Triangle Brick

6523 NC Highway 55
Durham, NC 27713
Durham: (919) 544-1796
Raleigh: (919) 828-2070

Toll Free: 800-672-8547
Fax: 800-849-0612

7/12/2012

North Carolina Department of Environment and Natural Resources
Division of Waste Management
1646 Mail Service Center,
Raleigh, NC 27699-1646

RECEIVED
JUL 26 2012
SOLID WASTE SECTION

Dear Mr. Michael Scott,

I am writing to submit an annual report on behalf of Triangle Brick Company for the land application of the limestone by-product that we generate. This is in accordance with the BMP plan that was approved on April 4, 2006 by Mr. Paul S. Crissman and continued approval granted by yourself on June 2, 2009.

Triangle Brick Company has distributed 224 tons of limestone by-product from July 1, 2011 thru June 30, 2012. Mr. Tom McRae has not land applied any material in the same 12 month period. Please find enclosed waste analysis reports from the quarterly samples taken on 8/17/2011, 11/21/2011, 2/7/2012 and5/11/2012.

Paul M. Maxwell

Director of Manufacturing,
Wadesboro Plants
Triangle Brick Company

cc. Ricky Merritt
Howard Brown

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NCDA&CS Agronomic Division | Phone: (919) 733-2655 | Website: www.ncagr.gov/agronomi/ | Report No. FY12-W001320

Diagnostic

Waste Report

Client: Triangle Brick
Attn: Paul Maxwell
2960 Hwy 52 North
Wadesboro, NC 28170

County: Anson

Advisor: David Dycus
250 Dycus Rd
Sanford, NC 27330

Links to Helpful Information

Sampled: **Received:** 08/25/2011 **Completed:** 09/27/2011 *Farm:*

Sample Information

Sample ID: 081711
Waste Code: IOO
Description:
Indust.-Other

Comments:

Nutrient and Other Measurements

Nitrogen (N) (ppm)		*P (ppm)*	*K (ppm)*	*Ca (ppm)*	*Mg (ppm)*	*S (ppm)*	*Fe (ppm)*	*Mn (ppm)*	*Zn (ppm)*	*Cu (ppm)*	*B (ppm)*	*Na (ppm)*	*C (ppm)*
Total N	0	110	474	257000	3870	981	818	62.4	414	1.90	209	343	
Total Kjeldahl N													

Inorganic N	*pH*	*DM (%)*	*SS (10^{-5}S/cm)*	*EC (mS/cm)*	*CCE (%)*	*ALE* (tons)	*C:N*
NH_4-N	7.44	99.7			98.3	0.92	
NO_3-N							

Organic N	*Ni (ppm)*	*Cd (ppm)*	*Pb (ppm)*	*Al (ppm)*	*Se (ppm)*	*Li (ppm)*	*As (ppm)*	*Cr (ppm)*	*Co (ppm)*	*Cl (ppm)*	*Mo (ppm)*
Urea	0.77	0.44	0								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	*N*	*P_2O_5*	*K_2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*
Broadcast Soil Integrated	0	0.38	1.02	385	5.79	1.47	1.22	0.09	0.62	T	0.31	

Other Elements (lb / ton)

Cl	*Na*	*Ni*	*Cd*	*Pb*	*Se*	*Li*
	0.68	T	T	0		

Agronomist's Comments:

Completed: 8/31/2011

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Troxler, Commissioner of Agriculture.

NCDA&CS Agronomic Division **Phone: (919) 733-2655** **Website: www.ncagr.gov/agronomi/** **Report No.** FY12-W003473

Diagnostic

Waste Report

Client: Triangle Brick
Attn: Paul Maxwell
2960 Hwy 52 North
Wadesboro, NC 28170

County: Anson

Advisor: David Dycus
250 Dycus Rd
Sanford, NC 27330

Links to Helpful Information

Sampled: **Received:** 11/23/2011 **Completed:** 12/29/2011 *Farm:*

Sample Information

Sample ID: 112111
Waste Code: IOO
Description:
Indust.-Other

Comments:

Nutrient and Other Measurements

Nitrogen (N) (ppm)		*P (ppm)*	*K (ppm)*	*Ca (ppm)*	*Mg (ppm)*	*S (ppm)*	*Fe (ppm)*	*Mn (ppm)*	*Zn (ppm)*	*Cu (ppm)*	*B (ppm)*	*Na (ppm)*	*C (ppm)*
Total N	297	111	953	430000	5170	1010	833	68.8	260	0.27	155	708	
Total Kjeldahl N													

	pH	*DM (%)*	*SS (10^{-5}S/cm)*	*EC (mS/cm)*	*CCE (%)*	*ALE* (tons)	*C:N*
Inorganic N							
NH_4-N	7.61	99.7			97.3	0.93	
NO_3-N							

Organic N	*Ni (ppm)*	*Cd (ppm)*	*Pb (ppm)*	*Al (ppm)*	*Se (ppm)*	*Li (ppm)*	*As (ppm)*	*Cr (ppm)*	*Co (ppm)*	*Cl (ppm)*	*Mo (ppm)*
Urea	0.41	0.41	0								

Estimate of Nutrients Available for First Crop (lb / ton) **Other Elements** (lb / ton)

Application Method	*N*	*P_2O_5*	*K_2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*	*Cl*	*Na*	*Ni*	*Cd*	*Pb*	*Se*	*Li*
Broadcast Soil Integrated	0.24	0.38	2.05	644	7.74	1.51	1.25	0.10	0.39	T	0.23			1.41	T	T	0		

Agronomist's Comments:

Completed: 12/1/2011

North Carolina
Tobacco Trust Fund Commission

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Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Troxler, Commissioner of Agriculture.

NCDA&CS Agronomic Division | Phone: (919) 733-2655 | Website: www.ncagr.gov/agronomi/ | Report No. FY12-W005025

Diagnostic

Waste Report

Client: Triangle Brick
Attn: Paul Maxwell
2960 Hwy 52 North
Wadesboro, NC 28170

County: Anson

Advisor: David Dycus
250 Dycus Rd
Sanford, NC 27330

Links to Helpful Information

Sampled: | **Received:** 02/10/2012 | **Completed:** 03/13/2012 | *Farm:*

Sample Information

Sample ID: 020712
Waste Code: IOO
Description:
Indust.-Other

Comments:

Nutrient and Other Measurements

Nitrogen (N) (ppm)		*P (ppm)*	*K (ppm)*	*Ca (ppm)*	*Mg (ppm)*	*S (ppm)*	*Fe (ppm)*	*Mn (ppm)*	*Zn (ppm)*	*Cu (ppm)*	*B (ppm)*	*Na (ppm)*	*C (ppm)*
Total N	313	57.0	568	269000	4340	737	740	71.4	215	1.75	131	422	
Total Kjeldahl N													

Inorganic N	*pH*	*DM (%)*	*SS (10^{-5}S/cm)*	*EC (mS/cm)*	*CCE (%)*	*ALE* (tons)	*C:N*
NH_4-N	7.50	99.7			86.3	1.05	
NO_3-N							

Organic N	*Ni (ppm)*	*Cd (ppm)*	*Pb (ppm)*	*Al (ppm)*	*Se (ppm)*	*Li (ppm)*	*As (ppm)*	*Cr (ppm)*	*Co (ppm)*	*Cl (ppm)*	*Mo (ppm)*
Urea	1.69	0.33	0								

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	*N*	*P_2O_5*	*K_2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*
Broadcast Soil Integrated	0.25	0.20	1.22	403	6.49	1.10	1.11	0.11	0.32	T	0.20	

Other Elements (lb / ton)

Cl	*Na*	*Ni*	*Cd*	*Pb*	*Se*	*Li*
	0.84	T	T	0		

Agronomist's Comments:

Completed: 2/14/2012

North Carolina
Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Troxler, Commissioner of Agriculture.

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ **Report No.** FY12-W007904

Diagnostic

Waste Report

Client: Triangle Brick
Attn: Paul Maxwell
2960 Hwy 52 North
Wadesboro, NC 28170

County: Anson

Advisor: David Dycus
250 Dycus Rd
Sanford, NC 27330

Links to Helpful Information

Sampled: **Received:** 05/29/2012 **Completed:** 06/05/2012 *Farm:*

Sample Information

Sample ID: 051112
Waste Code: IOO
Description:
Indust.-Other

Comments:

Nutrient and Other Measurements

Nitrogen (N) (ppm)		*P (ppm)*	*K (ppm)*	*Ca (ppm)*	*Mg (ppm)*	*S (ppm)*	*Fe (ppm)*	*Mn (ppm)*	*Zn (ppm)*	*Cu (ppm)*	*B (ppm)*	*Na (ppm)*	*C (ppm)*
Total N	315	51.4	474	251000	4100	874	725	78.2	178	1.58	274	434	
Total Kjeldahl N													

Inorganic N	*pH*	*DM (%)*	*SS (10^{-5}S/cm)*	*EC (mS/cm)*	*CCE (%)*	*ALE* (tons)	*C:N*
NH_4-N	7.32	99.6			89.5	1.01	
NO_3-N							

Organic N	*Ni (ppm)*	*Cd (ppm)*	*Pb (ppm)*	*Al (ppm)*	*Se (ppm)*	*Li (ppm)*	*As (ppm)*	*Cr (ppm)*	*Co (ppm)*	*Cl (ppm)*	*Mo (ppm)*
Urea	1.18	0.59	2.36								

Estimate of Nutrients Available for First Crop (lb / ton) **Other Elements** (lb / ton)

Application Method	*N*	*P_2O_5*	*K_2O*	*Ca*	*Mg*	*S*	*Fe*	*Mn*	*Zn*	*Cu*	*B*	*Mo*	*Cl*	*Na*	*Ni*	*Cd*	*Pb*	*Se*	*Li*
Broadcast Soil Integrated	0.25	0.18	1.02	375	6.12	1.31	1.08	0.12	0.27	T	0.41			0.87	T	T	T		

Agronomist's Comments:

Completed: June 5, 2012

North Carolina Tobacco Trust Fund Commission

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Troxler, Commissioner of Agriculture.