STATE OF UTAH

MUNICIPAL WASTEWATER
PLANNING PROGRAM

SELF-ASSESSMENT REPORT

FOR

SANTAQUIN CITY

2006



Resolution Number 08 - 01 - 2007

MUNICIPAL WASTEWATER PLANNING PROGRAM RESOLUTION

RESOLVED that SANTAQUIN CITY informs the Water Quality Board the following actions were taken by the CITY COUNCIL

- 1. Reviewed the attached Municipal Wastewater Planning Program Report for 2006.
- 2. Have taken all appropriate actions necessary to maintain effluent requirements contained in the UPDES Permit (If Applicable)

Passed by a (majority) (unanimous) vote on

81107 (date)

Mayor/Chairman

Attest: Recorder/Clerk

incorporated January 4, 1932

Municipal Wastewater Planning Program (MWPP) Financial Evaluation Section

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person:

Pub. Works Superv

Phone: 801 - 254 - 3211

PLEASE SUBMIT TO STATE BY: AUGUST 1, 2007

Mail to:

MWPP - Department of Environmental Quality

c/o Paul Krauth, P.E. Division of Water Quality 288 North 1460 West P.O. Box 144870

Salt Lake City, Utah 84114-4870

Phone: 538-6146

NOTE: This questionnaire has been compiled for your benefit by a state sponsored task force comprised of representatives of local government and service districts. It is designed to assist you in making an evaluation of your wastewater system and financial planning. Please answer questions as accurately as possible to give <u>you</u> the best evaluation of your facility. If you need assistance please call, Emily Canton. Utah Division of Water Quality: (801) 538-6070.

I. Definitions: The following terms and definitions may help you complete the worksheets and questionnaire:

User Charge (UC) - A fee established for one or more class(es) of users of the wastewater treatment facilities that generate revenues to pay for costs of the system.

Operation and Maintenance Expense - Expenditures incurred for materials, labor, utilities, and other items necessary for managing and maintaining the facility to achieve or maintain the capacity and performance for which it was designed and constructed.

Repair and Replacement Cost - Expenditures incurred during the useful life of the treatment works for obtaining and installing equipment, accessories, and/or appurtenances necessary to maintain the existing capacity and the performance for which the facility was designed and constructed.

Capital Needs - Cost to construct, upgrade or improve the facility.

Capital Improvement Reserve Account - A reserve established to accumulate funds for construction and/or replacement of treatment facilities, collection lines or other capital improvement needs.

Reserve for Debt Service - A reserve for bond repayment as may be defined in accordance with terms of a bond indenture.

Current Debt Service - Interest and principal costs for debt payable this year.

Repair and Replacement Sinking Fund - A fund to accumulate funds for repairs and maintenance to fixed assets not normally included in operation expenses and for replacement costs (defined above).

Part I: OPERATION AND MAINTENANCE

Complete the following table:

Question	Points Earned	Total
Are revenues sufficient to cover operation, maintenance, and repair & replacement (OM&R) costs at this time?	YES = 0 points NO = 25 points	. 0
Are the projected revenues sufficient to cover operation, maintenance, and repair & replacement (OM&R) costs for the <i>next five years</i> ?	YES = 0 points NO = 25 points	0
Does the facility have sufficient staff to ensure proper O&M?	YES = 0 points NO = 25 points	0
Has a dedicated sinking fund been established to provide for repair & replacement costs?	YES = 0 points NO = 25 points	0
Is the repair & replacement sinking fund adequate to meet anticipated needs?	YES = 0 points NO = 25 points	0
	TOTAL PART I =	6

Part II: CAPITAL IMPROVEMENTS

Complete the following table:

Question	Points Earned	Total
Are present revenues collected sufficient to cover all costs and provide funding for capital improvements?	YES = 0 points NO = 25 points	0
Are projected funding sources sufficient to cover all projected capital improvement costs for the next five years?	YES = 0 points NO = 25 points	0.
Are projected funding sources sufficient to cover all projected capital improvement costs for the next ten years?	YES = 0 points NO = 25 points	0
Are projected funding sources sufficient to cover all projected capital improvement costs for the next twenty years?	YES = 0 points NO = 25 points	O
Has a dedicated sinking fund been established to provide for future capital improvements?	YES = 0 points NO = 25 points	0
	TOTAL PART II =	0

Part III: GENERAL QUESTIONS

Complete the following table:

Question	Points Earned	Total
Is the wastewater treatment fund a separate enterprise fund/account or district?	YES = 0 points NO = 25 points	0
Are you collecting 95% or more of your sewer billings?	YES = 0 points NO = 25 points	0
Is there a review, at least annually, of user fees?	YES = 0 points NO = 25 points	0
Are bond reserve requirements being met if applicable?	YES = 0 points NO = 25 points	0
	TOTAL PART III =	6

Part IV: PROJECTED NEEDS

Estimate as best you can the following:

Cost of projected capital	2007	ZUUO	2009	2010	2011
improvements (in thousands)		/ .			
and the service of the control of th		25K-			

Point Summation

Fill in the values from Parts I through III in the blanks provided in column 1. Add the numbers to determine the MWPP point total that reflects your present financial position for meeting your wastewater needs.

Part	Points
·	0
II	0
III	0
Total	0

Municipal Wastewater Planning Program (MWPP) Collection System Section

Owner Name: SANTAQUIN CITY Name and Title of Contact Person:

Dennis BARNES

Pub-works Superv.

Phone: 801 - 254 - 3211

PLEASE SUBMIT TO STATE BY: AUGUST 1, 2007

Mail to:

Department of Environmental Quality

c/o Paul Krauth, P.E. Division of Water Quality 288 North 1460 West P.O. Box 144870

Salt Lake City, Utah 84114-4870

Phone: 538-6146

Form completed by

Dennis BALLIES

Part I: SYSTEM AGE

- B. What is the oldest part of your present system?

 Oldest part _____ / 9.5__ years

Part II: BYPASSES

A. Please complete the following table:

Question	Number !	Points Earned	Total Points
How many days last year was there a bypass, overflow or basement flooding by untreated wastewater in the system due to rain or snowmelt?		0 times = 0 points 1 time = 5 points 2 times = 10 points 3 times = 15 points 4 times = 20 points 5 or more = 25 points	Ø
How many days last year was there a bypass, overflow or basement flooding by untreated wastewater due to equipment failure? (except plugged laterals)		0 times = 0 points 1 time = 5 points 2 times = 10 points 3 times = 15 points 4 times = 20 points 5 or more = 25 points	0
		TOTAL PART II =	٥

	unities, et	ıne	bypass(es)	was	caused	а	contract	or	เทอนเล
		· ·							
	· · · · · · · · · · · · · · · · · · ·								
		· · ·							

A. Please complete the following table:

Question	⇒ Points Earned	Total Points
Has an industry (or other development) moved into the community or expanded production in the past two years, such that either flow or wastewater loadings to the sewerage system were significantly increased (10 - 20%)?	No = 0 points Yes = 10 points	0
Are there any major new developments (industrial, commercial, or residential) anticipated in the next 2 - 3 years, such that either flow or BOD ₅ loadings to the sewerage system could significantly increase (25%)?	No = 0 points Yes = 10 points	10
	TOTAL PART III =	10

- B. Approximate number of new residential sewer connections in the last year

 155 new residential connections
- C. Approximate number of new commercial/industrial connections in the last year

 ____ new commercial/industrial connections
- D. Approximate number of new population serviced in the last year

 465 new people served

Part IV: OPERATOR CERTIFICATION

A.	How many collection system operator	ors are currently employed i	by your facility?
	collection system operato	rs employed	
В.	What is/are the name(s) of your DR0	C operator(s)?	
	Dennis Bornes a	rade Eva	
	Ray Ross Jason Co		
	7 4 11 + C: 61	7	
	Pat Hat Field.		
C.	You are required to have the DRC or	perator(s) certified at <i>GRAL</i>	DE II.
	What is the current grade of the DRO	C operator(s)?	
D.	State of Utah Administrative Rules rebe appropriately certified. List all the class.	•	
	Not Certified		•
	Small Lagoons		
	Collection I		
	Collection II	<u> </u>	
	Collection III		
	Collection IV		
E.	Please complete the following table:		
	Question	Points Earned	Total Points
	s/are your DRC operator(s) currently rtified at the appropriate grade for this facility? (see C)	Yes = 0 points No = 50 points	0
	w many continuing education units has n of the DRC operator(s) completed over the last 3 years?	3 or more = 0 points less than 3 = 10 points	0
		TOTAL PART IV =	Ö

Part V: FACILITY MAINTENANCE

A. Please complete the following table:

Question	Points Earned	Total Points
Do you follow an annual preventative maintenance program?	Yes = 0 points No = 30 points	Ø
Is it written?	Yes = 0 points No = 20 points	0
Do you have a written emergency response plan?	Yes = 0 points No = 20 points	0
Do you have an updated operations and maintenance manual	Yes = 0 points No = 20 points	0
Do you have a written safety plan?	Yes = 0 points No = 20 points	0
	TOTAL PART V =	0

Part VI: SUBJECTIVE EVALUATION

This section should be with the system operators.

A.	Describe the physical condition of the sewer collection system: (lift stations, etc. included)
В.	What sewerage system improvements does the community have under
	consideration for the next 10 years? Mew mechanical plant - Mew Lift Station

Part VI: SUBJECTIVE EVALUATION (cont.)

C.	Explain what problems, other than plugging have you experienced over the last year
	None
D.	Is your community presently involved in formal planning for system expansion/upgrading? If so explain.
	Mens CiFT Station For growth area
	new merhanical plant -
E.	How many times in the last year were there sewage in basements at any point in the collection system for any reason, except plugging of the lateral connections?
	times sewage was in basements
F.	Does the municipality/district pay for the continuing education expenses of operators?
	ALWAYS SOMETIMES NO
	If they do, what percentage is paid?
	approximately <u>/o o</u> %
G.	Is there a written policy regarding continuing education and training for wastewater operators?
	YES NO

Part VI: SUBJECTIVE EVALUATION (cont.)

Any	additional comments?	(Attach additional sheets if necessary.)	
			···

POINT SUMMATION

Fill in the values from Parts II through V in the blanks provided in column 1. Add the numbers to determine the MWPP point total that your wastewater facility has generated for the past twelve months.

Part	Points
li li	0
III	10
IV	0
V	6
Total	10

Municipal Wastewater Planning Program (MWPP) Non-Discharging Lagoon Facility Section

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person:

Dennis BARNES

Pub-Works Superv

Phone: 801-754-3211

PLEASE SUBMIT TO STATE BY: AUGUST 1, 2007

Mail to:

Department of Environmental Quality

c/o Paul Krauth, P.E. Division of Water Quality 288 North 1460 West P.O. Box 144870

Salt Lake City, Utah 84114-4870

Phone: 538-6146

Form completed by

Darnes

Part I: INFLUENT INFORMATION

A. Please update (if needed) the average $\underline{\text{design}}$ flow and average $\underline{\text{design}}$ BOD₅ and TSS loading for your facility.

	Average Design Flow (MGD)	Awerage Design BOD ₅ Loading (Ibs/day)	Average Design TSS Loading (lbs/day)
Design Criteria	. 493	1030	1030
90% of the Design Oriteria	, 444	900	900

B. Please list the average monthly flows in millions of gallons per day (MGD) and BOD₅ and TSS loadings in milligrams per liter (mg/L) *received* at your facility during 2006. (Calculate the BOD₅ and TSS loadings in pounds per day (lbs/day).

'Month	(1) Awerage Monthly Flow (MGD)	(2) Average Monthly BOD ₅ Concentration (mg/L)	Average BOD ₅ Loading (lbs/day) 1	Average Monthly TSS Concentration (mg/L)	(5) Average TSS Loading (lbs/day) 2
January	. 437	245	892	234	853
February	,424	253	894	256	884
March	1424	172	608	250	884
April	.440	213	782	198	727
May	,426	250	876	202	708
June	, 4 03	243	817	242	813
July	,401	155	518	280	936
August	,417	242	842	280	974
September	,426	184	645	244	856
October	,441	240	883	200	736
November	,436	240	872	202	742
December	, 439	168	615	192	763
Average	.425	223	790	231	819

¹ BOD₅ Loading (3) = Average Monthly Flow (1) x Average Monthly BOD₅ Concentration (2) x 8.34 2 TSS Loading (5) = Average Monthly Flow (1) x Average Monthly TSS Concentration (4) x 8.34

Part I. INFLUENT INFORMATION (cont.)

C. Refer to the information in A & B to determine a point value for your facility. Please enter the points for each question in the blank provided.

Question	Number	Points Earned	Total Points
How many times did the average monthly flow (Part B., Column 1) to the wastewater facility exceed 90% of design flow?	0	0 = 0 points 1 - 2 = 10 points 3 - 4 = 20 points 5 or more = 30 points	6
How many times did the average monthly flow (Part B., Column 1) to the wastewater facility exceed the design flow?	0	0 = 0 points 1 - 2 = 20 points 3 - 4 = 40 points 5 or more = 60 points	O
How many times did the average monthly BOD ₅ loading (Part B., Column 3) to the wastewater facility exceed 90% of the design loading?	R	0-1 = 0 points 1 - 2 = 10 points 3 - 4 = 20 points 5 or more = 30 points	10
How many times did the average monthly BOD₅ loading (Part B., Column 3) to the wastewater facility exceed the design loading?	6	0 = 0 points 1 - 2 = 20 points 3 - 5 = 40 points 5 or more = 60 points	Ø
		TOTAL PART I =	16

Part II: FACILITY AGE

In what year were the following process units constructed or underwent a major upgrade? To determine a point score subtract the construction or upgrade year from 2006.

Points = Age = Present Year - Construction or Upgrade Year.

Enter the calculated age below.

If the point total exceeds 20 points, enter only 20 points

Unit Process	Present Year	Construction or Upgrade Year	Age = Points
Headworks	2006	1995	1-1
Lagoons (including aeration)	2006	2002	4
Disinfection	2006	1995	11

Part III: BYPASSES

Please complete the following table:

Question	Number	Points Earned	Total Points
How many days in the past year was there a bypass or overflow of untreated wastewater due to high flows?		0 = 0 points 1 = 5 points 2 = 10 points 3 = 15 points 4 = 20 points 5 or more = 25 points	0
How many days in the last year was there a bypass or overflow of untreated wastewater due to equipment failure?		0 = 0 points 1 = 5 points 2 = 10 points 3 = 15 points 4 = 20 points 5 or more = 25 points	0
		TOTAL PART III =	0

Part IV: NEW DEVELOPMENT

A. Please complete the following table:

Question	Points Earned	Total Points
Has an industry (or other development) moved into the community or expanded production in the past two years, such that either flow or wastewater loadings to the sewerage system were significantly increased (10 - 20%)?	No = 0 points Yes = 10 points	0
Are there any major new developments (industrial, commercial, or residential) anticipated in the next 2 - 3 years, such that either flow or BOD ₅ loadings to the sewerage system could significantly increase (25%)?	No = 0 points Yes = 10 points	/6
Have you experienced any upset due to septage haulers?	No = 0 points Yes = 10 points	0
то	TAL PART IV =	10

В.	Approximate number of new residential sewer connections in the last year
15	new residential connections
C.	Approximate number of new commercial/industrial connections in the last year
_2	new commercial/industrial connections
D.	Approximate number of new population serviced in the last year
4	65 new people served
,	Part V: OPERATOR CERTIFICATION
A.	How many treatment system operators are currently employed by your facility?
	treatment system operators employed
В.	What is/are the name(s) of your DRC operator(s)?
	Donnis Barnes Wade Eva
	Ray Ross Jason Callaway
	Pat Hatfield
C.	You are required to have the DRC operator(s) certified at GRADE I.
	What is the current grade of the DRC operator(s)?
D.	State of Utah Administrative Rules require all operators considered to be in DRC to be appropriately certified. List all the operators in your system by their certification class.
	Not Certified
	Small Lagoons
	Treatment I
	Treatment IIX
	Treatment III
	Treatment IV

E. Please complete the following table:

Question	Points Earned	Total Points
Is/are your DRC operator(s) currently certified at the appropriate grade for this facility? (see C)	Yes = 0 points No = 50 points	0
How many continuing education units has each of the DRC operator(s) completed over the last 3 years?	3 or more = 0 points less than 3 = 10 points	0
	TOTAL PART V =	
		\bigcirc

Part VI: FACILITY MAINTENANCE

A. Please complete the following table:

Question	Points Earned	Total Points
Do you follow an annual preventative maintenance program?	Yes = 0 points No = 30 points	0
Is it written?	Yes = 0 points No = 20 points	0
Do you have a written emergency response plan?	Yes = 0 points No = 20 points	0
Do you have an updated operations and maintenance manual	Yes = 0 points No = 20 points	0
Do you have a written safety plan?	Yes = 0 points No = 20 points	0
	TOTAL PART VI =	0

Part VII: SUBJECTIVE EVALUATION

This	s section should be completed with the facility operators.
A.	Do you consider your wastewater facility to be in good physical and structura condition?
	YES NO
	If NOT, why?
В.	What improvements do you think the plant will need in the next 5 years?
	Lift Station
C.	Where there any backups into basements at any point in the collection system in 2006.
	YES NO y
	Why? (do not include backups due to clogged laterals)
D.	Does the municipality/district pay for the continuing education expenses of operators?
	ALWAYS SOMETIMES NO
	If so, what percentage do they pay?
	approximately <u>/ o o</u> %
E.	Is there a written policy regarding continuing education and training for wastewater operators?
	YES Y NO

Part VII: SUBJECTIVE EVALUATION (cont.)

F. Have you done any major repairs or mechanical equipment replacement in 2006? (do not include construction or upgrade projects)		
YE:	S NO ×	
	What was the approximate cost for those repairs or replacements?	
H. - - -	Any additional comments? (Attach additional sheets if necessary.)	
-		
-		
-	·	
-		
-		
-		
-		

POINT SUMMATION

Fill in the values from Parts I through VII in the blanks provided in column 1. Add the numbers to determine the MWPP point total that your wastewater facility has generated for the past twelve months.

Part	Points
I	10
II	20
III	16
IV	O
V	0
VI	. 0
Total	40

