



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

May 7, 2012

Penland School of Crafts
Ryan Cooper
David Sommer
PO Box 37
Penland, NC 28765

Re: SWCD-61-01

Dear Mr. Cooper and Mr. Sommer:

The Division of Waste Management, Solid Waste Section, has reviewed your request for an extension of Penland School of Crafts' Solid Waste Pilot Composting Project while preparing your Solid Waste Compost Full Permit Application. Your request is considered approved in accordance with the N.C. Solid Waste Management Rules, 15A NCAC 13B .1409 and subject to the following conditions:

1. All original permit conditions remain in effect.
2. The demonstration approval shall expire September 17, 2012 and all operations shall cease after that date unless a permit to operate a solid waste management facility has been obtained.

Ms. Deb Aja, Environmental Senior Specialist, will be responsible for oversight and inspection of the facility and related activities. Ms. Aja can be contacted at (828) 296-4702. If you have any questions please feel free to contact me at 919-707-8246.

Sincerely,

Michael E. Scott, Section Chief
Solid Waste Section

cc: Deb Aja, Environmental Senior Specialist, Asheville Regional Office
Jason Watkins, Western District Supervisor, Winston-Salem Regional Office

S:\Solid_Waste\CLAI\COMPOST\DEMO\APPROVAL\61-Mitchell\Penland School of Crafts 5-7-2012

Mueller, Megan E

From: David Sommer [davidsommer@penland.org]
Sent: Friday, May 04, 2012 9:54 AM
To: Mueller, Megan E
Subject: RE: Penland Compost Operations

Good Morning,

I am writing this to request an time extension to our compost demo as we are working to complete our permit application at this time. We are excited to obtain a permit and are excited about our commitment to long term composting operations here at Penland. I believe we will only require a week or two longer until we can have a quality application for your review.

Thank You,
David Sommer

David Sommer, P.E., LEED AP
Facilities and Grounds Director
Penland School of Crafts
PO Box 37, Penland, NC 28765
C 828-765-0477
Fax 828-765-2235
davidsommer@penland.org
www.penland.org



Penland
School of Crafts
Helping people live creative lives

From: Mueller, Megan E [mailto:Megan.Mueller@ncdenr.gov]
Sent: Tuesday, May 01, 2012 10:06 AM
To: David Sommer
Subject: RE: Penland Compost Operations

Hi Dave,

Thank you for following up with me in regards to Penland's Compost Demo. Please go ahead and send us the End of Project report so we can wrap up the second year of your demo. In addition to the End of Project report, it would be a good idea to send a request for an extension of the demo until you have your paperwork turned in. The request should include justification for the extension (in your case, you are working on your full permit) and a brief summary of your future plans. This can be in e-mail form or sent as an attachment on letterhead.

Feel free to send us the full permit information that you have compiled thus far and we'd be happy to provide comments on items that may need more clarification. This would keep the application process moving forward as well.

Please let me know if you have any questions while you are working on your full permit application, 919-707-8285.

Thanks!

Megan Mueller

Environmental Technician
Composting and Land Application Branch
DENR, Division of Waste Management
Megan.Mueller@ncdenr.gov
<http://portal.ncdenr.org/web/wm/sw>

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: David Sommer [<mailto:davidsommer@penland.org>]
Sent: Monday, April 30, 2012 11:27 AM
To: Mueller, Megan E
Subject: Penland Compost Operations

Good Morning,

Ryan Cooper, our Gardener, has informed me that we are in need of completing our application for your approval to comply with our current compost operations. In Ryan's defense, he has been without the necessary direction over the past several months with regard to this application; as I, the new Director of Facilities and Grounds, am a recent hire. Ryan has completed a draft End of Project Report (2/12) for the pilot project which we can send to you if you would like, and we are in the process of completing the proper documentation for the compliance with your Solid Waste Compost Facilities permitting requirements.

Again, my apologies for the delay; and we want to convey that we are motivated to comply with your guidelines and plan on being proactive in future documentation processes. At this point, we have a draft application report completed. I believe we have several areas to edit, add, and format; but we are in the process of competing it for you. I ask that you please continue to work with us as I believe this (composting) is a very important and good process for our operations here at Penland. If you have any questions or comments, please do not hesitate to contact me via email or the phone number below.

Thank You,
Dave

David Sommer, P.E., LEED AP
Facilities and Grounds Director
Penland School of Crafts
PO Box 37, Penland, NC 28765
C 828-765-0477
Fax 828-765-2235
davidsommer@penland.org
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Version: 2012.0.1913 / Virus Database: 2411/4971 - Release Date: 05/01/12



**Compost Pilot Project
END OF PROJECT REPORT
Penland School of Crafts
Ryan Cooper
February 2012**

Location

Penland School of Crafts
67 Dora's Trail
Penland, NC 29765

Material Received and Compost Produced

In 2010, the Penland School of Crafts turned 23.4 tons of food waste and 20 tons of yard waste into 16.36 tons of food and yard waste compost.

In 2011, the Penland School of Crafts turned 16.95 tons of food waste and 17 tons of yard waste into 9.97 tons of food and yard waste compost.

Compost Distributed

15.25 tons of the 2010 compost was used to fertilize garden beds on campus. 2 tons of the 2011 compost was used to create the Dye Plant Garden. The rest of the 2010 compost will be added to garden beds this year and the rest of the 2011 compost will be added to the gardens next year.

See Attached Test Results and Monitoring Records

Narrative

This Pilot Project was incredibly successful. This new system allowed us to keep 40.35 tons of food waste from the landfill in 2010 and 2011! The compost did create some odors at the beginning of the project, so the compost site was moved further from the center of main campus. The new location is nearly perfect. I also began adding more yard waste to reduce nitrogen emissions and help alleviate the smell. The working compost never fell below 131 degrees and management was relatively easy. We experienced very little leachate or disease vectors. This compost has added tremendously to the fertility of the gardens at Penland. I am especially proud to establish the new Dye Plant Garden with beautiful compost made with kitchen scraps and leaves that would have wound up in a landfill.

TRITEST

Laboratory Report

Lab Location 'R'

NC/WW Cert.#: 067 NC/DW Cert.#: 37731
 6701 Conference Dr, Raleigh, NC 27607
 Ph: (919) 834-4984 Fax: (919) 834-6497

Lab Location 'C'

NC/WW Cert.#: 103 NC/DW Cert.#: 37733
 6300 Ramada Dr, Suite C2, Clemmons, NC 27012
 Ph: (336) 766-7846 Fax: (336) 766-2514

Lab Location 'W'

NC/WW Cert.#: 075 NC/DW Cert.#: 37721
 6624 Gordon Rd, Unit G, Wilmington, NC 28411
 Ph: (910) 763-9793 Fax: (910) 343-9688

Project No.: **01**
 Project ID: **COMPOST PILOT**

Report Date: **10/21/2011**
 Date Received: **10/13/2011**

--- Prepared for ---
Ryan Cooper
Penland School Of Crafts
67 Dora's Trail
Penland, NC 28765

Work Order #: **1109-02145**
 Cust. Code: **PE2359**
 Cust. P.O.#:

No.	Sample ID	Date Sampled	Time Sampled	Matrix	Sample Type	Condition
001	COMPOST	10/12/2011	11:07	OT	Grab	4 +/- 2 deg C

Test Performed	Method	Results	Lab Loc	Analyzed Date	Time	Qualifier
Fecal Coliforms/MPN	SM 9221 E	190 MPN/100mL	R	10/13/11	11:00	
Percent Dry Weight	SM 2540G	54.5 %	R	10/17/11	16:40	
Fecal Coliform in Solids	CALCULATED VALUE	3.49 MPN/g,TS	R	10/13/11	11:00	

Reviewed by:

Maryanne Sims

for Tritest, Inc.



Waste Analysis Report

Grower: Cooper, Ryan
67 Doras Trl
Perkasie, NC 28765

Order No:

Form:

Received: 08/22/2011 Completed: 08/25/2011 [Link to Help/Info Information](#) Mitchell County

Sample Information		Laboratory Results (parts per million unless otherwise noted)																		
Sample ID:	N	P	K	Ca	Mg	S	Pb	Mn	Zn	Cu	B	Mo	Cl	C						
A1	Total 18214	2672	5238	10983	2076	1998	13610	511	36.1	30.4	28.0			183993						
Waste Code:	-N04																			
FCW	-N03																			
Description:	OR-N	Na	Ni	Cl	Pb	Al	Se	Li	pH	SS	CY	DM%	CM%	ALB(tons)						
Composted Waste - Other	Urea	7543	5.68	0.74	13.9				6.57	302	10.10	36.33								
Recommendations:		Nutrients Available for First Crop										Other Elements								
Application Method	N	P2O5	K2O	Ca	Mg	S	Pb	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cl	Pb	Al	Se	Li
Broadcast	8.2	4.1	5.8	7.4	1.4	1.3	8.5	0.21	0.06	0.02	0.02			2.9	0.01	Y	0.02			

Completed: 8/24/2011

Sample Information		Laboratory Results (parts per million unless otherwise noted)																		
Sample ID:	N	P	K	Ca	Mg	S	Pb	Mn	Zn	Cu	B	Mo	Cl	C						
A2	Total 14954	3161	5532	13483	2198	2038	14856	365	111	34.3	30.8			147519						
Waste Code:	-N04																			
FCW	-N03																			
Description:	OR-N	Na	Ni	Cl	Pb	Al	Se	Li	pH	SS	CY	DM%	CM%	ALB(tons)						
Composted Waste - Other	Urea	737							6.45	238	9.86	61.75								
Recommendations:		Nutrients Available for First Crop										Other Elements								
Application Method	N	P2O5	K2O	Ca	Mg	S	Pb	Mn	Zn	Cu	B	Mo	Cl	Na	Ni	Cl	Pb	Al	Se	Li
Broadcast	7.4	5.4	6.6	10.0	1.6	1.5	11.0	0.37	0.08	0.03	0.02			3.4						



Reprogramming of the laboratory information management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Traxler, Commissioner of Agriculture

Biannual Compost Report

February 16th, 2012
Penland School of Crafts
67 Dora's Trail
Penland, NC 28765

This facility has received 6.08 tons of food and 8 tons of yard waste and has processed the all of the food and 5 tons of yard waste into compost. The facility produced 3.58 tons of food and yard waste compost. All of this compost will be used to fertilize the school campus in 2013.

See attached temperature monitoring records and test results.

Biannual Compost Report

**August 16th, 2011
Penland School of Crafts
67 Dora's Trail
Penland, NC 28765**

This facility has received 10.87 tons of food and 12 tons of yard waste and has processed the same amount into compost. The facility produced 6.39 tons of food and yard waste compost. All of this compost will be used to fertilize the school campus in 2013.

See attached temperature monitoring records and test results.

Biannual Compost Report

March 8th, 2011
Penland School of Crafts
67 Dora's Trail
Penland, NC 28765

This facility has received 6.99 tons of food and 8 tons of yard waste and has processed the same amount into compost. The facility produced 4.5 tons of food and yard waste compost. All of this compost will be used to fertilize the school campus in 2012.

See attached temperature monitoring records and test results.

Biannual Compost Report

September 15th, 2010
Penland School of Crafts
67 Dora's Trail
Penland, NC 28765

This facility has received 16.41 tons of food and 14 tons of yard waste and has processed the same all but 2 tons of yard waste into compost. The facility produced 11.86 tons of food and yard waste compost. All of this compost will be used to fertilize the school campus in 2012.

See attached temperature monitoring records and test results.

2011
Penland School of Crafts
Compost Temperature Data Sheet

Date	Time	Weather	Pile	Depth	Temperature	Notes
3/14	8:30	cloudy	I			1st day!! 9 bins
3/16	"	cloudy	I			9 bins
3/18	8:30	sunny	I			6 bins
3/18	8:30	cloudy	I			8 bins
3/23	8:30	sunny	I			8 bins
3/25	8:30	cloudy	II			8 bins
3/28	8:30	snowing	II			8 bins
3/30	8:30	rainy	I			7 bins
4/1	8:30	Cold + sunny	I			10 bins
4/4	8:30	70's + sunny	I			9 "
4/6	8:30	cloudy	I			7 bins
4/8	8:30	sunny	II			6 bins
4/11	"	sunny	I			10 bins
4/12	"	sunny warm	I		130, 132	turned
4/13	"	sunny cool	I		138, 140	
"	"	"	II			9 bins
4/14	130	sunny warm	II		130, 134	turned
4/15	8:30	cloudy cool	II		130	
"	"	"	II			10 bins
4/18	8:30	SUNNY w/ cloud	II		148	turned
"	"	"	I			10 bins
4/19	11:45	sunny, hot	I		132, 134, 138	turned
4/20	8:30	rainy	I			
"	"	"	II		148, 132, 142	9 bins
4/22	"	"	II		148, 136	
4/23	"	"	II			7 bins
4/25	"	sunny; 85°	II		140, 138, 140	102
4/26		stormy warm	I		142, 142, 144	
4/27	8:30	cloudy, breezy	I		145, 135, 130	
"	8:30	"	II			9 bins
4/29	8:30	cloudy sunny	II			8 bins
5/2	8:30	70 + sunny	II			11 bins
5/4	8:30	cool & cloudy	II			8 bins
5/6	8:30	sunny & cool	II			9 bins
5/30	7:30	warm foggy	II			10 bins
5/31	7:30	clear warm	II			4 bins
6/2	7:30	warm foggy	II			8 bins
6/5	"	"	II			4 bins

Rose gagged

Jenna almost gagged

rose scrubbed hard
Ryan scraped
Jenna gagged
got slumped

Does Ryan ever gag?

4/21
132, 152, 140
turned

4/24
138, 144

6/8 7:30 warm breeze II 131, 130
" " " III 11 bins
6/6 7:30 warm III 133 11 bins
6/2 7:30 20°C III 100 10 bins



**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
6/7			II		130, 131	
6/7						
6/8			II			10 bins
6/8			II		130, 140	turned
6/9			II		130, 130	
6/9			II			
6/10			II		130, 132	turned
6/10			III			10 bins
6/13	7:30		III		132, 130	11 bins
6/13	7:30		II		132, 130	
6/15	"		III			9 bins
6/15	"		II		130, 133	
6/16			III			8 bins
6/16			II		136, 138, 142	
6/17			III		130	4 bins
6/17			II		138, 140	turned
6/20			III			11 bins
6/20			II		141, 130	
6/21			II		130, 134	
6/22			II		130, 133	
6/22			III			10 bins
6/27			IV			9 bins
6/27			III		132, 130	
6/28			III		131, 133	
6/28			IV			9 bins
6/30			III		132, 131	
7/1			III		130	10 bins
7/4			III		136, 134	turned on 7/1
7/4			IV			13 bins
7/5			III			turned
7/6			IV			9 bins
7/6			III		132, 135	
7/7			III		130, 132	
7/8			IV		130, 133	
7/8			II		130, 132	10 bins
7/11			III			11 bins
7/12			III		130, 134	turned
7/12			III		132, 136	
7/13			IV			10 bins

6/14
140

6/30
130

7/13
7/14
7/15
7/15

~~III~~
~~III~~
~~III~~
~~IV~~

135, 140 turned
136, 138
140, 148 " TU fact
← bins

**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
7/18	7:30	70's				13 bins
7/18	7:30	"			132, 130	
7/19	7:30	"	IV			12 bins
7/20	7:50					
7/21	7:30		IV			10 bins
7/22	"	70's	IV			10 bins
7/25	7:30		IV		132, 140	turned
"	"		V			12 bins
7/26	7:30		IV		146, 150	
7/27	"		IV		142, 152	16 bins
7/27	"		V			
7/28			IV		146, 150	turned
7/29	"		IV		150, 140	
7/29	"		V			11 bins
8/1	"		IV			13 bins
8/1	"		IV		140, 138	turned
8/2	7:30		IV		146	
8/3	8:00		IV		150	10 bins
8/5	9:30		IV		150	12 bins
8/5	7:30		IV		130, 140	
8/5	7:30		V			12 bins
8/8	8:00		IV		150	
8/8	8:00		V			12 bins
8/9	7:30		IV		147	
8/10	"		IV		138	
8/10	"		V		140	10 bins
8/11			IV		140	
8/12			IV		140	
8/12			V			12 bins
8/15	8:00		IV			1320, 140 ² turned
8/15	8:00		IV			11 bins
8/16			IV			10 bins
8/17			IV		150, 152	
8/17			V		132, 134	
8/17			IV			10 bins
8/18			IV		155, 152, 153	
8/18			IV		134, 148	
8/19			IV		146, 154	turned
8/19			V		150, 156	turned
8/19			VI			9 bins

**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
8/22	7:30	70's	IX		135, 140	
"	"	"	IX			10 bins
8/23			IX		150, 152	
8/24			IX		148, 150	
<u>8/24</u>			VI			11 bins
			IX		146, 150	
8/25			IX		150, 152	
			IX		153, 157	
			V		150, 152	
8/26	4:30		V			9 bins
8/26			V		150	
8/26	9:30		IV		150	turned
8/29	7:30	60's	V		155, 150	turned
8/29			IX			10 bins
8/30			IX		138, 146	
8/30			IX		148, 156	
8/30			VI		130	
8/31			IX		140, 144	
"			V		154, 156	turned
"			VI		130, 132	turned
"			IX			10 bins
9/1			IX		154, 158	
9/1			IX		152, 150	
9/1			VI		142, 144	
9/2			VII			8 bins
9/2			VI		138, 142	
9/2			IV		158, 154	
9/2			IV		150, 148	
9/5			IX			8 bins
9/5			VI		140, 148	
9/5			IX		142, 130	
9/5			IX		130, 134	
9/6			IX		152, 134	
9/6			V		144, 134	
9/6			VI		138, 146	
9/7			VI		144, 140	
9/8			VI		136, 142	turned
9/9			IX		136, 132	
9/12			IX		152, 144, 148	turned
9/13			VI		152, 144, 146	turned

" is that poor - Rochelle

turned
turned

turned
turned
turned

**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
9/19			VII			4 bins
9/20			VII			3 bins
9/21			VII			6 bins
9/26		75°; grey	VII			9 bins
9/28		70° bright & shiny!	VII			6 bins
9/30		65-70°	VII			7 bins
10/3	7:45	35°	VII			5 bins
10/5	7:45		VII			6 bins
10/7	7:30		VII			6 bins
10/10	7:30	70° overcast	VII			9 bins
10/14	7:30		VII			5 bins
10/17	7:30		VII			9 bins - turned
10/18	7:30		VII		130, 158, 158	
10/19	7:45	60's, rainy	VII		120, 143, 153	7 bins - turned
10/20	7:30		VII		150, 140, 132	
10/21	7:45	50's, overcast	VII			8 bins
10/24	7:30	60's, grey	VII		145, 158	
10/24	7:30	60's, grey	VII			6 bins
10/25	8:30		VII VII			turned
10/25	8:30		VII VII		136, 146	
10/26	12:00		VII VII		140, 152, 152	5 bins
10/27	8:00		VII VII		148, 152, 156	
10/28	7:30		VII VII		152, 154, 158	5 bins
10/31	7:30		VII VII		142, 148, 152	6 bins - turned
11/1	8		VII VII		152, 158, 160	turned
11/2	7:45	30	VII VII		158, 150, 160	5 bins
11/4	7:45	40 rainy	VII VII			6 bins
11/7	7:45	25°	VII VII			8 bins
11/9	7:45		VII VII			2 bins
11/11	7:45	25 clear	VII VII			7 bins
11/14	7:45	35 clear	VII VII			7 bins
11/17	7:40	20 clear	VII VII			7 bins
11/21	7:45	60 cloudy	VII VII			4 bins
11/22			VII VII			turned
11/23			VII VII		138, 142	
11/28			VII VII		150, 156, 144	turned
11/29			VII VII		140, 146, 148	
11/30			VII VII		150, 142, 152	
12/1			VII VII		152, 154, 158	turned
12/2			VII VII		144, 148	

10/12
pile VII
4 bins

time
change

2010

Penland School of Crafts Compost Temperature Data Sheet

Date	Time	Weather	Pile	Depth	Temperature	Notes (Bins)
3/15	10:30	cold rainy	I			5 bins ^{not full}
3/19	2:30	perfect	I			4 bins
3/22	8:30	sunny & cloudy	I			5 bins
3/24	1:30	9 mag/worm	I			7 bins
3/28	8:45	sunny / nice	I			7 bins
4/1	8:30	sunny / nice clear	I			7 bins
4/5	"	"	"			7 bins
4/7	"	"	"			7 bins
4/9	8:30	sunny clear cool	I			5 bins
4/12	8:30	shiny clear	I			6 bins
4/14	8:30	sunny clear	I			7 bins
4/19	8:30	sunny clear	I			6 bins
4/21	"	"	"			8 bins
4/23	9	rainy cloudy	II			5 bins
4/28	8:30	sunny clear cool	I		150°	turned 4/28
"	"	"	II			6 bins
4/30	1	sunny clear hot	II			7 bins
"	"	"	I		155°	turned
5/3	8:30	rainy warm	II			6 bins
"	"	"	I		155°	turned
5/4	8:30	sunny clear warm	I		130°, 140°, 155°	6 bins
5/5	8:30	sunny clear warm	II		140°, 150°, 155°	turned
5/5	9:45	sunny clear warm	I		150°	
5/6	10:30	"	I		150°	
5/7	9		I			8 bins
5/7	9		I		155°	
5/10	10		I		160°	turned
5/11	4		I		150°, 160°	
5/12	8:30		II			6 bins
5/12	8:30		I		162°	turned
5/13	8:30		II		134°	turned
5/13	8:30		I		155°	turned
5/14	10		II		138°	
5/14	10		I		160°	
5/17	9		II		140°	turned
5/17	9		I		158°	turned
5/18	"		II		144°	
5/18	"		I		162°	

(Feedstock) 2 1/2 stacks each

4/16
8 bins

turned 4/28

**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
5/19	3		II		146°	tuned
5/19	3		I		158°	tuned
5/20	11		II		148°	
5/20	11		I		162°	
5/21	8:15		II		146°	tuned
5/21	8:15		I		158°	tuned
5/24	9		II		152°	
5/24	9		I		152°	
5/25	10		II		158°	tuned
5/25	10		I		150°	
5/26	11		II		146°	
5/26	11		I		150°	
5/27	8:30		II		140°	
5/27	8:30		I		145°	
5/28	2		I		142°	
5/28	2		II		142°	
5/31	7		II		136°	
5/31	7		I		140°	
6/1	7:30		II		146°	
6/1	7:30		I		158°	
6/2	10		II		138, 140, 142	II 6 bins
6/2	10		I		132°	III 4 bins
6/3	7:30		II			5 bins
6/4	7:30		III			4 bins
6/5	7:30		III			8 bins
6/7	7		III			7 bins
6/8	7:30		III			5 bins
6/9	7:30		III			7 bins
6/10	7:30		III			4 bins
6/14	7:30		III			8 bins
6/15	7:30		III			4 BINS.
6/16	7:30		III			4 BINS
6/17	7:30		III			5 BINS
6/18	7:30		III		138, 140, 148	5 BINS
6/18	7:30		III			5 BINS. <i>tuned</i>
6/21	7:30		III		130, 155, 145	5 BINS.
6/21	7:30		III			8 BINS
6/22	7:30		III			6 BINS
6/22	7:30		III		139, 143, 142,	tuned
6/23	7:30		III			5 BINS
6/23	7:30		III			
6/24	7:30		III		135, 142, 159	tuned
6/24	7:30		III		145, 158	
6/24	7:30		III			4 BINS

**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
6/25	7:30		IV		155, 158, 140	
6/25	7:30		V			5 BINS
6/28	7:30		IV		150°/140°	
6/28	7:30		V			8 BINS.
6/29	7:30		IV		156, 155, 140	turned
6/29	7:30		V			3 BINS.
6/30	7:30	little misty cool	IV		130, 140, 150	
6/30	7:30		V			5 BINS
7/1	7:30		IV		145, 131, 135	
7/1	7:30		V			8 BINS. → turned
7/2	7:30		IV		130, 132	
7/2	7:30		V		145, 155, 137	
7/2	7:30		VI			6 BINS.
7/5	7:30		IV		132°	
7/5	7:30		V			← 158°
7/5	7:30		VI		140	9 bins
7/6	7:30		IV		131, 140	
7/6	7:30		V		150, 161.	turned
7/6	7:30		VI			4 BINS
7/7	7:30		IV		120, 110°	
7/7	7:30		V		160, 155°	turned
7/7	7:30		VI			4 BINS.
7/8	7:30		IV			
7/8	7:30		V		150, 140°	
7/8	7:30		VI			4 BINS
7/9	7:30		IV		110, 120°	
7/9	7:30		V		160, 150°	
7/9	7:30		VI			4 BINS.
7/12	7:30		IV		160, 155°	
7/12	7:30		VI			9 BINS
7/13	7:30		V		136, 150	
7/13	7:30		VI			3 BINS
7/14	7:30		V		135, 155, 159	turned
7/14	7:30		VI			6 BINS.
7/15	7:30		V			TURNED 7/14
7/15	7:30		VI			6 BINS.
7/16	7:30		VI			5 BINS
7/16	7:30		V		140, 125°	
7/19	7:30		VI			10 BINS.
7/20	7:30		VI			5 BINS. turned



**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
7/21	7:30		VII			5 BINS
7/21	7:20		VII		130°, 140°	
7/22	7:20		VII			6 BINS
7/22	7:20		VII		145°, 140°	TURNED
7/26	7:20		VII		150°, 130°	
7/26	7:30		VII			10 BINS.
7/27	7:30		VI		140°, 130°	
7/28	7:30		VII			6 BINS
7/28	7:20		VI		150°, 135°	
7/28	7:30		VII			5 BINS
7/29	7:20		VII		155°, 140°	TURNED.
7/29	7:30		VII			5 BINS
7/30	7:20		VI		140°, 130°	
7/30	7:15		VII			6 BINS.
8/2	7:20		VII		155°, 140°	
8/2			VII			11 BINS
8/3			VI			turned
8/3	7:20		VII			6 BINS
8/3	7:30		VI		140°, 130°	
8/4	7:20		VII			4 BINS
8/4	7:20		VI		140°, 145°	145°, 140°, 145°
8/5	7:20		VII			5 BINS
8/5	7:20		VI		138°, 142°	
8/6	7:20		VII			10 BINS
8/6	7:20		VI		140°, 135°	
8/9	7:30		VII			11 BINS
8/10	7:30		VII			7 BINS
8/11	7:30		VII			4 BINS
8/12	7:30		VII			6 BINS
8/12	7:10:00		8			6 bins
8/16	7:30		8		148°, 150°, 160°	turned
8/16	7:30		9			13 BINS -
8/17	7:30		9		142°, 145°, 158°	
8/17	7:30		8			7 bins
8/18	7:30		8		150°, 155°	
8/18	7:30		9			4 bins
8/19	7:30		8		135°, 136°, 142°	
8/19	7:30		9			9 bins
8/20	7:30		8		145°, 160°	
8/20	7:30		9			5 BINS.

8/25 "

" "

8

156, 160

9

10 bins

**Penland School of Crafts
Compost Temperature Data Sheet**

Date	Time	Weather	Pile	Depth	Temperature	Notes
8/24	7:30	beautiful	29			4 bins
"	"	"	28		140, 150, 155	to me
8/25			29			5 bins
8/25			28		136, 162, 158	
8/26			29			6 bins
8/26			28		140, 145, 158	
8/30			9		152	9 bins
8/31			29		132, 138	tuned
8/31			10			6 bins
9/1			4		132, 132, 148	tuned
9/1			10			4 bins
9/2			9		136, 138	
9/2			10			7 bins
9/3			9		148, 150	7 bins
9/3			10		149, 148, 152	tuned
9/3			10			11 bins
9/7			9		138, 144, 150	
9/8			9		148, 152	
9/9			9		156	tuned
9/14			9		160, 158	tuned
9/15			9		132, 160	
9/16					136, 148, 158	
9/17					138, 152, 154	
9/27			10			9 bins
9/29			10			9 bins
10/1			10			7 bins
10/4			10		142, 154	open
10/4			11			11 bins
10/6			10		148, 136	tuned
10/6			11			9 bins
10/7			10		134, 142, 148	
10/8			10		146	
10/8			11			9 bins
10/10			10		142, 144, 146	
10/11			11			10 bins
10/12			10		148, 152	tuned
10/13			10		150, 154	
10/13			11			9 bins

8/27 8-150, 152
8/27 9-56ms
tuned

9/1
9/1

tuned

tuned

tuned

tuned

tuned

open

tuned

tuned

Penland School of Crafts Compost Temperature Data Sheet

Date	Time	Weather	Pile	Depth	Temperature	Notes
10/14	10:30	BLUZZARDY GROG MISTY	10	15"	145, 148, 150	
10/15	7:30	clear, cool	10	"	144, 145, 150	tuned
10/15			"			9 bins
10/18	7:30	"	10	"	142, 154, 158	tuned
10/18	"		"			9 bins
10/19	1:30		10		136	
10/20	7:30		10		138	
10/20	"		11			9 bins
10/21	3		10		148	tuned
10/22	7:30		10		154, 148	tuned
10/22	"		11			10 bins
10/25	7:30		11		131, 133	
"	"		12			8 bins
10/26	"		11		132, 140	
10/27	7:50		11		134, 142	
10/27	7:50		12			12 bins
10/28	1		11		130, 138	tuned
10/29	7:50		11		132, 144	
10/29	7:30		12			8 bins
11/1	7:50		11		142, 157, 140	tuned
11/1	4		12			10 bins
11/2	7:40		11		132, 140	
"	"		12			10 bins
11/5	1:00		12			7 bins
11/8	1:00		11		132, 140, 150	
11/8	1:00		12		142, 150	
11/9	1:00		11		135, 145	10 bins
11/9	2:00		12			8 bins
11/12	"		11		145, 152	
11/12	"		11			8 bins
11/15	"		11		132, 145	
11/16	"		12			12 bins
11/17	9:45		11		136	
11/18	"		12			8 bins
11/19	"		11		138	
11/22	"		12			10 bins
11/22	"		11		142	
11/23	"		12			8 bins
11/24	"		11		136	

10/25
" 10/26
" 10/27
" 10/28
" 10/29
" 10/30
" 10/31
" 11/1
" 11/2
" 11/3 PILE 136, 138
" 11/4 PILE 142, 146
" 11/9 PILE 140, 146
" 11/11 PILE 148
" 11/16 " 136, 140
" 11/18 " 136, 142
" 11/23 " 132, 146

12
2 bins
11/26 " + 12 tuned
11/29 " + 12 136, 146, 162 - tuned

