



**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	<b>COUNTY:</b> Iredell <b>PERMIT NO.:</b> 49-03 <b>FILE TYPE:</b> 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		SDTF	

**Date of Audit:** August 10, 2010 and August 11, 2010

**Date of Last Audit:** April 7, 2010

**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):**

**15A North Carolina Administrative Code 13B .1626(8)(d) states:** *Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to the discharge of leachate to surface waters.*

Iredell County is in violation of 15A NCAC 13B .1626(8)(d) in that during the inspection performed on August 10, 2010, a leachate outbreak was observed on the southern portion of Phase 4 near the transition from the inactive Phase 3. Leachate from this outbreak was observed flowing beyond the edge of liner marker. Therefore, leachate was not properly treated prior to discharge.

To achieve compliance, Iredell County must complete the following actions:

1. Monitor to assure leachate is contained on site or properly treated prior to discharge in accordance with 15A NCAC 13B .1626(8)(d).

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2. To assess the impact of the leachate release outside the waste cell, Iredell County shall acquire the services of a N.C. licensed geologist with experience in assessment and remediation of ground water contamination and submit a phased assessment plan to the Division. The professional geologist shall consult with the Solid Waste Section Hydrogeologist about the site prior to developing the plan. The Section will review the submitted plan, approve, or request more information or amendments before implementation. The plan shall be implemented as approved. Within 30 days, submit this plan to:

Ervin Lane, Compliance Hydrogeologist  
NCDENR-Division of Waste Management  
Solid Waste Section  
410 Oberlin Road, Suite 150  
1646 Mail Service Center  
Raleigh, North Carolina 27699-1646

3. Within 30 days, submit a revised leachate management plan to detail procedures to identify and repair any future leachate seeps and to prevent a leachate release beyond the liner system. Submit the revised plan to:

Larry Frost, Regional Engineer  
NCDENR-Division of Waste Management  
Solid Waste Section  
2090 US Highway 7



View of leachate flowing from soil cover. (8/10/10)



View of leachate leading from waste area beyond edge of liner. (8/10/10)

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Close-up view of leachate flowing toward slope beyond edge of liner. (8/10/10)



Edge of liner marker in foreground with leachate flowing beyond in background. (8/10/10)

**15A North Carolina Administrative Code 13B .1626(2)(a) states:** *Except as provided in (2)(b) of this Paragraph, the owners or operators of all MSWLF units must 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.*

Operational cover was inadequate on inactive areas south of the working face of the MSWLF unit during both inspections performed on August 10, 2010 and August 11, 2010.

To achieve compliance, Iredell County must cover all inactive areas with a minimum of six inches of earthen material within 5 days of this audit report with Notice of Violation(s).



View of exposed waste at top of southern slope. (8/10/10)



View of gullies with exposed waste on south slopes. (8/11/10)

**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.**

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**STATUS OF PAST NOTED VIOLATIONS:**

None

**AREAS OF CONCERN AND COMMENTS:**

1. An initial inspection was performed on August 10, 2010. A follow-up inspection was performed on August 11, 2010 to review facility records and re-evaluate the conditions observed within the MSW Landfill Unit.
2. The permit and operations plan were reviewed. These documents were current and available for review.
3. The facility is currently receiving approximately 564 tons of waste each operating day.

**Records Review:**

4. Financial assurance document was reviewed and was approved on February 18, 2010
5. Ground water monitoring was being performed semi-annually as required.
6. Methane monitoring was being performed quarterly as required.
7. The leachate inspection log was reviewed.
  - Leachate sumps 3 & 4 were flushed and vacuumed on June 15, 2009.
  - Leachate lines were flushed using high pressure water jetting on August 11, 2009.
  - Leachate lines were flushed with a water truck approximately 2-3 weeks prior to inspection.
  - Leachate lagoon inspection log was reviewed. No damage was reported for the year 2010.
8. Waste screening forms were reviewed and appeared adequate. Unacceptable waste streams are being noted when observed. It appeared that there was a need to spread screenings out to different times of day to ensure that multiple trucks and waste types are being monitored.
9. Leachate sampling was being performed semi-annually as required.
10. Tire certification forms were reviewed and found to be properly completed and signed.
11. Certified Landfill Managers:
  - David Lambert (expires 5/7/13)
  - Terry Church (expires 5/7/13)
  - Susan Cornell (expires 5/7/13)
12. Certified Landfill Operations Specialists:
  - Randy Bass (expires 3/12/13)
  - Wesley Feimster (expires 3/12/13)
  - Jeff Freeze (expires 3/12/13)
  - Terry Mills (expires 2/3/13)

**Operations Inspection of the MSW Landfill Unit (August 10<sup>th</sup> inspection):**

13. Was being placed into Phase 4 at the time of inspection.
14. An area of dead vegetation approximately 15-feet X 25-feet was observed at the southeast corner of the inactive Phase 2. Two small leachate stains were observed at the top of the bare area. An observation of this area on the August 11<sup>th</sup> inspection found that additional soil had been placed and re-graded in this area. Continue to monitor this area for leachate outbreaks and ensure that all bare soil is stabilized with a groundcover sufficient to restrain erosion.
15. Twelve tires were observed near the working face which had been removed from the landfill staff. Continue efforts to remove unacceptable waste streams from the landfill when they are observed.
16. No unacceptable waste streams were observed within the working face at the time of inspection.
17. Earthen material was being placed on the northern slopes of the working face.
18. Windblown waste was well managed during both inspections performed on August 10<sup>th</sup> and August 11<sup>th</sup>.
19. Landfill staff began applying Posi-Shell on the working face during the inspection. Mr. Lambert notified staff by two-way radio to ensure that the material was placed properly.

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20. Operational cover was inadequate on inactive areas south of the working face. A significant amount of waste was visible above the soil. Severely eroded slopes were observed on the southern slopes of the landfill exposing waste. Mr. Lambert stated that waste had not been placed in the southern portion of the landfill for approximately one month.
21. A leachate outbreak was observed on the south side of Phase 4 adjacent to the transition point from Phase 3 and just north of leachate sump #3. Leachate was observed flowing from below the operational cover at multiple points for distance of approximately 25-feet. Leachate from the outbreak was observed flowing beyond the edge of liner marker located near leachate sump #3 to a slope located above a sediment basin on the south side of the access road leading around the landfill unit. A sediment basin is located below the fill slope south of the leachate outbreak. Mr. Lambert stated that landfill staff was unaware of the leachate outbreak.
  - Flow from the leachate outbreak was stopped prior to the end of the inspection. Additional soil was placed on the area and was re-graded with a bulldozer.
22. Two additional leachate outbreaks were observed northeast of the aforementioned outbreak. Leachate from these outbreaks appeared to stay within the berm located inside the edge of liner markers.
23. Multiple mattresses were piled up on the southwest portion of the landfill. Mr. Lambert stated that these mattresses were exposed due to recent rains and moved to be buried. These mattresses must be properly covered with operational cover immediately.
24. It appeared that majority of edge of liner markers located along the south side of phase 3 had been removed. All edge of liner markers must be reinstalled to ensure proper verification of the liner edge.
25. All primary access roads were stable and in good operational condition.

Operations Inspection of the MSW Landfill Unit (August 11<sup>th</sup> inspection):

26. Observed the location of the severe leachate outbreak adjacent to the transition point from Phase 3. The area had been re-graded with additional soil as observed the previous day. No leachate was observed.
27. Work had commenced to place soil on the severely eroded gullies with exposed waste located on the southern slopes of the landfill. Soil was being placed at the top of the slope to be pushed over waste. Some gullies had been covered, but additional work was needed to cover remaining exposed waste.

Operations Inspection of the White Goods Collection Area:

28. This area was well managed at the time of inspection. All white goods containing Freon were in an upright position.

Operations Inspection of the Tire Collection Area:

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

Operations Inspection of the Treatment and Processing Area:

30. This area was observed during the August 11<sup>th</sup> inspection and found to be well managed.
31. Compost was placed into windrows with good access for firefighting equipment.
32. Land Clearing waste is kept separate from leaves and landscape material.
33. Land clearing waste was being ground at the time of inspection.
34. Please ensure that freshly ground yard waste is placed into proper windrows.

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



Phone: (704) 235-2144 .

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Charles T. Gerstell  
Environmental Senior Specialist  
*Regional Representative*

<b>Delivered on : <u>8/18/10</u> by</b>		Hand delivery		Electronic Correspondence	<b>X</b>	Certified No. [ <u>7008 1140 0002 2716 2821</u> ]
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cc: Mark Poindexter, Field Operations Branch Supervisor  
Deb Aja, Western District Supervisor

Mr. Joel Mashburn, Iredell County Manager  
Post Office Box 788  
Statesville, North Carolina 28687

Certified Mail: 7008 1140 0002 2716 2968