

AGENDA
LOUDON COUNTY SOLID WASTE DISPOSAL COMMISSION
November 10, 2020
6:30 p.m.
LOUDON COUNTY COURTHOUSE ANNEX
Loudon, Tennessee

1. Opening of Meeting, Pledge of Allegiance, Invocation
2. Approval of Minutes – October 13, 2020
3. Items of Public Concern
4. Cash Activity Report
5. Operations Report
6. Contract Modification Update
7. Green Waste/C&D Cell
8. Attorney's Report
9. Chairman's Report
10. Other Items of Commission's Consideration
11. Adjourn

Minutes

Loudon County Solid Waste Disposal Commission

October 13th, 2020

The Loudon County Solid Waste Disposal Commission met on October 13th, 2020 at 6:30 p.m. at the Loudon County Courthouse Annex. The Commission was represented by Steve Field, Art Stewart, John Watkins, Bruce Hamilton, Kelly Littleton-Brewster, Larry Jameson, and Tammi Bivens. Other attendees included Attorney Kevin Stevens; Santek representatives Ben Johnston, Kaitlyn Hampton, and Adam Hall; Richard Anklin and Pat Hunter.

Mr. Steve Field called the meeting to order at 6:30 p.m.

Mr. Larry Jameson led the Commission in the Pledge of Allegiance and invocation.

MOTION: Mr. John Watkins made a motion to approve the minutes of September 15th, 2020. Mr. Art Stewart seconded the motion. The minutes were approved.

During Items of Public Concern, Ms. Pat Hunter spoke about the availability of previous meeting packets online. She stated that only the agendas for the months of August and September 2020 are available online. She also stated that the last meeting minutes that were posted are from March 10th, 2020.

Mr. Field stated that he sent the previous meeting packets to be posted. He stated that he sent a reminder to the IT department last week when he noticed that they still had not been posted and he has not checked the website since then. He said that he would follow up with the IT department.

Ms. Pat Hunter also stated that she could not locate the special called meeting minutes for the meeting held on September 29th, 2020. Mr. Kevin Stevens clarified that there will not be minutes published for this meeting as it was considered a workshop and there are not typically minutes prepared for workshops. Mr. Larry Jameson stated that the meeting was broadcast on WLNT.

Ms. Pat Hunter asked whether the Commission intends to vote on the contract modification prior to the stakeholders either discussing it in a workshop or voting on it at a meeting. Mr. Field stated that the Commission is waiting to get feedback from the stakeholders before moving forward.

Mr. Richard Anklin inquired about the particulars associated with the estimated increase in host fee to 5.5%. Mr. Field stated that Mr. Stevens would be addressing this topic later in the meeting.

Ms. Kaitlyn Hampton presented the Cash Activity Report for September 2020.

Mr. Field stated that the ongoing Poplar Springs interest and the corresponding Trustees Fee has been added to the Poplar Springs Subfund designation.

Ms. Kaitlyn Hampton presented the Operations Report for September 2020.

Mr. Jameson asked about the percentage of intercompany waste at the landfill. Mr. Ben Johnston stated that he added this information to the Landfill Tonnage Volume document in the meeting packet.

Mr. Field inquired about the AOC's that were reflected on the September TDEC inspection for unsatisfactory litter control, inadequate erosion control, unsatisfactory intermediate cover, and unsatisfactory stabilization of cover. Mr. Adam Hall informed that all items have since been corrected.

Ms. Kelly Littleton-Brewster inquired about the percentage of each material that is reflected on the Materials Classification Report document in the meeting packet. She stated that the total for MSW, special waste, and sludge is 105%. Mr. Johnston stated that sludge is a subset of special waste; however, he agreed that the information is misleading and that he would make the clarification going forward.

Mr. Stevens updated about the estimated increase in host fee to 5.5%. He stated that there was a typo in the summary that was previously distributed; instead of an increase from 4.75% to 5.5%, a correction should be made to reflect an increase from 3.75% to 5.5%.

Mr. Stevens stated that, during the September meeting, Mr. Johnston summarized the financial parameters of the proposed contract modification; however, there was a miscommunication relative to the \$150,000 estimate for the increased host fee. He stated that \$150,000 is within the range which might be obtained, but it is on the high end and there should be a broader range presented. Mr. Stevens stated that this is a long-term estimate which depends on several variables such as volume and tipping fees.

Mr. Johnston distributed a document which outlined the potential financial parameters associated with the host fee increase from 3.75% to 5.5% over the course of the contract extension. He stated that the document provides an average between the lower end of the tipping fee and the higher end for a median of \$24.50.

Mr. Stevens inquired about whether the Commission had received any feedback following the special called meeting workshop that was held on September 29th, 2020. Ms. Tammi Bivens stated that Loudon City has discussed the possibility of performing a feasibility study. She and Mr. Jameson asked how the Commission would proceed in the event that not all the stakeholders provide their approval or consensus to move forward with the contract extension. Mr. Stevens stated that the authority and obligation to oversee the contract belongs to the LCSWDC; however, the Commission would prefer to receive approval or consensus from all stakeholders.

Mr. Field presented the Chairman's Report and disclosed the following expenditures: regular monthly invoice from Kennerly Montgomery for legal fees totaling \$2,500; employee payroll taxes totaling \$53.82; two newspaper notices of meetings, totaling \$53 and \$39.

Mr. Jameson inquired about the possibility for the landfill to supply an area for Loudon City and Loudon County to dispose of brush. Mr. Johnston stated that he would speak to Mr. Ron Vail and Mr. Tim Watts about this possibility and update at the next meeting.

MOTION: Mr. Bruce Hamilton made a motion to adjourn the meeting at 7:37 p.m. and Mr. Stewart seconded the motion. It passed unanimously.

The Commission's next scheduled meeting is November 10th, 2020 at 6:30 p.m. at the Loudon County Courthouse Annex.

Respectfully submitted,

Steve Field, Chairman
Loudon County Solid Waste Disposal Commission

Loudon County Department of Accounts Budgets
Solid Waste Disposal Fund 207
Monthly Cash Report
October 2020

September 2020 Combined Ending Cash Balance per Monthly Report		4,269,147.81
Adjustments:		
Less September 2019 Trustee Commission	0.00	
	0.00	
Total Adjustments		0.00
Adjusted September 2020 Combined Ending Balance		4,269,147.81

Solid Waste Disposal Commission Operating Fund

Operating Fund Ending Balance September 2019		4,212,090.32
Cash Receipts:		
Trustee's Collections - Prior Year	0	
Surcharge - Host Fees (Sep 2020)	10,572.50	
Surcharge - Security Fees (Sep 2020)	12,730.01	
Investment Income - Proration based on % of balance	5,018.96	
Total Monthly Revenue		28,321.47
Cash Disbursements:		
Board & Committee Members Fees	(400.00)	
Social Security	(6.20)	
Medicare	(1.45)	
Audit Services (Mitchell Emert & Hill)	0.00	
Contracts with Private Agencies (Santek)	0.00	
Engineering Services (Santek)	0.00	
Contributions (Loudon Utilities - Quarterly)	0.00	
Legal Services (September 2020)	(2,500.00)	
Legal Notices	(92.75)	
Other Contracted Services	0.00	
Building & Content Insurance	0.00	
In-Service/Staff Development	0.00	
Trustee's Commission - Proration = % of balance	0.00	
Total Cash Disbursements		(3,000.40)
Expenditure Credit:		
Trustee Commission Adjustment		0.00
<u>Operating Fund Ending Balance October 2020</u>		4,237,411.39

Poplar Springs Subfund

Poplar Springs Subfund Balance September 2020		57,057.49
Cash Receipts:		
Investment Income - Proration based on % of balance	67.99	
Total Monthly Revenue		67.99
Cash Disbursements:		
Trustee's Commission - Proration = % of balance	0.00	
Poplar Springs Contractor	0.00	
Total Cash Disbursements		0.00
<u>Poplar Springs Subfund Balance October 2020</u>		57,125.48

TOTAL COMBINED OPERATING AND POPLAR SPRINGS OCTOBER 2020 BALANCE **4,294,536.87**

Combined Summary - October 2020		
Beginning Balance		4,269,147.81
Plus Operating Revenue		28,389.46
Less Operating and Poplar Springs Disbursements		(3,000.40)
TOTAL COMBINED BALANCE - OCTOBER 2020		4,294,536.87

NOTE: Accounting Dept did not have Trustee's October report at time of preparation. Corrections will be reflected on the November report.



650 25th Street, N.W., Suite 100
Cleveland, Tennessee 37311
(423) 303-7101

Email: info@santekwasteservices.com
Internet: santekwasteservices.com

**Monthly Operations Report
Matlock Bend Landfill
November 10, 2020**

**Presented by:
Santek Environmental, Inc.**

- I. OPERATIONS**
 - A. Tonnage Report
 - B. Customer Report
 - C. Inspection
 - D. Materials Classification Report
 - E. Waste Characterization Report
 - F. Tire Report
 - G. Quarterly Facility Inspection Fee Report
 - H. Quarterly Landfill Origin Report

- II. AIRSPACE UTILIZATION SCHEDULE**

- III. HOST & SECURITY FEES**

- IV. ANNUAL PROGRESS REPORT LETTER**

- V. ORIGIN REPORTS 2010 – 2020**

- VI. WOOD WASTE ARTICLE**

LANDFILL TONNAGE VOLUME
MONTH ENDING -
SEPTEMBER 2020

MATLOCK BEND LANDFILL

MONTH	2019	2020	2019 TO 2020
JANUARY	13,578.63	15,673.95	2,095.32
FEBRUARY	11,770.32	14,263.17	2,492.85
MARCH	13,291.24	16,251.35	2,960.11
APRIL	14,140.50	9,791.81	(4,348.69)
MAY	14,366.28	10,315.74	(4,050.54)
JUNE	9,827.56	10,928.67	1,101.11
JULY	10,975.46	10,444.52	(530.94)
AUGUST	10,202.83	9,920.07	(282.76)
SEPTEMBER	10,883.70	9,975.37	(908.33)
OCTOBER	11,554.37	10,542.61	(1,011.76)
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	120,590.89	118,107.26	(2,483.63)
% of TOTAL VOLUME		100%	

DAILY AVG FOR ANY
 RUNNING 30 DAY PERIOD 336.92

LOUDON COUNTY

MONTH	2019	2020	2019 TO 2020
JANUARY	489.09	514.88	25.79
FEBRUARY	437.25	455.37	18.12
MARCH	527.14	598.09	70.95
APRIL	523.08	635.96	112.88
MAY	520.19	586.33	66.14
JUNE	527.77	595.84	68.07
JULY	581.24	578.33	(2.91)
AUGUST	505.05	598.49	93.44
SEPTEMBER	468.00	540.36	72.36
OCTOBER	537.94	545.82	7.88
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	5,116.75	5,649.47	532.72
% of TOTAL VOLUME		4.8%	

DAILY AVG FOR 22.5
 DAY PERIOD 468.56

LENOIR CITY

MONTH	2019	2020	2019 TO 2020
JANUARY	359.51	375.20	15.69
FEBRUARY	310.75	339.26	28.51
MARCH	364.95	472.11	107.16
APRIL	399.46	564.05	164.59
MAY	421.45	452.37	30.92
JUNE	376.08	471.63	95.55
JULY	464.25	513.08	48.83
AUGUST	423.47	427.70	4.23
SEPTEMBER	362.91	478.03	115.12
OCTOBER	400.49	526.37	125.88
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	3,883.32	4,619.80	736.48
% of TOTAL VOLUME		3.9%	

WASTE MANAGEMENT KNOXVILLE

MONTH	2019	2020	2019 TO 2020
TN Trash 2019 Jan-May			
JANUARY	5,184.96	1,045.82	(4,139.14)
FEBRUARY	4,252.39	1,608.55	(2,643.84)
MARCH	5,009.22	2,424.09	(2,585.13)
APRIL	5,315.21	1,675.72	(3,639.49)
MAY	5,341.05	2,373.62	(2,967.43)
JUNE	1,002.69	2,549.31	1,546.62
JULY	1,057.73	2,527.15	1,469.42
AUGUST	1,184.07	2,529.43	1,345.36
SEPTEMBER	1,018.96	2,433.84	1,414.88
OCTOBER	1,097.76	2,657.66	1,559.90
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	30,464.04	21,825.19	(8,638.85)
% of TOTAL VOLUME		18.5%	

CITY OF LOUDON

MONTH	2019	2020	2019 TO 2020
JANUARY	434.56	457.31	22.75
FEBRUARY	367.36	391.61	24.25
MARCH	434.95	486.81	51.86
APRIL	450.53	492.81	42.28
MAY	481.49	488.38	6.89
JUNE	464.46	494.58	30.12
JULY	549.23	498.94	(50.29)
AUGUST	461.07	512.68	51.61
SEPTEMBER	419.83	465.23	45.40
OCTOBER	452.47	494.66	42.19
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	4,515.95	4,783.01	267.06
% of TOTAL VOLUME		4.0%	

WASTE SERVICES OF TN

MONTH	2019	2020	2019 TO 2020
JANUARY	2,912.60	3,339.43	426.83
FEBRUARY	2,545.03	2,998.43	453.40
MARCH	2,954.94	3,467.07	512.13
APRIL	3,275.88	3,382.68	106.80
MAY	3,419.31	3,550.36	131.05
JUNE	3,100.54	3,527.18	426.64
JULY	3,406.12	3,667.57	261.45
AUGUST	3,323.31	3,096.54	(226.77)
SEPTEMBER	3,047.17	3,110.64	63.47
OCTOBER	3,448.07	3,231.06	(217.01)
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	31,432.97	33,370.96	1,937.99
% of TOTAL VOLUME		28.3%	

**LANDFILL TONNAGE VOLUME
MONTH ENDING -
SEPTEMBER 2020**

MARION ENVIRONMENTAL - TVA ASB

MONTH	2019	2020	2019 TO 2020
JANUARY	0.00	6,212.69	6,212.69
FEBRUARY	0.00	5,667.71	5,667.71
MARCH	0.00	5,769.39	5,769.39
APRIL	0.00	0.62	0.62
MAY	0.00	0.00	0.00
JUNE	0.00	0.00	0.00
JULY	0.00	0.00	0.00
AUGUST	0.00	0.00	0.00
SEPTEMBER	0.00	0.00	0.00
OCTOBER	0.00	0.00	0.00
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	0.00	17,650.41	17,650.41
% of TOTAL VOLUME		14.9%	

All Others

MONTH	2019	2020	2019 TO 2020
JANUARY	4,197.91	3,728.62	(469.29)
FEBRUARY	3,857.54	2,802.24	(1,055.30)
MARCH	4,000.04	3,033.79	(966.25)
APRIL	4,176.34	3,039.97	(1,136.37)
MAY	4,182.79	2,864.68	(1,318.11)
JUNE	4,356.02	3,290.13	(1,065.89)
JULY	4,916.89	2,659.45	(2,257.44)
AUGUST	4,305.86	2,755.23	(1,550.63)
SEPTEMBER	5,566.83	2,947.27	(2,619.56)
OCTOBER	5,617.64	3,087.04	(2,530.60)
NOVEMBER			0.00
DECEMBER			0.00
TOTAL	45,177.86	30,208.42	(14,969.44)
% of TOTAL VOLUME		25.6%	

**TENNESSEE DIVISION OF SOLID WASTE MANAGEMENT
CLASS I FACILITY INSPECTION CHECKLIST***

**CLASS I
FACILITY**

Choose Inspection Type...

SITE	DATE 10/15/2020	TIME 09:30	WEATHER 70F Sunny
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Loudon County Landfill SNL530000203 21712 Highway 72 North Loudon	EFO KNOX
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*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO AOC V1 V2
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BUFFER ZONE STANDARDS FOR SITING LANDFILLS

8310	BUFFER ZONE STANDARD VIOLATED	0400-11-01-.04(3)(a)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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COMMENTS	
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COLLECTED LEACHATE

8330	LEACHATE IMPROPERLY MANAGED	0400-11-01-.04(4)(a)8(i-iii) ?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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COMMENTS	Leachate outbreaks reported by landfill on southern slope are in the process of being fixed at time of inspection.
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8340	INADEQUATE LEACHATE COLLECTION SYSTEM	0400-11-01-.04(4)(a)7 ?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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COMMENTS	
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COMMUNICATIONS

8130	NO COMMUNICATION DEVICES	0400-11-01-.04(2)(f) ?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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COMMENTS	
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COVER MATERIAL

8160	UNAVAILABILITY OF COVER MATERIAL.	0400-11-01-.04(2)(h) ?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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COMMENTS	
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DEAD ANIMALS

8250	DEAD ANIMALS IMPROPERLY HANDLED	0400-11-01-.04(2)(k)5.(ii) (I-III) ?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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COMMENTS	
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DUST CONTROL

8190	INADEQUATE DUST CONTROL	0400-11-01-.04(2)(j) ?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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COMMENTS	
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DUTY TO PROVIDE INFORMATION

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION NVO AOC V1 V2				
DUTY TO PROVIDE INFORMATION							
8530	UNSATISFACTORY RECORDS OR REPORTS	0400-11-01-.02(5)(a)7 TCA 68-211-862(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
8590	PERMITS, PLANS, OPERATING MANUAL NOT AVAILABLE	0400-11-01-.02(5)(a)(7)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
FIRE SAFETY							
8080	EVIDENCE OF OPEN BURNING	0400-11-01-.04(2)(c)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
8090	INADEQUATE FIRE PROTECTION	0400-11-01-.04(2)(c)2	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
GAS MIGRATION CONTROL STANDARDS							
8380	INADEQUATE GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS	Soft spot of upper northern slope suggests that additional passive venting may be required.						
8390	INADEQUATE MAINTENANCE OF GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS	Soft spot near burner on northern edge of landfill suggests that system is either not being maintained or sufficiently utilized.						
GENERAL FACILITY STANDARDS							
8010	INADEQUATE VECTOR CONTROL	0400-11-01-.04(2)(a)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
8020	ACCESS NOT LIMITED TO OPERATING HOURS	0400-11-01-.04(2)(a)4	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
8030	INADEQUATE ARTIFICIAL OR NATURAL BARRIER	0400-11-01-.04(2)(b)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
GENERAL FACILITY STANDARDS						
8040	INADEQUATE INFORMATION SIGNS	0400-11-01-.04(2)(b)2 TCA 68-211-703(h)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8050	UNSATISFACTORY ACCESS ROAD(S)/PARKING AREA(S)	0400-11-01-.04(2)(b)3	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8060	CERTIFIED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8070	UNAPPROVED SALVAGING OF WASTE	0400-11-01-.04(2)(b)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
LITTER CONTROL						
8110	UNSATISFACTORY LITTER CONTROL	0400-11-01-.04(2)(d)	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS	Litter is being picked up on site, but several locations still require clean up.					
OPERATING EQUIPMENT						
8140	INADEQUATE OPERATING EQUIPMENT	0400-11-01-.04(2)(g)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8150	UNAVAILABILITY OF BACKUP EQUIPMENT	0400-11-01-.04(2)(g)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS	-back up bulldozer on location and landfill equipment is off site for maintenance.					
OVERALL PERFORMANCE STANDARD						
8270	EXPOSED SOLID WASTE	0400-11-01-.04(2)(a)(3)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8320	INADEQUATE MAINTENANCE OF LEACHATE MANAGEMENT SYSTEM (INSPECTOR TO CHECK AND RECORD LEACHATE LEVELS AT EVERY LANDFILL SUMP)	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)7	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS	-Sump 24.9 "					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION NVO AOC V1 V2
OVERALL PERFORMANCE STANDARD			
8350	LEACHATE OBSERVED AT THE SITE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6,	? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS	Leachate outbreaks near working face were pointed out to inspector, but email was not sent to office before inspection. This will serve as the final warning on the AOC program for self reporting of leachate outbreaks to facility personnel.		
8360	LEACHATE ENTERING RUN-OFF	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8370	LEACHATE ENTERING A WATER COURSE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8420	POTENTIAL FOR EXPLOSIONS OR UNCONTROLLED FIRES	0400-11-01-.04(2)(a)2 0400-11-01-.04(5)(a)	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8490	EXCESSIVE POOLING OF WATER	0400-11-01-.04 (2)(a)3 0400-11-01-.04(8)(c)4(iii)	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8520	DUMPING OF WASTE INTO WATER	0400-11-01-.04 (2)(a)3	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
PERMANENT BENCHMARK			
8280	NO PERMANENT BENCHMARK	0400-11-01-.04(2)(o)	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
PERSONNEL SERVICES			
8120	INADEQUATE EMPLOYEE FACILITIES	0400-11-01-.04(2)(e)	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
PROPER OPERATION AND MAINTENANCE			
8540	GROUNDWATER MONITORING SYSTEM IMPROPERLY MAINTAINED	0400-11-01-.02(5)(a)4	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION NVO AOC V1 V2				
RANDOM INSPECTION PROGRAM							
8290	INADEQUATE RANDOM INSPECTION PROGRAM	0400-11-01-.04(2)(s)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
RECORDS OF ORIGIN AND AMOUNT OF SOLID WASTE							
8610	NO OPERATING SCALES AND/OR FAILURE TO MAINTAIN WASTE RECORDS	TCA 68-211-862(a)(b)(1)(2)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
RUN-ON, RUN-OFF, AND EROSION CONTROL							
8170	INADEQUATE MAINTENANCE OF RUN-ON/RUN-OFF SYSTEM(S)	0400-11-01-.04(2)(i)1-5 0400-11-01-.04(8)(c)4(i)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
8180	INADEQUATE EROSION CONTROL	0400-11-01-.04(2)(i)6 0400-11-01-.04(8)(c)4(ii)	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS	Several areas still require attention, but huge efforts with tack on berms and new grass growth are prevalent on the western slope of the landfill. This program needs to be continued to achieve full compliance.						
SPECIAL WASTE APPROVAL PROCESS							
8300	MISHANDLING OF SPECIAL WASTE	0400-11-01-.01(4)(d)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
UNLAWFUL METHODS OF DISPOSAL							
8570	OPERATION DOES NOT CORRESPOND WITH ENGINEERING PLANS (EVALUATE AND RECORD THE APPROXIMATE INTERIOR AND EXTERIOR SLOPE OF THE LANDFILL)	TCA 68-211-104(3) TCA 68-211-105(b)	?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
8580	OPERATION DOES NOT CORRESPOND WITH PERMIT CONDITIONS	TCA 68-211-104(3) 0400-11-01-.02(5)(a)(1)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							
WASTE HANDLING AND COVER STANDARDS							
8430	WASTE NOT CONFINED TO A MANAGEABLE AREA	0400-11-01-.04(6)(a)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS							

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION NVO AOC V1 V2
WASTE HANDLING AND COVER STANDARDS			
8440	IMPROPER SPREADING OF WASTE	0400-11-01-.04(6)(a)2	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8450	IMPROPER COMPACTING OF WASTE	0400-11-01-.04(6)(a)2	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8460	UNSATISFACTORY INITIAL COVER	0400-11-01-.04(6)(a)3 0400-11-01-.04(6)(a)5	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8470	UNSATISFACTORY INTERMEDIATE COVER	0400-11-01-.04(6)(a)4 0400-11-01-.04(6)(a)5	? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS	Several areas still require attention, but huge efforts with tack on berms and new grass growth are prevalent on the western slope of the landfill. This program needs to be continued to achieve full compliance.		
8480	UNSATISFACTORY FINAL COVER	0400-11-01-.04(6)(a)6 0400-11-01-.04(8)(c)4	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8510	UNSATISFACTORY STABILIZATION OF COVER	0400-11-01-.04(6)(a)5,6	? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS	Several areas still require attention, but huge efforts with tack on berms and new grass growth are prevalent on the western slope of the landfill. This program needs to be continued to achieve full compliance.		
WASTE RESTRICTIONS			
8210	UNAUTHORIZED WASTE ACCEPTED	0400-11-01-.04(2)(k)1 0400-11-01-.04(2)(k)6	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8220	UNAPPROVED SPECIAL WASTE ACCEPTED	0400-11-01-.01(4)(b) 0400-11-01-.01(4)(c)5	? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
WASTE RESTRICTIONS						
8230	TIRES IMPROPERLY HANDLED	0400-11-01-.04(2)(k)3.(i)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8240	MEDICAL WASTE IMPROPERLY HANDLED	0400-11-01-.04(2)(k)4.(i-iv)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

LEACHATE LEVELS

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SAVE FORM

Follow-Up Inspection Date

Inspector Name

Lewis L. Haynes IV

Digitally signed by Lewis L. Haynes IV
DN: cn=Lewis L. Haynes IV, o=Tennessee Department of Environment and Conservation,
ou=Division of Solid Waste Management, email=L.Haynes@state.tn.gov, c=US
Date: 2017.10.16 13:42:10-0500

**TENNESSEE DIVISION OF SOLID WASTE MANAGEMENT
CLASS I FACILITY INSPECTION CHECKLIST***

**CLASS I
FACILITY**

SITE		DATE	TIME	WEATHER
SITE ID	LOCATION			EFO

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION			
		NVO	AOC	V1	V2

BUFFER ZONE STANDARDS FOR SITING LANDFILLS

8310	BUFFER ZONE STANDARD VIOLATED	0400-11-01-.04(3)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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COMMENTS						
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COLLECTED LEACHATE

8330	LEACHATE IMPROPERLY MANAGED	0400-11-01-.04(4)(a)8(i-iii)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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COMMENTS						
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8340	INADEQUATE LEACHATE COLLECTION SYSTEM	0400-11-01-.04(4)(a)7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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COMMENTS						
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5 COMMUNICATIONS

8130	NO COMMUNICATION DEVICES	0400-11-01-.04(2)(f)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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COMMENTS						
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7 COVER MATERIAL

8160	UNAVAILABILITY OF COVER MATERIAL.	0400-11-01-.04(2)(h)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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COMMENTS						
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DEAD ANIMALS

8250	DEAD ANIMALS IMPROPERLY HANDLED	0400-11-01-.04(2)(k)5.(ii) (I-III)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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COMMENTS						
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9 DUST CONTROL

8190	INADEQUATE DUST CONTROL	0400-11-01-.04(2)(j)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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COMMENTS						
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DUTY TO PROVIDE INFORMATION

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
## DUTY TO PROVIDE INFORMATION						
8530	UNSATISFACTORY RECORDS OR REPORTS	0400-11-01-.02(5)(a)7 TCA 68-211-862(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8590	PERMITS, PLANS, OPERATING MANUAL NOT AVAILABLE	0400-11-01-.02(5)(a)(7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
2 FIRE SAFETY						
8080	EVIDENCE OF OPEN BURNING	0400-11-01-.04(2)(c)1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8090	INADEQUATE FIRE PROTECTION	0400-11-01-.04(2)(c)2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
## GAS MIGRATION CONTROL STANDARDS						
8380	INADEQUATE GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8390	INADEQUATE MAINTENANCE OF GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
1 GENERAL FACILITY STANDARDS						
8010	INADEQUATE VECTOR CONTROL	0400-11-01-.04(2)(a)1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8020	ACCESS NOT LIMITED TO OPERATING HOURS	0400-11-01-.04(2)(a)4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8030	INADEQUATE ARTIFICIAL OR NATURAL BARRIER	0400-11-01-.04(2)(b)1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
1 GENERAL FACILITY STANDARDS						
8040	INADEQUATE INFORMATION SIGNS	0400-11-01-.04(2)(b)2 TCA 68-211-703(h)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8050	UNSATISFACTORY ACCESS ROAD(S)/PARKING AREA(S)	0400-11-01-.04(2)(b)3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8060	CERTIFIED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8070	UNAPPROVED SALVAGING OF WASTE	0400-11-01-.04(2)(b)6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
3 LITTER CONTROL						
8110	UNSATISFACTORY LITTER CONTROL	0400-11-01-.04(2)(d)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
6 OPERATING EQUIPMENT						
8140	INADEQUATE OPERATING EQUIPMENT	0400-11-01-.04(2)(g)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8150	UNAVAILABILITY OF BACKUP EQUIPMENT	0400-11-01-.04(2)(g)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
## OVERALL PERFORMANCE STANDARD						
8270	EXPOSED SOLID WASTE	0400-11-01-.04(2)(a)(3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8320	INADEQUATE MAINTENANCE OF LEACHATE MANAGEMENT SYSTEM (INSPECTOR TO CHECK AND RECORD LEACHATE LEVELS AT EVERY LANDFILL SUMP)	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
OVERALL PERFORMANCE STANDARD						
8350	LEACHATE OBSERVED AT THE SITE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8360	LEACHATE ENTERING RUN-OFF	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8370	LEACHATE ENTERING A WATER COURSE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8420	POTENTIAL FOR EXPLOSIONS OR UNCONTROLLED FIRES	0400-11-01-.04(2)(a)2 0400-11-01-.04(5)(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8490	EXCESSIVE POOLING OF WATER	0400-11-01-.04 (2)(a)3 0400-11-01-.04(8)(c)4(iii)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8520	DUMPING OF WASTE INTO WATER	0400-11-01-.04 (2)(a)3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PERMANENT BENCHMARK						
8280	NO PERMANENT BENCHMARK	0400-11-01-.04(2)(o)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PERSONNEL SERVICES						
8120	INADEQUATE EMPLOYEE FACILITIES	0400-11-01-.04(2)(e)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PROPER OPERATION AND MAINTENANCE						
8540	GROUNDWATER MONITORING SYSTEM IMPROPERLY MAINTAINED	0400-11-01-.02(5)(a)4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
RANDOM INSPECTION PROGRAM						
8290	INADEQUATE RANDOM INSPECTION PROGRAM	0400-11-01-.04(2)(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
RECORDS OF ORIGIN AND AMOUNT OF SOLID WASTE						
8610	NO OPERATING SCALES AND/OR FAILURE TO MAINTAIN WASTE RECORDS	TCA 68-211-862(a)(b)(1)(2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
RUN-ON, RUN-OFF, AND EROSION CONTROL						
8170	INADEQUATE MAINTENANCE OF RUN-ON/RUN-OFF SYSTEM(S)	0400-11-01-.04(2)(i)1-5 0400-11-01-.04(8)(c)4(i)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8180	INADEQUATE EROSION CONTROL	0400-11-01-.04(2)(i)6 0400-11-01-.04(8)(c)4(ii)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
SPECIAL WASTE APPROVAL PROCESS						
8300	MISHANDLING OF SPECIAL WASTE	0400-11-01-.01(4)(d)1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
UNLAWFUL METHODS OF DISPOSAL						
8570	OPERATION DOES NOT CORRESPOND WITH ENGINEERING PLANS (EVALUATE AND RECORD THE APPROXIMATE INTERIOR AND EXTERIOR SLOPE OF THE LANDFILL)	TCA 68-211-104(3) TCA 68-211-105(b)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8580	OPERATION DOES NOT CORRESPOND WITH PERMIT CONDITIONS	TCA 68-211-104(3) 0400-11-01-.02(5)(a)(1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
WASTE HANDLING AND COVER STANDARDS						
8430	WASTE NOT CONFINED TO A MANAGEABLE AREA	0400-11-01-.04(6)(a)1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

VIOLATION		REGULATION	OBSERVATION NVO AOC V1 V2
# WASTE HANDLING AND COVER STANDARDS			
8440	IMPROPER SPREADING OF WASTE	0400-11-01-.04(6)(a)2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8450	IMPROPER COMPACTING OF WASTE	0400-11-01-.04(6)(a)2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8460	UNSATISFACTORY INITIAL COVER	0400-11-01-.04(6)(a)3 0400-11-01-.04(6)(a)5	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8470	UNSATISFACTORY INTERMEDIATE COVER	0400-11-01-.04(6)(a)4 0400-11-01-.04(6)(a)5	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8480	UNSATISFACTORY FINAL COVER	0400-11-01-.04(6)(a)6 0400-11-01-.04(8)(c)4	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8510	UNSATISFACTORY STABILIZATION OF COVER	0400-11-01-.04(6)(a)5,6	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
# WASTE RESTRICTIONS			
8210	UNAUTHORIZED WASTE ACCEPTED	0400-11-01-.04(2)(k)1 0400-11-01-.04(2)(k)6	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			
8220	UNAPPROVED SPECIAL WASTE ACCEPTED	0400-11-01-.01(4)(b) 0400-11-01-.01(4)(c)5	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS			

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
WASTE RESTRICTIONS						
8230	TIRES IMPROPERLY HANDLED	0400-11-01-.04(2)(k)3.(i)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8240	MEDICAL WASTE IMPROPERLY HANDLED	0400-11-01-.04(2)(k)4.(i-iv)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

LEACHATE LEVELS

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Follow-Up Inspection Date

Inspector Name _____

ADDITIONAL COMMENTS

Materials Classification Report
Matlock Bend Landfill
Monthly Tonnage Summary October 2020

Material	Tonnage	2017 Sludge %		2018 Sludge %	
MSW					
MSW	8,760	January	5%	January	4%
		February	8%	February	4%
		March	8%	March	5%
		April	7%	April	6%
		May	4%	May	8%
		June	2%	June	9%
		July	3%	July	6%
		August	4%	August	4%
		September	7%	September	2%
		October	8%	October	2%
		November	6%	November	5%
		December	5%	December	5%
Special Waste					
Other	1,432				
Ash	0				
Sludge	350				
Total Special Waste	1,782				
Total MSW & SW	10,543				
Tires	17				
Total Material	10,560				
% MSW	83%				
% Special Waste	17%				
% Sludge *	3%				

2019 Sludge %		2020 Sludge %	
January	5%	January	5%
February	5%	February	4%
March	4%	March	4%
April	4%	April	4%
May	3%	May	4%
June	6%	June	5%
July	5%	July	5%
August	4%	August	6%
September	4%	September	5%
October	3%	October	3%
November	4%	November	
December	7%	December	

* Sludge % is stand alone,
 % Special Waste includes "Sludge"

2020 Loudon MSW and Special Waste Analysis

Material	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
MSW	7,481	6,695	8,585	8,552	8,740	9,242	8,748	8,141	8,207	8,760			83,151
Special Waste	8,193	7,568	7,666	1,240	1,575	1,687	1,696	1,779	1,768	1,782			34,955
Tires	31	26	42	43	55	53	36	39	56	17			399
Total	15,705	14,289	16,294	9,835	10,370	10,982	10,481	9,959	10,031	10,560	0	0	118,505
%													
MSW	48%	47%	53%	87%	84%	84%	83%	82%	82%	83%			70%
Special Waste	52%	53%	47%	13%	15%	15%	16%	18%	18%	17%			29%
Total	100%	100%	100%	100%	99%	100%	100%	100%	99%	100%			100%

**2020-2021 Matlock Bend
Landfill Tire Report**

Month	Tonnage
Jul-20	31.25
Aug-20	36.27
Sep-20	48.23
Oct-20	21.38
Nov-20	
Dec-20	
Jan-21	
Feb-21	
Mar-21	
Apr-21	
May-21	
Jun-21	
Total (tons)	137.13



STATE OF TENNESSEE
 DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF SOLID WASTE MANAGEMENT
 WILLIAM R. SNODGRASS TENNESSEE TOWER
 312 ROSA L. PARKS AVENUE, 14TH FLOOR
 NASHVILLE, TN 37243

PRINT FORM

RESET FORM

YEAR	2020
QUARTER	<input type="checkbox"/> Q1 JAN - MAR <input type="checkbox"/> Q2 APR - JUN <input checked="" type="checkbox"/> Q3 JUL - SEP <input type="checkbox"/> Q4 OCT - DEC

QUARTERLY SOLID WASTE SURCHARGE AND FACILITY INSPECTION FEE REPORT

1. FACILITY INFORMATION

FACILITY ID	FACILITY NAME		
SPL 53-103-0203	Matlock Bend Landfill		
PHYSICAL LOCATION ADDRESS		CITY	STATE ZIP
21712 HWY 72 North		Loudon	TN 37774
FACILITY MANAGER OR SITE OPERATOR		(AREA CODE) + PHONE	EMAIL
Loudon County/Santek Environmental LLC		423-303-7101	jmill@.santekwaste.com

2. FEE CALCULATION

LINE	DESCRIPTION	FORMULA	AMOUNT	UNIT	LINE
LINE 1	AMOUNT OF WASTE RECEIVED	FIRST MONTH OF REPORTING QUARTER	10,444.52	TONS	1
LINE 2	AMOUNT OF WASTE RECEIVED	SECOND MONTH OF REPORTING QUARTER	9,920.07	TONS	2
LINE 3	AMOUNT OF WASTE RECEIVED	THIRD MONTH OF REPORTING QUARTER	9,975.37	TONS	3
LINE 4	TOTAL AMOUNT OF WASTE RECEIVED	ADD LINE1 + LINE2 + LINE3	30,339.96	TONS	4
LINE 5	SURCHARGE	MULTIPLY LINE 4 X .90	27,305.96		5
<input checked="" type="checkbox"/> <input type="checkbox"/> CHECK IF YOU ARE CLAIMING THE 1% "ON-TIME PAYMENT DEDUCTION", IF NOT, ENTER \$0.00 ON LINE 6					
LINE 6	1% DEDUCTION IF PAYMENT MADE ON-TIME	MULTIPLY LINE 5 X .01	273.06		6
LINE 7	SUBTOTAL	SUBTRACT LINE 5 - LINE 6	27,032.90		7
LINE 8	FACILITY INSPECTION FEE	MULTIPLY LINE 4 X .35	10,618.99		8
LINE 9	SUBTOTAL	ADD LINE 7 + LINE 8	37,651.89		9
LINE 10	OUTSTANDING DEBIT	ENTER DEBIT AMOUNT HERE, ADD TO LINE 9 AND ENTER TOTAL ON LINE 12	0		10
LINE 11	OUTSTANDING CREDIT	ENTER CREDIT AMOUNT HERE, SUBTRACT FROM LINE 9 AND ENTER TOTAL ON LINE 12	0		11
LINE 12	TOTAL DUE	PAY THIS AMOUNT =>	\$ 37,651.89		12

Q1 FEES DUE APRIL 30 Q2 FEES DUE JULY 31 Q3 FEES DUE OCTOBER 31 Q4 FEES DUE JANUARY 31 MAKE REMITTANCE PAYABLE TO: TREASURER, STATE OF TENNESSEE.

3. CERTIFICATION REQUIRED

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Jamie Miller
 SIGNATURE OF OWNER / OPERATOR
 Staff Accountant
 TITLE

Jamie Miller
 PRINTED NAME
 10/14/20
 DATE SIGNED

LANDFILL ORIGIN REPORT

QUARTER 3 (JULY TO SEPTEMBER) | 2020

Matlock Bend Landfill

The following information shall be provided in accordance with TCA 68-211-862 which states:

(a) The owner or operator of each Class I municipal solid waste disposal facility or incinerator or transfer station required to remit a surcharge under 68-211-835(d) shall be responsible for keeping an accurate written record of all amounts and county of origin of solid waste, measured in tons, received at the facility. This information shall be submitted to the department.

(b) Measurement in tons of solid waste received shall be accomplished by one (1) or more of the following methods:

(1) The provision of stationary or portable scales at the disposal facility or incinerator or transfer station for weighing incoming waste; or

(2) Implementation of contractual or other arrangements for the use of scales at a location other than the disposal facility, incinerator, or transfer station for weighing all waste destined for disposal at the facility.

General Information

MANAGE ONLY

Facility ID #: *

53-000-0203 *(ID should be in format of ##-000-####)*

Facility Owner Name: *

Loudon County

Mailing Address: *

650 25th Street NW, Suite 100

Mailing Zip Code: *

37311

Mailing State: *

Tennessee

Tipping Fees

Advertised Tipping Fee per ton (\$): * 28.45 *(Please enter only the tipping fee for material going into the Class I landfill)*

Advertised Tipping Fee per ton (\$): *(If you have more than one tipping fee for material going into the Class I landfill, enter the second one here)*

1. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Anderson

Amount of Waste Received (Tons): *

99.07

Comments:

2. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Blount

Amount of Waste Received (Tons): *

167.43

Comments:

3. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Knox

Amount of Waste Received (Tons): *

688.61

Comments:

4. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Loudon

Amount of Waste Received (Tons): *

25,078.32

Comments:

5. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

McMinn

Amount of Waste Received (Tons): *

152.86

Comments:

6. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Meigs

Amount of Waste Received (Tons): *

0.00

Comments:

There was not any waste originating from Meigs County during the 3rd quarter

7. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Monroe

Amount of Waste Received (Tons): *

1,362.91

Comments:

8. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Roane

Amount of Waste Received (Tons): *

2,785.48

Comments:

9. Origin of Waste

Waste Received From: *

- County
- Transfer Station
- Out of State

Select County: *

Rhea

Amount of Waste Received (Tons): *

5.28

Comments:

Total Waste Received (Tons):

30,339.96

10/21/2020

https://connect.re-trac.com/participant/program_associations/551/survey/81/survey_responses/1147605

As Facility Contact, please type in your name to attest that the information included in the Origin Report has been reviewed for completeness, accuracy and is true to the best of your knowledge. *

Jamie Miller

Response created on: Oct 21, 2020 at 12:37 PM CDT by jmiller@santekenviro.com

Response last updated on: Oct 21, 2020 at 12:37 PM CDT by jmiller@santekenviro.com

Landfill Origin Report for Loudon County, Tennessee

Advertised Tipping Fee Per ton \$28.45

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2020	Q2 2020	Q3 2020	Q4 2020	YTD Total
Anderson	County	75.85	38.39	99.07		213.31
Knox	County	1,041.73	1,056.20	688.61		2,786.54
Loudon	County	23,791.54	25,271.03	25,078.32		74,140.89
McMinn	County	115.25	107.63	152.86		375.74
Monroe	County	783.58	1,355.16	1,362.91		3,501.65
Roane	County	20,179.24	3,030.00	2,785.48		25,994.72
Blount	County	150.64	162.36	167.43		480.43
Meigs	County	8.76	0.22	0.00		8.98
Rhea	County	41.88	15.23	5.28		62.39
Bradley	County	0.00	0.00	0.00		0.00
		46,188.47	31,036.22	30,339.96	0.00	107,564.65

Matlock Bend Landfill - Module E 2020 Airspace Projection / Construction Schedule

		MONTHLY TONNAGE			UTILIZATION FACTOR		
		10,183			1.37		
DATE	REMAINING AIRSPACE ¹ (CY)	TONNAGE	ACTUAL / PROJECTED ²	UTILIZATION FACTOR (CY/TON) ³	MONTHLY VOLUME CONSUMED (CY)	ENDING MONTHLY REMAINING AIRSPACE (CY)	
May 25, 2020	628,843	-	-	-	-	-	
May 26-31, 2020	-	1,915	A	1.37	2,624	626,219	
June	-	10,982	A	1.37	15,045	611,174	
July	-	10,481	A	1.37	14,359	596,815	
August	-	9,959	A	1.37	13,644	583,171	
September	-	10,031	A	1.37	13,742	569,429	
October	-	10,560	A	1.37	14,467	554,962	
November	-	10,183	P	1.37	13,951	541,010	
December	-	10,183	P	1.37	13,951	527,059	
January '21	-	10,183	P	1.37	13,951	513,108	
February	-	10,183	P	1.37	13,951	499,157	
March	-	10,183	P	1.37	13,951	485,206	
April	-	10,183	P	1.37	13,951	471,255	
May	-	10,183	P	1.37	13,951	457,303	
June	-	10,183	P	1.37	13,951	443,352	
July	-	10,183	P	1.37	13,951	429,401	
August	-	10,183	P	1.37	13,951	415,450	
September	-	10,183	P	1.37	13,951	401,499	
October	-	10,183	P	1.37	13,951	387,548	
November	-	10,183	P	1.37	13,951	373,596	
December	-	10,183	P	1.37	13,951	359,645	

¹ = Remaining airspace based on May 25, 2020 aerial survey.

Full Date

February-2024

² = Projected tonnages are based on a 3 month average.

³ = Utilization rate based on the annual utilization rate per October 27, 2008 construction meeting (Avg. Utilization = 1.37 cy/ton)

Tonnage for Past 3 Months

August	9,959
September	10,031
October	10,560
Average	10,183

cc: Tim
Matt
Paul
Ben
Justin
Mark



650 25th Street NW, Ste 100
Cleveland, TN 37311

Phone: (423) 303-7101
Toll Free: (800) 467-9160
www.santekenviro.com

November 1, 2020

Loudon County Solid Waste Disposal Commission
100 River Road
P.O. Box 351
Loudon, TN 37774

Dear Steve:

Pursuant to Section 10.6 and 10.7 of the Sanitary Landfill Operation Agreement between Loudon and Santek as of July 1, 2007, Santek agreed to pay the Commission a host fee and security fee as defined in the Agreement. The following recap reflects the calculation for the period October 1, 2020 to October 31, 2020:

Host Fees (Greater of below) –	
Total Tip Fees Billed	\$266,927.03
Host Fee Percentage	<u>3.96%</u>
	\$ 10,570.31
Minimum Fee	<u>\$ 10,572.50</u>

Security Fees (Greater of below) –	
Total Tonnage Received	10,542.61
Rate per ton	<u>\$ 1.00</u>
Total	\$ 10,542.61

Total Tip Fees Billed	\$266,927.03
Security Fee Percentage	<u>5.00%</u>
	<u>\$ 13,346.35</u>

Our checks in payment of the above fees have been remitted to the above address for the Commission. Should you have any questions or need additional information, please let me know.

Sincerely,

A handwritten signature in blue ink that reads "Mark C. Mathys". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Mark C. Mathys
Vice President of Finance & Corporate Controller



10/20/2020

Mr. Steve Field, Chair
Loudon Municipal Solid Waste Region
100 River Road, Box #109
Loudon, TN 37774

Dear Mr. Field:

The Solid Waste Management Act of 1991 set a goal that each municipal solid waste (MSW) region in the State of Tennessee shall reduce Class I MSW landfill disposal and incineration by twenty-five percent (25%) since 1995 on a per capita basis. If regions do not achieve this reduction, rules allow the Department to use a real-time comparison methodology to determine whether 25% of the MSW generated in the current year was diverted or recycled.

Based on the information submitted in the 2019 Annual Progress Report, the MSW Region **achieved the 25% waste reduction and diversion goal**. Using the base year methodology, the region achieved a -55% (increase since 1995) but using the real-time comparison methodology the region achieved a 54% (amount diverted or recycled) reduction.

If you should have any questions, please contact us at (615) 532-0780 or by email at Trey.White@tn.gov, Ashby.Barnes@tn.gov, Bishop.Wagener@tn.gov, or Christina.Perez@tn.gov.

Sincerely,

Three handwritten signatures in blue ink. The first signature is "Ashby Barnes", the second is "Bishop Wagener", and the third is "Christina Perez".

Recovered Materials Staff

CC: The Honorable Rollen Bradshaw II, Loudon County Mayor
Chris Parks, Loudon County Convenience Center Director
John LeCroy, Regional Director for External Affairs
Tim Hendrick, East Tennessee Development District

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2020	Q2 2020	Q3 2020	Q4 2020	YTD Total
Anderson	County	75.85	38.39	99.07		213.31
Knox	County	1,041.73	1,056.20	688.61		2,786.54
Loudon	County	23,791.54	25,271.03	25,078.32		74,140.89
McMinn	County	115.25	107.63	152.86		375.74
Monroe	County	783.58	1,355.16	1,362.91		3,501.65
Roane	County	20,179.24	3,030.00	2,785.48		25,994.72
Blount	County	150.64	162.36	167.43		480.43
Meigs	County	8.76	0.22	0.00		8.98
Rhea	County	41.88	15.23	5.28		62.39
Bradley	County	0.00	0.00	0.00		0.00
		46,188.47	31,036.22	30,339.96	0.00	107,564.65

Duration (days)
274

393 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2019	Q2 2019	Q3 2019	Q4 2019	YTD Total
Anderson	County	54.16	65.67	51.26	30.80	201.89
Knox	County	410.38	679.82	513.44	650.03	2,253.67
Loudon	County	34,497.26	33,738.94	26,030.28	24,818.43	119,084.91
McMinn	County	189.70	307.62	259.54	202.60	959.46
Monroe	County	596.93	699.72	690.81	747.57	2,735.03
Roane	County	2,597.97	2,696.20	4,381.02	4,497.91	14,173.10
Blount	County	276.30	134.81	130.63	126.79	668.53
Meigs	County	17.49	0.00	0.00	0.00	17.49
Rhea	County	0.00	11.56	0.00	8.50	20.06
Bradley	County	0.00	0.00	5.01	0.00	5.01
		38,640.19	38,334.34	32,061.99	31,082.63	140,119.15

Duration (days)
365

384 Tons/day

Landfill Origin Report for Loudon County, Tennessee										
Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2018	Q2 2018	Q3 2018	Q4 2018	YTD Total				
Anderson	County	38.87	18.46	26.05	41.67	125.05				
Knox	County	367.24	398.47	415.49	420.73	1,601.93				
Loudon	County	41,127.85	36,099.71	32,526.22	32,615.11	142,368.89				
McMinn	County	297.91	438.90	211.79	282.32	1,230.92				
Monroe	County	996.11	1,282.91	1,240.15	902.66	4,421.83				
Roane	County	2,474.62	2,713.77	2,601.36	2,474.01	10,263.76				
Blount	County	193.12	131.68	141.31	196.56	662.67				
Meigs	County	7.65	0.00	0.00	5.41	13.06				
Rhea	County	0.00	57.58	0.00	0.00	57.58				
Bradley	County	0.00	0.00	0.00	0.00	0.00				
		45,503.37	41,141.48	37,162.37	36,938.47	160,745.69				
							Duration (days)			
							365			
										440 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2017	Q2 2017	Q3 2017	Q4 2017	YTD Total
Anderson	County	151.08	72.55	715.46	125.22	1,064.31
Knox	County	345.00	352.46	372.90	352.87	1,423.23
Loudon	County	42,330.42	41,596.57	41,732.31	44,729.14	170,388.44
McMinn	County	167.26	205.76	247.70	275.44	896.16
Monroe	County	1,020.44	1,231.08	1,186.23	1,150.21	4,587.96
Roane	County	2,241.30	2,614.93	2,575.40	2,520.58	9,952.21
Blount	County	112.01	157.85	176.63	142.89	589.38
Meigs	County	7.22	14.20	2.22	129.03	152.67
Rhea	County	8.64	0.00	0.88	3.02	12.54
Bradley	County	0.00	3.76	0.00	0.00	3.76
		46,383.37	46,249.16	47,009.73	49,428.40	189,070.66

Duration (days)
365

518 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2016	Q2 2016	Q3 2016	Q4 2016	YTD Total
Anderson	County	72.28	24.55	96.30	26.29	219.42
Knox	County	660.88	324.95	345.71	272.97	1,604.51
Loudon	County	38,396.92	39,767.12	41,706.30	43,781.99	163,652.33
McMinn	County	108.75	111.60	136.88	198.89	556.12
Monroe	County	922.25	1,064.16	1,093.69	970.18	4,050.28
Roane	County	2,183.18	2,338.97	2,887.15	2,341.88	9,751.18
Blount	County	91.84	64.49	130.22	123.85	410.40
Meigs	County	2.92	2.84	17.05	22.82	45.63
Rhea	County	9.08	9.23	0.01	17.47	35.79
Bradley	County	10.75	15.49	4.55	0.00	30.79
		42,458.85	43,723.40	46,417.86	47,756.34	180,356.45

Duration (days)
366

493 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2015	Q2 2015	Q3 2015	Q4 2015	YTD Total
Anderson	County	0.00	4.54	12.76	91.62	108.92
Knox	County	5,800.14	9,330.65	3,678.08	239.75	19,048.62
Loudon	County	27,543.19	32,058.59	31,827.66	37,419.30	128,848.74
McMinn	County	273.71	172.74	172.66	203.62	822.73
Monroe	County	769.59	1,029.87	1,008.58	974.45	3,782.49
Roane	County	1,897.34	2,302.72	2,368.32	2,255.60	8,823.98
Blount	County	41.24	121.97	89.99	89.91	343.11
Meigs	County	0.00	1.87	4.41	4.78	11.06
Rhea	County	0.00	0.00	24.27	13.77	38.04
Bradley	County	0.00	0.00	0.00	0.00	0.00
		36,325.21	45,022.95	39,186.73	41,292.80	161,827.69

Duration (days)
365

443 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2014	Q2 2014	Q3 2014	Q4 2014	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	4,988.55	8,264.20	6,706.39	2,616.79	22,575.93
Loudon	County	49,632.94	45,162.71	34,047.39	26,799.97	155,643.01
McMinn	County	158.01	199.35	210.58	264.73	832.67
Monroe	County	233.77	256.76	351.20	769.93	1,611.66
Roane	County	1,795.47	1,971.25	2,180.74	1,849.17	7,796.63
Blount	County	18.94	19.55	43.44	20.74	102.67
Meigs	County	0.00	3.69	11.91	0.00	15.60
Rhea	County	6.55	0.00	0.00	17.59	24.14
Bradley	County	9.32	0.00	12.29	3.09	24.70
		56,843.55	55,877.51	43,563.94	32,342.01	188,627.01

Duration (days)
365

517 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2013	Q2 2013	Q3 2013	Q4 2013	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	12,829.35	15,004.65	7,968.81	5,890.02	41,692.83
Loudon	County	46,182.59	52,708.05	52,297.39	49,709.81	200,897.84
McMinn	County	64.27	154.16	147.26	192.37	558.06
Monroe	County	57.71	142.47	94.85	164.22	459.25
Roane	County	1,955.94	2,020.50	1,989.63	2,006.84	7,972.91
Blount	County	0.58	0.00	0.00	9.16	9.74
Meigs	County	0.00	0.00	0.00	0.00	0.00
Rhea	County	0.00	0.00	28.95	0.00	28.95
Bradley	County	41.56	0.00	0.00	8.63	50.19
		61,132.00	70,029.83	62,526.89	57,981.05	251,669.77

Duration (days)
365

690 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2012	Q2 2012	Q3 2012	Q4 2012	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	13,334.16	9,223.95	5,258.61	7,557.17	35,373.89
Loudon	County	46,825.31	48,139.20	54,292.56	46,767.47	196,024.54
McMinn	County	43.87	118.70	122.45	133.46	418.48
Monroe	County	58.26	8.89	20.84	0.00	87.99
Roane	County	1,931.20	1,188.94	955.56	1,618.47	5,694.17
Blount	County	0.00	0.00	0.00	0.00	0.00
Meigs	County	0.00	1.39	0.00	6.99	8.38
Rhea	County	9.35	0.00	0.00	0.00	9.35
Bradley	County	29.59	31.31	24.96	0.00	85.86
		62,231.74	58,712.38	60,674.98	56,083.56	237,702.66

Duration (days)
366

649 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2011	Q2 2011	Q3 2011	Q4 2011	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	9,347.50	11,063.91	11,214.58	12,147.20	43,773.19
Loudon	County	37,145.11	43,864.29	51,329.40	52,280.01	184,618.81
McMinn	County	88.71	72.30	53.02	6.83	220.86
Monroe	County	1.42	25.56	11.74	2.50	41.22
Roane	County	1,825.35	1,638.55	2,103.25	1,912.53	7,479.68
Blount	County	0.00	0.00	0.00	0.00	0.00
Meigs	County	10.93	0.00	0.80	0.00	11.73
Rhea	County	17.69	5.11	20.38	7.16	50.34
Bradley	County	0.00	36.68	0.00	2.72	39.40
		48,436.71	56,706.40	64,733.17	66,358.95	236,235.23

Duration (days)
365

647 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2010	Q2 2010	Q3 2010	Q4 2010	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	103.97	89.06	2,443.32	2,304.30	4,940.65
Loudon	County	21,282.97	30,749.32	27,769.79	36,172.28	115,974.36
McMinn	County	180.75	222.65	62.76	23.90	490.06
Monroe	County	42.90	1.88	37.89	5.48	88.15
Roane	County	2,324.97	2,596.27	1,959.90	2,269.62	9,150.76
Blount	County	18.29	0.00	2.53	0.00	20.82
Meigs	County	43.32	12.44	8.95	0.00	64.71
Rhea	County	25.98	0.00	11.75	0.00	37.73
Bradley	County	19.71	0.00	0.00	0.00	19.71
		24,042.86	33,671.62	32,296.89	40,775.58	130,786.95

Duration (days)
365

358 Tons/day

Help Save the Environment

Using wood and biomass waste as alternative fuels

WHILE THE WORLD worries about the environmental impacts of single-use plastic, one source of waste is often overlooked: wood and vegetative waste. It is no small problem either. Wood waste accounts for 20–30% of global waste, according to the World Bank and US EPA. In the US, only about 30% of the 70 million tons of “urban” wood waste collected in 2014 was recycled, for example.

As an organic and biodegradable waste, wood waste might not seem like a threat to the environment and there are some sound methods to repurpose this wastestream. The issue is that there is so much of it, much more than could be reasonably “recycled,” that it has become the cause of multiple problems.

Landfills restrict or discourage biomass dumping forced by regulations or by setting high tipping fees. They are expensive to expand and to build from scratch and clogging them up with wood waste can be counterproductive. Moreover, methane outgassing and leachate control measures add to the landfill maintenance cost.

Chipping and grinding seem like a good idea, but the industry is chipping more waste wood than it can place for land application, possible energy conversion, or other uses. The chip piles—also large compressed piles of unchipped wood waste—pose a serious spontaneous combustion problem. Mulch fires may smolder for months and are costly to control, not to mention the amount of environment-destroying smoke they generate.

The greatest amount of biomass waste is amassed in forests. First, there is waste from fallen and still-standing trees that have succumbed to beetle infestations or forest fires (often both). Then the forest industry must deal with the large amount of wood waste created by fuel management endeav-

ors where the understory within the urban-wildland interface is removed for wildfire mitigation measures. This understory used to be burned away by Mother Nature for millions of years by occasional natural fires from lightning strikes or other causes. This would clean the forest floor of brush and pests and slightly scorch the tree trunks but never reach the canopies. That made for a healthy forest. Today, many of the wildfires are so devastating because forest fires have been suppressed by fire-fighting, resulting in undue understory growth which, when set ablaze, quickly reaches the treetops and destroys huge sections of forests. Wildfire mitigation efforts are aimed at reversing that trend; however, they yield large amounts of wood waste.

Wood waste in agriculture from tree trimmings and crop rotations also creates a large amount of wood waste that must be removed from the fields to keep them productive and commercially viable.

What do all these sources of wood waste have in common? The simplest way to get rid of them is to burn them in open piles. Open burning is practiced and allowed in one form or another almost everywhere. In the US, it is not even regulated by the Federal Government or the EPA. Then there is the combustion of wood from uncontrolled wildfires and controlled prescribed burns in forestry and agriculture. No matter what the cause, the open burning of biomass or vegetative waste, in general, is the cause of one of the most serious threats to our climate worldwide, as large amounts of particulate matter or smoke are released into the near atmosphere. According to the Intergovernmental Panel on Climate Change (IPCC) of the UN and most other environmental organizations, this smoke or “Black Carbon,” along with CO₂ and

methane, are the largest climate change warming agents.

The largest single contributor to uncontrolled Black Carbon release is the open burning of biomass resulting in more than 35% of all Black Carbon in the world. If we stop Black Carbon now, we can have a nearly immediate effect on reversing global warming. This is because Black Carbon is a solid particle or an aerosol (not a gas) that resides in the atmosphere only weeks before falling back onto the Earth. After it has fallen back to Earth, it then causes the premature melting of permafrost regions, including glaciers, all of which results in rising ocean sea levels. On the other hand, the much-promoted reduction of CO₂ releases has a lifetime of more than 100 years. Curbing CO₂ now is a good thing and must be done, but the benefits will be only for future generations a century away.

A PROVEN, ENVIRONMENTALLY FRIENDLY SOLUTION

It has become increasingly clear that conventional methods of disposing of wood waste may be problematic and we need more technologically advanced methods that do not wreak havoc on our environment. One solution is to use air curtain burners, such as those pioneered by manufacturer Air Burners Inc. in Florida.

Getting rid of massive amounts of unwanted wood from forestry, agriculture, disaster recovery, and land clearing operations using air curtain burners is the most economical and most environmentally acceptable way. The photo on the opposite page depicts an air burner, or FireBox, burn next to an open pile burn of biomass debris, each measured to be 10 tons to highlight the contrast. The FireBox eliminates the wood waste faster with a minimum of smoke or Black Carbon, the most serious climate change forcing agent.



Another typical concern is how much CO₂ is released from the air burner during the burn process. All CO₂ from any wood combustion is biogenic CO₂, and no additional greenhouse gas CO₂ is released by the air curtain FireBox. The carbon released by the burn process is the same carbon that the vegetation absorbed from its surroundings while alive through photosynthesis, thereby releasing oxygen, the very oxygen we breathe. In contrast, the CO₂ as greenhouse gas that is such a concern for environmentalists is the CO₂ that originates from the burning of hydrocarbon fuels, such as petroleum and coal. This carbon would remain deep in our Earth where it has been for millions of years but bringing it to the surface and burning it in cars, trucks, airplanes, ships, or power plants releases large amounts of CO₂. This is the Greenhouse CO₂ termed Non-Biogenic CO₂ or anthropogenic that is man-made CO₂ which absolutely must be minimized to reverse climate change along with, primarily, Black Carbon and methane. This will help safeguard future generations on this planet.

Just as are the residues from Mother Nature's forest fires, the ashes left behind from air curtain burning consist

of biochar and carbon ash which are land applied onsite, enhancing soil conditions. Most importantly, this is making the burning of woody biomass in air curtain burners "Carbon Negative" or it is resulting in a "Negative Carbon Footprint." The result is a betterment of the environment.

Air Burners' line of air curtain burners has been tested by the US Forest Service, US Department of Energy, the USEPA, and other government agencies in the US and abroad, and their technological designs ensure that they meet or surpass all applicable regulations. This includes the series of biomass-to-energy systems called PGFireBox, portable waste-to-energy (WTE) machines that convert unwanted wood waste to electrical and thermal energy and also eliminate massive amounts of vegetative waste, the real problem we face. We must remember, energy is inexpensive these days. Understanding this, Air Burners focuses on waste elimination first, the global problem we must address, and second, on energy recovery with systems rated at 100 kW to 1 MW gross electric power.

A CLEANER WAY FORWARD

Wood waste is a major problem that

is currently doing very real damage to our environment. All disposal solutions except for one have negative outcomes, both from a cost and an environmental point of view. That one exception? Air curtain burning. The use of air curtain burners is environmentally sound, natural, cost-efficient, and simple from an operational standpoint. Moreover, the system can recycle the energy in the unwanted biomass for useful purposes and the residue includes desirable soil amendments, like biochar.

With the use of the cleanest wood waste disposal method, air curtain burning, the detrimental effects of Black Carbon on climate change can be reversed quickly with results that can be measured in real-time. Among other benefits, minimizing Black Carbon releases from open burning will almost immediately help slow the rising of ocean sea levels. Air curtain burners help safeguard our environment for future generations, and they are an important tool in reversing global warming. [www](#)

Brian O'Connor is the President and Chief Designer at Air Burners Inc. and has been a consultant for many government environmental and disaster agencies.

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2010	Q2 2010	Q3 2010	Q4 2010	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	103.97	89.06	2,443.32	2,304.30	4,940.65
Loudon	County	21,282.97	30,749.32	27,769.79	36,172.28	115,974.36
McMinn	County	180.75	222.65	62.76	23.90	490.06
Monroe	County	42.90	1.88	37.89	5.48	88.15
Roane	County	2,324.97	2,596.27	1,959.90	2,269.62	9,150.76
Blount	County	18.29	0.00	2.53	0.00	20.82
Meigs	County	43.32	12.44	8.95	0.00	64.71
Rhea	County	25.98	0.00	11.75	0.00	37.73
Bradley	County	19.71	0.00	0.00	0.00	19.71
		24,042.86	33,671.62	32,296.89	40,775.58	130,786.95

Duration (days)

365

358 Tons/day

270 days

484 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2011	Q2 2011	Q3 2011	Q4 2011	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	9,347.50	11,063.91	11,214.58	12,147.20	43,773.19
Loudon	County	37,145.11	43,864.29	51,329.40	52,280.01	184,618.81
McMinn	County	88.71	72.30	53.02	6.83	220.86
Monroe	County	1.42	25.56	11.74	2.50	41.22
Roane	County	1,825.35	1,638.55	2,103.25	1,912.53	7,479.68
Blount	County	0.00	0.00	0.00	0.00	0.00
Meigs	County	10.93	0.00	0.80	0.00	11.73
Rhea	County	17.69	5.11	20.38	7.16	50.34
Bradley	County	0.00	36.68	0.00	2.72	39.40
		48,436.71	56,706.40	64,733.17	66,358.95	236,235.23

Duration (days)

365

647 Tons/day

270

875 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2012	Q2 2012	Q3 2012	Q4 2012	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	13,334.16	9,223.95	5,258.61	7,557.17	35,373.89
Loudon	County	46,825.31	48,139.20	54,292.56	46,767.47	196,024.54
McMinn	County	43.87	118.70	122.45	133.46	418.48
Monroe	County	58.26	8.89	20.84	0.00	87.99
Roane	County	1,931.20	1,188.94	955.56	1,618.47	5,694.17
Blount	County	0.00	0.00	0.00	0.00	0.00
Meigs	County	0.00	1.39	0.00	6.99	8.38
Rhea	County	9.35	0.00	0.00	0.00	9.35
Bradley	County	29.59	31.31	24.96	0.00	85.86
		62,231.74	58,712.38	60,674.98	56,083.56	237,702.66

Duration (days)

366

649 Tons/day

270

880 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2013	Q2 2013	Q3 2013	Q4 2013	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	12,829.35	15,004.65	7,968.81	5,890.02	41,692.83
Loudon	County	46,182.59	52,708.05	52,297.39	49,709.81	200,897.84
McMinn	County	64.27	154.16	147.26	192.37	558.06
Monroe	County	57.71	142.47	94.85	164.22	459.25
Roane	County	1,955.94	2,020.50	1,989.63	2,006.84	7,972.91
Blount	County	0.58	0.00	0.00	9.16	9.74
Meigs	County	0.00	0.00	0.00	0.00	0.00
Rhea	County	0.00	0.00	28.95	0.00	28.95
Bradley	County	41.56	0.00	0.00	8.63	50.19
		61,132.00	70,029.83	62,526.89	57,981.05	251,669.77

Duration (days)
365

690 Tons/day

270

932 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2014	Q2 2014	Q3 2014	Q4 2014	YTD Total
Anderson	County	0.00	0.00	0.00	0.00	0.00
Knox	County	4,988.55	8,264.20	6,706.39	2,616.79	22,575.93
Loudon	County	49,632.94	45,162.71	34,047.39	26,799.97	155,643.01
McMinn	County	158.01	199.35	210.58	264.73	832.67
Monroe	County	233.77	256.76	351.20	769.93	1,611.66
Roane	County	1,795.47	1,971.25	2,180.74	1,849.17	7,796.63
Blount	County	18.94	19.55	43.44	20.74	102.67
Meigs	County	0.00	3.69	11.91	0.00	15.60
Rhea	County	6.55	0.00	0.00	17.59	24.14
Bradley	County	9.32	0.00	12.29	3.09	24.70
		56,843.55	55,877.51	43,563.94	32,342.01	188,627.01

Duration (days)

365

517 Tons/day

270

698.62 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2015	Q2 2015	Q3 2015	Q4 2015	YTD Total
Anderson	County	0.00	4.54	12.76	91.62	108.92
Knox	County	5,800.14	9,330.65	3,678.08	239.75	19,048.62
Loudon	County	27,543.19	32,058.59	31,827.66	37,419.30	128,848.74
McMinn	County	273.71	172.74	172.66	203.62	822.73
Monroe	County	769.59	1,029.87	1,008.58	974.45	3,782.49
Roane	County	1,897.34	2,302.72	2,368.32	2,255.60	8,823.98
Blount	County	41.24	121.97	89.99	89.91	343.11
Meigs	County	0.00	1.87	4.41	4.78	11.06
Rhea	County	0.00	0.00	24.27	13.77	38.04
Bradley	County	0.00	0.00	0.00	0.00	0.00
		36,325.21	45,022.95	39,186.73	41,292.80	161,827.69

Duration (days)
365

443 Tons/day

270 599 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2016	Q2 2016	Q3 2016	Q4 2016	YTD Total
Anderson	County	72.28	24.55	96.30	26.29	219.42
Knox	County	660.88	324.95	345.71	272.97	1,604.51
Loudon	County	38,396.92	39,767.12	41,706.30	43,781.99	163,652.33
McMinn	County	108.75	111.60	136.88	198.89	556.12
Monroe	County	922.25	1,064.16	1,093.69	970.18	4,050.28
Roane	County	2,183.18	2,338.97	2,887.15	2,341.88	9,751.18
Blount	County	91.84	64.49	130.22	123.85	410.40
Meigs	County	2.92	2.84	17.05	22.82	45.63
Rhea	County	9.08	9.23	0.01	17.47	35.79
Bradley	County	10.75	15.49	4.55	0.00	30.79
		42,458.85	43,723.40	46,417.86	47,756.34	180,356.45

Duration (days)
366

493 Tons/day

270

668 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2017	Q2 2017	Q3 2017	Q4 2017	YTD Total
Anderson	County	151.08	72.55	715.46	125.22	1,064.31
Knox	County	345.00	352.46	372.90	352.87	1,423.23
Loudon	County	42,330.42	41,596.57	41,732.31	44,729.14	170,388.44
McMinn	County	167.26	205.76	247.70	275.44	896.16
Monroe	County	1,020.44	1,231.08	1,186.23	1,150.21	4,587.96
Roane	County	2,241.30	2,614.93	2,575.40	2,520.58	9,952.21
Blount	County	112.01	157.85	176.63	142.89	589.38
Meigs	County	7.22	14.20	2.22	129.03	152.67
Rhea	County	8.64	0.00	0.88	3.02	12.54
Bradley	County	0.00	3.76	0.00	0.00	3.76
		46,383.37	46,249.16	47,009.73	49,428.40	189,070.66

Duration (days)
365

518 Tons/day

270

700 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2018	Q2 2018	Q3 2018	Q4 2018	YTD Total
Anderson	County	38.87	18.46	26.05	41.67	125.05
Knox	County	367.24	398.47	415.49	420.73	1,601.93
Loudon	County	41,127.85	36,099.71	32,526.22	32,615.11	142,368.89
McMinn	County	297.91	438.90	211.79	282.32	1,230.92
Monroe	County	996.11	1,282.91	1,240.15	902.66	4,421.83
Roane	County	2,474.62	2,713.77	2,601.36	2,474.01	10,263.76
Blount	County	193.12	131.68	141.31	196.56	662.67
Meigs	County	7.65	0.00	0.00	5.41	13.06
Rhea	County	0.00	57.58	0.00	0.00	57.58
Bradley	County	0.00	0.00	0.00	0.00	0.00
		45,503.37	41,141.48	37,162.37	36,938.47	160,745.69

Duration (days)
365

440 Tons/day

270

595 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2019	Q2 2019	Q3 2019	Q4 2019	YTD Total
Anderson	County	54.16	65.67	51.26	30.80	201.89
Knox	County	410.38	679.82	513.44	650.03	2,253.67
Loudon	County	34,497.26	33,738.94	26,030.28	24,818.43	119,084.91
McMinn	County	189.70	307.62	259.54	202.60	959.46
Monroe	County	596.93	699.72	690.81	747.57	2,735.03
Roane	County	2,597.97	2,696.20	4,381.02	4,497.91	14,173.10
Blount	County	276.30	134.81	130.63	126.79	668.53
Meigs	County	17.49	0.00	0.00	0.00	17.49
Rhea	County	0.00	11.56	0.00	8.50	20.06
Bradley	County	0.00	0.00	5.01	0.00	5.01
		38,640.19	38,334.34	32,061.99	31,082.63	140,119.15

Duration (days)

365

384 Tons/day

270

519 Tons/day

Landfill Origin Report for Loudon County, Tennessee

Origin of Waste (Name of County)	Waste Received From County, Transfer Station or Other	Q1 2020	Q2 2020	Q3 2020	Q4 2020	YTD Total
Anderson	County	75.85	38.39	99.07		213.31
Knox	County	1,041.73	1,056.20	688.61		2,786.54
Loudon	County	23,791.54	25,271.03	25,078.32		74,140.89
McMinn	County	115.25	107.63	152.86		375.74
Monroe	County	783.58	1,355.16	1,362.91		3,501.65
Roane	County	20,179.24	3,030.00	2,785.48		25,994.72
Blount	County	150.64	162.36	167.43		480.43
Meigs	County	8.76	0.22	0.00		8.98
Rhea	County	41.88	15.23	5.28		62.39
Bradley	County	0.00	0.00	0.00		0.00
		46,188.47	31,036.22	30,339.96	0.00	107,564.65

Duration (days)
274

393 Tons/day