

April 14, 2015

Ming-Tai Chao, PE  
NC DENR, Division of Waste Management  
Solid Waste Section Permitting  
1646 Mail Service Center  
Raleigh, NC 27699-1646

Permit No.	Date	Document ID No.
<b>26K</b>	<b>April 14, 2015</b>	<b>24145</b>

Received by an e-mail  
Date: **April 14, 2015**  
Solid Waste Section  
Raleigh Central Office

Re: Doc Bennett LCID  
Cumberland County, NC  
Permit No. 26K-LCID

Dear Mr. Chao:

This letter is in response to the comments provided on the above referenced project by your email of April 13, 2015.

We misunderstood the information contained in your letter of March 30, 2015 which indicated a capacity of 121,991 CY for this landfill. We took that to mean there were 121,991 CY remaining in the landfill for this permit renewal. We see by the most recent information you provided that this figure was the total permitted capacity of this LCID.

It is still not clear to us where you derived your figure of 108,221 CY. However, the figures provided to you previously were based on average lengths, widths and depths and did not account for side slopes, end slopes, cover material, etc. We have since gone back to our drawing and used more accurate dimensions to come up with the following areas and volumes for each phase. You will note that we have also addressed the volume shown as "Existing LCID, Approximate Limits of Previously Placed Debris". Coincidentally, it is close to the 13,677 CY figure you provided but the two are not related.

See the table below containing the information requested.

Landfill Phases	Acreage (AC)	Capacity (CY)	Status
<i>Previously Completed</i>	2.8	13,200	<i>Constructed</i>
I	3.8	8,361	Current & Active
II	1.8	10,924	Permitted
III	1.8	12,033	Permitted
IV	1.9	7,259	Permitted
V	0.0	11,022	Permitted
VI	Vertical Expansion	11,481	Permitted
VII	Vertical Expansion	11,481	Permitted
VIII	Vertical Expansion	12,170	Permitted
IX	Vertical Expansion	12,859	Permitted
X	Vertical Expansion	11,200	Permitted
<b>Total</b>	<b>12.2</b>	<b>121,992</b>	

- a. Please note that the total waste footprint will be approximately 12.2 acres, not the 16.1 acres referenced. In reviewing the original permit drawings it appears the 16.1 acres was a drainage area for the sediment basin and not the actual waste area. The above figures should be more accurate and also reflect the area for side slopes, etc..
- b. Approximate waste capacities for each phase are noted above.
- c. As noted in the table, Phase I is active and currently receiving waste material. The remaining phases will receive waste as the previous phase is filled. It is not known at this time how quickly these phases will be completed but all phases should be included in this 5-year renewal.

Should you have further questions or require additional information, please do not hesitate to contact me.

Sincerely,

CALL SIGN ENGINEERS, PA

A handwritten signature in blue ink, appearing to read "Gordon A. Rose". The signature is fluid and cursive, with the first name "Gordon" and last name "Rose" clearly legible.

Gordon A. Rose, PE, LEED AP

**From:** [Gordon Rose](#)  
**To:** [Chao, Ming-tai](#)  
**Cc:** [swaters@barnhillcontracting.com](mailto:swaters@barnhillcontracting.com)  
**Subject:** RE: Doc Bennett LCID  
**Date:** Tuesday, April 14, 2015 2:05:59 PM  
**Attachments:** [Letter BARNHILL Response Doc Bennett LCID 20150414.pdf](#)

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Mr. Chao,

Please see the attached letter in response to your comments. Please let me know if you have any questions.

Thank you,  
Gordon Rose

-----Original Message-----

From: Chao, Ming-tai [<mailto:ming.chao@ncdenr.gov>]  
Sent: Monday, April 13, 2015 4:38 PM  
To: Gordon Rose  
Cc: [swaters@barnhillcontracting.com](mailto:swaters@barnhillcontracting.com)  
Subject: RE: Doc Bennett LCID

Dear Mr. Rose:

The approved total capacity of 121,991 CY for Doc Bennett LCIDLF can be found in the existing permit (DIN 9941) dated April 06, 2010. This volume was requested for an approval by ESP Associates, P.A, on behalf of Barnhill Contracting Company on the e-mail correspondence dated May 13, 2009 (DIN 7606) in which the landfill would be developed by 14 phases over 12.22-acre waste footprint.

The current permit amendment application dated May 07, 2014 proposes to develop the landfill by 10 phases, as shown as-built survey map dated May 27, 2014 (DIN 23929). The new total gross capacity of 121,898 CY for 10-phased development over 9-acre waste footprint is described in the April 9, 2015 response letter (DIN 24137).

The sum of the 10-phased volumes of the landfill is 108,221 CY, not 121,898 CY as shown in the April 9, 2015 response letter (DIN 24137). There is a shortfall of 13,677 CY. Since the drawing C-01 - Project Status, Map Update, May 2014 (DIN 23929), prepared by Call Sign Engineers, shown "Existing LCID, Approximate Limits Of Previously Placed Debris" in the stations 10+15 to 13+10 outside the proposed 10-phased development, I questioned if the above-referenced volume difference of 13,677 CY is the "previously placed waste volume."

If not, please provide me the correct volume of each of the ten (10) phase of the LCIDLF. Please note that the total capacity of the LCIDLF should include the in-place waste volume (Since this landfill has been operating in 1992) and the remained volume for future disposal at Doc Bennett LCIDLF.

Please let me know if you have any question of the landfill capacity. Have a wonderful day.

Ming Chao  
Ming-Tai Chao, P.E.

Environmental Engineer  
Permitting Branch, Solid Waste Section  
Division of Waste Management  
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-----Original Message-----

From: Gordon Rose [<mailto:gordon.rose@callsignengineers.com>]  
Sent: Monday, April 13, 2015 3:54 PM  
To: Chao, Ming-tai  
Cc: Steve Waters  
Subject: FW: Doc Bennett LCID

Mr. Chao,

I am assisting Mr. Waters with the responses to your comments. You state below that you " found out the total capacity of the landfill is about 108,221 cubic yards (CY), not the proposed 121,898 CY". Can you describe to me how you came up with the figure of 108,221 CY? You had previously provided us with the figure of 121,991 CY as the capacity.

Gordon Rose  
Call Sign Engineers, PA  
104 Gillespie Street  
Fayetteville, NC 28301

-----Original Message-----

From: Chao, Ming-tai [<mailto:ming.chao@ncdenr.gov>]  
Sent: Monday, April 13, 2015 2:41 PM  
To: Steve Waters  
Subject: RE: Doc Bennett LCID

Dear Mr. Waters:

After reviewing the 04/09/2015 responses, I found out the total capacity of the landfill is about 108,221 cubic yards (CY), not the proposed 121,898 CY. Could you please verify the volume of each phase? Or the difference of 13,677 CY is the in-place waste volume in Phases I. Please clarify. Thank you for the help.

Ming Chao  
Ming-Tai Chao, P.E.  
Environmental Engineer  
Permitting Branch, Solid Waste Section  
Division of Waste Management  
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-----Original Message-----

From: Steve Waters [<mailto:swaters@barnhillcontracting.com>]  
Sent: Monday, April 13, 2015 9:13 AM  
To: Chao, Ming-tai  
Subject: RE: Doc Bennett LCID

10-4, Thank you very much for your help.

Steve Waters  
Office Manager, Southeast Div.  
Barnhill Contracting Company  
PO Box 35376  
Fayetteville, North Carolina 28303  
910/829-6261 (office)  
910/488-5673 (facsimile)  
910/978-2412 (mobile)  
swaters@barnhillcontracting.com

-----Original Message-----

From: Chao, Ming-tai [<mailto:ming.chao@ncdenr.gov>]  
Sent: Monday, April 13, 2015 8:48 AM  
To: Steve Waters  
Subject: RE: Doc Bennett LCID

Dear Mr. Waters:

I received the response letter and will conduct the permit processes for your facility this week. Have a wonderful day.

Ming Chao  
Ming-Tai Chao, P.E.  
Environmental Engineer  
Permitting Branch, Solid Waste Section  
Division of Waste Management  
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Carolina Public Records Law and may be disclosed to third parties.

-----Original Message-----

From: Steve Waters [<mailto:swaters@barnhillcontracting.com>]

Sent: Monday, April 13, 2015 8:37 AM

To: Chao, Ming-tai

Subject: Doc Bennett LCID

Steve Waters

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