RESOLUTION NO. 50-1993

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ABILENE, TEXAS, APPROVING THE MUNICIPAL WATER POLLUTION PREVENTION ENVIRONMENTAL AUDIT REPORT.

WHEREAS, the Abilene City Council has received the Municipal Water Pollution Prevention (MWPP) Order for Information Docket No. VI-91-2609, and,

WHEREAS, the Abilene City Council agrees to submit the information outlined in the MWPP Environmental Audit Report as required by the Environmental Protection Agency (EPA), Region 6; and,

WHEREAS, the Abilene City Council agrees to implement the MWPP program as necessary for the next reissuance of the City of Abilene's National Pollutant Discharge Elimination System permit;

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ABILENE, TEXAS, that:

PART 1. The Abilene City Council informs EPA Region 6 that it has reviewed and approved the MWPP Environmental Audit Report, attached hereto as Exhibit "A" and incorporated for all purposes, for the Abilene Wastewater Treatment Plant, Permit No. TX0023973.

PART 2. This Resolution shall take effect immediately from and after its passage.

ADOPTED THIS 16 DAY OF DECEMBER, 1993.

ATTEST:

CITY SECRETARY

APPROVED:

MUNICIPAL WATER POLLUTION PREVENTION

MWPP

EPA REGION 6

ENVIRONMENTAL AUDIT

REPORT

REVISED: MARCH 31, 199.

		NLI ON	.
	PREPARED BY		
MUNICIPALITY	City of Abilene	STATE	Texas
NPDES PERMIT #	FOR WASTEWATER T	REATMENT	PLANT
CONTACT BERCON	• Drawna Harcachaimar		
CONTACT PERSON	MUNICIPAL OFFICIAL		And the second s
	Director of Water Utilities		
MAILING ADDRESS: P.	.O. Box 60		
	oilene, Texas 79604-0060		
TELEPHONE #:	(915) 676-6416		
CHIEF OPERATOR:	Brian Socia		
	NAME	,	
TELEPHONE #: _	(915) 548-2237	·	
SIGNATURE	•	10. 1-10.	datury, , , , , , , , , , , , , , , , , , ,
	AUTHORIZED REPRESENTATIVE	TITLE	DATE

PART 1: INFLUENT FLOW/LOADINGS

A. List the average monthly volumetric flows and BODs loadings received at your facility during your 12-month MWPP reporting period.

	/PP REPORTING ERIOD	COLUMN 1 *AVERAGE MONTHLY INFLUENT FLOW	COLUMN 2 AVERAGE MONTHLY INFLUENT BODs LOADING (LBS/DAY)
YEAR	MONTH	(MGD)	(LBS/DAY)
92	October	12.202	16,259
92	November	13.156	18,218
92	December	13.252	19,156
93	January	14.200	22,193
93	February	14.693	22,102
93	March	15.099	20,650
93	April	14.493	20,852
93	May	14.322	21,051
93	June	14.402	20,627
93	July	12.925	20,481
93	August	12.873	21,986
93	September	12.877	20,442

^{*}Use same reporting period as DMR's

PART 2: EFFLUENT QUALITY/PLANT PERFORMANCE

applicable to your permit. Circle whether you are measuring ammonia nitrogen (NH3-N) or nitrate nitrogen (NO3-N). produced by your facility during your 12-month MWPP reporting period. Disregard any columns which are not A. For the permitted parameters, list the average monthly effluent concentration and average daily mass loading

(1) CONCENTRATION

MWPP REPORTING

PERIOD

;		; ;						
Year	Year Month	BODs• (mg/1)	TSS (mg/1)	NH3-N or NO3-N (mg/1)	Total Phosphorus (mg/1)	Fecal Coliform (Count/	pH (Lowest/ Highest)	Other DO (min.)
92	Oct.	5.7	5.8			100 ml)	6.8 17.2	5.35
92	Nov.	6.2	9.2				6.7 17.2	4.80
92	Dec.	9.5	13.1				6.9 7.3	4.80
93	Jan.	9.1	11.0				6.9 /8.0	3.10
93	Feb.	13.5	15.1				6.4 7.2	5.4
93	Mar.	10.5	13.5				6.9 7.4	5.2
93	Apr.	7.1	11.5				6.8 7.6	5.4
93	May	5.6	11.4				6.7 17.8	4.8
93	Jun.	5.7	7.7				6.8 7.3	4.8
93	Jul.	7.2	8.5				6.6 17.2	3.2
93	Aug.	3.3	6.9				6.7,7.1	3.4
93	Sept.	93 Sept. 3.1	4.6				0.779.9	3.7
US& CROD	applicable to you	r permit, Use CBOD) on all BOD que	OD on all BOD questions if applicable to your permit	is to your permit.			

List the monthly permit limits for the facility in the blanks below. Circle whether your permit lists ammonia nitrogen (NH3-N) or nitrate nitrogen (NO3-N). œ

(1) CONCENTRATION (Attach Additional Sheets for OTHER if necessary)

Other
Other Ph Min
Other Ph Max
Other DO Min
NH3-N or NO3-N (mg/1)
rss (mg/1)
BODs (mg/1)
Fecal Coliform (Count/ 100 ml)

0.0 su

9.0 su

2 mg]

20

.

Permit Limits: _

(2) AVERAGE DAILY MASS LOADING (Attach Additional Sheets for OTHER if necessary)

Other			
Other			
NH3-N or	N03-N	(los/gay)	1
TSS	(lbs/day)		3002
BODs	(lbs/day)		3002
	- '		Limits:

Κ.	-	id the effluent Phosphorus (Circle the appropriate n	concentration (mg/l) exceed the umber)
	0 = 0 points;	1-2 = 5 points;	3 or more = 30 points
L.	Was biomonitoring	required by your NPDES Pe	ermit in the past year?

Yes No

a. If yes, has the biomonitoring been done? _____ Give results:

SPECIES	# OF TESTS	# PASSED	# FAILED	TEST TYPE

b. Have biomonitoring requirements been met and testing complete? Circle One

Yes	No
- 7	

Passed 14 months of Biomonitoring Completed: Completed Permit requirement Nov. 1991

PART 3: AGE OF THE WASTEWATER TREATMENT FACILITIES

A. What year was the wastewater treatment plant constructed or last major improvements to rehabilitate, expand or upgrade the plant completed? _____

Factor

Enter Age in Part C below.

- B. Specify the type of treatment plant Conventional Activated Sludge
- C. Check the type of treatment facility that is employed:

<u>X</u>	Mechanical Treatment Plant (Trickling filter, activated (sludge, advanced treatment etc.)	2.0
	Aerated Lagoon	1.5
	Stabilization Pond/Wetlands	1.0

D. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value of Part 3:

TOTAL POINT VALUE FOR PART 3 =
$$\frac{2.0}{\text{(factor)}}$$
 X $\frac{2}{\text{(age)}}$ = $\frac{4.0}{\text{(age)}}$

Enter this value or 40, whichever is less, on the point calculation table on the last page.

A.	Wha	it is the final disposition of sludge from your treatment plant?
	Slu	dge is stored in a lagoon.
3.	Desc	cribe basic sludge treatment processes of plant and final disposal:
	Slu	dge is processed in a two stage digester to a volatile solids content
	of	about 62%. The sludge is mixed & heated in the first stage & separated
	in	the second stage. Gas is used to power aux engines and boiler. Digeste
	slu	dge is pumped to a sludge lagoon.
· •	If slu	adge is disposed of by land application (surface application or shallow
	If sluinject	lidge is disposed of by land application (surface application or shallow tion), complete the following: Does your facility have access to sufficient land for: (Circle the appropriate point total)
	inject	tion), complete the following: Does your facility have access to sufficient land for: (Circle the
/A	inject	Does your facility have access to sufficient land for: (Circle the appropriate point total) 3 or more years = 0 points 18-35 months = 10 points
/A	inject	Does your facility have access to sufficient land for: (Circle the appropriate point total) 3 or more years = 0 points 18-35 months = 10 points less than 18 months = 20 points
I/A	inject	Does your facility have access to sufficient land for: (Circle the appropriate point total) 3 or more years = 0 points 18-35 months = 10 points less than 18 months = 20 points What type of cover is on the site? Crops consumed by animals whose products are consumed by
N/A	inject	Does your facility have access to sufficient land for: (Circle the appropriate point total) 3 or more years = 0 points 18-35 months = 10 points less than 18 months = 20 points What type of cover is on the site? Crops consumed by animals whose products are consumed by humans.

 $_{
m N/A}$ E. Does the sludge disposal site have an approved Ground Water Discharge Plan? (New Mexico Only) (Circle One)

Yes..... 0 points

No.....25 points

N/A F. Does this city have an approved sludge management plan? (Okiahoma and Arkansas Only) (Circle One)

Yes..... 0 points

No......25 points

_____ N/A

Sum of Questions:

 $5C(1) = \frac{0}{5C(4)} = \frac{0}{0}$ $5E/F = \frac{0}{0}$

TOTAL POINT VALUE FOR PART 5 ____0

Enter this total on the point calculation table on the last page.

	(2)	more of required operations staff shown above in B(1) certified (including plant management in direct charge of operations)? (Circle One)
		Yes 0 points
		No15 points
N/A	(3)	For plants with 10 or less Operations personnel, are there more than one (1) operator or supervisor in direct charge with no certification? (Circle One)
		Yes15 points
		No 0 points
C.	List p	oints in 6B(2) or 6B(3) (as applicable) =
D.	have accor	5% or more of operations personnel that are required to have certification the level of certification required to properly operate the plant in dance with certification levels established by the state and your own nnel job description? (Circle One)
		Yes 0 points
		No15 points
E.	(1)	What do you consider to be the proper number of personnel to operate and maintain the plant? $\underline{20}$
	(2)	Is authorized (budgeted) staff 90% of proper manning level or within two positions of what you believe is necessary for a proper operation? (Circle One)
		Yes 0 points
		No 5 points
	(3)	What % of positions authorized are actually filled with employees?
		90% or over = 0 points, between 80 - 90% = 15 points;
		less than 80% = 30 points

 $\label{eq:sum of Questions:} Sum of Questions:$

TOTAL POINT VALUE FOR PART 6 5

Enter this total on the point calculation table on the last page.

/XII 1 III	nancia	al Status Info	rmation s	ould be based on your <u>Last i</u>	Fiscal Year Budget.
	List I	Fiscal Year	Begins:	Oct. 1, 1992	
		•	Ends:	Sept. 30, 1993	
Did yo March	our m 1, 1:	unicipality re 973? (Circle	ceive a P one) (Ye	blic Law 92-500 federal cor or No	nstruction grant since
If yes, as a c	do ye onditi	ou have a use ion for receip	er charge ot of the f	ystem in effect as required be deral grant? (Circle One) (Ye	y Public Law 92-500 or No
	kept	evenues and in accounts s, etc.)? (Ci	separate f	res for the wastewater utility om non-sewer accounts (i.e.,	/system posted to or water utilities, public
			Yes	No	
	Expla	in: Separate	expense	nd revenue accounting is ma	intained in the Wate
	Uti]	lity Enterpr:	icas Eusal		
		стсу висегрг.	rses runa		
•		trey Enterpr	ises rund		
		itty Enterpr	ises ruliu		•
	(1)		vater syst	m expenditures ever paid for ircle One)	with non-wastewaer
		Are wastew	vater syst		with non-wastewaer
		Are wastew system reve	vater syst enues? ((Yes	ircle One)	
		Are wastew system reve	vater syst enues? ((Yes	(No	
		Are wastew system reve	vater syst enues? ((Yes	(No	
		Are wastew system reverse If Yes, expl	vater syst enues? (f Yes ain:	n revenues ever used for nor	
	(1)	Are wastew system revo	vater syst enues? (f Yes ain:	n revenues ever used for nor	

 $_{\rm N/A}$ 7E. If any plant is over 15 years old with no major renovations or expansions answer:

Is there a definite plan to provide major mechanical or structural renovations or improvements (beyond what in-house maintenance forces can accomplish) in the next 5 years?

(Yes)	0	points
-------	---	--------

No	10	points
----	----	--------

N/A If yes, explain future renovations and approximate time to be completed for each plant over 15 years:

The City of Abilene is planning a plant expansion in 1994 that will include the addition of sand filters, additional areation basin capacity, and other, miscellaneous improvements. The City of Abilene is also evaluating various options for sludge processing.

7F. Do you collect proportionate fees from industries for extra strength wastes? Circle One

Do collect revenues for extra strength wastes = 0 points

Do not collect revenues for extra strength wastes = 10 points

*List amount of revenues collected last year for extra strength wastes \$_162,291

Sum of Questions:

$$7C = 0$$

$$7D = 0$$

$$7E = 0$$

$$7F = 0$$
If applicable

TOTAL POINT VALUE FOR PART 7 ___0

Enter this total on the point calculation table on the last page.

(3)	Will the 4-year projected flow exceed current or planned
	plant capacity (include capacity of plants in design or
	construction which will be completed within 4 years as current capacity
	in answering this question)? (Circle One)

Yes	25	points
(No)	0 p	oints

(4) Will the 4-year projected flow exceed 90% of current plant capacity (include capacity of plants in design or construction as current capacity in answering this question)? (Circle One)

Yes	 5 points
(No)	 0 points

TOTAL POINT VALUE FOR PART 8 = ____0

Enter this total on the point calculation on the last page

C. Sewer Backups

Sewer backups means backups in sewer lines, not those caused by customer service lines. Backups means the stopping of flow such as to cause sewer to backup into customer premises or overflow at a manhole or other structure.

(1)	Miles of line in the system	546
(2)	Number of sewer backups last year	510

(3) Is C(2) greater than C(1) or in other words did you have more than 1 backup last year per mile of pipe? (Circle One)

Yes	25 point	ts
(No)	0 points	5

(4) Is C(2) more than half of C(1) or in other words did you have more than 1 backup last year per two miles of pipe? (Do not circle if you circled YES to answer C(3))

Yes	10 points
No	O noints

D. Is sewer system maintenance supervisor in charge state certified? (Circle One)

Yes	0 points
	10 points

E. Does the collection system section have a planned maintenance program? (Circle One)

Yes..... 0 points

No...... 5 points

F. Is there a planned or preventive maintenance program for Lift Stations? (Circle One)

(Yes)..... 0 points

No..... 5 points

G. Is there an alarm system for monitoring lift station failure?

]	escribe briefly the physical and structural conditions of this treatment fac The Wastewater Plant is in good condition overall. Major upgrade wo
	additional Final Clairfiers, Primary Clarifiers, Sludge Pump Static
	echlorination Facilities, Influent Structure, Metering Devices, ec
	Completed in 1991.
Aı ab	te there any significant problems over the last year that have threatened sility to treat wastewater at this facility? N_0
	mity to treat wastewater at this facility?
_	·
Ar	e there industrial dischargers to this wastewater plant? (Circle One)
Ar	•
Ar	e there industrial dischargers to this wastewater plant? (Circle One) Yes No
	Yes No
De _r	No scribe major or significant industrial discharges to this plant: The POTVeceives discharges from the following types of significant industrial
De r	No scribe major or significant industrial discharges to this plant: The POTV eceives discharges from the following types of significant industrietal finishers; electroplater; oil refinery; healthcare facilities;
De r m	No scribe major or significant industrial discharges to this plant: The POTV eceives discharges from the following types of significant industrietal finishers; electroplater; oil refinery; healthcare facilities; ational defense facility; soft drink manufacturers; industrial laur
De r m	No scribe major or significant industrial discharges to this plant: The POTV eceives discharges from the following types of significant industrietal finishers; electroplater; oil refinery; healthcare facilities:
De r m	No scribe major or significant industrial discharges to this plant: The POTO eccives discharges from the following types of significant industrietal finishers; electroplater; oil refinery; healthcare facilities; ational defense facility; soft drink manufacturers; industrial laur
De r m	No scribe major or significant industrial discharges to this plant: The POTV eceives discharges from the following types of significant industrietal finishers; electroplater; oil refinery; healthcare facilities; ational defense facility; soft drink manufacturers; industrial laur
De r m	No scribe major or significant industrial discharges to this plant: The POTV eceives discharges from the following types of significant industrietal finishers; electroplater; oil refinery; healthcare facilities; ational defense facility; soft drink manufacturers; industrial laur
De r m	No scribe major or significant industrial discharges to this plant: The POTV eceives discharges from the following types of significant industrietal finishers; electroplater; oil refinery; healthcare facilities; ational defense facility; soft drink manufacturers; industrial laur
De r m	No scribe major or significant industrial discharges to this plant: The POT eceives discharges from the following types of significant industretal finishers; electroplater; oil refinery; healthcare facilities ational defense facility; soft drink manufacturers; industrial lau

	(Yes) No
	s, describe: A portion of our effluent is diverted to several
OWI	ers for irrigation purposes.
(4)	
(1)	What potential reuse alternatives are available?
	Describe: Additional irrigations of agricultural lands, go
	courses and parks.
Has	an energy audit been performed to determine the minimum am
	gy needed for efficient operation and maintenance? (Circle One)
ener	Yes (No)
ener	res (NO)
ener	
	s, describe:
	s, describe:
	s, describe:

	Yes	No	
If yes, des	scribe: All maint eference. Every p	enance work information is logged and saved iece of equipment is on a maintenance sched	i fo lule
of lubrica	tion, types of re	nance program specify frequency of intervals, ty epair, and other preventive maintenance to ece of equipment? (Circle One)	
of lubrica	tion, types of re	epair, and other preventive maintenance to	
of lubrica necessary Are these	tion, types of refor each major pi	epair, and other preventive maintenance to ece of equipment? (Circle One)	eing
of lubrica necessary Are these precorded a	tion, types of refor each major pi	epair, and other preventive maintenance to ece of equipment? (Circle One) No nance tasks, as well as equipment problems, b	eing
of lubrica necessary Are these precorded and (Circle One)	tion, types of refor each major pi	epair, and other preventive maintenance to ece of equipment? (Circle One) No nance tasks, as well as equipment problems, be maintenance problems can be assessed properties. No	eing erly i