CITY OF LOGAN RESOLUTION NO. 18-27

A RESOLUTION APPROVING THE MUNICIPAL WASTEWATER PLANNING PROGRAM (MWPP)ANNUAL REPORT

WHEREAS, each year the City of Logan completes a Municipal Wastewater Planning Program (MWPP) Annual Report for the State of Utah Division of Environmental Quality.

NOW THEREFORE, BE IT RESOLVED THAT THE LOGAN MUNICIPAL COUNCIL informs the Water Quality Board the following actions were taken:

- 1. Reviewed the attached Municipal Wastewater Planning Program Report for 2017.
- 2. Have taken all appropriate actions necessary to maintain effluent requirements contained in the UPDES Permit.

PASSED BY THE LOGAN MUNICIPAL COUNCIL THIS 17 DAY OF JULY, 2018

Thomas C. Jensen, Chairman

ATTEST:

Teresa Harris, City Recorder



Municipal Wastewater Planning Program (MWPP) Annual Report

2017

	Please Select the Appropriate Facility from the Dropdown	Menu
Facility Name:	LOGAN	
Facility Class and Grade	COLLECTION III TREATMENT	II
Owner Name:	Logan City	
Name and Title of Contact Person:	Issa A. Hamud	
	Environmental Direct	ctor
Phone:	(435) 716-9752	
E-mail:	issa.hamud@loganutah.org	

SUBMIT BY APRIL 16, 2018

Electronic Submittal: https://deq.utah.gov/ProgramsServices/services/submissions/index.htm

NOTE: This questionnaire has been compiled for your benefit to assist you in evaluating the technical and financial needs of your wastewater systems. If you received financial assistance from the Water Quality Board, annual submittal of this report is a condition of that assistance. Please answer questions as accurately as possible to give you the best evaluation of your facility. If you need assistance please call Beth or Judy, Utah Division of Water Quality: (801) 536-4300.

Definitions

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

¹Asset Management – Any combination of management tools applied to physical assets of the sewer system with the objective of providing the required level of service in the most cost-effective manner. It incorporates asset lifecycle management tools, including depreciation, with the accountant's cost allocation process.

²Capital Facility Plan – An engineering report detailing the planning procedures including a comprehensive analysis to establish the need, scope, basis, viability and implementation schedule of proposed sewer system projects.

³Capital Improvements - Addition of a permanent structural change or the restoration of a property that renews or improves its value, increases its useful life, or adapts it to new uses.

⁴Capital Improvement Reserve Fund - A fund or account established for capital improvement projects.

Debt Service - A payment of interest and principal, usually due annually, made in repayment of a loan or bond obligation.

⁶Debt Service Reserve Fund - A fund or account established for use in making up deficiencies in bond repayment funds.

⁷Equivalent Residential Connection (ERC) - A unit of wastewater that incurs the same cost for operations and maintenance as the average volume of domestic waste discharged from a single family residence in the sewer system service area

⁶Impact Fee – A fee established by ordinance to be imposed on new development for payment of capital costs associated with providing public services to the new development.

Operation and Maintenance Costs - The total annual cost for management, operations and maintenance of sewer systems including labor and benefits, general and administrative overhead, materials, supplies, utilities, fuel, tools, etc. These costs do not include capital improvements costs or debt service. Repair and replacement costs for fixed assets may be included.

¹⁰Plan of Operations — A plan summarizing the operational and financial requirements that the sewer system must meet to achieve its goals and purpose. The minimum requirements are established I UAC R137-3-1.8

11 Rate Study – A study that establishes the user charge(s) of a sewer system based on the required level of service and its cost.

¹²Repair and Replacement Costs - The annual cost to renew or replace fixed assets of the sewer system. Fixed assets are generally land, buildings and equipment. These are often major major costs not included in operations and maintenance budgets.

¹³Repair and Replacement Sinking Fund - A fund or account established for renewal or replacement of fixed assets.

¹⁴Sewer Revenues - Income from user charges and other fees or taxes collected to pay the cost of sewer systems.

¹⁵Sewer System - The collective of sewerage systems and treatment works operated by the public utility or sponsor.

¹⁶User Charge - A fee established by ordinance and used to pay the cost of sewer systems. Different fees may be established for one or more classes of users. For purposes of this survey, user charge means the <u>annual average</u> fee charges per sewer connection.

Instructions

Save this file to your local computer. The digital MWPP form is built in Microsoft excel. Please contact Beth or Judy if you cannot find your facility name or having trouble downloading your digital MWPP form.

You will need to fill all the yellow boxes with the appropriate information. Several of the questions are Yes/No questions that require you to select the yellow cell and then click the small arrow drop down button to be able to select the appropriate answer. You may move through the worksheet by simply pressing tab to move from box to box. Hitting Enter within the form may cause you to skip over questions. Please be sure to verify that all yellow boxes have been filled with the appropriate information. Begin filling out the form by selecting the name of your facility from the dropdown menu. Please be sure to select the correct facility from the dropdown menu. DWQ will only accept one form from each facility. Once you have entered all the appropriate information in all the yellow boxes the MWPP form is complete and you are ready to submit the completed MWPP package back to DWQ. Please be sure to save your completed form. Please do not submit your form until you have the date the MWPP was presented to your Board or Council completed. You may not submit a second form with the date at a later time. DWQ will only accept one form from each facility. If you experience any trouble or have any questions please contact DWQ Engineering Section Staff.

Financial Evaluation Section

Form completed by:

Jim Harps

May Receive Continuing Education /units (CEUs)

LOGAN

Part I: OPERATION AND MAINTENANCE	
Question	Answer
	Amount
What was the User Charge ¹⁶ for 2017?	\$ 345.00

Yes/No

No Yes
Voc
res
Yes
Yes
Yes
Yes

Complete the following table:

LOGAN

Part II: CAPITAL IMPROVEMENTS	
Question A	
	YES/NO
Are sewer revenues sufficient to cover all costs of current capital improvements ³ projects?	Yes
Has a Capital Improvements Reserve Fund ⁴ been established to provide for anticipated capital improvement projects?	Yes
Are projected Capital Improvements Reserve Funds sufficient for the <u>next five</u> <u>years</u> ?	Yes
Are projected Capital Improvements Reserve Funds sufficient for the <u>next ten</u> <u>years</u> ?	Yes
Are projected Capital Improvements Reserve Funds sufficient for the <u>next</u> <u>twenty years</u> ?	Yes

Complete the following table:

LOGAN

complete the following table.	
Part III: GENERAL QUESTIONS	
Question	Answer
	YES/NO
Are sewer revenues maintained in a dedicated purpose enterprise/district account?	Yes

Are you collecting 95% or more of your anticipated sewer revenue?	
Are Debt Service Reserve Fund ⁶ requirements being met?	Yes
Do you have a written emergency response plan for sewer systems?	Yes
Do you have a written safety plan for sewer systems?	Yes

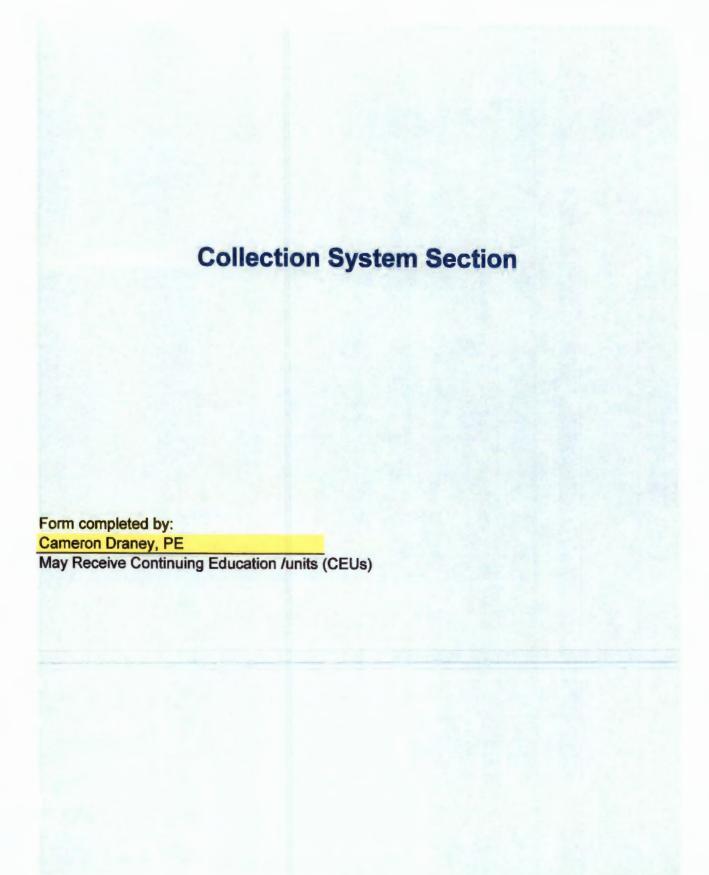
LOGAN

Part IV: FISCAL SUSTAINABILITY REVIEW	
Question	Answer
	YES/NO
Have you completed a Rate Study ¹¹ within the last five years?	Yes
Do you charge Impact fees ⁸ ?	Yes
Have you completed an Impact Fee Study in accordance with UCA 11-36a-3 within the last five years?	Yes
Do you maintain a Plan of Operations ¹⁰ ?	Yes
Have you updated your Capital Facility Plan ² within the last five years?	Yes
Do you use an Asset Management ¹ system for your sewer systems?	Yes
Do you know the total replacement cost of your sewer system capital assets?	Yes
Do you fund sewer system capital improvements annually with sewer revenues at 2% or more of the total replacement cost?	Yes
Please enter the date that this MWPP package was presented to your Board or Council	4/17/2018

Provide your best estimate of the following costs:

Part IV:	PROJECTED	NEEDS		-
rait iv.		200		
	2018	2019	2020	2021
Cost of projected capital	#########	\$45,000,000	\$45,000,000	\$0
improvements	2022	2023		
	\$0	\$0		

FINANCIAL EVALUATION SECTION END



LOGAN

The state of the s	
Part I: SYSTEM AGE	
Question	Answer
What year was your collection system first constructed (approximately)?	1914
What year was the the oldest part of your collection system constructed, replaced, or renewed?	1914

Complete the following table:

LOGAN

Part II: DISCHARGES	
Question	Answer
	Number
How many days last year was there a sewage bypass, overflow or basement flooding in the system due to rain or snowmelt?	1
How many days last year was there a sewage bypass, overflow or basement flooding due to equipment failure (except plugged laterals)?	0

The Utah Sewer Management Program defines two classes of sanitary sewer overflows (SSOs):

Class 1 - a Significant SSO means a SSO or backup that is not caused by a private lateral

- (a) affects more than five private structures;
- (b) affects one or more public, commercial or industrial structure(s);
- (c) may result in a public health risk to the general public;
- (d) has a spill volume that exceeds 5,000 gallons, excluding those in single private structures; or
- (e) discharges to Waters of the state.

Class 2-a Non-Significant SSO means a SSO or backup that is not caused by a private lateral

Below include the number of SSOs that occurred in year:

2017

Number of Class 1 SSOs in Calendar year	1
Number of Class 2 SSOs in Calendar year	0

Please indicate what caused the SSO(s) in the previous question.

In February of 2017 there was a abnormally warm night with rain that caused the abnormally high amount of snow on the ground to rapidly melt. The sewer system in areas reached capacity but did not overflow. However, at one point during the capacity night, a sandbag used to plug an old connection dislodged and plugged a manhole, causing the basements of several homes to flood before the cause was found and

Please specify whether the SSOs were caused by contract or tributary community, etc.

No.

LOGAN

Part III: NEW DEVELOPMENT	
Question	Answer
	Yes/No
Did an industry or other development enter the community or expand production in the past two years, such that flow or wastewater loadings to the sewerage system increased by 10% or more?	No
Are new developments (industrial, commercial, or residential) anticipated in the next $2 - 3$ years that will increase flow or BOD_5 loadings to the sewerage system by 25% or more?	No
Number of new residential sewer connections added in the last year	100
Number of new commercial/industrial connections in the last year	15
Equivalent residential connections ⁷ served	9,550

Complete the following table:		LOGA
Pa	art IV: OPERATOR CERTIFIC	CATION
Question	Answer	
How many collection system	operators do you employ?	5
Approximate population serve	ed .	48000
Direct-Responsible-Charge (L		m operators considered to be in fied at lease at the Facility's Grade erator(s)?
Paul Lindhardt	4	O, a.to. (e) .
Bill Young	4	Facility Class & Grade
Issa Hamud	4	COLLECTION
Jim Johnson	4	TREATMENT
Jim Harps	4	
Jared Pratt	4	
	tors in your system by their ce the list isn't visible within the uchley, Scott Day	cell.
Not Certified Small Lagoons Collection I	[Names	

Collection II	[Names]	
Collection III	Corey Brindley	
	Draney, Paul Lindhardt, J	
Collection IV		
		Yes/No
Is/are your DRC operator(s) currently confacility?	ertified at the appropriate grade for this	Yes

Complete the following table:

Part V: FACILITY MAINTENANCE

Question

LOGAN

Answer Yes/No

Have you implemented a preventative maintenance program for your collection system?	
lave you updated the collection system operations and maintenance in within the past 5 years?	manual Yes
Complete the following table:	LOGAI
Part VI: SSMP EVALUATION	
Question	Answer
	Yes/No
las your system completed a Sewer System Management Plan (SSM	P)? Yes
las the completed SSMP been public noticed?	Yes
Date of Public Notice	9/1/15
Has the SSMP been adopted by the permittee's governing body at a preeting?	ublic Yes
During the annual assessment of the SSMP, were any adjustments ne based on the performance of the plan?	eeded No
If yes, what components of the plan were changed (i.e. line cleaning, (manhole inspections and/or SSO events)?	CCTV inspections,
	Yes/No
During 2017, was any part of the SSMP audited as part of the five yea	

Yes/N

This section should be completed with the system operators.

LOGAN

Part VII: NARRATIVE EVALUATION	
Question	
Describe the physical condition of the sewerage system: (lift stations, etc. include	
The system as a whole is adequately meets the demands of the City's population are areas that need repairs and/or upsizing.	ations.
What sewerage system capital improvements ³ does the utility need to implement in 10 years?	in the next
Certain areas that are increasing in housing density may need to be upsized certain areas will be addressed to increase exisitng infrastructure capacity.	. I&I in
What sewerage system problems, other than plugging, have you had over the last	t year?
High I&I in certain areas have caused sewer mains to approach or exceed ca Root issues remains a consistant battle.	apacity.
Is your utility currently preparing or updating its capital facility plan ² ?	
Yes, we are in the process of completing a new master plan.	
	Select
	Answer
Does the municipality/district pay for the continuing education expenses of operators?	100% covered
Is there a written policy regarding continuing education and training for wastewate	er operators?
No.	

Any additional comments?	

Discharging Lagoon Facility

Form completed by:

Jim Harps
May Receive Continuing Education /units (CE:Us)

LOGAN

Part I: INFLUENT INFORMATION

Question

Please provide the average <u>influent</u> flow rate and average <u>influent</u> BOD₅ and TSS loading rates listed below for your facility.

	Average Daily Flow (MGD)	Average Daily BOD₅ Load (Ib/day)	Average Daily TSS Load (lb/day)
Design Basis or Rated Capacity	19.3	21310	21310
2017 Average	15.8	15680	15680
Percent Capacity in Use	82%	74%	74%

Complete the following table:

LOGAN

Part II: EFFLUENT INFORMATION	
Question	Answer
How many Notices of Violation (NOVs) did you receive for this facility in the review year?	0

Complete the following table:

LOGAN

Part III: FACILITY AGE

Question

In what year were the following process units most recently constructed, upgraded or renewed?

Note: If a unit process does not apply to your system **enter the Evaluation Year** under Construction or Upgrade Year.

Unit Process	Evaluation Year	Construction or Upgrade Year	Age	
Headworks	2017	1988	29	
Lagoons (including aeration)	2017	1988	29	
Disinfection	2017	2007	10	

Complete the following table:

LOGAN

Part IV: DISCHARGES	
Question	Answer
How many days in the past year was there a bypass or overflow of wastewater at the facility due to high flows?	2
How many days in the last year was there a bypass or overflow of wastewater at the facility due to equipment failure?	0

LOGAN

Part V: NEW DEVELOPMENT	
Question	Answer
Number of new residential sewer connections added in the last year	
Number of new commercial/industrial connections added in the last year	39
Equivalent residential connections ⁷ served	

Complete the following table:

LOGAN

How many treatment opera	ators do you employ?	6
Utah Administrative Rules	require all public system operators of	considered to be in Direct-
	to be appropriately certified at least	
Mhat is the surrent grade of	of the treatment evetem DBC energi	tor(a)2
vvnat is the current grade of	of the treatment system DRC operat	tor(s)?
Jim Harps	Treatment II	
Issa Hamud	Treatment II	Facility Class & Grade
[Names]	[Grade]	COLLECTION III
[Names]	[Grade]	TREATMEN II
[Names]	[Grade]	
[Names]	[Grade]	
	ur system by their certification class.	
	n if the list isn't visible within the cell	
Not Certified	ohn Newbold, Ryan	Jenk
Small Lagoons	[Names]	
Treatment I	[Names]	
Treatment I	, Jim Harps, Tim Lir	ndsay,
Treatment II		
Treatment II	[Names]	
Treatment II Treatment III Treatment IV		
Treatment II Treatment III	[Names]	Yos/N
Treatment II Treatment III Treatment IV	[Names]	Yes/Nate grade for this

Complete the following table:

LOGAN

Complete are remerring table.	
Part VII: FACILITY MAINTENANCE	
Question	Answer
	Yes/No
Have you implemented a preventative maintenance program for your treatment system?	Yes

anual Yes
Yes/No
Yes
No
Yes
No
Yes
No