0.005772	0.000941	0.001045	0.189445	0.210495	0.003717	0.00413
MAR12-MAY12	0.004618	0.005131	0.012211	0.013568	0.004720	0.005245	0.415081	0.461201	0.009184	0.010205
JUN12-AUG12	0.007905	0.008783	0.028107	0.031230	0.008156	0.009062	0.924759	1.02751	0.023464	0.026071
SEP12-NOV12	0.014299	0.015888	0.004127	0.004586	0.009424	0.010472	1.592406	1.76934	0.029086	0.032318
DEC12-FEB13	0.001635	0.001817	0.003826	0.004251	0.001034	0.001149	0.149496	0.166107	0.002376	0.002640
MAR13-MAY13	0.003007	0.003341	0.011480	0.012756	0.002460	0.002733	0.733929	0.815477	0.008337	0.009263
JUN13-AUG13	0.024774	0.027526	0.067165	0.074628	0.040419	0.044910	2.282037	2.535597	0.057380	0.063755
SEP13-NOV13	0.011431	0.012701	0.027164	0.030183	0.009059	0.010066	1.739241	1.932489	0.025791	0.028656
DEC13-FEB14	0.001919	0.002132	0.006521	0.007245	0.002782	0.003091	0.228251	0.253612	0.007289	0.008099
TOTAL	4.144209	4.606232	9.394483	9.777021	2.341959	2.602623	237.975758	264.417960	7.839131	8.710256
Table 2 Limits	Report	Report	375	420	89	100	2500	2800	2677	Report

Table IV

Amount of Sludge Applied to McCurry's Site (Cumulative Pollutant Loading) (Continued)

YEAR	K lb/ac	K kg/ha
Mar99-Jun99	11.505860	12.784290
JUL99-JUN00	7.608615	8.454016
JUL00-JUL01	30.417320	33.79702
AUG01-JUL02	88.155930	97.951033
AUG02-JUL03	31.616264	35.129182
AUG03-OCT03	3.124144	3.471271
NOV03-JAN04	3.623048	4.025609
FEB04-APR04	0.966774	1.074194
MAY04-JUL04	0.590522	0.656135
AUG04-OCT04	3.783013	4.203347
NOV04-JAN05	0.974086	1.082318
FEB05-APR05	5.659568	6.288409
MAY05-JUL05	0.000000	0.000000
AUG05-OCT05	3.228931	3.587701
NOV05-JAN06	11.332237	12.591375
FEB06-APR06	9.918133	11.020147
MAY06-JUL06	1.702430	1.891589
AUG06-OCT06	0.434417	0.482686
NOV06-JAN07	4.902798	5.447553
FEB07-APR07	1.710623	1.900693
MAY07-JUL07	7.538962	8.376624
AUG07-OCT07	0.267406	0.297118
NOV07-JAN08	1.954073	2.171192
FEB08-APR08	1.859196	2.065773
MAY08-JUL08	2.722336	3.024818
AUG08-NOV08	5.045208	5.605787
DEC08-FEB09	0.080331	0.089256
MAR09-MAY09	0.678062	0.753402
JUN09-AUG09	0.021770	0.024189
SEP09-NOV09	0.167792	0.186436
DEC09-FEB10	0.051499	0.057221
MAR10-MAY10	0.095520	0.106133
JUN10-AUG10	0.328956	0.365506
SEP10-NOV10	0.333732	0.370814
DEC10-FEB11	0.194121	0.215690
MAR11-MAY11	1.032219	1.146910
JUN11-AUG11	2.891416	3.212685
SEP11-NOV11	1.413500	1.570556
DEC11-FEB12	1.410763	1.567515
MAR12-MAY12	0.682395	0.758216
JUN12-AUG12	1.480619	1.645132
SEP12-NOV12	1.754897	1.949885
DEC12-FEB13	0.126509	0.140565
MAR13-MAY13	0.530971	0.589968
JUN13-AUG13	2.294817	2.549796
SEP13-NOV13	1.391911	1.546568
DEC13-FEB14	0.493009	0.547787
TOTAL	258.096703	286.774110
Table 2 Limits	NA	NA

Table V
December 2013 through February 2014 Sludge DMR

2nd Quarter: Dec 2013 - Feb 2014: 19.7934 MT			
Metal	mg/kg conc.	kg/ha mtls	lb/ac
As	3.27	0.001066	0.000960
Cd	3.92	0.001278	0.001150
Cr	24.84	0.008099	0.007289
Cu	529.40	0.172618	0.155356
Pb	37.58	0.012253	0.011028
Hg	0.542	0.000177	0.000159
Mo	6.54	0.002132	0.001919
Ni	22.22	0.007245	0.006521
Se	9.48	0.003091	0.002782
Zn	777.80	0.253612	0.228251
K	1680.00	0.547787	0.493009

Calculations;

$\text{mg/kg} \times \text{MT} \times 1000 / 1000000 \times (2.471 / 150) = \text{kg/ha}$

$\text{kg/ha} \times 0.9 = \text{lb/ac}$

McCurry's = 150 usable acres

**Table V (b) (Quarter # 2) Site 1
December 01, 2013 through February 28, 2014 Sludge DMR**

1st Month : December 01 - 31, 2013: 19.7934 MT				2nd Month : January 01 - 31, 2014: No Sludge Applied			
Metal	mg/kg conc.	kg/ha mtls	lb/ac	Metal	mg/kg conc.	kg/ha mtls	lb/ac
As	3.27	0.003167	0.002850	As		0.000000	0.000000
Cd	3.92	0.003797	0.003417	Cd		0.000000	0.000000
Cr	24.84	0.024058	0.021652	Cr		0.000000	0.000000
Cu	529.4	0.512727	0.461455	Cu		0.000000	0.000000
Pb	37.58	0.036396	0.032757	Pb		0.000000	0.000000
Hg	0.542	0.000525	0.000472	Hg		0.000000	0.000000
Mo	6.54	0.006334	0.005701	Mo		0.000000	0.000000
Ni	22.22	0.021520	0.019368	Ni		0.000000	0.000000
Se	9.48	0.009181	0.008263	Se		0.000000	0.000000
Zn	777.8	0.753304	0.677974	Zn		0.000000	0.000000
K	1680	1.627091	1.464382	K		0.000000	0.000000
3rd Month : February 01 - 28, 2014: No Sludge Applied							
Metal	mg/kg conc.	kg/ha mtls	lb/ac				
As		0.000000	0.000000				
Cd		0.000000	0.000000				
Cr		0.000000	0.000000				
Cu		0.000000	0.000000				
Pb		0.000000	0.000000				
Hg		0.000000	0.000000				
Mo		0.000000	0.000000				
Ni		0.000000	0.000000				
Se		0.000000	0.000000				
Zn		0.000000	0.000000				
K		0.000000	0.000000				

*Sludge was not applied to Site # 1 during the 2nd Qtr. of January 2014 to February 2014.

Quarterly Calculations;

$$\text{mg/kg} \times \text{MT} \times 1000 / 1000000 \times (2.471 / 50.5) = \text{kg/ha}$$

$$\text{kg/ha} \times 0.9 = \text{lb/ac}$$

McCurry's = Site # 1 = 50.5 usable acres

**Table V (c) (Quarter # 2) Site 2
December 01, 2013 through February 28, 2014 Sludge DMR**

1st Month: December 01 - 31, 2013: No Sludge Applied				2nd Month: January 01 - 31, 2014: No sludge applied			
Metal	mg/kg conc.	kg/ha mtlis	lb/ac	Metal	mg/kg conc.	kg/ha mtlis	lb/ac
As		0.000000	0.000000	As		0.000000	0.000000
Cd		0.000000	0.000000	Cd		0.000000	0.000000
Cr		0.000000	0.000000	Cr		0.000000	0.000000
Cu		0.000000	0.000000	Cu		0.000000	0.000000
Pb		0.000000	0.000000	Pb		0.000000	0.000000
Hg		0.000000	0.000000	Hg		0.000000	0.000000
Mo		0.000000	0.000000	Mo		0.000000	0.000000
Ni		0.000000	0.000000	Ni		0.000000	0.000000
Se		0.000000	0.000000	Se		0.000000	0.000000
Zn		0.000000	0.000000	Zn		0.000000	0.000000
K		0.000000	0.000000	K		0.000000	0.000000
3rd Month: February 01 - 28, 2014: No Sludge Applied				*Sludge was not applied to Site # 2 during the 2nd Qtr. of December 2013 to February 2014.			
Metal	mg/kg conc.	kg/ha mtlis	lb/ac				
As		0.000000	0.000000				
Cd		0.000000	0.000000				
Cr		0.000000	0.000000				
Cu		0.000000	0.000000				
Pb		0.000000	0.000000				
Hg		0.000000	0.000000				
Mo		0.000000	0.000000				
Ni		0.000000	0.000000				
Se		0.000000	0.000000				
Zn		0.000000	0.000000				
K		0.000000	0.000000				

Quarterly Calculations;
 $\text{mg/kg} \times \text{MT} \times 1000 / 1000000 \times (2.471 / 67.5) = \text{kg/ha}$
 $\text{kg/ha} \times 0.9 = \text{lb/ac}$
McCurry's = Site # 2 = 67.5 usable acres

**Table V (d) (Quarter # 2) Site 3
December 01, 2013 through February 28, 2014 Sludge DMR**

1st Month : December 01-31, 2013: No Sludge Applied				2nd Month : January 01 - 31, 2014: No Sludge Applied			
Metal	mg/kg conc.	kg/ha mtl	lb/ac	Metal	mg/kg conc.	kg/ha mtl	lb/ac
As		0.000000	0.000000	As		0.000000	0.000000
Cd		0.000000	0.000000	Cd		0.000000	0.000000
Cr		0.000000	0.000000	Cr		0.000000	0.000000
Cu		0.000000	0.000000	Cu		0.000000	0.000000
Pb		0.000000	0.000000	Pb		0.000000	0.000000
Hg		0.000000	0.000000	Hg		0.000000	0.000000
Mo		0.000000	0.000000	Mo		0.000000	0.000000
Ni		0.000000	0.000000	Ni		0.000000	0.000000
Se		0.000000	0.000000	Se		0.000000	0.000000
Zn		0.000000	0.000000	Zn		0.000000	0.000000
K		0.000000	0.000000	K		0.000000	0.000000
3rd Month: February 01 - 28, 2014: No Sludge Applied				*Sludge was not applied to Site # 3 during the months of December 2013 to February 2014.			
Metal	mg/kg conc.	kg/ha mtl	lb/ac				
As		0.000000	0.000000				
Cd		0.000000	0.000000				
Cr		0.000000	0.000000				
Cu		0.000000	0.000000				
Pb		0.000000	0.000000				
Hg		0.000000	0.000000				
Mo		0.000000	0.000000				
Ni		0.000000	0.000000				
Se		0.000000	0.000000				
Zn		0.000000	0.000000				
K		0.000000	0.000000				
Al		0.000000	0.000000				
Ba		0.000000	0.000000				
Ag		0.000000	0.000000				

Quarterly Calculations;
 $\text{mg/kg} \times \text{MT} \times 1000 / 1000000 \times (2.471 / 32.0) = \text{kg/ha}$
 $\text{kg/ha} \times 0.9 = \text{lb/ac}$
McCurry's = Site # 3 = 32.0 usable acres

Table VI**PSRP(Fecal) and % Total & % Volatile Solids for December 2013 Through February 2014**

DATE	PSRP Fecal Coliform CFU/gram	%Total Solids		%VolatileSolids	
		Anaerobic Digester	Holding Tank	Anaerobic Digester	Holding Tank
12/16/2013	4,578	1.95		62.20	
1/27/2014	20,535	2.40		65.30	
2/10/2014			4.90		78.70
2/24/2014	475,981	2.50		62.80	
Average	167031	2.28	4.90	63.43	78.70

STEP 2 - SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Site No. 17

Note: Please include a fertilizer recommendation from the local County Extension Service or equivalent source for determining the nutrient needed by the specified crop(s).

Intended Crop(s): Coastal bermuda, common bermuda, wheatgrass, ryegrass, clover

Yield Goal(s): 2-Cut, 2 ton/ac/cut and moderate grazing pH: 6.4

	<u>N (lbs/Acre)</u>
A. Nutrient needed by crop for specific yield goal**	See Attachment A <u>400</u>
B. Nutrient available in soil (lbs/acre) (= 2 x NO ₃ -N(ppm)(0-6" soil depth) + 6 x NO ₃ -N(ppm)(6-24" soil depth)) **	<u>71.76</u> (SM4500D)
C. Nutrient amount still needed [Nutrient needed - Nutrient available] (enter this amount in Step 4 A.)	<u>328.2</u>

**Please provide the means of determining these values.

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

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

A. Organic Nitrogen = TKN - (NH ₄ -N) - (NO ₃ -N) = (Multiply by percent values in Appendix C for PAN) x <u>20</u> % =	<u>21.57</u> <u>4.31</u>
B. Ammonium Nitrogen (NH ₄ -N) x V = <u>58.92</u> x <u>1.0</u> = Use Volatilization factor (V) = 0.5 if sludge is left on soil surface; Use Volatilization factor (V) = 1.0 if sludge is worked into soil.	<u>+ 58.92</u>
C. Nitrate Nitrogen (NO ₃ -N) =	<u>+ 45.96</u>
D. 3A. + 3B. + 3C. = (enter this amount in Step 4B.) Total PAN =	<u>109.19</u>

STEP 4 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON CROP NITROGEN NEEDS (SAR_N)

A. Enter amount from Step 2C. Nitrogen amount still needed:	<u>328.2</u> lbs/acre/year
B. Enter amount from Step 3D. Total PAN in sludge:	<u>109.19</u> lbs/ton
C. Sludge Application Rate (SAR _N) = A ÷ B = <u>328.2</u> / <u>109.19</u> =	<u>3.00</u> tons/acre/year

STEP 2 - SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

SITE NO. 2-00

Note: Please include a fertilizer recommendation from the local County Extension Service or equivalent source for determining the nutrient needed by the specified crop(s).

Intended Crop(s): Coastal bermuda, common bermuda, wheatgrass, ryegrass, clover

Yield Goal(s): 2-Cut, 2 ton/ac/cut and moderate grazing pH: 4.9

	<u>N (lbs/Acre)</u>
A. Nutrient needed by crop for specific yield goal**	See Attachment A <u>400</u>
B. Nutrient available in soil (lbs/acre) [= 2 x NO ₃ -N(ppm)(0-6" soil depth) + 6 x NO ₃ -N(ppm)(6-24" soil depth)] **	<u>88.74 (3M4500D)</u>
C. Nutrient amount still needed [Nutrient needed - Nutrient available] (enter this amount in Step 4 A.)	<u>311.3</u>

**Please provide the means of determining these values.

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

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

A. Organic Nitrogen = TKN - (NH ₄ -N) - (NO ₃ -N) =	<u>21.57</u>
(Multiply by percent values in Appendix C for PAN) x <u>20</u> % =	<u>4.31</u>
B. Ammonium Nitrogen (NH ₄ -N) x V = <u>58.91</u> x <u>1.0</u> =	<u>+ 58.92</u>
Use Volatilization factor (V) = 0.5 if sludge is left on soil surface; Use Volatilization factor (V) = 1.0 if sludge is worked into soil.	
C. Nitrate Nitrogen (NO ₃ -N) =	<u>+ 45.96</u>
D. 3A. + 3B. + 3C. = (enter this amount in Step 4B.) Total PAN =	<u>109.19</u>

STEP 4 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON CROP NITROGEN NEEDS (SAR_N)

A. Enter amount from Step 2C. Nitrogen amount still needed:	<u>311.3</u> lbs/acre/year
B. Enter amount from Step 3D. Total PAN in sludge:	<u>109.19</u> lbs/ton
C. Sludge Application Rate (SAR _N) = A + B = <u>311.3</u> - <u>109.19</u> =	<u>202.11</u> tons/acre/year

STEP 2 - SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Site No. 34

Note: Please include a fertilizer recommendation from the local County Extension Service or equivalent source for determining the nutrient needed by the specified crop(s).

Intended Crop(s): Coastal bermuda, common bermuda, wheatgrass, ryegrass, clover

Yield Goal(s): 2-Cut, 2 ton/ac/cut and moderate grazing pH: 4.6

	<u>N (lbs/Acre)</u>
A. Nutrient needed by crop for specific yield goal**	<u>See Attachment A</u> 400
B. Nutrient available in soil (lbs/acre) [= 2 x NO ₃ -N(ppm)(0-6" soil depth) + 6 x NO ₃ -N(ppm)(6-24" soil depth)] **	<u>74.46 (SM4500D)</u>
C. Nutrient amount still needed [Nutrient needed - Nutrient available] (enter this amount in Step 4 A.)	<u>325.54</u>

**Please provide the means of determining these values.

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

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

A. Organic Nitrogen = TKN - (NH ₄ -N) - (NO ₃ -N) =	<u>21.57</u>
(Multiply by percent values in Appendix C for PAN) x <u>20</u> % =	<u>4.31</u>
B. Ammonium Nitrogen (NH ₄ -N) x V = <u>58.92</u> x <u>1.0</u> =	<u>+ 58.92</u>
Use Volatilization factor (V) = 0.5 if sludge is left on soil surface; Use Volatilization factor (V) = 1.0 if sludge is worked into soil.	
C. Nitrate Nitrogen (NO ₃ -N) =	<u>+ 45.96</u>
D. 3A. + 3B. + 3C. = (enter this amount in Step 4B.) Total PAN =	<u>109.19</u>

STEP 4 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON CROP NITROGEN NEEDS (SAR_N)

A. Enter amount from Step 2C. Nitrogen amount still needed:	<u>325.54</u> lbs/acre/year
B. Enter amount from Step 3D. Total PAN in sludge:	<u>109.19</u> lbs/ton
C. Sludge Application Rate (SAR _N) = A ÷ B = <u>325.54</u> ÷ <u>109.19</u> =	<u>2.98</u> tons/acre/year

2.98

December 2013

DATE	GALS.	DRY LBS.	TONS	AVG. FILT.	SOL.LBS. RECIRC.	Total Tons	Tons ACL	Tons Applied	LDS ACL	LDS McCurry	Site #
12/1/2013											
12/2/2013	43750	6604.238	3.302	1210	441.499	3.0814	3.0814		2		
12/3/2013	43400	6551.404	3.276	830	300.423	3.1255	1.5627	1.5627	1	1	
12/4/2013	43400	6551.404	3.276	870	314.902	3.1183	3.1183		2		
12/5/2013	54250	8189.255	4.095	970	438.872	3.8752	3.8752		2		
12/6/2013	23100	3487.037	1.744	970	186.874	1.6501	1.6501		1		
12/7/2013											
12/8/2013											
12/9/2013	40775	6903.289	3.452	1130	384.272	3.2595	3.2595		2		
12/10/2013	40300	6822.871	3.411	1310	440.294	3.1913	3.1913		2		
12/11/2013	27900	4723.526	2.362	1178	274.104	2.2247	2.2247		1		
12/12/2013	39525	6691.662	3.346	730	240.636	3.2255	3.2255		2		
12/13/2013	20925	3542.644	1.771	1540	268.752	1.6369	1.6369		1		
12/14/2013											
12/15/2013											
12/16/2013											
12/17/2013	25650	4342.596	2.171	720	154.023	2.0943		2.0943		1	
12/18/2013	19000	3216.738	1.608	1160	183.814	1.5165	1.5165		1		
12/19/2013	28000	4740.456	2.370	2200	513.744	2.1134	2.1134		1		
12/20/2013	46500	7872.543	3.936	1360	527.422	3.6726	3.6726		2		
12/21/2013	70200	11885.000	5.943	1360	796.236	5.5444	5.5444		3		
12/22/2013											
12/23/2013	44100	7466.218	3.733	1160	426.641	3.5198	1.7599	1.7599	1	1	
12/24/2013											
12/25/2013	46200	7821.752	3.911	965	371.822	3.7250		3.7250		2	
12/26/2013	44100	7466.218	3.733	965	354.921	3.5556		3.5556		2	
12/27/2013	29400	4977.479	2.489	770	188.801	2.3943		2.3943		1	
12/28/2013											
12/29/2013	21000	3555.342	1.778	2345	410.703	1.5723		1.5723		1	
12/30/2013	39150	7444.451	3.722	2060	672.613	3.3859		3.3859		2	
12/31/2013	42050	7995.892	3.998	2630	922.333	3.5368	1.7684	1.7684	1	1	
TOTAL	832675	138852	69.42601	28433	8813.7012	65.0192	43.2007	21.8185	25	12	
AVG	37849	6311.455	3.1557	1292	400.623	2.9554	2.7000	2.4243			

There was no Pressing on these Dates

12/1/2013 12/7/2013 12/8/2013 12/14/2013 12/15/2013 12/16/2013 12/22/2013 12/24/2013 12/28/2013

McCurry's Site 3 = 0 Tons Applied

Total Sludge Land Applied at McCurry's = 21.8185 Tons Applied

Landfilled Sludge = 43.2007 Tons

Total Sludge Disposed December 2013 = 65.0192 Tons

January 2014

DATE	GALS.	DRY LBS.	TONS	AVG. FILT.	SOL.LBS. RECIRC.	Total Tons	Tons ACL	Tons McCurry	LDS ACL	LDS McCurry	Site #
1/1/2014	19500	3707.964	1.854	1430	232.561	1.7377	1.7377		1		
1/2/2014	50250	9555.138	4.778	1430	599.292	4.4779	4.4779		2		
1/3/2014	27000	5134.104	2.567	1430	322.007	2.4060	2.4060		1		
1/4/2014	22475	4273.666	2.137	1430	268.041	2.0028	2.0028		1		
1/5/2014											
1/6/2014	43400	8831.728	4.416	2500	904.890	3.9634	3.9634		2		
1/7/2014	39650	8068.616	4.034	2020	667.976	3.7003	3.7003		2		
1/8/2014	41325	8409.472	4.205	980	337.757	4.0359	4.0359		2		
1/9/2014	35700	7264.807	3.632	1260	375.150	3.4448	3.4448		2		
1/10/2014	18225	3708.715	1.854	1090	165.676	1.7715	1.7715		1		
1/11/2014											
1/12/2014											
1/13/2014	44100	9746.541	4.873	1050	386.184	4.6802	4.6802		2		
1/14/2014	48300	10674.783	5.337	2660	1071.507	4.8016	4.8016		2		
1/15/2014	25200	5569.452	2.785	1490	313.150	2.6282	2.6282		1		
1/16/2014	25200	5569.452	2.785	2702	567.874	2.5008	2.5008		1		
1/17/2014	50400	11138.904	5.569	5610	2358.085	4.3904	4.3904		2		
1/18/2014											
1/19/2014											
1/20/2014	21750	4806.968	2.403	1005	182.302	2.3123	2.3123		1		
1/21/2014	42050	8627.146	4.314	1320	462.920	4.0821	4.0821		2		
1/22/2014	33800	6934.543	3.467	860	242.427	3.3461	3.3461		2		
1/23/2014	40500	8309.142	4.155	820	276.971	4.0161	4.0161		2		
1/24/2014	44800	9191.347	4.596	1020	381.105	4.4051	4.4051		2		
1/25/2014	42600	8739.986	4.370	1005	357.060	4.1915	4.1915		2		
1/26/2014											
1/27/2014	43200	9295.430	4.648	1210	435.948	4.4297	4.4297		2		
1/28/2014	70000	15062.040	7.531	1030	601.314	7.2304	7.2304		3		
1/29/2014	61500	13233.078	6.617	3510	1800.314	5.7164	5.7164		3		
1/30/2014	60900	13103.975	6.552	1430	726.306	6.1888	6.1888		3		
1/31/2014	40950	8811.293	4.406	1320	450.810	4.1802	4.1802		2		
TOTAL	992775	207768.3	103.8841	41612	14487.63	96.6403	96.6403	0.0000	46	0	
AVG	39711	8310.732	4.1554	1664	579.505	3.8656	3.8656	#DIV/0!			

There was no Pressing on these Dates

1/5/2014 1/11/2014 1/12/2014 1/18/2014 1/19/2014 1/26/2014

McCurry's Site 3 = 0 Tons Applied

Total Sludge Land Applied at McCurry's = 0 Tons Applied

Landfilled Sludge = 96.6403 Tons

Total Sludge Disposed January 2014 = 96.6403 Tons

February 2014

DATE	GALS.	DRY LBS.	TONS	AVG. FILT.	SOL.LBS. RECIRC.	Total Tons	Tons ACL	Tons McCurry	LDS ACL	LDS McCurry	Site #
2/1/2014	20925	4502.474	2.251	1700	296.675	2.1029	2.1029		1		
2/2/2014											
2/3/2014	74400	15450.350	7.725	2000	1240.992	7.1047	7.1047		3		
2/4/2014	74700	15512.650	7.756	2640	1644.715	6.9340	6.9340		3		
2/5/2014	47675	9900.477	4.950	1840	731.601	4.5844	4.5844		2		
2/6/2014	22950	4765.935	2.383	2660	509.132	2.1284	2.1284		1		
2/7/2014	22200	4610.185	2.305	1550	286.979	2.1616	2.1616		1		
2/8/2014											
2/9/2014											
2/10/2014	44850	9276.415	4.638	2260	845.351	4.2155	4.2155		2		
2/11/2014	47450	9814.178	4.907	1790	708.362	4.5529	4.5529		2		
2/12/2014	50700	10486.382	5.243	1610	680.769	4.9028	4.9028		2		
2/13/2014	24300	5026.018	2.513	2422	490.847	2.2676	2.2676		1		
2/14/2014	25800	5336.266	2.668	4030	867.143	2.2346	2.2346		1		
2/15/2014	44400	9183.341	4.592	2422	896.857	4.1432	4.1432		2		
2/16/2014											
2/17/2014	73575	14726.772	7.363	2010	1233.367	6.7467	6.7467		3		
2/18/2014	68125	13635.900	6.818	2220	1261.321	6.1873	6.1873		3		
2/19/2014	47400	9487.584	4.744	1410	557.396	4.4651	4.4651		2		
2/20/2014											
2/21/2014											
2/22/2014											
2/23/2014											
2/24/2014											
2/25/2014											
2/26/2014											
2/27/2014											
2/28/2014											
TOTAL	689450	141714.93	70.85746	32564	12251.51	64.7317	64.7317	0.0000	29	0	
AVG	45963	9447.662	4.7238	2171	816.767	4.3154	4.3154	#DIV/0!			

There was no Pressing on these Dates

2/2/2014 2/8/2014 2/9/2014 2/16/2014 2/20/2014 2/21/2014 2/22/2014 2/23/2014 2/24/2014 2/25/2014
 2/26/2014 2/27/2014 2/28/2014

McCurry's Site 3 = 0 Tons Applied

Total Sludge Land Applied at McCurry's = 0 Tons Applied

Landfilled Sludge = 64.7317 Tons

Total Sludge Disposed February 2014 = 64.7317 Tons

JOHN S. STOUT 21

HeB

AuB

HeB

Mx

HeB

ruB

HeB

32.0 AC.

67.5 AC.

50.5 AC.

SICeB

SICeB

SICeB

OLD EWING RD
AP 112

ALL WHITE

