



To: Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock
AR 72118-5317

From: Nancy Busen, Wastewater Utilities Manager
City of Bentonville
1901 N.E. "A" Street,
Bentonville, AR 72712

RE: Annual Type 'O' Compost Facility Report for 2016
Permit # 297-SC, CSN-04-0472

Please find enclosed the 2016 report for the City of Bentonville Compost Facility.
Should you have any questions or concerns, please contact me by email at
nbusen@bentonvillear.com or by phone at 479-271-3161 or 479-271-6749.

Respectfully submitted,

A handwritten signature in cursive script that reads "Nancy Busen".

Nancy Busen, Wastewater Utilities Manager
City of Bentonville
1901 N.E. "A" Street,
Bentonville, AR 72712

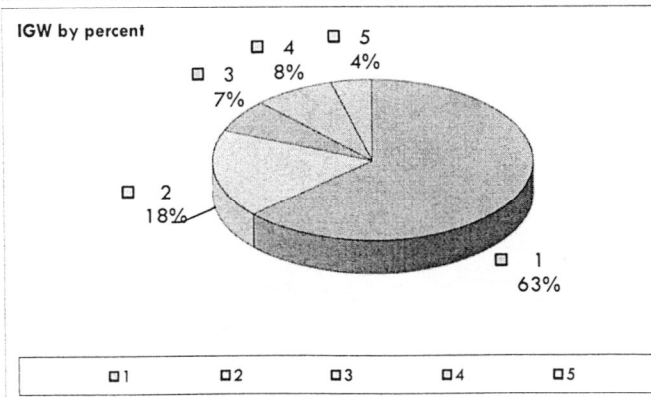
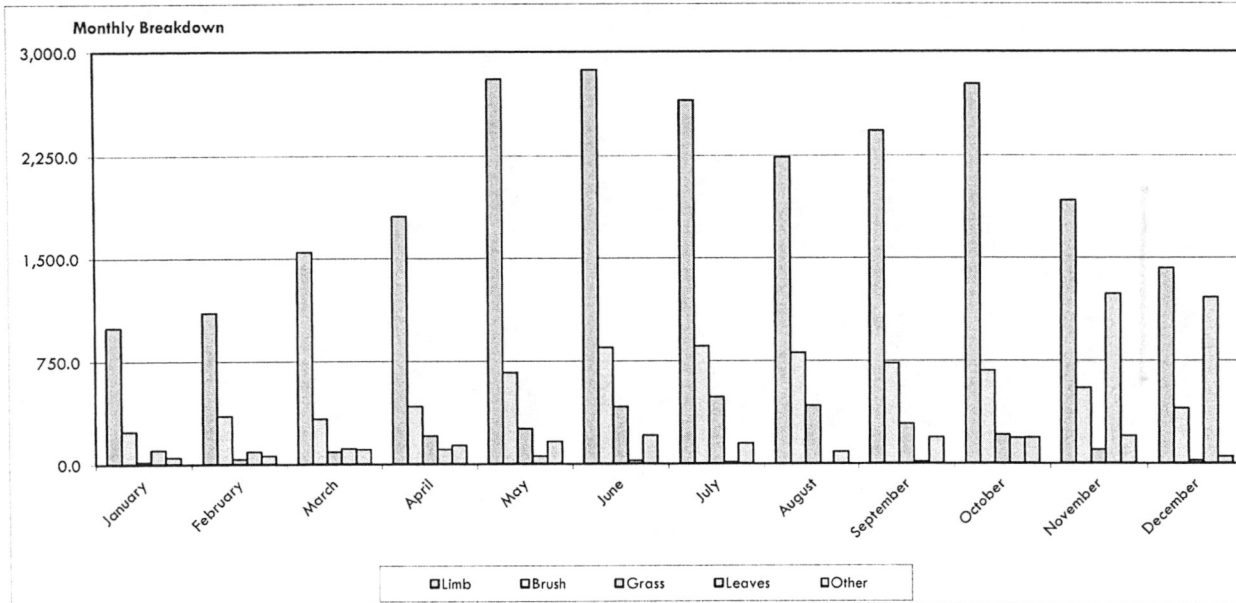
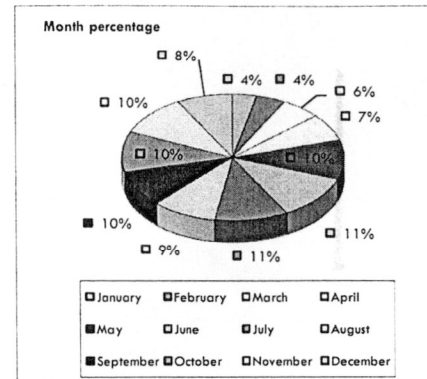


Wastewater Department
Compost Facility

City of Bentonville
Compost Facility
2016 Annual Report

Compost Facility IGW Yearly Report 2016

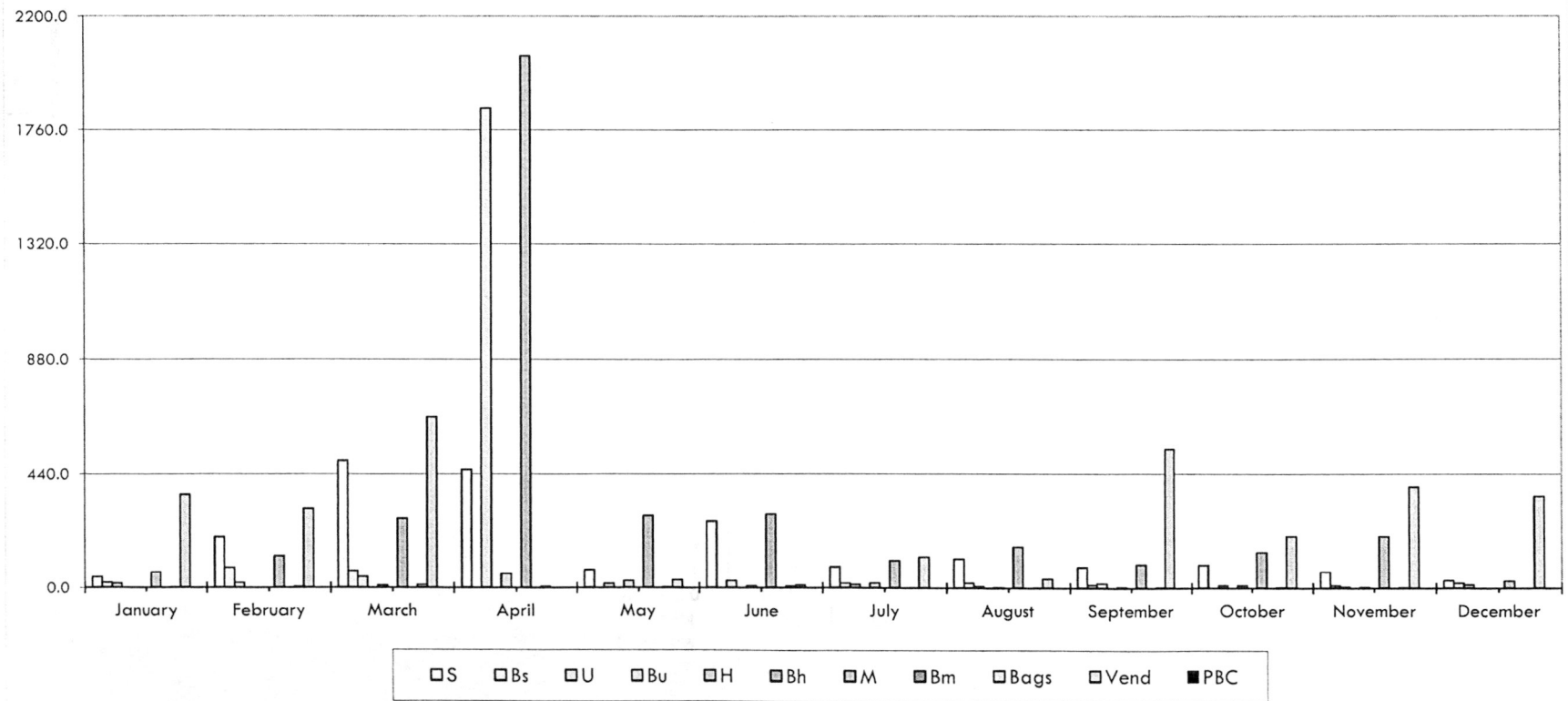
	Limbs	Brush	Grass	Leaves	Other	MonTotal
January	993.0	236.1	16.5	103.3	50.5	1,399.4
February	1,103.4	356.4	36.9	91.0	59.0	1,646.7
March	1,544.2	336.8	88.4	111.9	105.5	2,186.8
April	1,810.8	423.2	203.0	107.1	135.4	2,679.5
May	2,802.5	669.0	256.1	55.6	163.2	3,946.4
June	2,868.1	847.3	420.4	22.4	206.5	4,364.7
July	2,649.8	858.1	489.2	12.0	147.5	4,156.6
August	2,237.8	808.6	427.8	3.0	86.4	3,563.6
September	2,427.1	730.7	296.0	15.7	189.5	3,659.0
October	2,766.3	677.8	207.6	184.6	187.7	4,024.0
November	1,922.7	553.4	99.2	1,234.6	199.0	4,008.9
December	1,420.7	406.2	20.2	1,209.2	50.7	3,107.0
YearTotal	24,546.4	6,903.6	2,561.3	3,150.4	1,580.9	38,742.6



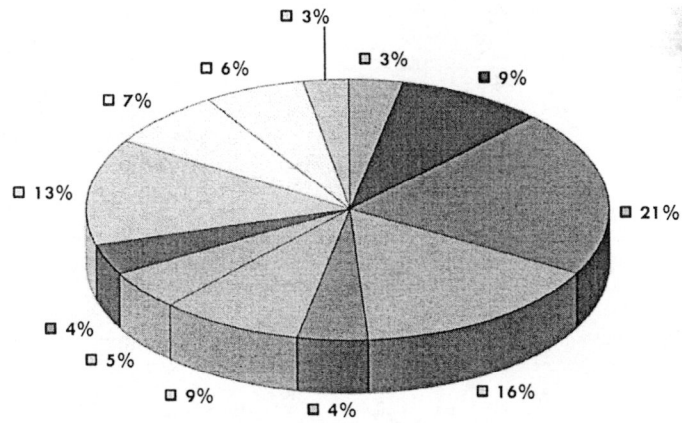
DailyAvgIGW/Month	
Jan	66.6
Feb	82.3
March	104.1
April	121.8
May	187.9
June	168.1
July	166.3
August	132.0
Sept	146.4
Oct	154.8
Nov	174.3
Dec	124.3
DailyAvgIGW/Year	135.7

**Compost Facility
Composting and Distribution
2016 Report**

	1	2	3	4	5	6	7	8	9	10					
	S	Bs	U	Bu	H	Bh	M	Bm	Bags	Vendor	Vendor\$	PBCsales	PBCclaim	PBCyds	Total\$
January	42.0	20.0	16.5	0.0	0.0	0.0	62.0	0.0	0.6	361.0	\$712.00	\$0.00	\$0.00	0.0	\$1,847.00
February	199.0	80.0	19.0	0.0	0.0	0.0	125.0	0.0	3.5	307.0	\$440.00	\$0.00	\$0.00	0.0	\$5,107.00
March	490.5	68.0	43.0	0.0	9.5	0.0	270.0	0.0	11.5	657.0	\$1,276.00	\$0.00	\$0.00	0.0	\$11,547.00
April	456.5	0.0	1843.0	0.0	55.5	0.0	2045.0	0.0	3.8	0.0	\$0.00	\$0.00	\$0.00	0.0	\$8,738.00
May	72.0	0.0	16.5	0.0	27.5	0.0	279.5	0.0	2.1	30.0	\$216.00	\$0.00	\$0.00	0.0	\$2,429.00
June	259.0	0.0	27.5	0.0	7.0	0.0	285.0	0.0	4.8	10.0	\$20.00	\$0.00	\$0.00	0.0	\$4,853.00
July	83.0	18.0	13.0	0.0	19.5	0.0	107.5	0.0	0.1	122.0	\$772.00	\$0.00	\$0.00	0.0	\$2,684.00
August	115.0	20.0	6.5	0.0	2.0	0.0	161.5	0.0	1.2	36.0	\$40.00	\$0.00	\$0.00	0.0	\$2,131.00
September	83.5	12.0	18.5	0.0	3.5	0.0	93.5	0.0	1.8	534.0	\$5,460.00	\$0.00	\$0.00	0.0	\$7,371.00
October	91.5	0.0	10.0	0.0	10.0	0.0	140.0	0.0	1.9	202.0	\$1,892.00	\$0.00	\$0.00	0.0	\$3,955.00
November	64.5	10.0	4.0	0.0	3.0	0.0	202.0	0.0	2.0	390.0	\$2,184.00	\$0.00	\$0.00	0.0	\$3,434.00
December	30.5	20.0	13.0	0.0	0.0	0.0	28.0	0.0	0.0	355.0	\$640.00	\$0.00	\$0.00	0.0	\$1,564.00
	1987.0	248.0	2030.5	0.0	137.5	0.0	3799.0	0.0	33.0	3004.0			\$0.00	0.0	
	\$31,408.0	\$2,436.0	\$3,330.0	\$0.0	\$525.0	\$0.0	\$2,332.0	\$0.0	\$1,977.0		\$13,652.00	\$0.00			\$55,660.00

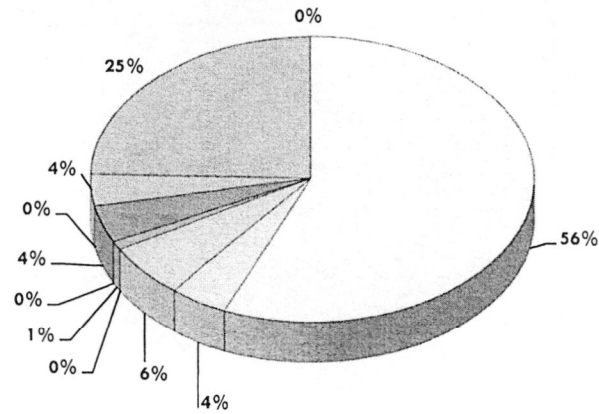


Annual Dist by month



January February March April May June
 July August September October November December

Annual Sales breakdown



S Bs U Bu H Bh M Bm Bags Vendor\$ PBCsales

s	bs	u	bu	h	bh	m	bm	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total			0.0					

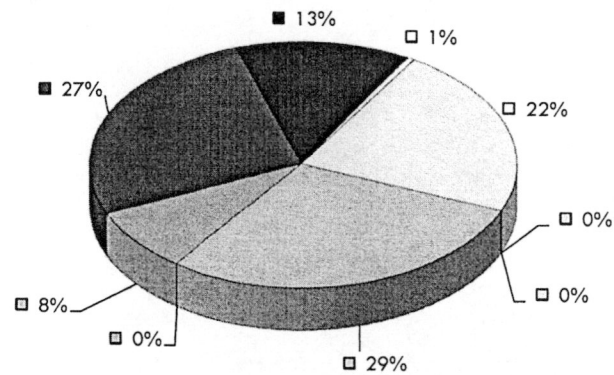
s	bs	u	bu	wu	h	bh	m	bm
15.0	670.0	0.0	0.0	872.0	0.0	248.0	799.0	400.0
Total				3004.0				

PBC breakdown



s bs u bu h bh m bm

Vendor breakdown



1 2 3 4 5 6 7 8 9

Windrows constructed: **20**

Biosolids composted:	3570.0 yds ³	535.5 DryTon	485.7 Metric Ton	44.6 DryTon/Month
Woodchips composted:	12000.0 yds ³	3120.0 DryTon	2829.8 Metric Ton	260.0 DryTon/Month
GreenMaterial composted:	0.0 yds ³	0.0 DryTon	0.0 Metric Ton	0.0 DryTon/Month
Culls re-composted:	0.0 yds ³	0.0 DryTon	0.0 Metric Ton	0.0 DryTon/Month

Total Composted Material **15570.0** yds³ Total Composted Material **304.6** DryTon/Month

Compost Released 2014:	6670.0 yds ³		
Compost Distributed 2014:	5993.0 yds ³	\$54,528.00	Total
Screened	2953.0 yds ³	\$45,441.00	Total
Unscreened	2902.5 yds ³	\$3,330.00	Total
Hulls	385.5 yds ³	\$5,757.00	Total
Raw Mulch	4998.0 yds ³	\$9,110.00	Total
Total Distribution Revenue:		\$55,660.00	Total

Pre-paid Card sales:	\$0.00
Pre-paid Card claims:	\$0.00
Balance:	\$0.00

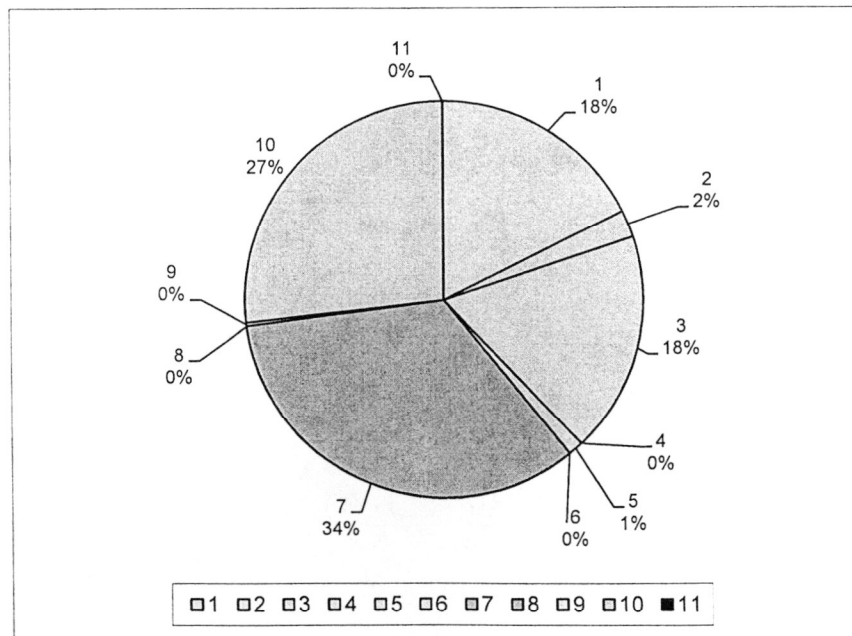
Distribution to City Depts.:

Screened	98.0 yds ³
Unscreened	1753.0 yds ³
Hulls	50.0 yds ³
Raw Mulch	3507.5 yds ³

Annual Dist Total for Comp & Dist

s	bs	u	bu	h	bh	m	bm
24.0	74.0	1753.0	0.0	50.0	0.0	3507.5	0.0

ec	vendor	bgs	compost	mulch
0.0	3004.0	33.0	4403.0	3799.0

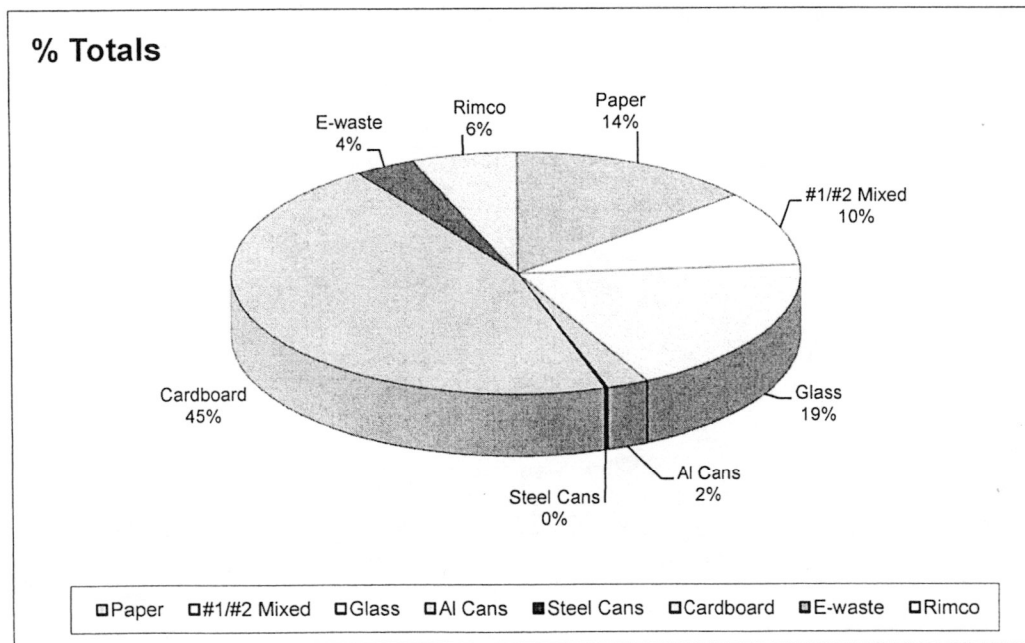


City of Bentonville Compost Facility Recycled Materials 2016

	Paper	#1/#2 Mixed	Glass	Al Cans	Steel Cans	Cardboard	E-waste	Rimco	ToTals
January	7.5	5.0	6.0	2.5	0.0	19.5	0.0	0.0	40.5
February	10.0	6.0	11.5	1.0	0.0	17.5	0.0	0.0	46.0
March	6.0	7.0	6.0	2.0	0.5	25.0	0.0	6.0	52.5
April	5.5	6.0	11.0	1.0	0.0	22.0	4.5	0.0	50.0
May	5.0	7.5	12.0	0.5	0.0	18.5	0.0	0.0	43.5
June	7.5	5.0	12.0	0.5	0.0	28.0	0.0	6.0	59.0
July	7.0	4.0	10.0	1.0	0.0	24.5	6.5	6.0	59.0
August	11.0	4.0	12.0	1.5	0.0	30.0	6.0	7.0	71.5
September	8.5	4.0	6.0	1.5	0.0	21.5	0.0	7.5	49.0
October	7.0	5.5	6.0	0.5	0.0	24.0	0.0	0.0	43.0
November	7.5	4.0	16.5	1.5	0.0	28.5	5.5	6.0	69.5
December	8.0	7.0	12.0	1.5	1.0	36.0	0.0	0.0	65.5

	1	3	4	5	6	8	9	10
Totals*	90.5	65.0	121.0	15.0	1.5	295.0	22.5	38.5
Grand Total	649.0							

*estimates are in cubic yards



2016 Composted Biosolids

1/6/2017

ID#	date	BP#'s	yds3	%solids	DryTons	TotalDT	Dtons	Cyds	DT's	
1-	wr010616	01/06/16	BPQ4-15b	160.0	11.47	15.5	15.5	15.5		
2-	wr010816	01/09/16	wr110415	220.0	n/a			Jan		
3-	wr012316	01/23/16	wr110415	250.0	n/a			800.0	15.5	
4-	wr021116	02/12/16	BPQ1-16b	170.0	14.36	20.6	20.6	36.1	Feb	
5-	wr030116	03/02/16	BPQ1-16b	180.0	13.41	20.3	20.3	56.4	170.0	20.6
6-	wr031616	03/16/16	BPQ1-16b	170.0	11.35	16.3	16.3	72.7	Mar	
7-	wr040116	04/02/16	BPQ1-16b	210.0	14.07	24.9	24.9	97.6	350.0	36.6
8-	wr050516	05/06/16	BPQ2-16b	200.0	13.25	22.3	22.3	119.9	Apr	
9-	wr052516	05/26/16	BPQ2-16b	200.0	12.49	21.0	21.0	140.9	210.0	24.9
10-	wr060916	06/10/16	BPQ2-16b	230.0	13.03	25.2	25.2	166.1	May	
11-	wr062916	06/29/16	BPQ2-16b	250.0	18.75	39.5	39.5	205.6	400.0	43.3
12-	wr071316	07/14/16	BPQ3-16b	220.0	15.21	28.2	28.2	233.8	Jun	
13-	wr072616	07/27/16	BPQ3-16b	210.0	13.81	24.4	24.4	258.2	480.0	64.7
14-	wr080516	08/05/16	BPQ3-16b	220.0	14.30	26.5	26.5	284.7	July	
15-	wr082516	08/25/16	BPQ3-16b	180.0	16.08	24.4	24.4	309.1	430.0	52.6
16-	wr093016	09/30/16	BPQ3-16b	220.0	13.72	25.4	25.4	334.5	Aug	
17-	wr101316	10/13/16	BPQ3-16b	120.0	13.36	13.5		334.5	400.0	50.9
			BPQ4-16b	90.0	13.79	10.5	24.0	358.5	Sept	
18-	wr110116	11/01/16	BPQ4-16b	120.0	13.36	13.5	13.5	372.0	220.0	25.4
19-	wr121316	12/14/16	BPQ4-16b	200.0	12.68	21.4	21.4	393.4	Oct	
20-	wr122916	12/30/16	BPQ4-16b	220.0	12.60	23.3	23.3	416.7	210.0	24.0
								Nov	120.0	13.5
								Dec	420.0	44.7
								TotalDT	DT/month/year	
XX-	wr	date	BP	yards	Avg%TS		AvgDT/wr	416.7	34.73	
				4,040.0	13.74		23.3			
				15.5	Dry Tons from 2015 sludge					

1/29/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPOQ3-15b
BATCH #'s

WR 090215 & 0092915
WINDROW #'s

Maria Higgins
COMPOST OPERATIONS FOREMAN

1/29/16
DATE

Nancy Butler
PLANT MANAGER

1-27-16
DATE

Monthly Report for January
 Compost Facility: Compost Distribution
 Mark Kiggins
 January 27, 2016

Sample ID
 wr090215+092915

Analyte	Sample Results		Method	Quality Limits
Maturity	12		Solvita	11 to 13
MPN	6	/gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	3.01	mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.93	mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	11.00	mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	84.0	mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	8.10	mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	ND	mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.56	mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	7.54	mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	2.60	mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	295.0	mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	6.65	s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	2,908.0	uhs/cm	EPA 120.1	
Potassium (K)	6,960.0	mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	14,500.0	mg/Kg	EPA 365.1	100 lbs/acre/year
NO₂+NO₃ as N	88.3	mg/Kg	EPA 353.2	
NH₃ as N	1,330.0	mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	17,100.0	mg/Kg	EPA 351.2	
% Solids	32.7%		SM 2540B	
Plant Available Nitrogen	5,484.3	mg/Kg		160 lbs/acre/year
	11.0	lbs/Ton		

Cubic Yards	
screened	0.0
unscreened	830.0
hulls	0.0
Total	830.0

Date Released 1/27/2016

Testing is performed in compliance with CFR 40 Part 503.

Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .

Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

Analytical Report

01/26/16 15:01

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712

Work Order: BA60069
 Project Name: Compost
 Project Number: Compost

Attn: Roman Rios

Date Received: 01/15/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BA60069-01 (Soil) Sampled: 01/12/16 09:00				Client Sample Name: WR 0902+092915					
Arsenic	3.01		mg/kg dry	0.243	25	01/22/16 13:42	MBM	SW846 6020A	B6A2002
Cadmium	0.929		"	0.243	"	"	MBM	"	"
Chromium	11.0		"	0.00243	"	"	MBM	"	"
Copper	84.0		"	0.243	"	"	MBM	"	"
Lead	8.10		"	0.243	"	"	MBM	"	"
Mercury	ND		"	0.929	"	01/26/16 08:14	MBM	"	B6A2201
Molybdenum	1.56		"	0.00243	"	01/22/16 13:42	MBM	"	B6A2002
Nickel	7.54		"	0.243	"	"	MBM	"	"
Potassium	6960		"	0.972	"	"	MBM	"	"
Selenium	2.60		"	0.00243	"	"	MBM	"	"
Zinc	295		"	0.607	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BA60069-01 (Soil) Sampled: 01/12/16 09:00				Client Sample Name: WR 0902+092915					
Ammonia as N	1330		mg/kg dry	50	5	01/20/16 14:47	JCH	EPA 350.1	B6A2008
Nitrate/Nitrite as N	88.3		"	9.99	1	01/22/16 14:19	JCH	EPA 353.2	B6A2107
pH	6.65		pH Units		"	01/19/16 08:30	JCH	EPA 9045B	B6A1903
Phosphorus, Total as P	14500		mg/kg dry	499	50	01/19/16 14:05	JCH	EPA 365.1	B6A1908
Total Kjeldahl Nitrogen	17100		"	999	20	01/21/16 14:48	DAD	EPA 351.2	B6A2102

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BA60069-01 (Soil) Sampled: 01/12/16 09:00				Client Sample Name: WR 0902+092915					
Specific Conductance (EC)	2908		umhos/cm dry	1.000	1	01/19/16 08:38	JCH	EPA 120.1	B6A1904
Total Solids	32.7		% by Weight	0.0500	"	01/19/16 08:29	JSH	SM2540B	B6A1905

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

3/9/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

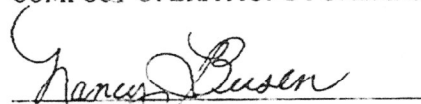
I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPO4-15b
BATCH #'s

WR 111315 & 112515
WINDROW #'s


COMPOST OPERATIONS FOREMAN

3/9/16
DATE


PLANT MANAGER

3-9-16
DATE

Monthly Report for March
 Compost Facility: Compost Distribution
 Mark Kiggins
 March 8, 2016

Sample ID
 wr111315+112515

Analyte	Sample Results	Method	Quality Limits
Maturity	13	Solvita	11 to 13
MPN	5 /gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	1.58 mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.73 mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	5.00 mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	57.7 mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	4.21 mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	ND mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.83 mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	4.33 mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	1.37 mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	136.0 mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	7.28 s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	1,597.0 uhs/cm	EPA 120.1	
Potassium (K)	4,500.0 mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	8,650.0 mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	35.9 mg/Kg	EPA 353.2	
NH ₃ as N	917.0 mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	13,200.0 mg/Kg	EPA 351.2	
% Solids	39.2%	SM 2540B	
Plant Available Nitrogen	4,179.3 mg/Kg		160 lbs/acre/year
	8.4 lbs/Ton		

Cubic Yards	screened	0.0
	unscreened	780.0
	hulls	0.0
	Total	780.0

Date Released 3/8/2016

Testing is performed in compliance with CFR 40 Part 503.

Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .

Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

Analytical Report

03/04/16 12:52

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712
 Attn: Roman Rios

Work Order: BB60136
 Project Name: Compost
 Project Number: Compost
 Date Received: 02/25/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BB60136-01 (Solid) Sampled: 02/23/16 09:05				Client Sample Name: WR 111315-112515					
Arsenic	1.58		mg/kg dry	0.239	25	03/01/16 15:10	MBM	SW846 6020A	B6C0101
Cadmium	0.731		"	0.239	"	"	MBM	"	"
Chromium	5.00		"	0.00239	"	"	MBM	"	"
Copper	57.7		"	0.239	"	"	MBM	"	"
Lead	4.21		"	0.239	"	"	MBM	"	"
Mercury	ND		"	0.762	"	03/02/16 13:17	MBM	"	B6C0201
Molybdenum	1.83		"	0.00239	"	03/01/16 15:10	MBM	"	B6C0101
Nickel	4.33		"	0.239	"	"	MBM	"	"
Potassium	4500		"	0.0239	"	"	MBM	"	"
Selenium	1.37		"	0.00239	"	"	MBM	"	"
Zinc	136		"	0.597	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BB60136-01 (Solid) Sampled: 02/23/16 09:05				Client Sample Name: WR 111315-112515					
Ammonia as N	917		mg/kg dry	48	5	03/01/16 15:54	JCH	EPA 350.1	B6B2905
Nitrate/Nitrite as N	35.9		"	9.65	1	03/03/16 15:50	JCH	EPA 353.2	B6C0309
pH	7.28	Z	pH Units		"	03/02/16 10:25	JCH	EPA 9045B	B6C0204
Phosphorus, Total as P	8650		mg/kg dry	483	50	03/01/16 15:01	JCH	EPA 365.1	B6C0104
Total Kjeldahl Nitrogen	13200		"	965	20	03/03/16 11:36	JCH	EPA 351.2	B6C0302

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BB60136-01 (Solid) Sampled: 02/23/16 09:05				Client Sample Name: WR 111315-112515					
Specific Conductance (EC)	1597		umhos/cm dry	1.000	1	03/02/16 10:20	JCH	EPA 120.1	B6C0203
Total Solids	39.2		% by Weight	0.0500	"	02/26/16 08:27	JSH	SM2540B	B6B2603

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

4/12/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

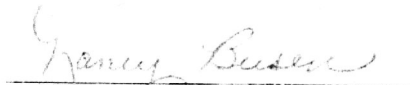
I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPQ4-15b
BATCH #'s

WR 010616 & 010816
WINDROW #'s


COMPOST OPERATIONS FOREMAN

4/12/16
DATE


PLANT MANAGER

4-13-16
DATE

Monthly Report for April
 Compost Facility: Compost Distribution
 Mark Kiggins
 May 7, 2016

Sample ID
 wr010616+010816

Analyte	Sample Results	Method	Quality Limits
Maturity	12	Solvita	11 to 13
MPN	5 /gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	2.03 mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.46 mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	7.08 mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	47.6 mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	5.48 mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	0.40 mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.20 mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	4.56 mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	1.54 mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	135.0 mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	7.26 s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	2,389.0 uhs/cm	EPA 120.1	
Potassium (K)	5,260.0 mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	5,800.0 mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	29.7 mg/Kg	EPA 353.2	
NH ₃ as N	449.0 mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	11,700.0 mg/Kg	EPA 351.2	
% Solids	40.4%	SM 2540B	
Plant Available Nitrogen	3,629.5 mg/Kg		160 lbs/acre/year
	7.3 lbs/Ton		

Cubic Yards	screened	540.0
	unscreened	40.0
	hulls	110.0
	<u>Total</u>	<u>690.0</u>

Date Released 4/12/2016

Testing is performed in compliance with CFR 40 Part 503.

Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .

Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



Analytical Report

1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

04/05/16 12:14

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712

Work Order: BC60127
 Project Name: Compost
 Project Number: Compost
 Date Received: 03/25/16

Attn: Roman Rios

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BC60127-01 (Solid) Sampled: 03/22/16 10:30					Client Sample Name: wr010616+010816				
Arsenic	2.03		mg/kg dry	0.231	25	03/30/16 09:54	MBM	SW846 6020A	B6C2901
Cadmium	0.456		"	0.231	"	"	MBM	"	"
Chromium	7.08		"	0.00231	"	"	MBM	"	"
Copper	47.6		"	0.231	"	"	MBM	"	"
Lead	5.48		"	0.231	"	"	MBM	"	"
Mercury	0.399		"	0.285	"	03/28/16 13:37	MBM	"	B6C2802
Molybdenum	1.20		"	0.00231	"	03/30/16 09:54	MBM	"	B6C2901
Nickel	4.56		"	0.231	"	"	MBM	"	"
Potassium	5260		"	2.31	"	"	MBM	"	"
Selenium	1.54		"	0.00231	"	"	MBM	"	"
Zinc	135		"	0.576	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BC60127-01 (Solid) Sampled: 03/22/16 10:30					Client Sample Name: wr010616+010816				
Ammonia as N	449		mg/kg dry	50	5	03/29/16 17:37	JCH	EPA 350.1	B6C2805
Nitrate/Nitrite as N	29.7		"	9.93	1	04/01/16 15:10	JCH	EPA 353.2	B6D0103
pH	7.26		pH Units		"	03/29/16 10:03	JCH	EPA 9045B	B6C2906
Phosphorus, Total as P	5800		mg/kg dry	497	50	03/29/16 16:02	JCH	EPA 365.1	B6C2909
Total Kjeldahl Nitrogen	11700		"	993	20	03/31/16 14:43	JCH	EPA 351.2	B6C3102

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BC60127-01 (Solid) Sampled: 03/22/16 10:30					Client Sample Name: wr010616+010816				
Specific Conductance (EC)	2389		umhos/cm dry	1.000	1	04/01/16 15:28	JCH	EPA 120.1	B6D0104
Total Solids	40.4		% by Weight	0.0500	"	03/29/16 09:32	JSH	SM2540B	B6C2903

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

6/1/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPQ4-15b & BPQ1-16b
BATCH #'s

WR 012316 & 021116
WINDROW #'s

[Signature]
COMPOST OPERATIONS FOREMAN

6/1/16
DATE

[Signature]
PLANT MANAGER

6-1-16
DATE

Monthly Report for May
 Compost Facility: Compost Distribution
 Mark Kiggins
 June 1, 2016

Sample ID
 wr012316+021116

Analyte	Sample Results		Method	Quality Limits
Maturity	13		Solvita	11 to 13
MPN	3	/gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	2.16	mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.48	mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	7.41	mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	53.3	mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	5.32	mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	ND	mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.13	mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	5.24	mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	1.37	mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	135.0	mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	7.88	s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	1,864.0	uhs/cm	EPA 120.1	
Potassium (K)	4,320.0	mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	9,170.0	mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	0.0	mg/Kg	EPA 353.2	
NH ₃ as N	3,320.0	mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	20,600.0	mg/Kg	EPA 351.2	
% Solids	56.7%		SM 2540B	
Plant Available Nitrogen	6,844.0	mg/Kg		160 lbs/acre/year
	13.7	lbs/Ton		
Cubic Yards				
		screened	430.0	
		unscreened	160.0	
		hulls	70.0	
		<u>Total</u>	<u>660.0</u>	

Date Released 6/1/2016

Testing is performed in compliance with CFR 40 Part 503.
 Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .
 Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

Analytical Report

06/01/16 08:34

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712

 Attn: Roman Rios

Work Order: BE60083
 Project Name: Compost
 Project Number: Compost

 Date Received: 05/17/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BE60083-01 (Solid) Sampled: 05/17/16 09:47				Client Sample Name: WR012316+021116					
Arsenic	2.16		mg/kg dry	0.0869	10	05/24/16 15:27	MBM	SW846 6020A	B6E2302
Cadmium	0.483		"	0.0869	"	"	MBM	"	"
Chromium	7.41		"	0.000869	"	"	MBM	"	"
Copper	53.3		"	0.0869	"	"	MBM	"	"
Lead	5.32		"	0.0869	"	"	MBM	"	"
Mercury	ND		"	0.767	"	05/24/16 15:15	MBM	"	B6E2402
Molybdenum	1.13		"	0.000869	"	05/24/16 15:27	MBM	"	B6E2302
Nickel	5.24		"	0.0869	"	"	MBM	"	"
Potassium	4320		"	0.348	"	"	MBM	"	"
Selenium	1.37		"	0.00869	"	"	MBM	"	"
Zinc	135		"	0.217	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BE60083-01 (Solid) Sampled: 05/17/16 09:47				Client Sample Name: WR012316+021116					
Ammonia as N	3320		mg/kg dry	50	5	05/17/16 16:03	JCH	EPA 350.1	B6E1704
Nitrate/Nitrite as N	ND		"	10.0	1	05/23/16 16:38	JCH	EPA 353.2	B6E2306
pH	7.88		pH Units		"	05/20/16 12:52	JCH	EPA 9045B	B6E1904
Phosphorus, Total as P	9170		mg/kg dry	500	50	05/18/16 14:54	JCH	EPA 365.1	B6E1707
Total Kjeldahl Nitrogen	20600		"	1000	20	05/19/16 14:07	JCH	EPA 351.2	B6E1902

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BE60083-01 (Solid) Sampled: 05/17/16 09:47				Client Sample Name: WR012316+021116					
Specific Conductance (EC)	1864		umhos/cm dry	5.000	5	05/19/16 16:33	JCH	EPA 120.1	B6E1905
Total Solids	56.7		% by Weight	0.0500	1	05/18/16 13:05	MBM	SM2540B	B6E1802

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

6/28/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPQ1-16b
BATCH #'s

WR 030116 & 031616
WINDROW #'s

[Signature]
COMPOST OPERATIONS FOREMAN

6/28/16
DATE

[Signature]
PLANT MANAGER

6-28-16
DATE

Monthly Report for June
 Compost Facility: Compost Distribution
 Mark Kiggins
 June 28, 2016

Sample ID
 wr030116+031616

Analyte	Sample Results	Method	Quality Limits
Maturity	13	Solvita	11 to 13
MPN	4 /gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	1.82 mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.43 mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	6.37 mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	58.6 mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	4.91 mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	ND mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.54 mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	5.46 mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	1.50 mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	130.0 mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	8.32 s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	1,733.0 uhs/cm	EPA 120.1	
Potassium (K)	4,710.0 mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	9,090.0 mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	19.6 mg/Kg	EPA 353.2	
NH ₃ as N	4,790.0 mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	16,500.0 mg/Kg	EPA 351.2	
% Solids	57.9%	SM 2540B	
Plant Available Nitrogen	5,927.6 mg/Kg		160 lbs/acre/year
	11.9 lbs/Ton		

Cubic Yards	screened	490.0	wr0301+031616
	unscreened	0.0	
	hulls	90.0	
	<u>Total</u>	<u>580.0</u>	

Date Released 6/28/2016

Testing is performed in compliance with CFR 40 Part 503.

Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .

Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



Analytical Report

1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

06/24/16 13:05

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712
 Attn: Roman Rios

Work Order: BF60095
 Project Name: Compost
 Project Number: Compost
 Date Received: 06/16/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

M2

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BF60095-01 (Solid) Sampled: 06/14/16 08:48					Client Sample Name: wr0301+031616				
Arsenic	1.82		mg/kg dry	0.234	25	06/20/16 09:20	MBM	SW846 6020A	B6F1704
Cadmium	0.425		"	0.234	"	"	MBM	"	"
Chromium	6.37		"	0.234	"	"	MBM	"	"
Copper	58.6		"	0.234	"	"	MBM	"	"
Lead	4.91		"	0.234	"	"	MBM	"	"
Mercury	ND		"	2.02	"	06/21/16 07:32	MBM	"	B6F2003
Molybdenum	1.54		"	0.234	"	06/20/16 09:20	MBM	"	B6F1704
Nickel	5.46		"	0.234	"	"	MBM	"	"
Potassium	4710		"	0.234	"	"	MBM	"	"
Selenium	1.50		"	0.234	"	"	MBM	"	"
Zinc	130		"	0.234	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BF60095-01 (Solid) Sampled: 06/14/16 08:48					Client Sample Name: wr0301+031616				
Ammonia as N	4790		mg/kg dry	51	5	06/21/16 16:15	JCH	EPA 350.1	B6F2015
Nitrate/Nitrite as N	19.6		"	10.1	1	06/21/16 21:54	JCH	EPA 353.2	B6F2017
pH	8.32		pH Units		"	06/21/16 08:34	JCH	EPA 9045B	B6F2008
Phosphorus, Total as P	9090		mg/kg dry	506	50	06/22/16 13:53	JCH	EPA 365.1	B6F2104
Total Kjeldahl Nitrogen	16500		"	1010	20	06/23/16 14:38	JCH	EPA 351.2	B6F2305

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BF60095-01 (Solid) Sampled: 06/14/16 08:48					Client Sample Name: wr0301+031616				
Specific Conductance (EC)	1733		umhos/cm dry	5.000	5	06/21/16 08:24	JCH	EPA 120.1	B6F2009
Total Solids	57.9		%	0.0500	1	06/20/16 09:46	JCH	SM 2540B	B6F2005

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

7/28/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

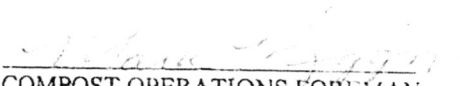
FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

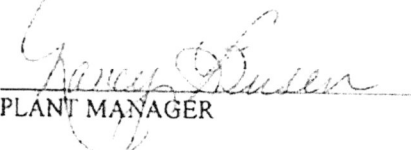
I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPQ1-16b & BPQ2-16b
BATCH #'s

WR 040116 & 050516
WINDROW #'s


COMPOST OPERATIONS FOREMAN

7/28/16
DATE


PLANT MANAGER

7/28/16
DATE

Monthly Report for August
 Compost Facility: Compost Distribution
 Mark Kiggins
 August 11, 2016

Sample ID
 wr0401+050516

Analyte	Sample Results	Method	Quality Limits
Maturity	13	Solvita	11 to 13
MPN	4 /gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	1.51 mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.55 mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	7.53 mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	72.6 mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	5.70 mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	ND mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.46 mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	6.96 mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	2.20 mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	215.0 mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	7.83 s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	2,827.0 uhs/cm	EPA 120.1	
Potassium (K)	4,670.0 mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	14,300.0 mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	0.0 mg/Kg	EPA 353.2	
NH ₃ as N	5,540.0 mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	19,900.0 mg/Kg	EPA 351.2	
% Solids	52.7%	SM 2540B	
Plant Available Nitrogen	7,078.0 mg/Kg		160 lbs/acre/year
	14.2 lbs/Ton		

Cubic Yards	screened	510.0	wr0401+050516
	unscreened	0.0	
	hulls	80.0	
	<u>Total</u>	<u>590.0</u>	

Date Released 8/11/2016

Testing is performed in compliance with CFR 40 Part 503.

Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .

Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



Analytical Report

1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

07/26/16 13:41

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712

Work Order: BG60076
 Project Name: Compost
 Project Number: Compost

Attn: Roman Rios

Date Received: 07/14/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BG60076-01 (Solid) Sampled: 07/12/16 09:05					Client Sample Name: WR0401+050516				
Arsenic	1.51		mg/kg dry	0.241	25	07/26/16 08:38	MBM	SW846 6020A	B6G1903
Cadmium	0.549		"	0.241	"	"	MBM	"	"
Chromium	7.53		"	0.00241	"	"	MBM	"	"
Copper	72.6		"	0.241	"	"	MBM	"	"
Lead	5.70		"	0.241	"	"	MBM	"	"
Mercury	ND		"	2.19	"	07/21/16 15:04	MBM	"	B6G2003
Molybdenum	1.46		"	0.00241	"	07/26/16 08:38	MBM	"	B6G1903
Nickel	6.96		"	0.241	"	"	MBM	"	"
Potassium	4670		"	0.241	"	"	MBM	"	"
Selenium	2.20		"	0.00241	"	"	MBM	"	"
Zinc	215		"	0.603	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BG60076-01 (Solid) Sampled: 07/12/16 09:05					Client Sample Name: WR0401+050516				
Ammonia as N	5540		mg/kg dry	50	5	07/19/16 15:09	JCH	EPA 350.1	B6G1905
Nitrate/Nitrite as N	ND		"	9.96	1	07/22/16 10:07	JCH	EPA 353.2	B6G2203
pH	7.83		pH Units		"	07/18/16 13:15	JCH	EPA 9045B	B6G1805
Phosphorus, Total as P	14300		mg/kg dry	498	50	07/21/16 09:11	JCH	EPA 365.1	B6G1908
Total Kjeldahl Nitrogen	19900		"	996	20	07/21/16 15:31	JCH	EPA 351.2	B6G2107

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BG60076-01 (Solid) Sampled: 07/12/16 09:05					Client Sample Name: WR0401+050516				
Specific Conductance (EC)	2827		umhos/cm dry	5 000	5	07/18/16 13:10	JCH	EPA 120.1	B6G1804
Total Solids	52.7		% by Weight	0.0500	1	07/18/16 10:22	JSH	SM2540B	B6G1803

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

9/26/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317


FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

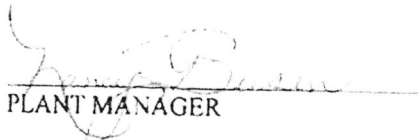
I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPQ2-16b
BATCH #'s

WR 052516 & 060916
WINDROW #'s


COMPOST OPERATIONS FOREMAN

9/26/16
DATE


PLANT MANAGER

9-27-16
DATE

Monthly Report for September
 Compost Facility: Compost Distribution
 Mark Kiggins
 September 26, 2016

Sample ID
 wr0525+060916

Analyte	Sample Results	Method	Quality Limits
Maturity	13	Solvita	11 to 13
MPN	3 /gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	1.75 mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.44 mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	10.40 mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	78.5 mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	7.16 mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	ND mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.62 mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	8.87 mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	2.22 mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	244.0 mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	7.80 s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	2,390.0 uhs/cm	EPA 120.1	
Potassium (K)	5,380.0 mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	12,000.0 mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	0.0 mg/Kg	EPA 353.2	
NH ₃ as N	4,830.0 mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	18,300.0 mg/Kg	EPA 351.2	
% Solids	54.1%	SM 2540B	
Plant Available Nitrogen	6,456.0 mg/Kg		160 lbs/acre/year
	12.9 lbs/Ton		

Cubic Yards	screened	460.0
	unscreened	80.0
	hulls	70.0
	Total	610.0

Date Released 9/26/2016

Testing is performed in compliance with CFR 40 Part 503.
 Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .
 Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



Analytical Report

1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

09/23/16 14:17

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712

Work Order: B160004
 Project Name: Compost
 Project Number: Compost

Attn: Roman Rios

Date Received: 09/02/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BI60004-01 (Solid) Sampled: 08/30/16 09:00					Client Sample Name: WR0525+060916				
Arsenic	1.75		mg/kg dry	0.240	25	09/22/16 14:11	MBM	SW846 6020A	B612104
Cadmium	0.443		"	0.240	"	"	MBM	"	"
Chromium	10.4		"	0.00240	"	"	MBM	"	"
Copper	78.5		"	0.240	"	"	MBM	"	"
Lead	7.16		"	0.240	"	"	MBM	"	"
Mercury	ND		"	2.22	"	09/19/16 15:13	MBM	"	B611903
Molybdenum	1.62		"	0.00240	"	09/22/16 14:11	MBM	"	B612104
Nickel	8.87		"	0.240	"	"	MBM	"	"
Potassium	5380		"	0.959	"	"	MBM	"	"
Selenium	2.22		"	0.00240	"	"	MBM	"	"
Zinc	244		"	0.600	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BI60004-01 (Solid) Sampled: 08/30/16 09:00					Client Sample Name: WR0525+060916				
Ammonia as N	4830		mg/kg dry	49	5	09/06/16 14:23	JCH	EPA 350.1	B610603
Nitrate/Nitrite as N	ND		"	9.85	1	09/08/16 10:05	JCH	EPA 353.2	B610813
pH	7.80	Z	pH Units		"	09/12/16 13:50	JCH	EPA 9045B	B610809
Phosphorus, Total as P	12000		mg/kg dry	494	50	09/07/16 10:32	JCH	EPA 365.1	B610605
Total Kjeldahl Nitrogen	18300		"	985	20	09/16/16 14:56	JCH	EPA 351.2	B611606

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BI60004-01 (Solid) Sampled: 08/30/16 09:00					Client Sample Name: WR0525+060916				
Specific Conductance (EC)	2390		umhos/cm dry	5.000	5	09/12/16 14:05	JCH	EPA 120.1	B610810
Total Solids	54.1	Z	% by Weight	0.0500	1	09/06/16 13:24	JSH	SM2540B	B610606

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

10/26/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

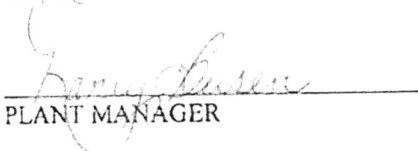
I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCENTRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPO2-16b & BPO3-16b
BATCH #'s

WR 062916 & 071316
WINDROW #'s


COMPOST OPERATIONS FOREMAN

10/26/16
DATE


PLANT MANAGER

10-26-16
DATE

Monthly Report for October
 Compost Facility: Compost Distribution
 Mark Kiggins
 November 9, 2016

Sample ID
 wr0629+071316

Analyte	Sample Results	Method	Quality Limits
Maturity	11	Solvita	11 to 13
MPN	3 /gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	2.20 mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.77 mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	10.70 mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	69.5 mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	9.67 mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	0.33 mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	0.77 mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	7.56 mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	2.20 mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	240.0 mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	7.46 s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	3,427.0 uhs/cm	EPA 120.1	
Potassium (K)	5,010.0 mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	16,000.0 mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	66.5 mg/Kg	EPA 353.2	
NH ₃ as N	3,880.0 mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	21,500.0 mg/Kg	EPA 351.2	
% Solids	50.9%	SM 2540B	
Plant Available Nitrogen	7,292.5 mg/Kg		160 lbs/acre/year
	14.6 lbs/Ton		

Cubic Yards	screened	320.0
	unscreened	150.0
	hulls	130.0
	<u>Total</u>	<u>600.0</u>

Date Released 10/26/2016

Testing is performed in compliance with CFR 40 Part 503.

Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .

Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

Analytical Report

10/14/16 14:27

Client: City of Bentonville WWTP
 117 W. Central
 Bentonville AR, 72712
 Attn: Roman Rios

Work Order: BJ60040
 Project Name: Compost
 Project Number: Compost
 Date Received: 10/07/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BJ60040-01 (Solid) Sampled: 10/04/16 08:30				Client Sample Name: wr062916 & 071316					
Arsenic	2.20		mg/kg dry	0.238	25	10/12/16 11:14	MBM	SW846 6020A	B6J1106
Cadmium	0.773		"	0.238	"	"	MBM	"	"
Chromium	10.7		"	0.00238	"	"	MBM	"	"
Copper	69.5		"	0.238	"	"	MBM	"	"
Lead	9.67		"	0.238	"	"	MBM	"	"
Mercury	0.328		"	0.234	"	10/12/16 13:25	MBM	"	B6J1206
Molybdenum	0.773		"	0.00238	"	10/12/16 11:14	MBM	"	B6J1106
Nickel	7.56		"	0.238	"	"	MBM	"	"
Potassium	5010		"	0.953	"	"	MBM	"	"
Selenium	2.20		"	0.00238	"	"	MBM	"	"
Zinc	240		"	2.38	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BJ60040-01 (Solid) Sampled: 10/04/16 08:30				Client Sample Name: wr062916 & 071316					
Ammonia as N	3880		mg/kg dry	48	5	10/11/16 14:45	JCH	EPA 350.1	B6J1105
Nitrate/Nitrite as N	66.5		"	9.62	1	10/13/16 14:16	JCH	EPA 353.2	B6J1310
pH	7.46	Z	pH Units		"	10/12/16 11:50	JCH	EPA 9045B	B6J1202
Phosphorus, Total as P	16000		mg/kg dry	481	50	10/12/16 10:14	JCH	EPA 365.1	B6J1109
Total Kjeldahl Nitrogen	21500		"	962	20	10/14/16 09:14	JCH	EPA 351.2	B6J1305

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BJ60040-01 (Solid) Sampled: 10/04/16 08:30				Client Sample Name: wr062916 & 071316					
Specific Conductance (EC)	3427		umhos/cm dry	1.000	1	10/12/16 09:30	JCH	EPA 120.1	B6J1203
Total Solids	50.9	Z	%	0.0500	"	10/11/16 15:33	DC	SM 2540B	B6J1110

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11/8/16

TO: ADEQ
5301 Northshore Drive
North Little Rock, AR 72218-5317

FROM: BENTONVILLE WASTEWATER TREATMENT PLANT
1901 N. E. "A" STREET
BENTONVILLE, AR 72712

THE CITY OF BENTONVILLE'S NPDES PERMIT, PERMIT NUMBER AR0022403 PAGE 2 OF PART III PARAGRAPH VI, REQUIRES THE BIOSOLIDS GENERATOR TO ISSUE A SIGNED CERTIFICATION STATEMENT BEFORE THE MATERIAL IS RELEASED FOR DISPOSAL. THE FOLLOWING IS THE CERTIFICATION STATEMENT FOR PATHOGEN REDUCTION, VECTOR ATTRACTION REDUCTION, AND POLLUTANT CONCENTRATION LIMITS.

I CERTIFY, UNDER PENALTY OF LAW, THAT THE CLASS A PATHOGEN REQUIREMENTS IN 503.32 ALTERNATIVE 5, VECTOR ATTRACTION REDUCTION REQUIREMENTS IN 503.33 OPTION 1, OPTION 4, OR OPTION 5, AND POLLUTANT CONCETRATION LIMITS LISTED ON TABLE 3 OF SECTION 503.13 HAVE BEEN MET. THIS DETERMINATION HAS BEEN MADE UNDER MY DIRECTION AND SUPERVISION IN ACCORDANCE WITH THE SYSTEM DESIGNED TO ENSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION USED TO DETERMINE THAT THE PATHOGEN REDUCTION AND VECTOR ATTRACTION REDUCTION REQUIREMENTS HAVE BEEN MET. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR FALSE CERTIFICATION INCLUDING FINE AND IMPRISONMENT

BPO3-16b
BATCH #'s

WR 072616 & 080516
WINDROW #'s

William H. Giger
COMPOST OPERATIONS FOREMAN

11/8/16
DATE

Danny Buse
PLANT MANAGER

11/8/16
DATE

Monthly Report for November
 Compost Facility: Compost Distribution
 Mark Kiggins
 December 8, 2016

Sample ID
 wr0726+080516

Analyte	Sample Results		Method	Quality Limits
Maturity	13		Solvita	11 to 13
MPN	4	/gram	EPA 10027	1,000 per gram of total dry solids
Arsenic	2.76	mg/Kg	SW846 6020A	41.0 mg/Kg
Cadmium	0.78	mg/Kg	SW846 6020A	39.0 mg/Kg
Chromium	11.50	mg/Kg	SW846 6020A	1,200.0 mg/Kg
Copper	79.3	mg/Kg	SW846 6020A	1,500.0 mg/Kg
Lead	7.66	mg/Kg	SW846 6020A	300.0 mg/Kg
Mercury	0.63	mg/Kg	SW846 6020A	17.0 mg/Kg
Molybdenum	1.83	mg/Kg	SW846 6020A	54.0 mg/Kg
Nickel	7.79	mg/Kg	SW846 6020A	420.0 mg/Kg
Selenium	2.34	mg/Kg	SW846 6020A	36.0 mg/Kg
Zinc	279.0	mg/Kg	SW846 6020A	2,800.0 mg/Kg
pH	7.65	s.u.	EPA 9045B	5.5 - 8.5 s.u.
Specific Conductance(EC)	2,563.0	uhs/cm	EPA 120.1	
Potassium (K)	4,710.0	mg/Kg	SW846 6020A	180 lbs/acre/year
Phosphorus (P)	13,500.0	mg/Kg	EPA 365.1	100 lbs/acre/year
NO ₂ +NO ₃ as N	0.0	mg/Kg	EPA 353.2	
NH ₃ as N	3,610.0	mg/Kg	EPA 350.1	
Total Kjeldahl Nitrogen(TKN)	14,300.0	mg/Kg	EPA 351.2	
% Solids	48.5%		SM 2540B	
Plant Available Nitrogen	5,012.0	mg/Kg		160 lbs/acre/year
	10.0	lbs/Ton		

Cubic Yards	screened	460.0
	unscreened	0.0
	hulls	180.0
	Total	640.0

Date Released 11/8/2016

Testing is performed in compliance with CFR 40 Part 503.

Analysis conducted by Environmental Testing Group, Inc. of Bentonville, AR .

Nutrient application rates are general recommendations provided by the county authority. For specific detailed application rates please contact your local cooperative extension service.



1702 East Central Avenue Suite 10
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

Analytical Report

11/04/16 11:55

Client:	City of Bentonville WWTP 117 W. Central Bentonville AR, 72712	Work Order:	BJ60123
		Project Name:	Compost
		Project Number:	Compost
Attn:	Roman Rios	Date Received:	10/27/16

Environmental Testing Group

Metals by EPA 6000 Series Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BJ60123-01 (Solid) Sampled: 10/25/16 08:45					Client Sample Name: WR0726+080516				
Arsenic	2.76		mg/kg dry	0.244	25	11/03/16 14:31	MBM	SW846 6020A	B6K0204
Cadmium	0.779		"	0.244	"	"	MBM	"	"
Chromium	11.5		"	0.00244	"	"	MBM	"	"
Copper	79.3		"	0.244	"	"	MBM	"	"
Lead	7.66		"	0.244	"	"	MBM	"	"
Mercury	0.628		"	0.628	"	11/04/16 11:00	MBM	"	B6K0405
Molybdenum	1.83		"	0.00244	"	11/03/16 14:31	MBM	"	B6K0204
Nickel	7.79		"	0.244	"	"	MBM	"	"
Potassium	4710		"	2.44	"	"	MBM	"	"
Selenium	2.34		"	0.0487	"	"	MBM	"	"
Zinc	279		"	0.609	"	"	MBM	"	"

Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BJ60123-01 (Solid) Sampled: 10/25/16 08:45					Client Sample Name: WR0726+080516				
Ammonia as N	3610		mg/kg dry	50	5	11/03/16 16:54	DAD	EPA 350.1	B6K0203
Nitrate/Nitrite as N	ND		"	10.0	1	10/28/16 10:51	JCH	EPA 353.2	B6J2801
pH	7.65		pH Units		"	11/01/16 16:30	MBM	EPA 9045B	B6K0102
Phosphorus, Total as P	13500		mg/kg dry	244	25	11/01/16 16:01	MBM	EPA 365.1	B6K0105
Total Kjeldahl Nitrogen	14300		"	1000	20	10/28/16 16:27	JCH	EPA 351.2	B6J2802

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Q	Units	PQL	Dil Factor	Analyzed Date/Time	Analyst	Method	Batch
BJ60123-01 (Solid) Sampled: 10/25/16 08:45					Client Sample Name: WR0726+080516				
Specific Conductance (EC)	2563		umhos/cm dry	1.000	1	11/01/16 16:31	MBM	EPA 120.1	B6K0101
Total Solids	48.5		%	0.0500	"	10/27/16 16:36	DC	SM 2540B	B6J2709

Environmental Testing Group

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Nancy Busen, Manager
City of Bentonville Wastewater Utilities
1901 N.E. "A" Street
Bentonville, AR 72712

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North Little Rock, AR 72118-5317