



Cooperative Extension Service  
Soil Testing And Research Laboratory  
Marianna, AR 72360  
<http://soiltest.uaex.edu>

The University of Arkansas is an equal opportunity/affirmative action institution.

CITY OF MELBOURNE PO BOX 278 MELBOURNE	Client ID: 8703684215  AR 72556
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	5/22/2015 PAULCOOP 29 No No Unknown
County: Lab Number: Sample Number:	Izard 64454 3127926

### 1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	61	122	Above Optimum
K	53	106	Very Low
Ca	291	582	--
Mg	54	108	--
SO4-S	7	14	--
Zn	4.1	8.2	--
Fe	104	208	--
Mn	51	102	--
Cu	2.9	5.8	--
B	0	0	--
NO3-N	12	24	--

### 2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	5.5	--		
Soil EC (1:2 soil-water)	18	umhos/cm		
Soil Estimated CEC	6.80	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Sandy Loam			
<b>Estimated Base Saturation (%)</b>				
Total	Ca	Mg	K	Na
33.80	21.41	6.62	2.00	3.77

### 3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Last Crop	Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Fallow (19)								
Crop 1	Warm-Season Grasses (MNT) (207)	60	0	160	0	0	0	3000
Crop 2								
Crop 3								

#### 4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.  
If S deficiency has occurred previously on this field apply 20 lb SO4-S/Acre.

#### 5. Crop 2 Notes:

#### 6. Crop 3 Notes:

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<b>CITY OF MELBOURNE</b> PO BOX 278 MELBOURNE	<b>Client ID:</b> 8703684215  <b>AR</b> 72556
<b>Date Processed:</b> <b>Field ID:</b> <b>Acres:</b> <b>Lime Applied in the last 4 years:</b> <b>Leveled in past 4 years:</b> <b>Irrigation:</b>	5/22/2015 BENCOOPE 20 No No Unknown
<b>County:</b> <b>Lab Number:</b> <b>Sample Number:</b>	Izard 64455 3127927

**1. Nutrient Availability Index**

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	64	128	Above Optimum
K	119	238	Medium
Ca	336	672	--
Mg	83	166	--
SO4-S	18	36	--
Zn	3.5	7	--
Fe	167	334	--
Mn	124	248	--
Cu	1.2	2.4	--
B	0	0	--
NO3-N	9	18	--

**2. Soil Properties**

Property	Value	Units		
Soil pH (1:2 soil-water)	5.6	--		
Soil EC (1:2 soil-water)	28	umhos/cm		
Soil Estimated CEC	6.81	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Sandy Loam			
<b>Estimated Base Saturation (%)</b>				
Total	Ca	Mg	K	Na
41.24	24.68	10.16	4.48	1.92

**3. Recommendations** (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
<b>Last Crop</b>	Fallow (19)	----- lb/acre -----						
<b>Crop 1</b>	Warm-Season Grasses (MNT) (207)	60	0	60	0	0	0	3000
<b>Crop 2</b>								
<b>Crop 3</b>								

**4. Crop 1 Notes:**

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

**5. Crop 2 Notes:**

**6. Crop 3 Notes:**

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CITY OF MELBOURNE PO BOX 278 MELBOURNE	Client ID: 8703684215 AR 72556
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	5/22/2015 AIRPORTF 20 No No Unknown
County: Lab Number: Sample Number:	Izard 64456 3127928

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	14	28	Very Low
K	46	92	Very Low
Ca	538	1076	--
Mg	78	156	--
SO4-S	10	20	--
Zn	3	6	--
Fe	108	216	--
Mn	183	366	--
Cu	1.1	2.2	--
B	0	0	--
NO3-N	7	14	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	5.8	--		
Soil EC (1:2 soil-water)	18	umhos/cm		
Soil Estimated CEC	7.64	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silt Loam			
<b>Estimated Base Saturation (%)</b>				
Total	Ca	Mg	K	Na
47.62	35.23	8.51	1.54	2.33

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Fallow (19)	----- lb/acre -----						
Crop 1	Mixed Cool and Warm Season Grasses 2 ton (142)	80	90	200	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in late winter. To favor warm-season grasses, do not apply N until May 1.

5. Crop 2 Notes:

6. Crop 3 Notes:

# Arkansas Testing Laboratories

3301 Langley Dr · Searcy, AR 72143

(501) 268-6431 f(501) 268-9314

NPDES Wastewater Monitoring

Water and Wastewater Analysis

Concrete, Asphalt, and Aggregate Testing

Geotechnical Testing

Industrial and Construction Quality Control

## Melbourne

Collection Date / Time: August 27, 2014

7:00 AM

## SLUDGE ANALYSIS

Collection Place: Sludge Bed #1 & #3

Collected By: Coy Dale / KWS

KWS

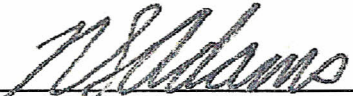
Parameter	Date / Time Analyzed		Results	Unit	Analyst	Spike %	Rel %	Method
								<i>Analysis complies with 40 CFR Part 136:</i>
Total Solids	08/27	4:00 PM	93.58	%	KLB	NA	0.60	SM 2540B
Volatile Solids	08/27	4:00 PM	55.46	%	KLB	NA	0.14	SM 2540B
pH	08/28	10:00 AM	6.65	S.U.	KLB	NA	0.15	SM 4500HB
Ammonia Nitrogen	09/02	9:30 AM	5620.9	mg/kg	KLB	95.4	8.45	SM 4500 NH3 - F
Total Kjeldahl Nitrogen	09/02	9:30 AM	42998.6	mg/kg	KLB	95.4	8.45	SM 4500 NORG
Phosphorus	08/29	8:02 AM	5961.92	mg/kg	KLB	101.1	5.97	SM 4500 P-E
Nitrate Nitrogen	08/28	1:00 PM	4.99	mg/kg	KLB	92.9	13.37	SM 4500 NO3 - E
Nitrite Nitrogen	08/28	1:00 PM	39.81	mg/kg	KLB	92.9	13.37	SM 4500 NO3 - E
Arsenic	09/02	3:27 PM	1.60	mg/kg	KLB	96.5	7.96	SM 3120 B
Cadmium	09/02	3:27 PM	< 1.6	mg/kg	KLB	96.0	1.38	SM 3120 B
Chromium	09/02	3:27 PM	17.20	mg/kg	KLB	97.5	1.29	SM 3120 B
Copper	09/02	3:27 PM	316.40	mg/kg	KLB	93.3	0.03	SM 3120 B
Lead	09/02	3:27 PM	14.80	mg/kg	KLB	96.0	5.50	SM 3120 B
Molybdenum	09/02	3:27 PM	10.80	mg/kg	KLB	99.0	0.19	SM 3120 B
Nickel	09/02	3:27 PM	14.80	mg/kg	KLB	94.8	1.63	SM 3120 B
Potassium	09/02	3:27 PM	1284.40	mg/kg	KLB	108.1	4.48	SM 3120 B
Selenium	09/02	3:27 PM	< 16.0	mg/kg	KLB	90.0	7.89	SM 3120 B
Zinc	09/02	3:27 PM	584.80	mg/kg	KLB	102.3	1.09	SM 3120 B
Mercury	09/05	2:03 PM	0.97	mg/kg	AI235	108.0	1.860	EPA 7471B
PCB	09/05	2:25 PM	< 0.013	mg/kg	AI306	15.6	3.13	EPA 3550C, 8082A

(PCBs 1016, 1221, 1242, 1248, 1254, 1260, 1262, 1268)

**Quality Assurance:** All Parameters include 10% duplication studies by random selection. The following equipment is checked and calibrated daily: pH meter, balance, incubators, water baths, drying oven and sterilizing apparatus. Ammonia Nitrogen and Oil & Grease Analysis include duplication and spike studies at a rate of at least 10%.

**Notes:** Samples iced at collection. Preserved with H<sub>2</sub>SO<sub>4</sub> to pH<sub>2</sub>: Oil & Grease, Ammonia, COD

42998.6  
- 5620.9  
-----  
37377.7

  
Neville Adams, Manager

# Arkansas Testing Laboratories

204 E. Lincoln  
 Searcy, AR 72143  
 501-268-6431  
 Fax 501-268-9314

- \* NPDES Wastewater Monitoring
- \* Water and Wastewater Analysis
- \* Concrete and Aggregate Testing
- \* Geotechnical Testing
- \* Industrial and Construction Quality Control

## CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

CLIENT: MELBOURNE										PARAMETERS				
SAMPLE ID	SAMPLE MATRIX	SAMPLED BY: <i>Kam. Sps</i>				FECAL COLIFORM				CALIBRATION			PRESERVATIVES	
		DATE	TIME	FLOW	GRAB	De-chlorinated w/ Na2S2O3	Preserved w/ Ice	MLS	pH	Cl2	DO	ICE	H2SO4	
EFF	W	8-27-14	7:00 <sup>AM</sup>		X	1-120ml-P	x	x	x	7:06 <sup>AM</sup>				
										7.50	0.03	7.4	1-H-P	1-L-P
										7.49	0.03	7.5		
<i>Bed 1 + 3</i>	<i>Sludge</i>	<i>8-27-14</i>												
	<i>Bed 1 + 3</i>													

Q, L, H = Quart, Liter, Half Gallon

Relinquished by:	Date/Time	Received by:	Date/Time
<i>Kam. Sps</i>	8-27-14 1:55 <sup>PM</sup>	<i>PH</i>	8-27-14 1:55 <sup>PM</sup>

Laboratory Calculation Worksheet  
Melbourne Water and Sewer

Sludge Application Record

Bed# 113

1. Latest Sludge Laboratory Report

Lab Name: Arkansas Testing Lab  
P. O. Box 481, Searcy, AR 72145

Date of Lab Report: August 27, 2014  
Attach Copy of Lab Report

2. Calculating oven Dry Tons per Cubic Yards Applied

Percent Solids From Lab Report: 55.46 %  
Cubic Yards of Sludge Applied: 14 Cu. Yd.  
CU. Yds. X 0.8775\* X Percent Solids = 6.81 Dry Tons  
100

\* (Cu Yds 27 Cu. Ft.      65 lbs      Tons)  
(Cu. Yd.                      Cu. Ft.      2000 lbs.)

3. Calculating Plant Available Nitrogen (PAN)

NH3 (Ammonia) from lab report: 5620.9 mg/kg  
NO3 (Nitrate) from lab report: 4.99 mg/kg  
Organic N from report 37,377.7 mg/kg X 0.2= 7,475.54 mg/kg  
PAN equals the sum above 13,101.43 mg/kg

4. Calculating Metals and PAN applied

	Lab Values Mg/kg	Lbs. Per Dry Ton	Dry Tons Applied	Lbs. Applies	Lbs. Per Acre = 40
Copper (CU)	316.40	X 0.002 = .6328	X 14	8.8592	.22148
Nickel (NI)	14.80	X 0.002 = .0296	X 14	.4144	.01036
Lead (PB)	14.90	X 0.002 = .0296	X 14	.4144	.01036
Zinc (ZN)	584.80	X 0.002 = 1.1696	X 14	16.3744	.40936
Chromium (CR)	17.20	X 0.002 = .0344	X 14	.4816	.01204
Cadmium (CD)	1.6	X 0.002 = .0032	X 14	.0448	.00112
PAN	13,101.43	X 0.002 = 26.20286	X 14	366.84004	9.171001
Phosphorus	5961.92	X 0.002 = 11.92384	X 14	166.93376	4.173344
Volatile Solid	55.46	X 0.002 = .11092	X 14	1.55288	.038822
Mercury	.97	X 0.002 = .00194	X 14	.02716	.000679
Arsenic	1.60	X 0.002 = .0032	X 14	.0448	.00112
Nitrite/Nitrogen	39.81	X 0.002 = .07962	X 14	1.11468	.027867
PCB's	.013	X 0.002 = .00026	X 14	.000364	.000091
Selenium	16.0	X 0.002 = .032	X 14	.448	.0112

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NPDES Wastewater Monitoring

Water and Wastewater Analysis

Concrete, Asphalt, and Aggregate Testing

Geotechnical Testing

Industrial and Construction Quality Control

## Melbourne

Collection Date / Time: May 29, 2014

7:00 AM

Collection Place: Sludge Bed #4

Collected By: Coy Dale / KWS

## SLUDGE ANALYSIS

KWS


Parameter	Date / Time Analyzed		Results	Unit	Analyst	Spike %	Rel %	Method
								<i>Analysis complies with 40 CFR Part 136:</i>
Total Solids	05/29	4:00 PM	48.2	%	KLB	NA	2.24	SM 2540B
Volatile Solids	05/29	4:00 PM	40.2	%	KLB	NA	0.05	SM 2540B
pH	05/29	4:30 PM	6.68	S.U.	KLB	NA	0.15	SM 4500HB
Ammonia Nitrogen	06/05	8:45 AM	1968.0	mg/kg	JDR	95.0	0.00	SM 4500 NH3 - F
Total Kjeldahl Nitrogen	06/05	8:45 AM	15809.1	mg/kg	JDR	95.0	0.00	SM 4500 NORG
Phosphorus	06/04	3:30 PM	7897.24	mg/kg	KLB	96.9	0.00	SM 4500 P-E
Nitrate Nitrogen	06/06	11:00 AM	2.76	mg/kg	KLB	93.6	3.91	SM 4500 NO3 - E
Nitrite Nitrogen	06/06	11:00 AM	13.17	mg/kg	KLB	93.6	3.91	SM 4500 NO3 - E
Arsenic	06/16	1:40 PM	< 16.0	mg/kg	KLB	97.7	5.92	SM 3120 B
Cadmium	06/16	1:40 PM	< 0.40	mg/kg	KLB	103.1	6.12	SM 3120 B
Chromium	06/16	1:40 PM	8.40	mg/kg	KLB	102.5	1.60	SM 3120 B
Copper	06/16	1:40 PM	236.00	mg/kg	KLB	99.9	0.22	SM 3120 B
Lead	06/16	1:40 PM	20.40	mg/kg	KLB	99.0	1.65	SM 3120 B
Molybdenum	06/16	1:40 PM	< 1.6	mg/kg	KLB	105.5	0.56	SM 3120 B
Nickel	06/16	1:40 PM	11.20	mg/kg	KLB	92.8	2.70	SM 3120 B
Potassium	06/16	1:40 PM	519.20	mg/kg	KLB	99.2	2.20	SM 3120 B
Selenium	06/16	1:40 PM	< 16.0	mg/kg	KLB	101.8	10.84	SM 3120 B
Zinc	06/16	1:40 PM	373.60	mg/kg	KLB	97.1	0.00	SM 3120 B
Mercury	06/06	2:49 PM	0.10	mg/kg	AI311	107.0	1.160	EPA 7471B
PCB	06/04	10:28 AM	< 0.013	mg/kg	AI306	65.9	12.10	EPA 3550C, 8082A

(PCBs 1016, 1221, 1242, 1248, 1254, 1260, 1262, 1268)

**Quality Assurance:** All Parameters include 10% duplication studies by random selection. The following equipment is checked and calibrated daily: pH meter, balance, incubators, water baths, drying oven and sterilizing apparatus. Ammonia Nitrogen and Oil & Grease Analysis include duplication and spike studies at a rate of at least 10%.

**Notes:** Samples iced at collection. Preserved with H<sub>2</sub>SO<sub>4</sub> to pH<sub>2</sub>; Oil & Grease, Ammonia, COD

15809.1  
- 1968.0  
-----  
13,841.1

  
Neville Adams, Manager



Laboratory Calculation Worksheet  
Melbourne Water and Sewer

Sludge Application Record

Bed# 4

1. Latest Sludge Laboratory Report

Lab Name: Arkansas Testing Lab  
P. O. Box 481, Searcy, AR 72145

Date of Lab Report: May 29, 2014  
Attach Copy of Lab Report

$$\frac{(40.2)(7)(.8775)}{100} = 2.47$$

2. Calculating oven Dry Tons per Cubic Yards Applied

Percent Solids From Lab Report: 40.2 %  
Cubic Yards of Sludge Applied: 7 Cu. Yd.  
CU. Yds. X 0.8775\* X Percent Solids = 2.47 Dry Tons  
100

\* (Cu Yds  $\frac{27 \text{ Cu. Ft.}}{\text{Cu. Yd.}}$   $\frac{65 \text{ lbs.}}{\text{Cu. Ft.}}$   $\frac{\text{Tons}}{2000 \text{ lbs.}}$ )

3. Calculating Plant Available Nitrogen (PAN)

NH3 (Ammonia) from lab report: 1968.0 mg/kg  
NO3 (Nitrate) from lab report: 2.76 mg/kg  
Organic N from report 13,841.1 mg/kg X 0.2 = 2,768.22 mg/kg  
PAN equals the sum above 4,738.98 mg/kg

4. Calculating Metals and PAN applied

	Lab Values Mg/kg	Lbs. Per Dry Ton	Dry Tons Applied	Lbs. Applies	Lbs. Per Acre $\div$ 40
Copper (CU)	236.00	X 0.002 = .472	X 7	3.304	.0826
Nickel (NI)	11.20	X 0.002 = .0224	X 7	.1568	.00392
Lead (PB)	20.40	X 0.002 = .0408	X 7	.2856	.00714
Zinc (ZN)	373.60	X 0.002 = .7472	X 7	5.2304	.13076
Chromium (CR)	8.40	X 0.002 = .0168	X 7	.1176	.00294
Cadmium (CD)	.40	X 0.002 = .0008	X 7	.0056	.00014
PAN	4,738.98	X 0.002 = 9.47796	X 7	66.34572	1.658643
Phosphorus	7,897.24	X 0.002 = 15.79448	X 7	110.56136	2.764034
Volatile Solid	40.2	X 0.002 = .0804	X 7	.5628	.01407
Mercury	.10	X 0.002 = .0002	X 7	.0014	.000035
Arsenic	16.0	X 0.002 = .032	X 7	.224	.0056
Nitrite/Nitrogen	13.17	X 0.002 = .02634	X 7	.18438	.0046095
PCB's	.013	X 0.002 = .000026	X 7	.000182	.00000455
Selenium	16.0	X 0.002 = .032	X 7	.224	.0056

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NPDES Wastewater Monitoring

Water and Wastewater Analysis

Concrete, Asphalt, and Aggregate Testing

Geotechnical Testing

Industrial and Construction Quality Control

## Melbourne

Collection Date / Time: February 14, 2014

7:00 AM

Collection Place: **SLUDGE BED - BED 3 & 4 COMPOSITE**

## SLUDGE ANALYSIS

Collected By: Coy Dale / KWS

KWS

Parameter	Date / Time Analyzed		Results	Unit	Analyst	Spike %	Rel %	Method
<i>Analysis complies with 40 CFR Part 136:</i>								
Total Solids	02/17	1:00 PM	4.88	%	KLB	NA	2.05	SM 2540B
Volatile Solids	02/17	1:00 PM	63.89	%	KLB	NA	8.70	SM 2540B
pH	02/17	1:30 PM	12.97	S.U.	KLB	NA	0.15	SM 4500HB
Ammonia Nitrogen	02/18	10:00 AM	3647.5	mg/kg	JDR	101.4	0.37	SM 4500 NH3 - F
Total Kjeldahl Nitrogen	02/18	10:00 AM	45594.3	mg/kg	JDR	101.4	0.37	SM 4500 NORG
Phosphorus	02/20	11:30 AM	4621.20	mg/kg	KLB	98.8	3.10	SM 4500 P-E
Nitrate Nitrogen	02/18	9:45 AM	19.87	mg/kg	KLB	108.6	6.04	SM 4500 NO3 - E
Nitrite Nitrogen	02/18	9:45 AM	< 4.10	mg/kg	KLB	108.6	6.04	SM 4500 NO3 - E
Arsenic	03/05	12:13 PM	7.20	mg/kg	KLB	98.4	0.12	SM 3120 B
Cadmium	03/05	12:13 PM	< 0.4	mg/kg	KLB	99.0	2.27	SM 3120 B
Chromium	03/05	12:13 PM	9.20	mg/kg	KLB	98.5	0.33	SM 3120 B
Copper	03/05	12:13 PM	361.90	mg/kg	KLB	92.6	0.12	SM 3120 B
Lead	03/05	12:13 PM	44.50	mg/kg	KLB	95.8	0.35	SM 3120 B
Molybdenum	03/05	12:13 PM	2.70	mg/kg	KLB	98.3	0.05	SM 3120 B
Nickel	03/05	12:13 PM	16.70	mg/kg	KLB	94.1	1.09	SM 3120 B
Potassium	03/05	12:13 PM	1746.00	mg/kg	KLB	100.9	1.59	SM 3120 B
Selenium	03/05	12:13 PM	< 4.0	mg/kg	KLB	98.6	3.87	SM 3120 B
Zinc	03/05	12:13 PM	1425.00	mg/kg	KLB	102.3	1.36	SM 3120 B
Mercury	02/18	3:40 PM	0.36	mg/kg	AI311	96.4	0.270	EPA 7471B
PCB	02/20	2:30 PM	< 0.25	mg/kg	AI306	42.1	6.11	EPA 3550C, 8082A

(PCBs 1016, 1221, 1242, 1248, 1254, 1260, 1262, 1268)

**Quality Assurance:** All Parameters include 10% duplication studies by random selection. The following equipment is checked and calibrated daily: pH meter, balance, incubators, water baths, drying oven and sterilizing apparatus. Ammonia Nitrogen and Oil & Grease Analysis include duplication and spike studies at a rate of at least 10%.

**Notes:** Samples iced at collection. Preserved with H<sub>2</sub>SO<sub>4</sub> to pH<sub>2</sub>: Oil & Grease, Ammonia, COD

  
Neville Adams, Manager

45594.3  
- 3647.5  
-----  
41,946.8

Laboratory Calculation Worksheet  
Melbourne Water and Sewer

Sludge Application Record

Bed# 334

1. Latest Sludge Laboratory Report

Lab Name: Arkansas Testing Lab  
P. O. Box 481, Searcy, AR 72145

Date of Lab Report: February 14, 2014  
Attach Copy of Lab Report

2. Calculating oven Dry Tons per Cubic Yards Applied

Percent Solids From Lab Report: 63.89 %  
Cubic Yards of Sludge Applied: 14 Cu. Yd.  
CU. Yds. X 0.8775\* X Percent Solids = 7.85 Dry Tons  
100

\* (Cu Yds 27 Cu. Ft.      65 lbs      Tons)  
(Cu. Yd.                  Cu. Ft.      2000 lbs.)

3. Calculating Plant Available Nitrogen (PAN)

NH3 (Ammonia) from lab report: 3647.5 mg/kg  
NO3 (Nitrate) from lab report: 19.87 mg/kg  
Organic N from report 41,946.8 mg/kg X 0.2= 8,389.36 mg/kg  
PAN equals the sum above 12,056.73 mg/kg

4. Calculating Metals and PAN applied

	Lab Values Mg/kg	Lbs. Per Dry Ton	Dry Tons Applied	Lbs. Applies	Lbs. Per Acre ÷
Copper (CU)	361.90	X 0.002 = .7238	X 14	10,1332	,25333
Nickel (NI)	16.70	X 0.002 = .0334	X 14	,4676	,01169
Lead (PB)	44.50	X 0.002 = ,089	X 14	1,246	,03115
Zinc (ZN)	1425.00	X 0.002 = 2.85	X 14	39.9	,9975
Chromium (CR)	9.20	X 0.002 = ,0184	X 14	,2576	,00644
Cadmium (CD)	.4	X 0.002 = ,0008	X 14	,0112	,00028
PAN	12,056.73	X 0.002 = 24.11346	X 14	337,58844	8.439711
Phosphorus	4,621.20	X 0.002 = 9.2424	X 14	129,3936	3,23484
Volatile Solid	63.89	X 0.002 = ,12778	X 14	1,78892	,044723
Mercury	.36	X 0.002 = ,00072	X 14	,01000	,000252
Arsenic	7.20	X 0.002 = ,0144	X 14	,2016	,00504
Nitrite/Nitrogen	4.10	X 0.002 = ,0082	X 14	,1148	,00287
PCB's	.25	X 0.002 = ,0005	X 14	,007	,000175
Selenium	4.0	X 0.002 = ,008	X 14	,112	,0028

40



# Sludge Applied

Date	Time	Hours Mixed	P.H.	Lime	Field Applied	Name
11-1-14	7:00 A.M.	2	11	1	Ben Cooper	Dustin Payne
11-1-14	9:35	2	11	1	B. Cooper	Dustin Payne
11-1-14	12:10	2	11	1	B. Cooper	Dustin Payne
11-1-14	2:30	2	12	1	B. Cooper	Dustin Payne
11-1-14	5:20	2	12	1	B. Cooper	Dustin Payne
11-3-14	8:00 A.M.	2	12	1	B. Cooper	Dustin Payne
11-3-14	10:45	2	12	1	B. Cooper	Dustin Payne
12-15-14	8:00 A.M.	2	12	1	B. Cooper	Dustin Payne
12-15-14	10:45	2	11	1	B. Cooper	Dustin Payne
12-15-14	1:45	2	11	1	B. Cooper	Dustin Payne
12-15-14	4:45	2	12	1	B. Cooper	Dustin Payne
12-16-14	7:00 AM	2	12	1	<del>Ben</del> Soda E	Paul Cooper
12-16-14	9:30	2	12	1	Soda E	Paul Cooper
12-16-14	12:10	2	12	1	Soda E	Paul Cooper
12-16-14	2:45	2	11	1	Soda E	Paul Cooper
12-17-14	7:00 AM	2	12	1	Soda E	Paul Cooper
12-17-14	9:35	2	12	1	Soda E	Paul Cooper

1500 Gal  
Per road

### Sludge Applied

Date	Time	Hours Mixed	P.H.	Lime	Field Applied	Name
7-19-14	8:00	2	12	1	B. Cooper	Dustin P.
7-19-14	10:40	2	11	1	B. Cooper	Dustin
7-19-14	1:30	2	13	1	B. Cooper	Dustin
7-23-14	7:30	2	12	1	Soda w	Paul
7-23-14	10:10	2	12	1	Blackwell	Paul
7-23-14	12:45	2	13	1	Blackwell	Paul
7-23-14	3:30	2	13	1	R S w	Paul
9-22-14	10:00	2	11	1	B. Cooper	Dustin
9-22-14	12:45	2	12	1	B. Cooper	Dustin
9-22-14	3:30	2	11	1	B. Cooper	Dustin
9-22-14	7:00	2	11	1	B. Cooper	Dustin
9-23-14	9:00	2	12	1	B. Cooper	Dustin
9-23-14	11:45	2	12	1	B. Cooper	Dustin
9-24-14	10:00	2	11	1	B. Cooper	Dustin
9-24-14	1:15	2	12	1	B. Cooper	Dustin
9-24-14	4:45	2	12	1	B. Cooper	Dustin
10-31-14	4:20	2	12	1	B. Cooper	Dustin

## Sludge Applied

Date	Time	Hours Mixed	P.H.	Lime	Field Applied	Name
6-27-14	3:00	2	13	1	RJ w	Paul
7-1-14	8:30	2	13	1	Soda <del>W</del>	Paul
7-1-14	11:15	2	13	1	RJ w	Paul
7-4-14	7:00	2	12	1	B. Cooper	Dustin
7-4-14	9:45	2	12	1	B. Cooper	Dustin
7-4-14	12:30	2	12	1	B. Cooper	Dustin
7-4-14	3:30	2	12	1	B. Cooper	Dustin
7-9-14	10:00	2	13	1	B. Cooper	Dustin
7-9-14	12:45	2	13	1	B. Cooper	Dustin
7-12-14	7:00	2	13	1	B. Cooper	Dustin
7-12-14	9:35	2	13	1	B. Cooper	Dustin
7-12-14	12:15	2	13	1	B. Cooper	Dustin
7-12-14	3:45	2	13	1	B. Cooper	Dustin
7-14-14	7:30	2	13	1	RJ w	Paul
7-14-14	10:15	2	13	1	RJ w	Paul
7-14-14	1:00	2	13	1	RJ w	Paul
7-15-14	7:30	2	12	1	Soda w	Paul
7-15-14	10:15	2	13	1	Soda w	Paul
7-15-14	1:05	2	13	1	Brookwell	Paul
7-15-14	3:30	2	13	1	Brookwell	Paul

# Sludge Applied

Date	Time	Hours Mixed	P.H.	Lime	Field Applied	Name
5-20-14	8:20	2	13	1	B. Cooper	Dustin
5-28-14	8:30	2	13	1	B. Cooper	Dustin
5-28-14	1:30	4	13	1	B. Cooper	Dustin
6-16-14	12:00	2	13	1	B. Cooper	Dustin
6-16-14	2:45	2	13	1	B. Cooper	Dustin
6-16-14	3:35	2	13	1	B. Cooper	Dustin
6-17-14	12:00	2	13	1	B. Cooper	Dustin
6-17-14	3:00	2	13	1	B. Cooper	Dustin
6-24-14	7:30	2	13	1	R J West	Paul
6-24-14	10:15	2	12	1	R J West	Paul
6-24-14	12:45	2	13	1	R J West	Paul
6-24-14	3:30	2	13	1	R J West	Paul
6-25-14	7:30	2	13	1	Soda w	Paul
6-25-14	10:00	2	13	1	Soda w	Paul
6-27-14	7:30	2	13	1	Soda w	Paul
6-27-14	10:05	2	13	1	RS w	Paul
6-27-14	12:35	2	13	1	RS w	Paul



# Sludge Applied

Date	Time	Hours Mixed	P.H.	Lime	Field Applied	Name
5-6-14	5:40	2	10	1	Brookwell	Paul
5-7-14	7:30	2	11	1	Soda w	Paul
5-7-14	10:10	2	10	1	Brookwell	Paul
5-7-14	12:45	2	11	1	Brookwell	Paul
5-7-14	3:15	2	12	1	Brookwell	Paul
5-7-14	5:45	2	11	1	Brookwell	Paul
5-8-14	7:30	2	12	1	Soda E	Paul
5-8-14	10:00	2	12	1	soda E	Paul
5-8-14	12:35	2	12	1	RT w	Paul
5-8-14	3:05	2	11	1	Soda E	Paul
5-8-14	5:30	2	11	1	RT w	Paul
5-12-14	7:30	2	12	1	RT w	Paul
5-19-14	2:00	2	12	1	B. Cooper	Dustin
5-19-14	5:00	2	12	1	B. Cooper	Dustin
5-20-14	12:00	2	12	1	B. Cooper	Dustin <del>Paul</del>
5-20-14	2:45	2	12	1	B. Cooper	Dustin
5-20-14	5:45	2	12	1	B. Cooper	Dustin

# Sludge Applied

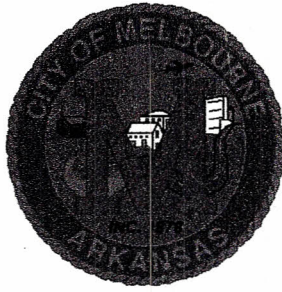
Date	Time	Hours Mixed	P.H.	Lime	Field Applied	Name
4-24-14	7:30	2	12	1	Soda E	Paul
4-24-14	10:10	2	12	1	Soda E	Paul
4-24-14	12:45	2	12	1	Soda E	Paul
4-24-14	3:35	2	11	1	Soda E	Paul
4-24-14	6:05	2	12	1	Soda E	Paul
4-25-14	7:30	2	12	1	Soda E	Paul
4-25-14	10:05	2	12	1	Soda E	Paul
4-25-14	12:30	2	12	1	Soda E	Paul
4-25-14	3:12	2	12	1	Soda E	Paul
4-25-14	4:45	2	12	1	Soda E	Paul
4-29-14	7:30	2	12	1	Brookwell	Paul
4-29-14	10:10	2	12	1	Brookwell	Paul
4-29-14	12:40	2	12	1	RJ West	Paul
5-6-14	7:30	2	12	1	Brookwell	Paul
5-6-14	10:15	2	12	1	Brookwell	Paul
5-6-14	12:40	2	12	1	Soda W	Paul
5-6-14	3:10	2	12	1	Soda W	Paul

## Sludge Applied

Date	Time	Hours Mixed	P.H.	Lime	Field Applied	Name
1-18-14	8:00	2	12	1	Ben Cooper	Dustin
1-18-14	10:45	2	13	1	B. Cooper	Dustin
1-18-14	11:15	2	12	1	B. Cooper	Dustin
1-18-14	3:45	2	12	1	B. Cooper	Dustin
1-18-14	6:15	2	12	1	B. Cooper	Dustin
1-19-14	8:00	2	12	1	B. Cooper	Dustin
1-19-14	10:45	2	11	1	B. Cooper	Dustin
1-28-14	10:00	2	12	1	B. Cooper	Dustin
1-28-14	12:45	2	12	1	B. Cooper	Dustin
1-28-14	3:15	2	12	1	B. Cooper	Dustin
2-1-14	7:30	2	11	1	B. Cooper	Dustin
2-1-14	10:00	2	11	1	B. Cooper	Dustin
2-1-14	12:45	2	11	1	B. Cooper	Dustin
2-1-14	3:30	2	11	1	B. Cooper	Dustin
2-20-14	10:00	2	12	1	B. Cooper	Dustin Payne
3-11-14	10:00	2	12	1	B. Cooper	Dustin
3-11-14	12:45	2	12	1	B. Cooper	Dustin

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray




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**Council Members:**  
William Wright  
Jerry Crosby  
Paul Womack  
Trey Lamb  
Ronnie Treat  
Laura Sipe  
Sonia Blankenship  
Warren Smith

To Whom It May Concern:

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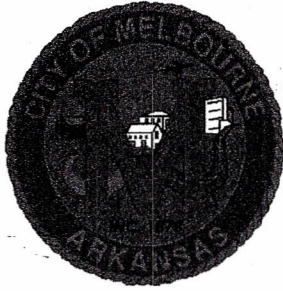
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

2-20-14  
\_\_\_\_\_  
Date

1 Number of Loads

**Mayor:**  
Rhonda Halbrook

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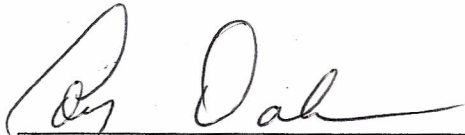
  
Coy Dale, Water & Sewer Super.

2-1-14  
Date

4 Number of Loads

To Whom It May Concern:

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Coy Dale, Water & Sewer Super.

1-28-14

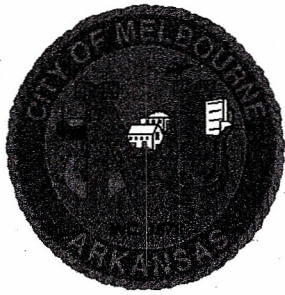
Date

3

Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray



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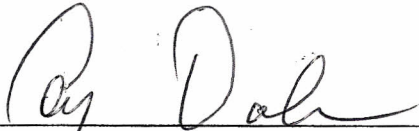
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

1-19-14  
\_\_\_\_\_  
Date

2 Number of Loads

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---

Coy Dale, Water & Sewer Super.

1-18-14

---

Date

5

Number of Loads



**Mayor:**  
Shannon Womack

**Recorder/Treasurer:**  
Alecia K. Bray

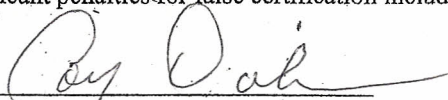


**Council Members:**  
William Wright  
Jerry Crosby  
Warren Smith  
Trey Lamb  
Ronnie Treat  
Lee Melton  
John Allen Engelhardt

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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

12-17-14  
\_\_\_\_\_  
Date

5 Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray




**Council Members:**  
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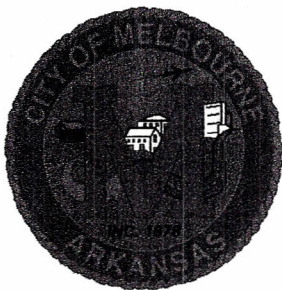
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

12-16-14  
\_\_\_\_\_  
Date

4 Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray

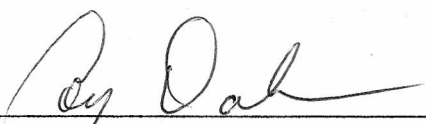


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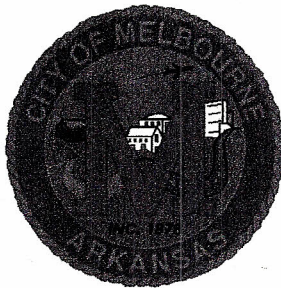
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

12-15-14  
\_\_\_\_\_  
Date

4 Number of Loads

**Mayor:**  
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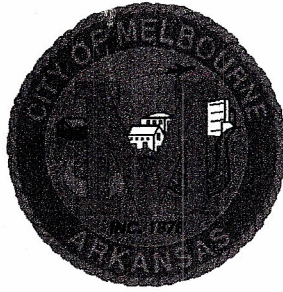
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

11-3-14  
\_\_\_\_\_  
Date

2 Number of Loads

**Mayor:**  
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**Recorder/Treasurer:**  
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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

11-1-14  
\_\_\_\_\_  
Date

5 Number of Loads

**Mayor:**  
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*Coy Dale*

\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

*10-31-14*

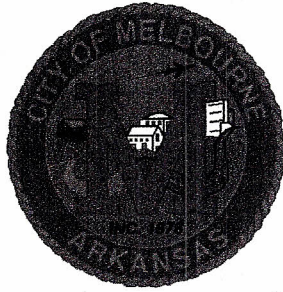
\_\_\_\_\_  
Date

*1*

\_\_\_\_\_  
Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray



**Council Members:**  
William Wright  
Jerry Crosby  
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A handwritten signature in blue ink, appearing to read "Coy Dale", is written over a horizontal line.

Coy Dale, Water & Sewer Super.

A handwritten date "9-24-14" in blue ink is written over a horizontal line.

Date

3

Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray



P.O. Box 800  
Melbourne, AR 72556  
Phone: (870) 368-4215  
Fax: (870) 368-4721  
[Cityofmelbourne@centurytel.net](mailto:Cityofmelbourne@centurytel.net)

**Council Members:**  
William Wright  
Jerry Crosby  
Paul Womack  
Trey Lamb  
Ronnie Treat  
Laura Sipe  
Sonia Blankenship  
Warren Smith

To Whom It May Concern:

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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

9-23-14

\_\_\_\_\_  
Date

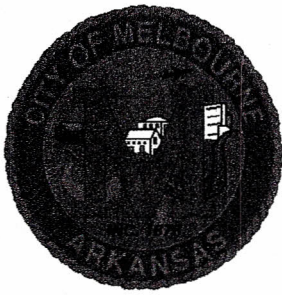
2

\_\_\_\_\_  
Number of Loads



**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray



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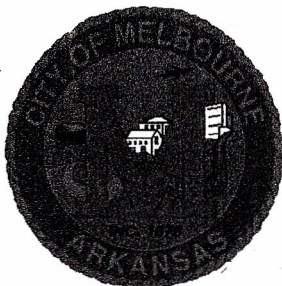
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

9-22-14  
\_\_\_\_\_  
Date

4 Number of Loads

**Mayor:**  
Rhonda Halbrook


**Recorder/Treasurer:**  
Alecia K. Bray



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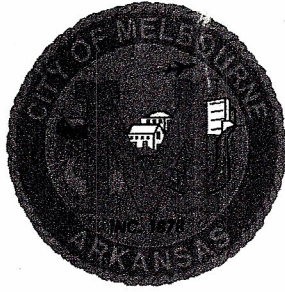
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

7-23-14  
\_\_\_\_\_  
Date

4 Number of Loads

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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

7-19-14  
\_\_\_\_\_  
Date

3 Number of Loads

**Mayor:**  
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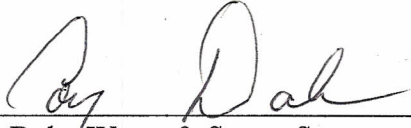


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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

7-15-14  
\_\_\_\_\_  
Date

4 Number of Loads

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A handwritten signature in cursive script, appearing to read "Coy Dale", is written over a horizontal line.

Coy Dale, Water & Sewer Super.

A handwritten date "7-14-14" is written in blue ink over a horizontal line.

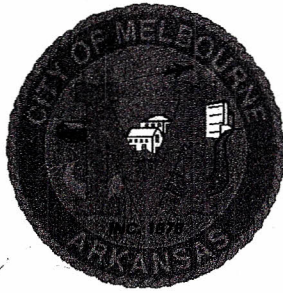
Date

3

Number of Loads

**Mayor:**  
Rhonda Halbrook

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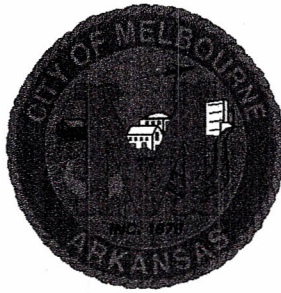
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

7-12-14  
\_\_\_\_\_  
Date

4 Number of Loads

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A handwritten signature in cursive script, appearing to read "Coy Dale", is written over a horizontal line.

Coy Dale, Water & Sewer Super.

A handwritten date "7-9-14" is written in blue ink over a horizontal line.

Date

A handwritten number "2" is written in blue ink over a horizontal line.

Number of Loads

**Mayor:**  
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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

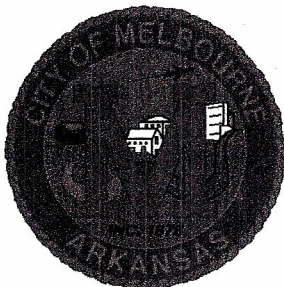
7-4-14  
\_\_\_\_\_  
Date

4 Number of Loads



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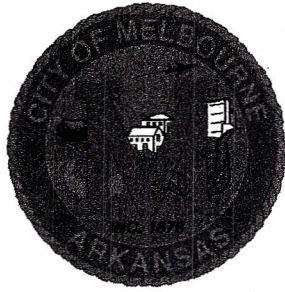
  
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Coy Dale, Water & Sewer Super.

7-1-14  
\_\_\_\_\_  
Date

2 Number of Loads

**Mayor:**  
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Coy Dale, Water & Sewer Super.

6-27-14

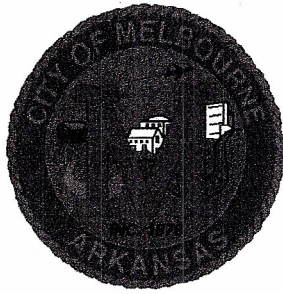
Date

4

Number of Loads

**Mayor:**  
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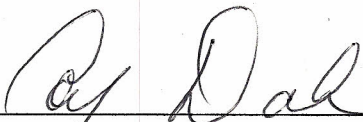


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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

6-25-14  
\_\_\_\_\_  
Date

2 Number of Loads

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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

6-24-14  
\_\_\_\_\_  
Date

4 Number of Loads

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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

6-17-14  
\_\_\_\_\_  
Date

2 Number of Loads

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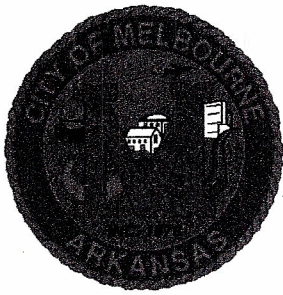
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

6-16-14  
\_\_\_\_\_  
Date

3 Number of Loads

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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

5-28-14  
\_\_\_\_\_  
Date

2 Number of Loads

**Mayor:**

**Council Members:**

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Coy Dale, Water & Sewer Super.

5-20-14

Date

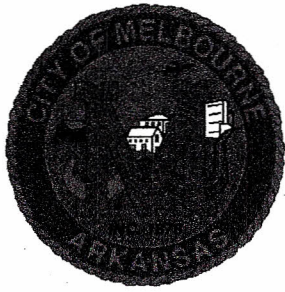
4

Number of Loads



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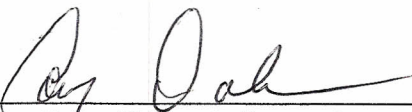


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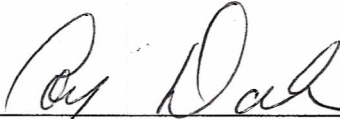
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

5-19-14  
\_\_\_\_\_  
Date

2 Number of Loads

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\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

5-12-14

\_\_\_\_\_  
Date

  1   Number of Loads

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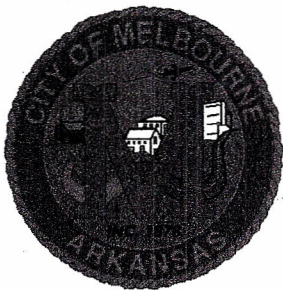
  
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Coy Dale, Water & Sewer Super.

5-8-14  
\_\_\_\_\_  
Date

5 Number of Loads

**Mayor:**  
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Coy Dale, Water & Sewer Super.

5-7-14

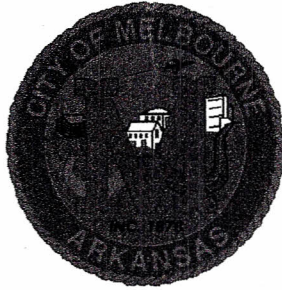
Date

5

Number of Loads

**Mayor:**  
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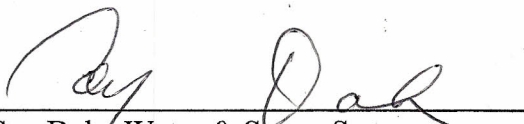


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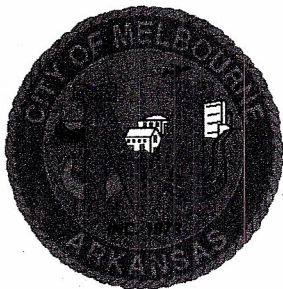
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

5-6-14  
\_\_\_\_\_  
Date

5 Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray




**Council Members:**  
William Wright  
Jerry Crosby  
Paul Womack  
Trey Lamb  
Ronnie Treat  
Laura Sipe  
Sonia Blankenship  
Warren Smith

P.O. Box 800  
Melbourne, AR 72556  
Phone: (870) 368-4215  
Fax: (870) 368-4721  
[Cityofmelbourne@centurytel.net](mailto:Cityofmelbourne@centurytel.net)

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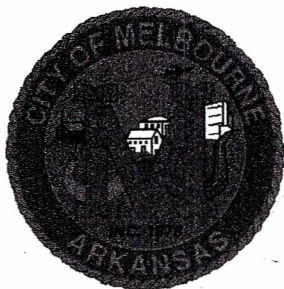
  
\_\_\_\_\_  
Coy Dale, Water & Sewer Super.

4-29-14  
\_\_\_\_\_  
Date

3 Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray



**Council Members:**  
William Wright  
Jerry Crosby  
Paul Womack  
Trey Lamb  
Ronnie Treat  
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A handwritten signature in cursive script, appearing to read "Coy Dale", is written over a horizontal line.

Coy Dale, Water & Sewer Super.

4-25-14

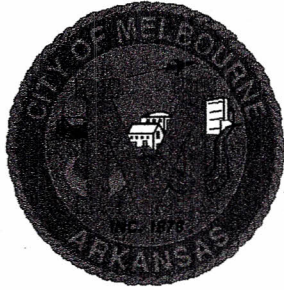
Date

5

Number of Loads

**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray



**Council Members:**  
William Wright  
Jerry Crosby  
Paul Womack  
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A handwritten signature in cursive script, appearing to read "Coy Dale", written over a horizontal line.

Coy Dale, Water & Sewer Super.

A handwritten date "4-24-14" written in a simple, bold style, positioned above a horizontal line.

Date

5

Number of Loads



**Mayor:**  
Rhonda Halbrook

**Recorder/Treasurer:**  
Alecia K. Bray



**Council Members:**  
William Wright  
Jerry Crosby  
Paul Womack  
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A handwritten signature in cursive script, appearing to read "Coy Dale", is written over a horizontal line.

Coy Dale, Water & Sewer Super.

3-11-14

Date

2

Number of Loads