

- 12. Equipment: a. operation/maintenance; b. backup availability** — Equipment appears to be adequate. This facility also has access to equipment owned by the county secondary roads department. On occasion, it also hires third party contractors to assist with special needs, such as building additional cells, etc. In September the landfill purchased a 2004 model 500 Al-Jon steel wheel compactor. This compactor weighs 83,000 pounds and provides excellent compaction.
- 13. Road adequacy** - The internal roads are in excellent repair.
- 14. Monitoring wells** — Mr. Pitts indicated MW-9 and MW-14 have been properly abandoned and recently re-drilled as MW-9R and MW-14R. He said all other monitoring wells are in good condition. A report of the monitoring wells and conditions are included in the Annual Water Quality Report. This was done under permit amendment #5. That amendment also includes the installation of MW-35 and MW-39, and installation of gas monitoring probes GP-1, GP-2, GP-3, GP-4, GP-5 and GP-6. These monitoring wells and gas probes were also installed this fall.
- 15. Adverse weather operations** — No problems or concerns.
- 16. On-site facilities: a. perimeter fence/gate; b. signs; c. separation distances** — No concerns were noted. Mr. Pitts indicated he will remove the large pole permanent litter fences from the southside of the original landfill but will keep the large pole permanent litter fences along the east side of the original landfill that is adjacent to Cell A-1 as time permits.
- 17. Other** — The old original landfill with its vertical expansion approval ceased being used to dispose municipal solid waste beginning in October 2007, as that area was not Subtitle D compliant. During this inspection I observed that this area has been capped with final cover and seeded in the fall of 2008. The seed has taken quite well and should be very well established next year.

The tree removal site was being managed well. There were an estimated 175 waste tires being stockpiled. Mr. Pitts indicated they are removed about four times per year and they are scheduled to be removed in the near future. He also indicated the plastic pesticide container stockpile would be removed soon. He said the company that removes these containers does this once per year and they usually remove them in the winter. The appliance pile was being managed well.

SUMMARY OF REQUIREMENTS

None.

SUMMARY OF REMINDERS

Ensure all solid waste has adequate daily and intermediate cover compliant with permit provisions.

SUMMARY OF RECOMMENDATIONS

None.

II. Operating Procedures:

1. **Fill Cover: a. daily; b. intermediate (7-day); c. final (60-day)** — At present, TopCoat is being applied daily and then weekly cover is applied compliant with permit provisions. There were several dirt stockpiles located at the top of cell A-1. Mr. Pitts indicated they intend to use that dirt for both intermediate and daily cover.
2. **Fill Elevations (adequate surveying)** — No problems or concerns.
3. **Control of Face: a. width; b. slope; c. dumping location** — The working face is being adequately managed. Cells A-1 and A-2 have been operational for a little less than two years when the need to design and build Cells A-3 and A-4 was necessary. Kuehl and Payer did the design work for Cell A-3. On September 11, 2009 Jennifer Christian of Field Office 3 completed an inspection of the completed construction in response to a work request from the Des Moines office. Kuehl and Payer submitted a Construction Certification Report to our Des Moines office for Cell A-3 dated September 16, 2009 and Cell A-3 was approved to place solid waste in it on September 23, 2009 under permit amendment #4. Noteworthy is the fact that this cell has a synthetic liner where as Cells A-1 and A-2 have compacted clay liners. Mr. Pitts has placed 4 feet of solid waste and one foot of intermediate cover on the entire surface area of Cell A-3. This satisfies the requirement to cover the cell with solid waste before the ground in Cell A-3 freezes.
4. **Compaction** — The solid waste appears to be receiving excellent compaction.
5. **Drainage: a. cover erosion; b. ponding; c. drainage structures - 1. dikes, berms & terraces, 2. tile lines, 3. ditches** — No problems or concerns noted.
6. **Leachate Control: a. system operation; b. head measuring device operation; c. seepage** — This is a Subtitle D landfill and its leachate control system appears to be being managed adequately. Mr. Pitts indicated that the leachate lagoon has been lowered about 4 feet last week by a Lundell Construction Company. The leachate lagoon is normally lowered annually in the fall.
7. **Special Waste Handling** — There have been no special waste authorizations or special wastes received since at least the previous inspection.
8. **Recycling Activities** — In the future, the adjoining separation recycling facilities will increase its separation efficiency with the fuel pelletizing unit which became operational back in April of 2009.
9. **Scavenging & Vector Control** — No problems were noted.
10. **Litter Control: a. fences; b. hand picking** — Wind blown litter was not a problem during this inspection date. Litter is a continual maintenance issue for all landfills. There were portable litter fences located near the working face. Mr. Pitts indicated they have been working on litter picking, but added that the fuel pelletizing process uses plastic grocery bags which comprises a fractional majority of all wind blown litter.
11. **Staffing: a. operators/personnel; b. incoming waste screening; c. operator certification** — This landfill continues to have properly trained and certified landfill operators on its staff. These along with other staff at the landfill, including those who work in the separation facility provide good inbounds waste screening awareness.

General Description:

A Subtitle D landfill project with filling beginning on September 27, 2007 in a lateral and vertical expansion of a new landfill area located adjacent and to the east of the non-Subtitle D vertical expansion of the original landfill which ceased solid waste disposal activity in September of 2007.

I. Record Keeping:

1. **Permit and Plans** — The operation permit for this landfill facility was renewed on April 13, 2009 and will expired on January 31, 2011.
2. **Permit Amendments** — This facility currently has 6 amendments to its operation permit renewed on April 13, 2009.
3. **Permit Special Provisions** — The comprehensive planning area for this facility includes the following: Buena Vista, Cherokee, Ida, and Plymouth Counties excluding the City of Akron, and including the City of Fonda in Pocahontas County.
4. **Permit Required Reports: a. quarterly solid waste report; b. water quality monitoring report; c. semi-annual engineer's report; d. gas monitoring report; e. other** — All these permit required reports have been received in a timely manner.
5. **Storm Water Permit** — This facility is covered by General Permit No. 1 by authorization #5852 – 5667 for its storm water discharges. This authorization was initially issued on March 18, 2003 and covers discharges through September 30, 2011. This facility is also covered by General Permit No. 2 under authorization #17029 – 16801 for its storm water discharges associated with the construction of new Cell A-3. This authorization was issued on April 14, 2009 and will expire on April 14, 2010. There were no apparent violations with either of these authorizations noted during this visit date. It is noteworthy that the original landfill area has a good stand of grasses.
6. **Emergency Response and Remedial Action Plan** — The ERRAP plan is periodically reviewed by staff.
7. **Development & Operation Plan, Leachate Control Plan, Hydrologic Monitoring System Plan, Closure Postclosure Plan** — No comments.
8. **Leachate Volume Record** — Leachate is hauled to the Cherokee WWTP for disposal and treatment. Records are being kept of the dates and amount hauled.
9. **Leachate Control System Performance Evaluation** — An evaluation of the leachate control system will be provide in the Annual Water Quality Report which is due to be submitted by November 30th.
10. **Special Waste Authorization & Special Waste Acceptance Criteria** — This facility is currently not receiving any special waste and all prior special waste authorizations have expired.
11. **Financial Assurance** — This facility has satisfied the financial assurance requirements for calendar year 2009.
12. **Other** — No comments.

IOWA DEPARTMENT OF NATURAL RESOURCES
Sanitary Disposal Project Inspection

Permit #: 18-SDP-01-75P

Page 1

Facility Name: Cherokee County Sanitary Landfill	County: Cherokee
Facility Operator: Don Pitts, Manager	
Address : 1805 Linden Street, Cherokee, IA 51012	Phone: 712/225-3749
Responsible Authority: Cherokee County Solid Waste Commission	
Responsible Official: Ken Slater, Chair	
Address: 1805 Linden Street, Cherokee, IA 51012	Phone: 712/225-3749
Date This Inspection: December 8, 2009	Waste Amount: 31,000 Ton per Year
Date Last Inspection: November 20, 2008	

At the Time of this Inspection:

- | | |
|---|--|
| <ul style="list-style-type: none"> • facility personnel present: Don Pitts, Manager • present fill location: Cell A-2 • future fill location: Cell A-3 | <ul style="list-style-type: none"> • surface conditions: light snow • ambient temperature: 14 F • wind direction and speed: E at 20 mph |
|---|--|

Yes – compliance was being achieved; **No** – compliance was not being achieved,
N/A – not applicable or not observed; **PND** – previously noted deficiency (PND).

I. Documents and Record Keeping:

Yes	No	N/A	PND	Item	Yes	No	N/A	PND	Item
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Permit and Plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Storm Water Permit
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Permit Amendments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. ERRAP
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Permit Special Provisions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. DOP, LCP, HMSP, CPCP
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Permit Required Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Leachate volume record
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. quarterly solid waste report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. LCSPE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. water quality monitoring report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. SWA & SWAC
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. semi-annual engineer's report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. Financial Assurance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	d. gas monitoring report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. Other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	e. other					

II. Operating Procedures:

Yes	No	N/A	PND	Item	Yes	No	N/A	PND	Item
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Fill Cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. Special Waste Handling
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. daily	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Recycling Activities
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. intermediate (7-day)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. Scavenging & Vector Control
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. final (60-day)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. Litter Control
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Fill Elevations (adequate surveying)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. fences
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Control of Face	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. hand picking
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. width					11. Staffing
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. slope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. operators/personnel
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. dumping location	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. incoming waste
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Compaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. operator certification
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Drainage					12. Equipment
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. cover erosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. operation/ maintenance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. ponding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. backup availability
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. drainage structures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13. Road Adequacy
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. dikes, berms & terraces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14. Monitoring Wells
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. tile lines	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. Adverse Weather Operations
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. ditches					16. On-Site Facilities
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Leachate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. perimeter fence/gate
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a. system operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. signs
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	b. head measuring device operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. separation distances
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	c. seepage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17. Other

AUTHENTICATION

INSPECTOR	Name: Bryon Whiting	Date: December 10, 2009
REVIEWER	Name: Ken Hessenius	Date: December 10, 2009



STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

December 11, 2009

Ken Slater, Chairman
Cherokee County Solid Waste Commission
1805 Linden Street
Cherokee, IA 51012

SUBJECT: Sanitary Disposal Project Inspection
SDP Permit #18-SDP-01-75P Cherokee County

Dear Mr. Slater:

Enclosed is a copy of the report resulting from the December 8, 2009 inspection of the Cherokee County Sanitary Landfill. The report is believed to be self-explanatory.

If you have any questions or comments, please contact me.

Sincerely,

Bryon Whiting, Environmental Specialist Senior
Bryon.Whiting@dnr.state.ia.us
Field Service and Compliance Bureau

BW:lw

c: -Becky Jolly, PP&ES, E&WMB, ESD, DNR, Des Moines
-Don Pitts, Manager, Cherokee County Solid Waste Commission, 1805 Linden Street, Cherokee, IA 51012
-Ivan Droessler, P.E., Kuehl & Payer, Ltd., P.O. Box 458, Storm Lake, IA 50588

enc: -Inspection report

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