

Resolution Number 03-03-2003

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 Municipal Wastewater Planning Program Report for 2002, which is attached to this resolution.
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

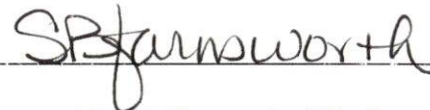
March 19, 2003

(date)





Mayor/Chairman



Attest: Recorder/Clerk



STATE OF UTAH

MUNICIPAL WASTEWATER PLANNING PROGRAM

SELF-ASSESSMENT REPORT

FOR

SANTAQUIN CITY

2002



Municipal Wastewater Planning Program (MWPP) Collection System Section

Owner Name: *SANTAQUIN CITY*

Name and Title of Contact Person:

Dennis Barnes

Phone: (801) 754-3211

PLEASE SUBMIT TO STATE BY: APRIL 1, 2003 (fools day!)

Mail to: MWPP c/o Paul Krauth
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : 538-6018
Cellular : 971-7507
E-mail: PKRAUTH@UTAH.GOV

Form completed by
Dennis Barnes

Part I: SYSTEM AGE

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

Year 95

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

Oldest part 8 years

Part II: BYPASSES

A. Please complete the following table:

Question	Number	Points Earned	Total Points
How many days in the past 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 in the 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	00
TOTAL PART II =			

B. Please specify whether the bypasses was caused a contract or tributary communities, etc.

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

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

81 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

260 new people served

Part IV: 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)?

Dennis Barnes, Wade Eva, Mike Cruz

Jason Callaway, Ray Ross

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

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

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>	<u> </u>
Small Lagoons	<u>5</u>
Collection I	<u> </u>
Collection II	<u> </u>
Collection III	<u> </u>
Collection IV	<u> </u>

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 - New

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

New Lift Station

Winter Storage

Monitoring Equipment

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.

Building new winter storage pond

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?

1 times sewage was in basements

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	0
III	0
IV	0
V	0
Total	0

Municipal Wastewater Planning Program (MWPP) Financial Evaluation Section

Owner Name: *SANTAQUIN CITY*

Name and Title of Contact Person:

Dennis Barnes

P.W.D.

Phone: (801) 754-3211

PLEASE SUBMIT TO STATE BY: APRIL 1, 2003 (fools day!)

Mail to: MWPP c/o Paul Krauth
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Phone : 538-6018
Cellular : 971-7507
E-mail: PKRAUTH@UTAH.GOV

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 Sid Curnow, 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 next five years?	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 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	25
Has a dedicated sinking fund been established to provide for future capital improvements?	YES = 0 points NO = 25 points	0
TOTAL PART II =		25

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:

	2003	2004	2005	2006	2007
Cost of projected capital improvements (in thousands)	920K				85K

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	25
III	0
Total	25

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

Owner Name: *SANTAQUIN CITY*

Name and Title of Contact Person:

Dennis Barnes

P.W.D.

Phone: (801) 754-3211

PLEASE SUBMIT TO STATE BY: APRIL 1, 2003 (fools day!)

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Phone : 538-6018
Cellular : 971-7507
E-mail: PKRAUTH@UTAH.GOV

Form completed by

Dennis Barnes

Part I: INFLUENT INFORMATION

A. Please list the average design flow and 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 2002. (Calculate the BOD₅ and TSS loadings in pounds per day (lbs/day).

<i>Month</i>	(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	.338	120	338	270	761
February	.352	200	597	270	705
March	.380	170	539	170	539
April	.348	260	755	260	755
May	.426	200	711	270	853
June	.370	220	679	320	987
July	.380	260	624	280	887
August	.409	200	682	270	921
September	.400	200	667	200	667
October	.336	210	588	210	588
November	.350	230	671	200	584
December	.356	260	772	270	802
<i>Average</i>	.370	211	635	244	754

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

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 2002.

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	2002	1995	7
Lagoons (including aeration)	2002	1995	7
Disinfection	2002	1995	7
TOTAL PART III (not greater than 20) =			21

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 septic haulers?	No = 0 points Yes = 10 points	0
TOTAL PART IV =		0

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

_____ 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

_____ 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)?

Dennis Barnes, Wade Eva, Mike Cruz
Ray Ross, Jason Callaway

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

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

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 5
 Treatment I _____
 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 NO

If NOT, why?

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

Winter Storage Ponds

Part VII: SUBJECTIVE EVALUATION (cont.)

C. Where there any backups into basements at any point in the collection system in 2002.

YES NO

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

plug in the main line

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

F. Have you done any major repairs or mechanical equipment replacement in 2002? (do not include construction or upgrade projects)

YES NO

G. What was the approximate cost for those repairs or replacements?

\$ N/A

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	
II	
III	
IV	
V	
VI	
Total	