

# Santaquin City Resolution 08-02-2013

## MUNICIPAL WASTEWATER PLANNING PROGRAM RESOLUTION

**WHEREAS**, the City of Santaquin is a fifth class city in the State of Utah and operates a Wastewater Collection and Treatment System; and

**WHEREAS**, the Utah Division of Water Quality requires of the Santaquin City Public Works Department an annual Wastewater Planning Program Report; and

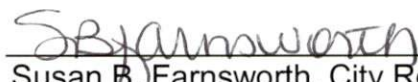
**WHEREAS**, the Utah Division of Water Quality desires formal action of the Santaquin City Council to review said report prior to its submission to the division;

**NOW, THEREFORE, BE IT RESOLVED**, that the Santaquin City Council informs the Water Quality Board that the following actions were taken by the City Council:

1. Reviewed the attached Municipal Wastewater Planning Program Report for 2012 (See Attached)
2. Have taken all appropriate actions necessary to maintain effluent requirements contained in the UPDES Permit (If Applicable)

Approved and adopted by the Santaquin City Council this 21<sup>st</sup> day of August, 2013.

  
James E. DeGraffenried, Mayor

Attest:   
Susan B. Farnsworth, City Recorder



# STATE OF UTAH

## *MUNICIPAL WASTEWATER PLANNING PROGRAM*

### SELF-ASSESSMENT REPORT

FOR

SANTAQUIN

2012



Resolution Number 08-02-2013

**MUNICIPAL WASTEWATER PLANNING PROGRAM RESOLUTION**

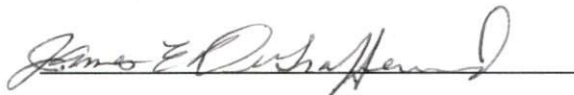
RESOLVED that **SANTAQUIN** informs the Water Quality Board the following actions were taken by the **CITY COUNCIL**

1. Reviewed the attached Municipal Wastewater Planning Program Report for 2012.
2. Have taken all appropriate actions necessary to maintain effluent requirements contained in the UPDES Permit (If Applicable)

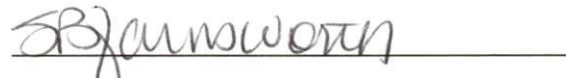
Passed by a (majority) (unanimous) vote on

8-21-13

(date)



Mayor/Chairman



Attest:

Recorder/Clerk



# Municipal Wastewater Planning Program (MWPP) Financial Evaluation Section

Owner Name: SANTAQUIN

Name and Title of Contact Person:

BENJAMIN A. REEVES

SANTAQUIN City Manager

Phone:

(801) 754-3211 x 205

E-mail:

breeves@santaquin.org

**PLEASE SUBMIT TO STATE BY: September 1, 2013**

Mail to: MWPP - Department of Environmental Quality  
c/o Paul Krauth, P.E.  
Division of Water Quality  
195 North 1950 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870  
Phone : (801) 536-4346

*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 Cantón. Utah Division of Water Quality: (801) 536-4342.*

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

## 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	○
Are projected funding sources sufficient to cover all projected capital improvement costs for the <b><i>next five years?</i></b>	YES = 0 points NO = 25 points	○
Are projected funding sources sufficient to cover all projected capital improvement costs for the <b><i>next ten years?</i></b>	YES = 0 points NO = 25 points	○
Are projected funding sources sufficient to cover all projected capital improvement costs for the <b><i>next twenty years?</i></b>	YES = 0 points NO = 25 points	○
Has a dedicated sinking fund been established to provide for future capital improvements?	YES = 0 points NO = 25 points	○
<b>TOTAL PART II =</b>		○



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	<input type="radio"/>
Are you collecting <b>95%</b> or more of your sewer billings?	YES = 0 points NO = 25 points	<input type="radio"/>
Is there a review, at least annually, of user fees?	YES = 0 points NO = 25 points	<input type="radio"/>
Are bond reserve requirements being met if applicable?	YES = 0 points NO = 25 points	<input type="radio"/>
<b>TOTAL PART III =</b>		<input type="radio"/>

Part IV: PROJECTED NEEDS

Estimate as best you can the following:

Cost of projected capital improvements (in thousands)	2014	2015	2016	2017	2018
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**\*\* A NEW \$18M WASTEWATER RECLAMATION FACILITY, MEMBRANE BIO REACTOR [REDACTED] WILL COME ONLINE IN NOVEMBER OF 2013. NO CAPITAL EXPENDITURES PLANNED UNTIL THE MBR 4TH TRAIN COMES ONLINE IN AN ESTIMATED 8-10 YEARS DEPENDING ON GROWTH. IMPACT FEES COLLECTED FROM NEW GROWTH WILL PAY FOR THE PURCHASE OF ADDITIONAL MEMBERSHIPS AND TO BRING THE 4TH TRAIN ONLINE AT THAT TIME.**

**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	<input type="radio"/>
II	<input type="radio"/>
III	<input type="radio"/>
Total	<input type="radio"/>

3  
**Municipal Wastewater Planning Program (MWPP)  
Collection System Section**

Owner Name: SANTAQUIN

Name and Title of Contact Person:

Jason Callaway

Phone:

801-420-3033

E-mail:

JCallaway@santaquin.org

PLEASE SUBMIT TO STATE BY: September 1, 2013

Mail to:

MWPP - Department of Environmental Quality  
c/o Paul Krauth, P.E.  
Division of Water Quality  
195 North 1950 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870  
Phone : (801) 536-4346

Form completed by

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**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 18 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	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
How many days last year was there a bypass, overflow or basement flooding by untreated wastewater due to equipment failure? (except plugged laterals)	0	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
<b>TOTAL PART II =</b>			0

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

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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 <sub>5</sub> loadings to the sewerage system could significantly increase (25%)?	No = 0 points Yes = 10 points	0
<b>TOTAL PART III =</b>		0

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

31 new residential connections

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

0 new commercial/industrial connections

D. Approximate number of new population serviced in the last year

122 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)?

Jason Callaway (DRC) Wade Eva  
Pat Hatfield Gregg Hiatt  
Dennis Barnes

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

What is the current grade of the DRC operator(s)? II

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 All

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
<b>TOTAL PART IV =</b>		



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	<input type="radio"/>
Is it written?	Yes = 0 points No = 20 points	<input type="radio"/>
Do you have a written emergency response plan?	Yes = 0 points No = 20 points	<input type="radio"/>
Do you have an updated operations and maintenance manual	Yes = 0 points No = 20 points	<input type="radio"/>
Do you have a written safety plan?	Yes = 0 points No = 20 points	<input type="radio"/>
<b>TOTAL PART V =</b>		<input type="radio"/>

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 condition

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

New MBR facility 2013 (fall)

Part VI: SUBJECTIVE EVALUATION (cont.)

C. Explain what problems, other than plugging have you experienced over the last year

Force main break - between lift station  
& lagoons

D. Is your community presently involved in formal planning for system expansion/upgrading? If so explain.

New MBR

E. How many times in the last calendar year was there sewage in basements at any point in the collection system for any reason, except for plugging of the lateral connections?

There were 0 total basements with sewage in them in 2012.

How many different times different did flooding occur? \_\_\_\_\_

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

ALWAYS X      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 X      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	
III	
IV	
V	
Total	

2

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

Owner Name: SANTAQUIN CITY

Name and Title of Contact Person:

Jason Callaway

Phone:

801-420-3033

E-mail:

JCallaway@santaquin.org

PLEASE SUBMIT TO STATE BY: September 1, 2013

Mail to: MWPP - Department of Environmental Quality  
c/o Paul Krauth, P.E.  
Division of Water Quality  
195 North 1950 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870  
Phone : (801) 536-4346

Form completed by

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**Part I: INFLUENT INFORMATION**

A. Please update (if needed) the average design flow and average design BOD<sub>5</sub> and TSS loading for your facility.

	Average Design Flow (MGD)	Average Design BOD <sub>5</sub> Loading (lbs/day)	Average Design TSS Loading (lbs/day)
Design Criteria	1,505	1030	1030
90% of the Design Criteria	1,455	927	927

B. Please list the average monthly flows in millions of gallons per day (MGD) and BOD<sub>5</sub> and TSS loadings in milligrams per liter (mg/L) **received** at your facility during 2012. (Calculate the BOD<sub>5</sub> and TSS loadings in pounds per day (lbs/day)).

Month	(1) Average Monthly Flow (MGD)	(2) Average Monthly BOD <sub>5</sub> Concentration (mg/L)	(3) Average BOD <sub>5</sub> Loading (lbs/day) 1	(4) Average Monthly TSS Concentration (mg/L)	(5) Average TSS Loading (lbs/day) 2
January	1,510	254	1080	272	1156
February	1,500	312	1301	224	1301
March	1,515	240	1030	220	945
April	1,510	302	1284	284	1208
May	1,510	260	1105	212	902
June	1,516	256	1102	235	1011
July	1,515	208	893	266	1142
August	1,510	189	804	240	1020
September	1,515	154	661	218	936
October	1,500	308	1284	216	901
November	1,498	239	992	274	1138
December	1,502	296	1239	190	795
Average	1,508	252	1064	238	1037

1 BOD<sub>5</sub> Loading (3) = Average Monthly Flow (1) x Average Monthly BOD<sub>5</sub> 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?	8	0 = 0 points 1 - 2 = 20 points 3 - 4 = 40 points 5 or more = 60 points	60
How many times did the average monthly BOD <sub>5</sub> loading (Part B., Column 3) to the wastewater facility exceed 90% of the design loading?	8	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 <sub>5</sub> loading (Part B., Column 3) to the wastewater facility exceed the design loading?	7	0 = 0 points 1 - 2 = 20 points 3 - 5 = 40 points 5 or more = 60 points	60
<b>TOTAL PART I =</b>			<b>180</b>

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 2012.

$$\text{Points} = \text{Age} = \text{Present Year} - \text{Construction or Upgrade Year.}$$

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	2012	1995	18
Lagoons (including aeration)	2012	2002	11
Disinfection	2012	1995	14
<b>TOTAL PART II (not greater than 20) =</b>			<b>20</b>



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	
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	
<b>TOTAL PART III =</b>			

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	
Are there any major new developments (industrial, commercial, or residential) anticipated in the next 2-3 years, such that either flow or BOD <sub>5</sub> loadings to the sewerage system could significantly increase (25%)?	No = 0 points Yes = 10 points	
Have you experienced any upset due to septage haulers?	No = 0 points Yes = 10 points	
<b>TOTAL PART IV =</b>		

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

31 new residential connections

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

0 new commercial/industrial connections

D. Approximate number of new population serviced in the last year

122 new people served

**Part V: OPERATOR CERTIFICATION**

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

4 treatment system operators employed

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

Jason Callaway (DRC) - Grade IV

Wade Eva Pat Hatfield &

Dennis Barnes grade I

C. You are required to have the DRC operator(s) certified at SMALL LAGOON SYSTEM. we are treatment I due to population

What is the current grade of the DRC operator(s)? I

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 Wade Eva - Pat Hatfield - Dennis Barnes

Treatment II \_\_\_\_\_

Treatment III \_\_\_\_\_

Treatment IV Jason Callaway

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
<b>TOTAL PART V =</b>		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
<b>TOTAL PART VI =</b>		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  NO

If NOT, why?

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

New MBR 2013

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- C. Where there any backups into basements at any point in the collection system in 2012.

YES  NO

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

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

ALWAYS  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  NO



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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	180
II	20
III	0
IV	0
V	0
VI	0
Total	200