

ADEQ

ARKANSAS
Department of Environmental Quality

AFIN: _____	Permit No.: <u>AR0020036</u>
Date: <u>06/07/05</u>	By: <u>MO</u>
Project: <u>MELBOURNE</u>	
Sheet <u>1</u> of <u>1</u>	

Printed on recycled content paper
ADEQ Employee Garbage Grid Pad - revised 2002

Resp. to MO comments

- PN : - add "and"
 - add 3. footnote has been revised

this language has been changed (since I drafted this permit)

Kevin's note: from my conversation with MO, I do not need to add 3 year sch. of compliance. please let me know if this has changed

SoB - p. 6 CBOD5 } MO, you are correct. Need to change Nov - April to 25/40 ug/L
 How you can issue a permit with less stringent limit change $11 \pm 2 \rightarrow 25/40$ ug/L

122.44(d) ? p. 7 - copy this section to permit plan Part 1B

If Amy is wrong then we have to ask her to correct the w/dmp or we need an explanation in permit why?

PERMIT - p. 1.
 - change DO language
 - change CBOD5 Nov - April to 25/40 85.5#

List as change in SoB & PN

NPDES PERMIT FILE
 NPDES # AR0020036
 AFIN # 33-00026
 Permit PN
 Correspondence
 Technical Backup
 5/14/05 Date Scanned

CORRECTED 06/08/05
to E: drive 06/14/05

ONE MISTAKE (CBOD OF 30/45 ug/L)
ALL OTHER EDITORIAL COMMENTS!

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY NPDES AUTHORIZATION
TO DISCHARGE TO WATERS OF THE STATE, PERMIT NUMBER AR0020036**

This is to give notice that the Arkansas Department of Environmental Quality has developed a Draft Permit for the following applicant under the National Pollutant Discharge Elimination System and the Arkansas Water and Air Pollution Control Act.

City of Melbourne
P. O. Box 278
Melbourne, AR 72556

The discharge from this facility is made into Mill Creek, thence to Piney Creek, thence to the White River in Segment 4F of the White River Basin. The receiving stream is a Water of the State classified for primary contact recreation; raw water source for public, industrial; and agricultural water supplies, propagation of desirable species of fish and other aquatic life; and other compatible uses. The facility is located as follows: west of Manning Hardwood Flooring and 0.3 miles west of Melbourne on Highway 9 Spur; Latitude: 36° 03' 31"; Longitude: 91° 55' 34" in Section 11, Township 16 North, Range 9 West in IZARD County, Arkansas, and the outfall is located at the following coordinates: Latitude: 36° 03' 33" Longitude: 91° 55' 39". Sludge is land applied on 30 acres in Section 10, Range 9 West, Township 16 North. Type of treatment: bar screen, oxidation ditch, clarifier, chlorinator, dechlorinator, cascade post aeration. Under the standard industrial classification (SIC) code 4952, the applicant's activities are the operation of a municipal treatment plant.

Changes from the previously issued permit are as follows:

1. The coordinates for Outfall 001 have corrected.
2. A narrative description has been expanded.
3. The effluent limitations for DO have been expressed as minimum monthly average.
4. The effluent limitations for pH have been changed from 6-9 s.u. to 6.0-9.0 s.u.
5. The 7-Day Average effluent limitations for Ammonia-Nitrogen have been changed.
6. The Monthly Average effluent limitations for Ammonia-Nitrogen have been replaced with M&R.
7. Parts II, III, and IV have been revised.

8. Footnote in regard to sample location has been revised.

The permit will become effective on or after

unless:

Handwritten notes:
? should not
- they will
37 AS
of flow

Comments are received and/or public hearing is requested prior to _____, in which case the permit will be effective on or after _____.

The ADEQ contact person for submitting written comments, requesting information regarding the draft permits, and/or obtaining copies of the permit and the Statement of Basis is:

Marysia Jastrzebski, P.E.
NPDES Branch, Water Division
Arkansas Department of Environmental Quality
Post Office Box 8913
Little Rock, Arkansas 72219-8913
(501) 682-0622

NPDES comments and public hearing procedures may be found at 40 CFR 124.10 through 124.12. The period during which written comments on the draft permit may be submitted extends for 30 days from the date of this notice. During the comment period, any interested person may request a public hearing by filing a written request which must state the technical issues to be raised. A public hearing will be held if ADEQ finds a significant degree of public interest.

ADEQ will notify the applicant and each person who has submitted written comments or requested notice of the final permit decision. A final permit decision means a final decision to issue, deny, modify, revoke and reissue, or terminate a permit. Any interested person who has submitted comments may appeal a final decision by ADEQ in accordance with the Arkansas Department of Environmental Quality Regulation No. 8 (Administrative Procedures).

Handwritten initials:
CMM
5/22

DRAFT

12. Total Residual Chlorine (TRC) Requirements

No measurable which is defined as less than 0.1 mg/l is continued from the previous permit.

13. Final Limitations

The following effluent limitations or "report" requirements were placed in the permit based on the more stringent of the technology-based, water quality-based or previous NPDES permit limitations:

Parameter	Water Quality-Based		Technology-Based/BPJ		Previous NPDES Permit		Draft Permit	
	Monthly Avg. mg/l	7-day Avg. mg/l	Monthly Avg. mg/l	7-day Avg. mg/l	Monthly Avg. mg/l	7-day Avg. mg/l	Monthly Avg. mg/l	7-day Avg. mg/l
CBOD5								
(May-Oct)	10	15	25	40	10	15	10	15
(Nov-Apr)	30	45	25	40	30	45	30	45
TSS								
(May-Oct)	15	23	30	45	15	23	15	23
(Nov-Apr)	30	45	30	45	30	45	30	45
NH3-N								
April	<i>Report</i> M&R	3.9	N/A	N/A	12	18	<i>Report</i> M&R	3.9
(May-Oct)	M&R	3.9	N/A	N/A	4	6	M&R	3.9
(Nov-March)	M&R	10.3	N/A	N/A	12	18	M&R	10.3
Dissolved Oxygen	6.0 Min	N/A	N/A		6.0 Inst. Min		6.0 Min	N/A
FCB (col/100ml)								
(Apr-Sept)	200	400	N/A	N/A	200	400	200	400
(Oct-Mar)	1000	2000	N/A	N/A	1000	2000	1000	2000
TRC (Inst. Max)	N/A		< 0.1 mg/l		< 0.1 mg/l		< 0.1 mg/l	
pH	6.0-9.0 s.u.		6.0-9.0 s.u.		6-9 s.u.		6.0-9.0 s.u.	

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14. Sample Type and Sampling Frequency

Regulations promulgated at 40 CFR 122.44(i) require permit to establish monitoring requirements which assure compliance with permit limitations. Requirements for sample type and sampling frequency have been based on the current NPDES permit.

15. Changes from the previously issued permit

1. The coordinates for Outfall 001 have corrected.
2. A narrative description has been expanded.
3. The effluent limitations for DO have been expressed as minimum monthly average.
4. The effluent limitations for pH have been changed from 6-9 s.u. to 6.0-9.0 s.u.
5. The 7-Day Average effluent limitations for Ammonia-Nitrogen have been changed.
6. The Monthly Average effluent limitations for Ammonia Nitrogen have been replaced with M&R.
7. Parts II, III, and IV have been revised.

16. SCHEDULE OF COMPLIANCE

Compliance with final effluent limitations is required by the following schedule:

Compliance is required on the effective date of the permit.

Please put this under Ammonia Section

The draft permit includes the revised – more stringent 7-Day Average effluent limitations for Ammonia Nitrogen. However, a review of the DMR data indicates that the existing wastewater treatment plant is capable of meeting the proposed limits on a consistent basis. Therefore, no schedule of compliance will be included in the permit and compliance with the final limitations for NH₃-N will be required on the effective date of the permit (See CPP, Appendix D, Section VII, page D-43).

17. MONITORING AND REPORTING.

The applicant is at all times required to monitor the discharge on a regular basis; and report the results monthly. The monitoring results will be available to the public.

18. SOURCES.

The following sources were used to draft the permit:

- a. NPDES application No. AR0020036 received 11/08/2004.
- b. Arkansas Water Quality Management Plan(WQMP).
- c. Regulation No. 2.
- d. Regulation No. 6.
- e. 40 CFRs 122, 125, 133 and 403.

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Permit number: AR0020036
Page 1 of Part IA

PART I PERMIT REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 001-treated municipal wastewater

During the period beginning on effective date and lasting until date of expiration, the permittee is authorized to discharge from outfall serial number 001. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Discharge Limitations			Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)	Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
		Monthly Avg.	Monthly Avg.		
Flow ¹	N/A	Report	Report	Five/week	Instantaneous
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)					
(May-Oct)	34	10	15	Two/month	Grab
(Nov-Apr)	103	30	45	Two/month	Grab
Total Suspended Solids (TSS)					
(May-Oct)	51	15	23	Two/month	Grab
(Nov-Apr)	103	30	45	Two/month	Grab
Ammonia Nitrogen (NH ₃ -N)					
(April-Oct)	Report	Report	3.9	Two/month	Grab
(Nov-March)	Report	Report	10.3	Two/month	Grab
Dissolved Oxygen ²	N/A	6.0, Min.	N/A	Two/month	Grab
Fecal Coliform Bacteria (FCB)		(colonies/100ml)			
(Apr-Sept)	N/A	200	400	Two/month	Grab
(Oct-Mar)	N/A	1000	2000	Two/month	Grab
Total Residual Chlorine (TRC) ³	N/A	<0.1 mg/l (Inst. Max.)		Two/month	Grab
pH	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	Two/month	Grab

1 Report monthly average and daily maximum as MGD.

2 ~~Monthly average minimum Dissolved Oxygen must be equal or exceed the permit limit at all times.~~

3 See Condition No. 8 of Part III. (TRC Condition)

*See Part IV item
27*

There shall be no discharge of distinctly visible solids, scum or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits or sludge banks. No visible sheen (Sheen means an iridescent appearance on the surface of the water).

Samples taken in compliance with the monitoring requirements specified above for all parameters except flow shall be taken at the discharge from the final treatment unit (cascade post aeration). Flow shall be measured prior to the cascade post aeration.