

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

**Municipal  
Services**

**Engineering  
Company, P.A.**

SITE PLANNING/SUBDIVISIONS

SUBSURFACE UTILITY ENGINEERING (SUE)

February 11, 2013

John Murray, P.E.  
Regional Engineer  
NCDENR – Solid Waste Section  
610 E. Center Ave., Ste. 301  
Mooresville, NC 28115

DIN 18444 Rec.-2/11/2013 by e-mail,  
Scanned 2/11/13 JM

Re: Permit to Construct Phase 5  
Iredell County Municipal Solid Waste Landfill Facility  
Permit No. 4903MSWLF-1993

Dear Mr. Murray:

In response to your comment letter *Via Electronic Mail* dated February 6, 2013, we submit the following:

***Comment Number 1: Will C&D and LCID waste ever be placed in the new Phase?***

Yes

***Comment Number 2: Section 1.1.1. states that C&D and LCID waste will be disposed in C&D and LCID landfills. Is this correct? No, There is no longer a C&D landfill and there is no LCID Landfill.***

No, There is no longer a C&D landfill and there is no LCID Landfill.

***Comment Number 3: Is 83.27 acres the total waste footprint for Phase 1-8? Is Phase 9 a vertical expansion.***

The total footprint for Phases 1-8 = 115.64 acres, If there is a ninth phase it will be a vertical expansion.

***Comment Number 4: Provide gross volume of airspace (in cubic yards) for each Phase including capping requirements. What is the area of liner that is needed for each Phase?***

The available airspace in cubic yards for each phase, including capping, is shown on Page 7, the corresponding acreages for liner are as follows: Phase 5 = 16.83 acres, Phase 6 = 15.17 acres, and Phase 7 = 24 acres.

***Comment Number 5: Is the service area only Iredell County, What is the Daily, monthly or annual maximum waste volume?***

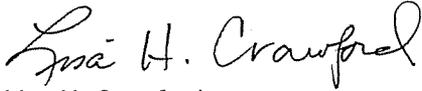
Yes, "The Facility will only accept waste from within Iredell County." The maximum waste volume is as follows: Peak Daily = 600 tons, Peak Monthly = 14,000 tons, and Peak Annual = 175,000 tons

***Comment Number 6: Could you send me any documentation for the Closure work on the C&D Landfill***

Attached is the DWM "Closure Activities Extension Approval letter" dated January, 30, 2009, where the State informed David Lambert that C.T. Gerstell (Field Operations Branch) would need to do a site inspection for the test holes, and a letter from Iredell County dated May 5, 2009 requesting the inspection of the test holes, and the DWM "Facility Compliance Audit Report" dated May 29, 2009, with Comment #24, where the test holes were inspected.

If you have any questions or need additional information please don't hesitate to give us a call.

Sincerely,  
MUNICIPAL ENGINEERING SERVICES CO., PA



Lisa H. Crawford  
Designer



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor  
Dee Freeman, Secretary

SOLID WASTE SECTION

January 30, 2009

Mr. David Lambert  
Iredell County – Director of Solid Waste  
354 Twin Oaks Road  
Statesville, North Carolina 28677

Subject: Closure Activities – Extension Approval  
Iredell County C&D Landfill  
Iredell County, Permit #49-03, Document ID No. 6693

Mr. Lambert:

The Division of Waste Management, Solid Waste Section (Section) received your email request for an extension of closure activities on January 20, 2009. In addition, the Section received a hardcopy letter request on January 21, 2009 providing a revised schedule for closure activities.

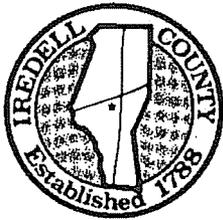
As requested, the letter updates progress and provides a revised schedule of closure activities. Therefore, Iredell County is granted a one-time extension for completion of all closure activities related to the Construction and Demolition Debris landfill. To that end, all closure activities, including a site inspection by C.T. Gerstell with the Field Operations Branch, must be completed no later than May 30, 2009. Once closure is deemed complete and satisfactory the Section will issue an approval letter.

If you should have any questions regarding this matter please contact me at (828) 296-4703, or by email at [allen.gaither@ncmail.net](mailto:allen.gaither@ncmail.net).

Sincerely,

Allen Gaither  
Environmental Engineer

Cc: John Murray – SWS/MRO  
C.T. Gerstell – SWS/MRO



**IREDELL COUNTY**  
**SOLID WASTE FACILITY**

**RECEIVED**

**MAY -7 2009**

354 Twin Oaks Road  
Statesville, North Carolina 28625

SOLID WASTE SECTION Fax: (704) 878-5429  
ASHEVILLE REGIONAL OFFICE (704) 878-5430

May 5, 2009

Fac/Perm/Co ID #	Date	Doc ID#
44-03	5/13/09	7414

Mr. Allen Gaither  
2090 US Highway 70  
Swannaanoa, North Carolina 28778

Subject: Closure Activities – Extension Approval, Inspection Request  
Iredell County C&D  
Iredell County, Permit #49-03, Document ID No. 6693

Mr. Gaither:

I am providing you with an update regarding Iredell County Solid Waste Facility's C&D Landfill, Permit # 49-03. To summarize our activity to date the following events have occurred;

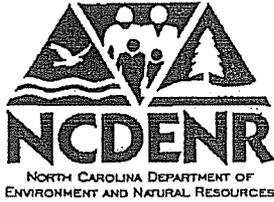
- Acceptance of waste was discontinued on June 27<sup>th</sup>, 2008
- Hydro seeding was conducted during September 2008
- In December it was decided that cover was insufficient on some older portions. Additional soil was applied to correct deficiency.
- Winter weather was not conducive to establishment of vegetative cover.
- A request for extension of closure activities was submitted January 13<sup>th</sup> and approved by the Solid Waste Section on January 30<sup>th</sup>, granting an extension until May 30<sup>th</sup>, 2009

Since that time cover and seeding operations have concluded, test holes have been established and are ready for inspection by the Solid Waste Section. I am requesting an inspection visit be scheduled by C.T. Gerstell, others deemed necessary and any interested parties.

Sincerely,

David Lambert  
Director of Solid Waste  
Iredell County

cc: John Murray – SWS/MRO  
C.T. Gertsell – SWS/MRO



**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

<b>UNIT TYPE:</b>											
Lined MSWLF	<input checked="" type="checkbox"/>	LCID		YW		Transfer		Compost	<input checked="" type="checkbox"/>	SLAS	COUNTY: Iredell PERMIT NO.: 49-03 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods	<input checked="" type="checkbox"/>	Incineration		T&P	<input checked="" type="checkbox"/>	FIRM	
CDLF	<input checked="" type="checkbox"/>	Tire T&P / Collection	<input checked="" type="checkbox"/>	Tire Monofill		Industrial Landfill		DEMO		SDF	

**Date of Audit:** May 29, 2009

**Date of Last Audit:** January 27, 2009

**FACILITY NAME AND ADDRESS:**

Iredell County Landfill  
354 Twin Oaks Road  
Statesville, North Carolina 28625

**GPS COORDINATES:** N: 35.77114      W: 80.82346

**FACILITY CONTACT NAME AND PHONE NUMBER:**

David Lambert, Solid Waste Director (704) 878-5430

**FACILITY CONTACT ADDRESS:**

Same

**AUDIT PARTICIPANTS:**

David Lambert, Solid Waste Director  
Terry Church, Landfill Supervisor  
Charles Gerstell, NCDENR-Solid Waste Section

**STATUS OF PERMIT:**

The Permit to Operate a Municipal Solid Waste Landfill Unit Phase 4 was issued on July 30, 2008 and shall expire on July 30, 2013.

**PURPOSE OF AUDIT:**

Comprehensive Audit

**NOTICE OF VIOLATION(S):**

None

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

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**STATUS OF PAST NOTED VIOLATIONS:**

None

**AREAS OF CONCERN AND COMMENTS:**

1. The permit and operations plan were reviewed. These documents were current and available for review.
2. The facility is currently receiving approximately 601 tons of waste per operating day.

**Records Review:**

3. The financial assurance document was reviewed. Financial assurance was updated on February 18, 2009.
4. Water quality recorded were reviewed and were being performed semi-annually as required.
5. Methane monitoring is being performed quarterly as required.
6. Leachate sampling is being performed semi-annually as required.
7. The leachate inspection log was reviewed and maintenance is being performed as required.
  - Leachate lines were last flushed with water on January 8, 2009.
  - Leachate lines were last viewed by camera on October 28, 2008.
  - The leachate lagoon is inspected monthly and repairs documented when needed. Two small holes observed near the top of the liner were repaired in April 2009.
8. Waste screening forms were reviewed. The documents appeared to be complete.
9. Tire certification forms were reviewed and found to be properly completed and signed.
10. Certified Landfill Managers: David Lambert (expires 5/7/10)  
Terry Church (expires 5/7/10)  
Susan Cornell (expires 5/7/09)
11. Certified Landfill Operations Specialists: Randy Bass (expires 3/12/10)  
Wesley Feimster (expires 3/12/13)  
Jeff Freeze (expires 3/12/10)  
Terry Mills (expires 2/3/13)

**Operations inspection of the MSW Landfill Unit**

12. Waste is currently being placed into Phase 4.
13. Waste exposed from installation of methane wells on north side of phase 3 has been covered with soil as requested on the last inspection report dated January 12, 2009.
14. Waste exposed by the installation of a drainage swale on the north side of phase 3 has been covered with soil as requested on the previous inspection report.
15. One tire was observed at the toe of the working face at the time of inspection. This tire was removed from the working face during the inspection.
16. A non-perforated drum was observed at the toe of the current working face. To allow these items to be disposed of in the landfill, 15A NCAC 13B .0542(e)(1) requires that containers such as tubes, drums, barrels, tanks, cans, and bottles be empty and perforated to ensure that no liquid, hazardous or municipal solid waste is contained therein.
17. A load of non-perforated gas tanks was turned away from the landfill during the inspection.
18. Operational cover was inadequate on inactive areas north of the current working face and on the east side of the current cell adjacent to Phase 3. 15A North Carolina Administrative Code 13B .1626(2)(a) requires that owners or operators of all MSWLF units cover disposed solid waste with six inches of earthen material at the end of each operating day, or at more frequent intervals if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging. **A minimum of six inches of cover must be provided to all inactive areas within 10 days of this dated audit report.**
19. It appeared that geotextile fabric covering the gravel columns located on the floor of Phase 4 was being removed prior to waste being installed over the columns.
20. Windblown waste was well managed at the time of inspection.

**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

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21. All access roads were stable and in good operational condition.

Operations Inspection of the C&D Landfill Unit:

- 22. Iredell County has ceased operation of the C&D Landfill and has started closure procedures.
- 23. Iredell County discontinued the acceptance of waste in the C&D landfill unit on June 27, 2008 per correspondence by David Lambert dated January 13, 2009.
- 24. Iredell County has bored numerous holes throughout the landfill in order to determine the depth of soil cover. Forty-five of the bored holes were observed and soil depth was found to be 2-feet or greater in all locations with the exception of one hole located within the old access road located on the southwest portion of the landfill. This may have been the result of the existence of gravel that was used as a base layer for the access road.
- 25. Multiple areas throughout the landfill have been seeded with only slight germination of seed. Work needs to continue to stabilize all bare and eroded areas with a groundcover sufficient to restrain erosion.
- 26. Slight erosion was observed on the slopes of the landfill. Majority of these eroded areas were observed on the eastern slopes. An area of significant erosion was observed beneath a slope drain that has been installed at the southern portion of the landfill. Efforts must be taken to ensure that the slope drain is properly installed, and all eroded areas must be repaired and stabilized with an adequate groundcover.

Operations Inspection of the White Goods Collection Area:

27. This area was well managed at the time of inspection. No white goods containing freon were present at the time of inspection.

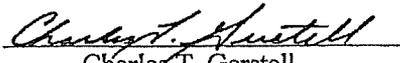
Operations Inspection of the Tire Collection Area:

28. This area was well managed at the time of inspection. All tires were being collected into covered trailers and were being stored properly.

Operations Inspection of the Treatment and Processing:

- 29. This area was well managed at the time of inspection.
- 30. A Small Type 1 Composting Unit Acknowledgement was approved for Permit #49-03 on September 5, 2008.
- 31. Only material currently being ground is land clearing debris and wood pallets.

Please contact me if you have any questions or concerns regarding this audit report.

  
 Charles T. Gerstell  
 Environmental Senior Specialist  
 Regional Representative

Phone: (704) 235-2144

Delivered on : <u>6/10/09</u> by		Hand delivery	<input checked="" type="checkbox"/>	Electronic Correspondence	Certified No. <input type="checkbox"/>
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cc: Mark Poindexter, Field Operations Branch Supervisor  
 Deb Aja, Western District Supervisor  
 Alan Gaither, Environmental Engineer