

*Municipal Wastewater Planning Program (MWPP)
Annual Report
for the year ending 2020
PAYSON CITY*

Thank you for filling out the requested information. Please let DWQ know when it is approved by the Council.

Please download a copy of your form by clicking "Download PDF" below.

Below is a summary of your responses

[Download PDF](#)

SUBMIT BY APRIL 15, 2021

Are you the person responsible for completing this report for your organization?

Yes

No

This is the current information recorded for your facility:

Facility Name:	PAYSON CITY
Contact - First Name:	Nestor
Contact - Last Name:	Gallo
Contact - Title	Development Engineer
Contact - Email:	

Contact - Phone:	801-879-5487
Contact - Email:	nestorg@payson.org

Is this information above complete and correct?

Yes

No

Your wastewater system is described as Collection, Mechanical Treatment & Financial:

Classification: COLLECTION

Grade: III

(if applicable)

Classification: TREATMENT

Grade: IV

Is this correct?

WARNING: If you select 'no', you will no longer have access to this form upon clicking Save & Continue. DWQ will update the information and contact you again.

Yes

No

Click on a link below to view examples of sections in the survey:

(Your wastewater system is described as Collection, Mechanical Treatment & Financial)

[MWPP Collection System.pdf](#)

[MWPP Discharging Lagoon.pdf](#)

[MWPP Financial Evaluation.pdf](#)

[MWPP Mechanical Plant.pdf](#)

[MWPP Non-Discharging Lagoon.pdf](#)

Will multiple people be required to fill out this form?

Yes

No

Financial Evaluation Section

Form completed by:

Nestor Gallo, P.E.

Part I: GENERAL QUESTIONS

Yes

No

Are sewer revenues maintained in a dedicated purpose enterprise/district account?

Yes

No

Are you collecting 95% or more of your anticipated sewer revenue?

Are Debt Service Reserve Fund⁶ requirements being met?

What was the annual average User Charge¹⁶ for 2020?

35.58

Do you have a water and/or sewer customer assistance program * (CAP)?

Yes

No

Part II: OPERATING REVENUES AND RESERVES

	Yes	No
Are property taxes or other assessments applied to the sewer systems ¹⁵ ?	<input type="radio"/>	<input checked="" type="radio"/>
Are sewer revenues ¹⁴ sufficient to cover operations & maintenance costs ⁹ , and repair & replacement costs ¹² (OM&R) at this time?	<input type="radio"/>	<input checked="" type="radio"/>
Are projected sewer revenues sufficient to cover OM&R costs for the <i>next five years</i> ?	<input type="radio"/>	<input checked="" type="radio"/>
Does the sewer system have sufficient staff to provide proper OM&R?	<input type="radio"/>	<input checked="" type="radio"/>
Has a repair and replacement sinking fund ¹³ been established for the sewer system?	<input type="radio"/>	<input checked="" type="radio"/>
Is the repair & replacement sinking fund sufficient to meet anticipated needs?	<input type="radio"/>	<input checked="" type="radio"/>

Part III: CAPITAL IMPROVEMENTS REVENUES AND RESERVES

	Yes	No
Are sewer revenues sufficient to cover all costs of current capital improvements ³ projects?	<input type="radio"/>	<input checked="" type="radio"/>
Has a Capital Improvements Reserve Fund ⁴	<input type="radio"/>	<input checked="" type="radio"/>

been established to provide for anticipated capital improvement projects?

Yes

No

Are projected Capital Improvements Reserve Funds sufficient for the *next five years*?

Are projected Capital Improvements Reserve Funds sufficient for the *next ten years*?

Are projected Capital Improvements Reserve Funds sufficient for the *next twenty years*?

Part IV: FISCAL SUSTAINABILITY REVIEW

Yes

No

Have you completed a Rate Study¹¹ within the last five years?

Do you charge Impact fees⁸?

2020 Impact Fee (if not a flat fee, use average of all collected fees) =

\$2,590.00 per connection

Yes

No

Have you completed an Impact Fee Study in accordance with UCA 11-36a-3 within the last five years?

Do you maintain a Plan of Operations¹⁰?

Have you updated your Capital Facility Plan² within the last five years?

Yes

No

Do you use an Asset Management¹ system for your sewer systems?

Describe the Asset Management System (check all that apply)

Spreadsheet

GIS

Accounting Software

Specialized Software

Other

Yes

No

Do you know the total replacement cost of your sewer system capital assets?

Yes

No

Do you fund sewer system capital improvements annually with sewer revenues at 2% or more of the total replacement cost?

What is the sewer/treatment system annual asset renewal* cost as a percentage of its total replacement cost?

What is the sewer/treatment system annual asset renewal* cost as a percentage of its total replacement cost?

Part V: PROJECTED CAPITAL INVESTMENT COSTS

Cost of projected capital improvements

	Cost	Purpose of Improvements		
	Please enter a valid numerical value	Replace/Restore	New Technology	Increase Capacity
2021	342,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2021 thru 2025	7,000,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2026 thru 2030	7,188,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2031 thru 2035	22,000,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2036 thru 2040	24,000,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This is the end of the Financial questions

To the best of my knowledge, the Financial section is completed and accurate.

Yes

Collections System Section

Form completed by:

May Receive Continuing Education /units (CEUs)

Nestor Gallo, P.E.

What is the largest diameter pipe in the collection system (diameter in inches)?

36

What is the average depth of the collection system (in feet)?

9

What is the total length of sewer pipe in the system (length in miles)?

91

How many lift/pump stations are in the collection system?

One public lift/ pump station and six private lift stations.

What is the largest capacity lift/pump station in the collection system (design capacity in gallons per minute)?

600

Do seasonal daily peak flows exceed the average peak daily flow by 100 percent or more?

Yes

No

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

1938

In what year was the largest diameter sewer pipe in the collection system constructed, replaced or renewed? (If more than one, cite the oldest)

2019

PART II: DISCHARGES

How many days last year was there a sewage bypass, overflow or basement flooding in the system due to rain or snowmelt?

0

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 obstruction or problem that:

- (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 obstruction or problem that does not meet the Class 1 SSO criteria.

Below include the number of SSOs that occurred in year: 2020

Number

Number of Class 1 SSOs in Calendar year

0

Number of Class 2 SSOs in Calendar year

0

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

The sanitary sewer mains had obstructions from adjacent tree roots.

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

N/A

Part III: NEW DEVELOPMENT

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?

Yes

No

Are new developments (industrial, commercial, or residential) anticipated in the next 2 - 3 years that will increase flow or BOD5 loadings to the sewerage system by 25% or more?

Yes

No

Number of new commercial/industrial connections in the last year

9

Number of new residential sewer connections added in the last year

157

Equivalent residential connections⁷ served

5,963

Part IV: OPERATOR CERTIFICATION

How many collection system operators do you employ?

6

Approximate population served

21,082

State of Utah Administrative Rules requires all public system operators considered to be in Direct Responsible Charge (DRC) to be appropriately certified at least at the Facility's Grade.

List the designated Chief Operator/DRC for the Collection System below:

	Name First and Last Name	Grade	Email Please enter full email address
Chief Operator/DRC	Jeff Hiatt	II	Jeffh@payson.org

List all other Collection System operators with DRC responsibilities in the field, by certification grade, separate names by commas:

	Name separate by comma
SLS ¹⁷ Grade I:	None
Collection Grade I:	None
Collection Grade II:	Jeff Hiatt
Collection Grade III:	None
Collection Grade IV:	None

List all other Collection System operators by certification grade, separate names by commas:

	Name separate by comma
SLS ¹⁷ Grade I:	None
Collection Grade I:	Rick Gout
Collection Grade II:	Jeff Hiatt
Collection Grade III:	None
Collection Grade IV:	Phillip Lundell
No Current Collection Certification:	None

Is/are your collection DRC operator(s) currently certified at the appropriate grade for this facility?

Yes

No

Yes

No

Have you implemented a preventative maintenance program for your collection system?

Have you updated the collection system operations and maintenance manual within the past 5 years?

Do you have a written emergency response plan for sewer systems?

Do you have a written safety plan for sewer systems?

Is the entire collections system TV inspected at least every 5 years?

Is at least 85% of the collections system mapped in GIS?

Part VI: SSMP EVALUATION

Yes

No

Has your system completed a Sewer System Management Plan (SSMP)?

Has the SSMP been adopted by the permittee's governing body at a public meeting?

Has the completed SSMP been public noticed?

During the annual assessment of the SSMP, were any adjustments needed based on the performance of the plan?

Date of Public Notice

During 2020, was any part of the SSMP audited as part of the five year audit?

Yes

No

If yes, what part of the SSMP was audited and were changes made to the SSMP as a result of the audit?

The GIS mapping information is being updated periodically as new development is constructed. An evaluation of the sanitary sewer capacity is completed for new development using SewerGEMS software.

Have you completed a System Evaluation and Capacity Assurance Plan (SECAP) as defined by the Utah Sewer Management Program?

Yes

No

Part VII: NARRATIVE EVALUATION

[This section should be completed with the system operators.](#)

Describe the physical condition of the sewerage system: (lift stations, etc. included)

According to the sanitary sewer hydraulic model completed by Bowen and Collins, approximately 95% of the sewer system is operating at a peak flow/ capacity ratio of 50% or less. The proposed budget for the upcoming five years includes CIP projects intended to upsize the 5% of the sanitary sewer system operating above the 50% peak flow/ capacity ratio. The sanitary sewer system is in average condition. There are areas where existing pipes may need to be removed and replaced or slip lined in order to reduce and eliminate the infiltration of

groundwater.

What sewerage system capital improvements³ does the utility need to implement in the next 10 years?

2020 = Interstate 15/ 400 North to Utah Avenue pipe upgrades. 2020 = 800 South/ SR-198 to Main Street - pipe replacement. 2021 = Lift station 1 Pressure Force Main and Gravity Line. 2025 = Lift station 3 Pressure Force Main and Gravity Line. 2025 = Lift station 4 Pressure Force Main and Gravity Line.

What sewerage system problems, other than plugging, have you had over the last year?

Roots in the sanitary sewer main pipes, and pipe corrosion due to high concentration of H₂S gases.

Is your utility currently preparing or updating its capital facilities plan²?

Yes

No

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

100% Covered

Partially cover

Does not pay

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

Yes

No

Any additional comments?

Payson City hired Bowen and Collins Engineering to update the Sanitary Sewer Master Plan, update the Capital Improvement Plan program, and update the impact fees. The Master Plan and the impact fees were formally adopted by the Payson City Council in September 2020.

This is the end of the Collections System questions

To the best of my knowledge, the Collections System section is completed and accurate.

Yes

Mechanical Plant Section

Form completed by:

May Receive Continuing Education /units (CEUs)

Nestor Gallo, P.E.

Part I: INFLUENT INFORMATION

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

	Average Daily Flow (MGD)	Average Daily BOD ₅ Load (lb/day)	Average Daily TSS Load (lb/day)
Design Basis or Rated Capacity	3.0	4,400	4,400
2020 Average	1.02	1,581	693

Part II: EFFLUENT INFORMATION

How many Notices of Violation (NOVs) did you receive for this facility in the review year?

0

How many days in the past year was there a bypass or overflow of wastewater at the facility due to high flows?

0

Part III: FACILITY AGE

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

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

	Evaluation Year	Construction or Upgrade Year	Age
Headworks	2020	2001	19
Primary Treatment	2020	1984	35
Secondary Treatment	2020	2001	19
Tertiary Treatment	2020	2001	19
Solids Handling	2020	2001	19
Disinfection	2020	2001	19
Land Application/Disposal	2019	2001	19

PART IV: DISCHARGES

How many days in the last year was there a bypass or overflow of wastewater at the facility due to equipment failure?

0

PART V: BIOSOLIDS HANDLING

Biosolids Disposal (check all that apply)

Yes

No

Landfill

Land Application

Give Away/Other Distribution

Part VI: NEW DEVELOPMENT

Number of new commercial/industrial connections in the last year

9

Number of new residential sewer connections added in the last year

156

Equivalent residential connections⁷ served

5,964

Part VII: OPERATOR CERTIFICATION

How many treatment system operators do you employ?

7

State of Utah Administrative Rules requires all public system operators considered to be in Direct Responsible Charge (DRC) to be appropriately certified at least at the Facility's Grade.

List the designated Chief Operator/DRC for the Wastewater Treatment System below:

	Name First and Last Name	Grade	Email Please enter full email address
Chief Operator/DRC	Jeff Hiatt	IV	jeffh@payson.org

List all other Wastewater Treatment System operators with DRC responsibilities in the field, by certification grade, separate names by commas:

	Name separate by comma
SLS ¹⁷ Grade I:	None
Treatment Grade I:	None
Treatment Grade II:	None
Treatment Grade III:	None
Treatment Grade IV:	Jeff Hiatt

List all other Wastewater Treatment System operators by certification grade, separate names by commas:

	Name Name separate by comma separate by comma
SLS ¹⁷ Grade I:	None
Treatment Grade I:	None
Treatment Grade II:	None
Treatment Grade III:	None
Treatment Grade IV:	Jeff Hiatt, Tyler Lowe

Is/are your DRC operator(s) currently certified at the appropriate grade for this facility?

Yes

No

Part VIII: FACILITY MAINTENANCE

Yes

No

Have you implemented a written preventative maintenance program for your treatment system?

Have you updated the treatment system operations and maintenance manual within the past 5 years?

Identify the types of treatment equipment and processes installed at your facility.

Yes

No

Screens

Grit Removal

Primary Clarifiers

	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Imhoff Tanks	<input type="radio"/>	<input checked="" type="radio"/>
Fixed Film Reactor	<input type="radio"/>	<input checked="" type="radio"/>
Activated Sludge	<input checked="" type="radio"/>	<input type="radio"/>
Aerobic Suspend Growth Variations	<input checked="" type="radio"/>	<input type="radio"/>
Anaerobic Suspended Growth variations	<input type="radio"/>	<input checked="" type="radio"/>
Physical-chemical systems for organic removal w/o secondary treatment	<input type="radio"/>	<input checked="" type="radio"/>
Physical-chemical systems for organic removal following secondary treatment	<input type="radio"/>	<input checked="" type="radio"/>
Membrane Filtration	<input type="radio"/>	<input checked="" type="radio"/>
Suspended-growth Nitrification and Denitrification	<input type="radio"/>	<input checked="" type="radio"/>
Air Stripping	<input type="radio"/>	<input checked="" type="radio"/>
Phosphorus Removal - Chemical	<input type="radio"/>	<input checked="" type="radio"/>
Phosphorus Removal - Biological	<input type="radio"/>	<input checked="" type="radio"/>
Ion Exchange	<input type="radio"/>	<input checked="" type="radio"/>
Reverse Osmosis	<input type="radio"/>	<input checked="" type="radio"/>
Media Filtration	<input checked="" type="radio"/>	<input type="radio"/>
Dissolved Air Flotation	<input checked="" type="radio"/>	<input type="radio"/>
Micro Screens	<input type="radio"/>	<input checked="" type="radio"/>
Chlorine Disinfection	<input checked="" type="radio"/>	<input type="radio"/>
UV Disinfection	<input type="radio"/>	<input checked="" type="radio"/>
Effluent use/Reuse	<input checked="" type="radio"/>	<input type="radio"/>

This is the end of the Mechanical Plant questions

To the best of my knowledge, the Mechanical Plant section is completed and accurate.

Yes

I have reviewed this report and to the best of my knowledge the information provided in this report is correct.



Has this been adopted by the council? If no, what date will it be presented to the council?

Yes

No

What date will it be presented to the council?

Date format ex. mm/dd/yyyy

03/03/2021

Please log in.

Email

nestorg@payson.org

PIN

....

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 send an email to wqinfodata@utah.gov and we will contact you as soon as possible. You may also visit our [Frequently Asked Questions](#) page.

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