Arkansas Department of Environmental Quality Water Quality Management Plan Update Summary Sheet

	Date:	February 15, 20	013		
New Permit	\boxtimes	Renewal Permi	it	Amended Permit	
Type of Discharge:	Minor Municipal				
Facility Name:	City of Mountain	View			
Permit No.:	AR0020117				
Design Flow Rate (MGD): 0.73 MGD					
Receiving Stream:	Hughes				
HUC + Reach Code:	11010004+10		7Q10:	0 cfs	
Planning Segment: 4F County: Stone					
Proposed Effluent Limits in mg/L (CBOD5/TSS/NH3-N/DO):					
(May-Oct): 10.0/15.0/3.9/6.0 (Nov-March): 10.0/15.0/10.0/7.0					

TMDL Limits (if any):

•

No

Current Effluent Limits in mg/L (CBOD5/TSS/NH3-N/DO):

(April): 10.0/15.0/3.9/7.0

(May-Oct): 10.0/15.0/3.9/6.0 (Nov-March): 10.0/15.0/10.0/7.0 (April): 10.0/15.0/3.9/7.0

Outfall Location (Lat/Long): 35° 51' 57.32" N; 92° 08' 42.54" W

Remarks: This is for the reissuance of the discharge permit for this existing facility. No changes to effluent limits are recommended at this time.

Animorna varvulations	Ammonia	Calculations
-----------------------	---------	--------------

Facility Name	City of Mountain View				Arkansas River
Major or Minor	Minor				Arkansas River Valley
Permit Number	AR0020117				Boston Mountains
Receiving Stream	Hughes Creek	Ecoregion or River name	Ozark Highlands		Delta
7Q10, cfs	0	Watershed area (mi ²)	1		Gulf Coastal Plains
0.25/0.67 multiplier	0.67	Regulation No. 2 Chronic	Toxicity Critieria (Instream Co	incentration)	Ouachita Mountains
Qb, cfs	0.00		AML, mg/l	DML, mg/l	Ouachita River (L. Mo. to Mouth)
Qe, MGD	0.73	April	3.9	3.9	Ozark Highlands
Qe, cfs	1.13	May - October	3.9	3.9	Red River
Cb, mg/l	0	November - March	10.3	10.3	White River (Dam #10 Mouth)

Allowable Effluent Conc., mg/l

(Qe * Ce) + (Qb* Cb) = (Qe + Qb) * iWC

Allowable Effluent Conc. (Ce), mg/l

1

Qe	Effluent Flow	Ce = (IWC (Qe + Qb) - Cb X Qb) / Qe			
Ce	Allowable Effluent Concentration		Monthly Avg.,mg/l	Daily Max, mg/l	
Qb	% of Low Flow of Receiving Stream	April	3.90	3.90	
Cb	Background Concentration	May - October	3.90	3.90	
IWC	Instream Waste Concentration Chronic Toxicity Criteria	November - March	10.30	10.30	

Chronic Toxicity Criteria vs. D.O. Model Limits

	Monthly Average, mg/l		Permit Limits	Daily Maximum,mg/I		Permit Limits
Month	Toxicity limit	D.O. limit		Toxicity limit	D.O. limit	
April	3.90	3.9	3.90	3.90	5.85	3.90
May - October	3.90	3.9	3.90	3.90	5.85	3.90
November - March	10.30	10	10.00	10.30	15	10.30