

Resolution Number 09-02-2009

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 2008.
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

9-16-09
(date)



Mayor/Chairman



Attest:

Recorder/Clerk



STATE OF UTAH

MUNICIPAL WASTEWATER PLANNING PROGRAM

SELF-ASSESSMENT REPORT

FOR

SANTAQUIN CITY

2008



**Municipal Wastewater Planning Program (MWPP)
Financial Evaluation Section**

Owner Name: *SANTAQUIN CITY*

Name and Title of Contact Person:

Rennis Barnes

pub. Works - Superv

Phone: *801-754-3211*

PLEASE SUBMIT TO STATE BY: October 1, 2009

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 you the best evaluation of your facility. If you need assistance please call, Emily Cantön. 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 <i>at this time</i> ?	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 =		0

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 <i>next five years</i> ?	YES = 0 points NO = 25 points	0
Are projected funding sources sufficient to cover all projected capital improvement costs for the <i>next ten years</i> ?	YES = 0 points NO = 25 points	0
Are projected funding sources sufficient to cover all projected capital improvement costs for the <i>next twenty years</i> ?	YES = 0 points NO = 25 points	0
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 =		0

Part IV: PROJECTED NEEDS

Estimate as best you can the following:

Cost of projected capital improvements (in thousands)	2010	2011	2012	2013	2014
	15 K.				

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
I	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 Super.

Phone: 801-254-3211

PLEASE SUBMIT TO STATE BY: October 1, 2009

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

Part I: SYSTEM AGE

A. What year was your collection system first constructed (approximately)?

Year 1995

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

Oldest part 1995 years 14 yrs

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	2
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 =			2

B. Please specify whether the bypass(es) was caused a contract or tributary communities, etc.

plugged main

Part III: 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	0
TOTAL PART III =		0

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

40 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

90 new people served

Part IV: OPERATOR CERTIFICATION

A. How many collection system operators are currently employed by your facility?

5 collection system operators employed

B. What is/are the name(s) of your DRC operator(s)?

D. Barnes, W. Eva, J. Callaway
P. Hatfield, Greg Hiatt

C. You are required to have the DRC operator(s) certified at *GRADE II*.

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 _____
- Collection I _____
- Collection II X _____
- Collection III _____
- Collection 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 IV =		0

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	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 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)

Good.

B. What sewerage system improvements does the community have under consideration for the next 10 years?

New mechanical plant

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.

new mechanical 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?

2 times sewage was in basements

F. Does the municipality/district pay for the continuing education expenses of operators?

ALWAYS Y SOMETIMES _____ NO _____

If they do, what percentage is paid?

approximately 100 %

G. Is there a written policy regarding continuing education and training for wastewater operators?

YES Y NO _____

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
II	2
III	0
IV	0
V	0
Total	2

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

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person:

Dennis Barnes

Pub. Works Super.

Phone: 801-754-3211

PLEASE SUBMIT TO STATE BY: October 1, 2009

Mail to: Department of Environmental Quality
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Form completed by

Part I: INFLUENT INFORMATION

A. Please update (if needed) the average design flow and average design BOD₅ and TSS loading for your facility.

	Average Design Flow (MGD)	Average Design BOD ₅ Loading (lbs/day)	Average Design TSS Loading (lbs/day)
Design Criteria	.493	1030	1030
90% of the Design Criteria	.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 2008. (Calculate the BOD₅ and TSS loadings in pounds per day (lbs/day).

Month	(1) Average Monthly Flow (MGD)	(2) Average Monthly BOD ₅ Concentration (mg/L)	(3) Average BOD ₅ Loading (lbs/day) 1	(4) Average Monthly TSS Concentration (mg/L)	(5) Average TSS Loading (lbs/day) 2
January	.472	267	1651	276	1086
February	.485	308	1246	246	935
March	.481	255	1023	214	858
April	.465	291	1129	170	659
May	.475	238	943	224	887
June	.465	296	1148	284	1101
July	.464	231	894	210	818
August	.457	252	960	268	1021
September	.480	157	629	211	845
October	.465	232	900	228	1272
November	.481	233	935	282	1131
December	.487	249	1011	235	954
Average	.473	251	983	246	964

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?	12	0 = 0 points 1 - 2 = 10 points 3 - 4 = 20 points 5 or more = 30 points	30
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	0
How many times did the average monthly BOD ₅ loading (Part B., Column 3) to the wastewater facility exceed 90% of the design loading?	10	0-1 = 0 points 1 - 2 = 10 points 3 - 4 = 20 points 5 or more = 30 points	30
How many times did the average monthly BOD ₅ loading (Part B., Column 3) to the wastewater facility exceed the design loading?	3	0 = 0 points 1 - 2 = 20 points 3 - 5 = 40 points 5 or more = 60 points	40
TOTAL PART I =			110

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 2008.

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	2008	1995	13
Lagoons (including aeration)	2008	2002	6
Disinfection	2008	1995	12
TOTAL PART II (not greater than 20) =			20

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	0
Have you experienced any upset due to septage haulers?	No = 0 points Yes = 10 points	0
TOTAL PART IV =		0

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

40 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

90 new people served

Part V: OPERATOR CERTIFICATION

A. How many treatment system operators are currently employed by your facility?

5 treatment system operators employed

B. What is/are the name(s) of your DRC operator(s)?

D. Barnes, W. Eva, J

J. Callaway, P. Hatfield

Greg Niatt

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.

<i>Not Certified</i>	_____
Small Lagoons	_____
Treatment I	<u>X</u>
Treatment II	_____
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 =		0

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 section should be completed with the facility operators.

- A. Do you consider your wastewater facility to be in good physical and structural condition?

YES x NO _____

If NOT, why?

- B. What improvements do you think the plant will need in the next 5 years?

 Lagoon upgrade or new mec. plant.

- C. Where there any backups into basements at any point in the collection system in 2008.

YES x NO _____

Why? (do not include backups due to clogged laterals)

 plugged mains, kids throwing debris into manhole

- D. Does the municipality/district pay for the continuing education expenses of operators?

ALWAYS x SOMETIMES _____ NO _____

If so, what percentage do they pay?

approximately 100 %

- E. Is there a written policy regarding continuing education and training for wastewater operators?

YES x NO _____

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	110
II	20
III	0
IV	0
V	0
VI	0
Total	130