

December 30, 2013

Larry Dunaway, Public Works Director City of Nashville 426 North Main Street Nashville, AR 71852

RE:	Compliance Inspections (H	Ioward Co)
	AFIN: 31-00036	NPDES Permit No.: AR0021776 CEI
		AR0021776 CSI
		AR0021776 SSO
		AR0021776 PCI
		AR0021776C
	31-00274	Permit No.: 4794-WG-WR-1

Dear Mr. Dunaway:

On December 2, 2013, Inspector Supervisor Kerri McCabe and I performed a compliance sampling inspection of the waste water treatment facility, a routine compliance inspection of the land application permit and a routine compliance inspection of the WWTP Construction permit and on December 4, 2013, I performed a pretreatment inspection in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. This inspection revealed the following violations:

Wastewater Treatment Plant

- 1. For the purposes of calculating the mass loadings, the average flow measurement during the 6-hr composite sample period should be used for the parameters requiring composite samples and the instantaneous flow measurement taken at the time the grab samples are collected should be used for the parameters requiring grab samples. Currently the facility is calculating all mass loadings using a 24 hour flow.
- 2. A DMR calculation check revealed an error in calculating the loadings for Ammonia Nitrogen for July 2013. No reason for the calculation error could be found.
- 3. The exact location of sample collection is not noted on the facility records for the parameters sent to the contract lab for analyses.
- 4. The name of the individual collecting the sample is not noted on the facility records for the parameters sent to the contract lab for analyses.

- 5. Not all sample collection times and analyses times are accurate. Facility records should indicate the exact time each sample is collected and the exact time each sample is analyzed.
- 6. The identification of the analyst recorded on the facility bench sheets is not always accurate. Facility records should indicate the exact individual performing the analyses.
- 7. An excessive amount of sludge was observed in the aeration lagoons. This sludge should be removed in order to maintain the designed volume and achieve maximum treatment. Please consult with the ADEQ Permits Branch staff as specific permitting requirements may be needed for the disposal of this sludge.
- 8. Excessive sewage-related solids were found in the aeration and facultative lagoons. A primary bar screen should be installed to collect the solids prior to entering the system.
- 9. Interior levee bank erosion and excessively tall vegetation was noted in various locations.
- 10. Duplicates of the in-house analyzed parameters are not being performed as required. No documentation that duplicates have been performed after April 2013 could be located.
- 11. The NH3-N monthly average concentration and monthly average lbs/day exceeded the permit limits.

* The permit requires daily flow monitoring. Recommend that facility flow records indicated a "no flow" on days that no discharge occurred at the plant. A blank value might give the false impression that a discharge did occur but no flow value was documented.

Sanitary Sewer Overflow

* No violations of the permit were found during this inspection.

Pretreatment

1. The current program requires that the City sample and inspect the Categorical Industrial Users twice per year. However, these sampling and inspection events are only performed once per year.

WWTP Construction Permit

1. This permit states that "if the construction site will disturb in excess of one (1) acre, the permittee must comply with the terms of the Stormwater Construction General Permit Number ARR150000 prior to the start of construction. Best Management Practices (BMPs) must be in place regardless of the size." No stormwater controls were observed to be in place at the time of the inspection.

City of Nashville Page 3

Land Application Permit

* No violations of this permit were found during the inspection.

The above item requires your immediate attention. Please submit a written response to this finding to the Water Division Inspection Branch, of this Department. This response should be mailed to the address below, or e-mailed to <u>Water-Inspection-report@adeq.state.ar.us</u>. This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible, and the written response with all necessary documentations (i.e. photos) is due by January 13, 2014.

If I can be of any assistance, please contact me at (870) 389-6970.

Sincerely,

Shan Synch

Shan Lynch District 7 Field Inspector Water Division

≎EPA	Form Approved OMB No. 2040-0003								
UNITED STATES ENVIRONM									
Washington, D.C. 20460 NPDES Compliance Inspection Report									
Section A: National Data System Coding Transaction Code NPDES Yr/Mo/Day Inspector Fac. Type									
Transaction CodeNPDES1N253AR00217	7 6 11 12 Remar		3 1 2 0 2 17	Inspec. Type Inspector Fac. Type 18 C 19 S 20 1					
Inspection Work Days Facility Evaluation I	Rating BI	1	QA	Reserved					
67 <u>69</u> 70 <u>2</u>	71 N	72	N 73 74 75	80					
	Section B: Fac	cility	Data						
Name and Location of Facility Inspected (For industrial users dis include POTW name and NPDES permit number)	charging to POTW, also)	Entry Time/Date 0841 / 12-2-2013 0825 / 12-3-2013	Permit Effective Date February 1, 2009					
<u>City of Nashville Wastewater Treatment Plant</u> Hwy 27 ~ ¹ / ₂ mile south of town			Exit Time/Date 1421 / 12-2-2013 0848 / 12-3-2013	Permit Expiration Date January 31, 2014					
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Nur Chip Colston / Chief Operator / (870) 845-4522 Ed Carlyle / Pretreatment Coordinator / (870) 845-4522		z Sew	ver Supt. / (870) 845-7400	Other Facility Data					
Name, Address of Responsible Official/Title/Phone and Fax Num	ber			Major Municipal					
Larry Dunaway / Public Works Director / (870) 845-4015			Contacted	CEI					
426 North Main Street Nashville, AR 71852			Yes No	PDS# 075293					
	ction C: Areas Evaluat rv. M = Marginal, U = U		uring Inspection isfactory, N = Not Evaluated)						
S Permit S Flow Measureme		1		S Sampling					
U Records/Reports M Self-Monitoring	Program N	Slu	ıdge Handling/Disposal	N Pollution Prevention					
S Facility Site Review N Compliance Scho	edules N	Pre	etreatment	N Multimedia					
S Effluent/Receiving Waters M Laboratory	Ν		Jim Water	U Other: CSI					
Section D: Summary	of Findings/Comment	s (At	tach additional sheets if necessary)						
* See "Further Explanation" page									
Name(s) and Signature(s) of Inspector(s) Agency/Office/Telephone Date									
Shan Lynch Shan Lynch	ADEQ / Dist. 7 / 870 389-6970			December 26, 2013					
Signature of Reviewer Agency/Office/Phone and Fax Numbers Date Kerri McCabe M ⁵ Calc December 27, 2013									

ADEQ Water NPDES Inspection

AFIN: 31-00036

SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	Øs 🗆m 🗇u 🖾na 🗇ne
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	
4. ALL DISCHARGES ARE PERMITTED:	
SECTION B: RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	
DETAILS:	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	OS OM 🗹 U ONA ONE
a. DATES AND TIME(S) OF SAMPLING:	Dy 🗹n 🗆na 🗇ne
b. EXACT LOCATION(S) OF SAMPLING:	
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	
d. ANALYTICAL METHODS AND TECHNIQUES:	
e. RESULTS OF CALIBRATIONS:	
f. RESULTS OF ANALYSES:	
g. DATES AND TIMES OF ANALYSES:	Dy 🗹n Dna Dne
h. NAME OF PERSON(S) PERFORMING ANALYSES:	
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	Øs 🗆m 🗇u 🖾na 🖾ne
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	Øs 🗆m 🗇u 🖾na 🖾ne
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	Dy On Ona Øne
SECTION C: OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED:	Øs 🗆m 🗇u 🖾na 🖾ne
2. TREATMENT UNITS PROPERLY MAINTAINED:	OS 🕅 OU ONA ONE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED:	Øs 🗆m 🗇u 🖾na 🖾ne
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	Øs 🗆m 🗇u 🖾na 🖾ne
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	Øs 🗆m 🗇u 🖾na 🖾ne
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED:	Øs 🗆m 🗇u 🖾na 🖾ne
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	OS OM OU ØNA ONE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	Dy Dn Øna Dne
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR:	
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED:	
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	

SEC	TION D: SAMPLING		
PER	MITTEE SAMPLING MEETS PERMIT REQUIREMENTS	6	ØS OM OU ONA ONE
DET	AILS:		
1. S.	AMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:		
2. L(OCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:		
3. FI	LOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:		
4. S	AMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:		
5. S.	AMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:		
6. S	AMPLE COLLECTION PROCEDURES ADEQUATE:		
a. S	AMPLES REFRIGERATED DURING COMPOSITING:		
b. P	ROPER PRESERVATION TECHNIQUES USED:		
c. C	ONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:		
7. IF	MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS RE	PORTED ON THE DMR:	
SEC	TION E: FLOW MEASUREMENT		
PER	MITTEE FLOW MEASUREMENT MEETS PERMIT REC	UIREMENTS	⊠s □m □u □na □ne
DET	AILS:		
1. P	RIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED	: TYPE OF DEVICE:_90 V-notch wei	
2. FI	LOW MEASURED AT EACH OUTFALL AS REQUIRED:		
3. S	ECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPER/	ATED AND MAINTAINED:	
4. C	ALIBRATION FREQUENCY ADEQUATE: <u>April 13, 2010</u>		
5. R	ECORDS MAINTAINED OF CALIBRATION PROCEDURES:		
6. C	ALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:		
7. FI	LOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE	OF TURBULENCE:	
8. FI	LOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF	FLOW RATES:	
9. H	EAD MEASURED AT PROPER LOCATION:		
	TION F: LABORATORY		
PER	MITTEE LABORATORY PROCEDURES MEET PERMIT	T REQUIREMENTS	□s ∅m □u □na □ne
	AILS:		
1. E	PA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 50	3.8(B) FOR SLUDGES) :	
2. IF	ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS	BEEN OBTAINED:	
3. S	ATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPM	/ENT:	
4. Q	UALITY CONTROL PROCEDURES ADEQUATE:		
5. D	UPLICATE SAMPLES ARE ANALYZED <a>>10% OF THE TIME:		
6. S	PIKED SAMPLES ARE ANALYZED <u>></u> 10% OF THE TIME:		
7. C	OMMERCIAL LABORATORY USED:		
a. L/	AB NAME: <u>American Interplex</u> <u>Ana-Lab Co</u>	<u>rp.</u>	
b. L/	AB ADDRESS: 8600 Kanis Rd.; Little Rock, AR 72204 PO Box 900	0; Kilgore, TX 75663	
c. P.	ARAMETERS PERFORMED: biomonitoring NH3-N, Tota	al Phosphorous, Nitrite + Nitrite N, Cya	
8. B	IOMONITORING PROCEDURES ADEQUATE:		
a. P	ROPER ORGANISMS USED:		
b. P	ROPER DILUTION SERIES FOLLOWED:		
c. P	ROPER TEST METHODS AND DURATION:		
d. R	ETESTS AND/OR TRE PERFORMED AS REQUIRED:		
1			

ADEQ Water NPDES Inspection

AFIN: 31-00036

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS										
BASED	BASED ON VISUAL OBSERVATIONS ONLY									
DETAIL	S:									
OUTFALL	#: OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER			
001	none	none	none	none	none	clear	NA			
SECTI	SECTION H: SLUDGE DISPOSAL									
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS										
DETAIL	S:									
1. SLUDO	GE MANAGEMENT ADEQU	ATE TO MAINTAIN EF	FLUENT QUALITY:			🗆 s 🗆	M 🗆 U 🗹 NA 🗆 NE			
2. SLUDO	GE RECORDS MAINTAINEI	D AS REQUIRED BY 4	0 CFR 503:			🗆 s 🗆	M 🗆 U 🗹 NA 🗆 NE			
3. FOR L	AND APPLIED SLUDGE, T	YPE OF LAND APPLIE	D TO: (E.G., FOREST,	, AGRICULTURAL, PUE	BLIC CONTACT SITE):					
SECTI	ON I: SAMPLIN	G INSPECTION		URES						
SAMPL	E RESULTS WITH	HIN PERMIT R	EQUIREMENT	'S						
DETAIL				-						
	LES OBTAINED THIS INSP	ECTION:				V				
2. TYPE	OF SAMPLE: 🗹 GRAB:		METHOD: FREQUE	NCY:						
	_ES PRESERVED:					V				
4. FLOW	PROPORTIONED SAMPLE	S OBTAINED:				V				
5. SAMP	_E OBTAINED FROM FACI	LITY'S SAMPLING DE	/ICE:							
6. SAMP	E REPRESENTATIVE OF	VOLUME AND NATUR	E OF DISCHARGE:			V				
7. SAMP	_E SPLIT WITH PERMITTE	E:					IY 🗹 N 🗆 NA 🗆 NE			
8. CHAIN	-OF-CUSTODY PROCEDU	RES EMPLOYED:				V				
9. SAMP	LES COLLECTED IN ACCO	RDANCE WITH PERM	IT:			V				
SECTI	ON J: STORM \	WATER POLL	UTION PREV	VENTION PL	AN					
STORM	WATER MANAG	EMENT MEET	S PERMIT RE	QUIREMENTS	;	□s □m l				
DETAIL	S:									
1. SWPP	P UPDATED AS NEEDED:	DATE OF LAST UP	DATE:				IY 🗆 n 🗹 na 🗆 ne			
2. SITE N	AP INCLUDING ALL DISC	HARGES AND SURFA	CE WATERS:			C	Iy 🗆n 🖾na 🗆ne			
3. POLLU	JTION PREVENTION TEAM	I IDENTIFIED:					IY 🗆 n 🗹 na 🗆 ne			
4. POLLU										
5. LIST C										
6. LIST C	F POTENTIAL SOURCES	AND PAST SPILLS AN	D LEAKS:				IY 🗆 n 🗹 na 🗆 ne			
7. ALL N	ON-STORM WATER DISCH	IARGES ARE AUTHOR	RIZED:				Iy 🗆n 🗹na 🗆ne			
8. LIST C	F STRUCTURAL BMPS:						IY 🗆 N 🗹 NA 🗆 NE			
9. LIST C	F NON-STRUCTURAL BMI	PS:					Iy 🗆n 🗹na 🗆ne			
10. BMPS	PROPERLY OPERATED A	ND MAINTAINED:					IY 🗆 n 🗹 na 🗆 ne			
11. INSPE	CTIONS CONDUCTED AS	REQUIRED:					Iy 🗆n 🗹na 🗆ne			
						1				

AFIN: 31-00036

FLOW CALCULATION SHEET									
Date: 12-2-2013 Time: 1030									
Head in Inc	Head in Inches: 13" Feet: 1.08								
Type & Siz	e of Primary Flow I	Measurement De	vice: 90 degre	ee V-notch weir					
Name & Mo	odel of Secondary	Flow Measureme	ent Device:	Iilltronics HydroRanger					
	,								
Date of las	t Calibration of Sec	condary Flow Dev	/ice: April 13,	2010					
Pocordod [Flow at Date & Tim	o Listod Abovo:	1458 gpm						
Recolueur		e Listed Above.	1458 gpm	(Facility Flow Meter)					
Calculated	Flow at Date & Tin	ne Listed Above:	1360 gpm						
(Flow is calcula	ted using flow charts in: <u>I</u>	SCO Open Channel Flo		ndbook-5 th Edition)					
	Recorded Value	Calculated	Value						
% Error =	Recorded Value - Calculated Value Calculated Value)					
	Culot								
% Error =	1458	- 1360	X 100						
70 EIIUI =		1360	× 100						
% Error =	98	X 100							
	1360 × 100								
% Error =	% Error = 0.0720 X 100								
% Error =	7.2	%							
	-								
Comments	:								

ADEQ Water NPDES Inspection		AFIN	AFIN: 31-00036 Permit #: AR0021776								
	DMR Calculation Check										
Reporting Period:	From	<u>13</u> Year	07 Month	01 Day		13 Year	07 Month	<u>31</u> Day			
Parameter Checked	: <u>NF</u>	I3-N	_								
		oading Mass					ntration http://www.com/action/action/action/action/action/action/action/action/action/action/action/action/action/action				
	Mo. Av	'g lb s/	/day	Mo. A	vg	mg/l	7-day Avg	g mg/l			
Reported Value:		3		,	.254		.35	9			
Calculated Value:		2.52			.257		.35	9			
Permit Value:		38			2		3				

If calculated value does not equal reported value, explain:

No explanation could be found as to the reason for the discrepancy.

CSI Sampling Results

Effluent Characteristics	Monthly Ave. – mass	Monthly Ave. – mass limit	Monthly Ave concentration	Monthly Ave. – concentration limit	7 day Ave concentration	7 day Ave. – concentration limit
CBOD	24.45 lbs/day	192	1.43 mg/l	10	1.43 mg/l	15
TSS	76.94 lbs/day	288	4.5 mg/l	15	4.5 mg/l	22.5
NH3-N	112.67 lbs/day	96	6.59 mg/l	5	6.59 mg/l	7.5
T. Phosphorus	5.52 lbs/day	report	0.323 mg/l	report	0.323 mg/l	report
NO2+NO3-N	49.75 lbs/day	report	2.91 mg/l	report	2.91 mg/l	report
Tot. Rec. Selenium	0.034 lbs/day	0.148	<2 µg/l	7.73µg/l	<2 µg/l	15.5µg/l
Fecal coliform	NA	NA	<1 col/100 ml	1000	<1 col/100 ml	2000

 TRC
 0.02 / 0.03

 pH
 6.90 / 6.95

 DO
 12.71 / 12.76

 24 hr. avg. flow
 2.05 mgd

 Grab flow
 2.05 mgd

* The NH3-N monthly average concentration and monthly average lbs/day exceeded the permit limits.

NPDES Compliance Inspection Report Further Explanation

Sec. B – For the purposes of calculating the mass loadings, the average flow during the 6-hr. composite sample period should be used for the parameters requiring composite samples and the instantaneous flow taken at the time the grab samples are collected should be used for the parameters requiring grab samples. Currently the facility is calculating all mass loadings using a 24 hour flow.

Sec. B, 1 – A DMR calculation check revealed an error in calculating the loadings for Ammonia Nitrogen for July, 2013. No reason for the calculation error could be found.

Sec. B, 2, b - The exact location of sample collection is not noted on the facility records for the parameters sent to the contract lab for analyses.

Sec. B, 2, c – The name of the individual collecting the sample is not noted on the facility records for the parameters sent to the contract lab for analyses.

Sec. B, 2, a & g – Not all sample collection times and analyses times are accurate. Facility records should indicate the exact time each sample is collected and the exact time each sample is analyzed.

Sec. B, 2, h - The identification of the analyst recorded on the facility bench sheets is not always accurate. Facility records should indicate the exact individual performing the analyses.

Sec. C, 2 - An excessive amount of sludge was observed in the aeration lagoons. This sludge should be removed in order to maintain the designed volume and achieve maximum treatment. Please consult with ADEQ Permits staff as specific permitting requirements may be needed for the disposal of this sludge.

Sec. C, 2 – Excessive sewage related solids were found in the aeration and facultative lagoons. A primary bar screen should be installed to collect the solids prior to entering the system.

Sec. C, 2 – Interior levee bank erosion and excessively tall vegetation was noted in various locations.

Sec. F, 5 – Duplicates of the in-house analyzed parameters are not being performed as required. No documentation that duplicates have been performed after April 2013 could be located.

Sec. I - The NH3-N monthly average concentration and monthly average lbs/day exceeded the permit limits.

* The permit requires daily flow monitoring. Recommend that facility flow records indicated a "no flow" on days that no discharge occurred at the plant. A blank value might give the false impression that a discharge did occur but no flow value was documented.

City of Nashville 426 North Main Street Nashville, AR 71852 1-870-845-4015

January 3, 2014

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

Mr. Shan Lynch District 7 Field Inspector Water Division

Re: Reply to Inspection Letter dated December 30, 2013

Dear Mr. Lynch:

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We appreciate all your comments and requirements noted during your last inspection. Inspections are eye-openers to tell us at the waste treatment plant and laboratory necessary changes needed to help us in our daily operations. This letter answers and corrects those necessary changes. It is our intention to tell you that we take your comments seriously and have taken actions to correct any problems found. We look forward to your next visit in the near future.

Attachment follows. If further changes or comments are needed, we will address them in a quick fashion. You may contact me at 870-845-4015.

Sincerely,

Kang Dunaway

Larry Dunaway Public Works Director

Cc: Greg Strawn, Water/Wastewater Superintendent Ed Carlyle, Jr., Pretreatment/Laboratory

Wastewater Treatment Plant

4. *

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1. For the purpose of calculating the mass loadings, the average flow measurement during the 6-hr composite sample period should be used for the parameters requiring composite samples and the instantaneous flow measurement taken at the time the grab samples are collected should be used for the parameters requiring grab samples. Currently the facility is calculating all mass loadings using a 24 hour flow.

REPLY (1): We have changed our lab sheets to incorporate records for flow of 6hr and 24 hour flow rates. The six hour composite flow rate is as follows: the beginning time (10:00 am), the ending time (16:00 pm), record the total, and who is responsible for recording the results. We also record from the wastewater laboratory sheets the 24-hour flow rate for DMR records.

2. A DMR calculation check revealed an error in calculating the loadings for Ammonia Nitrogen for July 2013. No reason for the calculation error could be found.

REPLY (2): Human Error, more time will be implemented and a triple check method to make sure all calculations are correct and the person recording such results knows correct procedures.

3. The exact location of sample collection is not noted on the facility records for the parameters sent to the contract lab for analyses.

REPLY (3): Ed Carlyle, Laboratory Technician, has contacted and talked with Ben Head, AnaLab Supervisor, the location of samples taken will be applied on the laboratory sheets or else written in under comments by sampling personnel.

PAGE 1

4. The name of the individual collecting the sample is not noted on the facility records for the parameters sent to the contract lab for analyses.

REPLY (4): The person collecting the sample now is responsible for filling out the needed data and signature in his or her own writing as per new laboratory record keeping lab sheet. All personnel have been trained and now know their responsibly concerning record keeping. Two lab technicians have returned to city hall to their own jobs as their training is over with, this has eliminated any confusion with records and signatures.

5. Not all sample collection times and analyses times are accurate. Facility records should indicate the exact time each sample is collected and the exact time each sample is analyzed.

REPLY (5): See reply number 4.

2 .

4 -

6. The identification of the analyst recorded on the facility bench sheets is not always accurate. Facility records should indicate the exact individual performing the analyses.

REPLY (6): Personnel have been trained and know their responsibilities of record keeping and some personnel have been removed from the laboratory which will eliminate some of the confusion with all the record keeping.

7. An excessive amount of sludge was observed in the aeration lagoons. This sludge should be removed in order to maintain the designed volume and achieve maximum treatment. Please consult with the ADEQ Permits Branch staff as specific permitting requirements may be needed for the disposal of this sludge.

REPLY (7): New permit requirements for the new wastewater treatment plant and construction with the new sludge removal system will solve this problem. Nashville has never had the system to remove sludge. We now have incorporated sludge removal with this new system.

8. Excessive sewage-related solids were found in the aeration and facultative lagoons. A primary bar screen should be installed to collect the solids prior to entering the system.

REPLY (8): The new treatment system currently under construction has plans to install a bar screen within the influent collection system.

9. Interior levee bank erosion and excessively tall vegetation was noted in various locations.

REPLY (9): Steps have already been taken to improve levee bank erosion by the placement of rip-rap around the banks of the holding pond. Excessive tall vegetation will be scheduled for removal by the distribution personnel in the near future.

10. Duplicates of the in-house analyzed parameters are not being performed as required. No documentation that duplicates have been performed after April 2013 could be located.

REPLY (10): A new laboratory bench sheet has been developed to incorporate room for duplicates for all analyses performed by the lab. Dates are monthly recorded on a lab calendar for the year.

11. The NH3-N monthly average concentration and monthly average lbs/day exceeded the permit limits.

REPLY (11): The construction to be completed by the end of 2014 of a new waste

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treatment plant is planned around this problem and should eliminate any problems concerning ammonia.

Sanitary Sewer Overflow

No violations of the permit were found during the inspection.

A *_

Pretreatment

1. The current program requires that the City sample and inspect the Categorical Industrial Users twice per year. However, these sampling and inspection events are only performed once per year.

REPLY (1): On December 5, 2013 a letter was sent to Jan-Eze Plating which changed the sampling and inspection requirements from two per year to only once per year. This was an amendment to the current discharge permit. In accordance with 40 CFR 403.8 all significant or categorical industrial users must be inspected and sampled at least once per year. Recent inspections have noticed no discrepancies and repeated information year after year, thus the reduction of sampling and inspections.

WWTP Construction Permit

1. This permit states that "if the construction site will disturb in excess of one (1) acre, the permitted must comply with the terms of the Storm water Construction General Permit Number ARR15000 prior to the start of construction. Best Management Practices (BMP's) must be in place regardless of the size." No storm water controls were observed to be in place at the time of the inspection.

PAGE 4

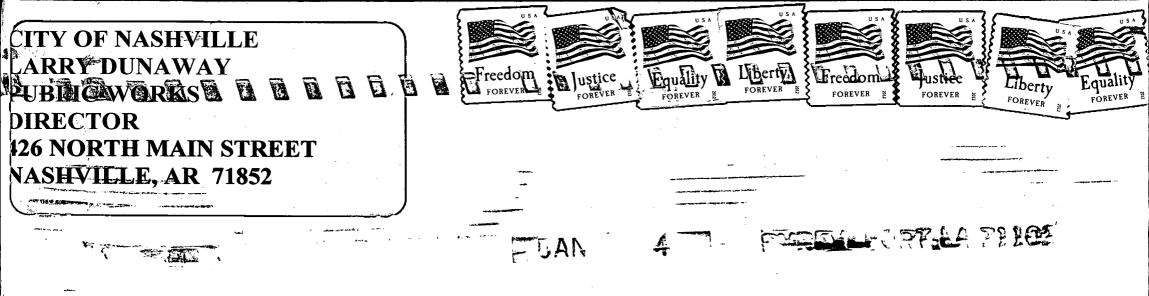
REPLY (1): A storm water permit has recently been obtain and is in full effect. Nashville Public Director, Larry Dunaway, has fulfilled this requirement. All questions of concern can be answered by contacting Larry at 870-845-4013.

Land Application Permit

No violations of this permit were found during the inspection.

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> State of Arkansas ADEQ Attention: Shan Lynch District 7 Field Inspector 5301 Northshore Dr North Little Rock, AR 72118-5317





January 17, 2014

Larry Dunaway, Public Works Director City of Nashville 426 North Main Street Nashville, AR 71852

Response to Inspections (Howard Co) RE: NPDES Permit No.: AR0021776 AFIN: 31-00036 AR0021776C

31-00274

Permit No.: 4794-WG-WR

Dear Mr. Dunaway:

I have reviewed the response pertaining to my December 2, 2013 inspections of the City of Nashville's wastewater treatment facility and the related permits. The information provided sufficiently addresses the violations referenced in my inspection report. At this time, the Department has no further comment concerning this particular inspection. Acceptance of this response by the Department does not preclude any future enforcement action deemed necessary at this site or any other site.

If we need further information concerning this matter, we will contact you. Thank you for your attention to this matter. Should you have any questions, feel free to contact me at 870 389-6970 or you may e-mail me at lynch@adeq.state.ar.us.

Sincerely,

Shan Synch

Shan Lynch **District 7 Field Inspector** Water Division