#### **CARROLL VALLEY BOROUGH**

#### PUBLIC SEWER ADVISORY COMMITTEE

#### **REGULAR MEETING**

#### MONDAY, MARCH 25, 2024 – 7:00 P.M.

#### AGENDA

Roll Call

- 1. Approval of Minutes: January 22, 2024
- 2. Open to the Public
- 3. Administrative Business
- 4. Unfinished Business
  - a. Sewer Treatment Plant Update
  - b. Sump Pumps Connected to Sewer System

#### 5. New Business

- a. Chapter 94 Report
- 6. Open to the Public
- 7. Adjournment

## **CARROLL VALLEY BOROUGH**

2023

## MUNICIPAL WASTELOAD MANAGEMENT ANNUAL

## **CHAPTER 94 REPORT**

Prepared January 2024

ENG Civil • Structural • Survey

207 Baltimore Street Gettysburg, Pennsylvania 17325 (717) 334 – 9137

# **CARROLL VALLEY BOROUGH**

#### MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

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PA DEP Municipal Wasteload Management Annual Report					
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Condition of Pumping Station (Attachment: 4)					
Sludge Generation Calculation (Attachment: 5)					
Flow Meter Calibration Report (Attachment: 6)					



### CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

#### For Calendar Year: 2023

Permittee is owner and/or operator of a POTW or other sewage treatment facility

Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION							
Permittee Name: Carroll Valley Borough		Carroll Valley Borough	Permit No.:	PA0080039			
Ma	iling Address:	5685 Fairfield Road	Effective Date:	March 1, 2020			
Cit	y, State, Zip:	Fairfield, PA 17320	Expiration Date:	February 28, 2025			
Со	ntact Person:	David A. Hazlett	Renewal Due Date:	September 1, 2024			
Tit	e:	Borough Manager	Municipality:	Carroll Valley Borough			
Ph	one:	(717) 642-8269	County:	Adams County			
En	nail:	manager@carrollvalley.org	Consultant Name:	Keller Engineers, Inc.			
		CHAPTER 94 REPORT	COMPONENTS				
1.	5 years and projec	t a line graph depicting the monthly average ting the flows for the next 5 years. The the WQM permit. (25 Pa. Code § 94.12(a)	graph must also inclu				
	DEP Chapter 94	riate boxes: lows attached (Attachment 2) 4 Spreadsheet used (Attachment 1) applicable (report is for a collection syste	m).				
2.	<ul> <li>Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2))</li> <li>Check the appropriate boxes:</li> <li></li></ul>						
3.	3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3)) Typically, there are minimal connections each year in the existing service area. Projections are based on 2 EDU's per year.						

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4.	Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))
	Check the appropriate boxes:          Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (Attachment )         List summarizing each extension or project attached (Attachment )         Schoolulos describing how each project will be completed over time and effects attached (Attachment )
	Schedules describing how each project will be completed over time and effects attached (Attachment ) Comments:
	There have been no new sewer extensions in the past year.
5.	Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))
	Carroll Valley Borough's sanitary sewer collection system consists of gravity sewers, laterals, and two pumping stations. A comprehensive collection system maintenance program has been developed by the operating personnel at the wastewater treatment facility, including manhole inspections and video inspection of the collection lines.
	In calendar year 2023, some sanitary sewer jetting, cleaning, and camera inspections were completed on Sanitary Sewer Main lines for Infiltration & Inflow Evaluation. A major Sanitary Sewer repair was made on Snow Bird Trail.
6.	Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))
	<ul> <li>Check the appropriate boxes:</li> <li>System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.</li> <li>System did not experience capacity-related bypassing, SSOs or surcharging during the report year.</li> </ul>
	Comments:

7.	Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. ( <u>25 Pa. Code §</u> <u>94.12(a)(7)</u> )					
	Check the appropriate boxes:					
	The collection system does not contain pump stations					
	The collection system does contain pump stations (Number – 2)					
	Discussion of condition of each pump station attached ( <b>Attachment 4</b> )					
8.	If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))					
	a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.					
	b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.					
	c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.					
	Check the appropriate boxes:					
	Check the appropriate boxes: Industrial waste report as described in 8 a., b. and c. attached (Attachment )					
	<ul> <li>Industrial waste report as described in 8 a., b. and c. attached (Attachment )</li> <li>Industrial pretreatment report as required in an NPDES permit attached (Attachment )</li> </ul>					
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the information submitted. The information submitted is, t	ure that qualified personnel properly gathered and evaluated o the best of my knowledge and belief, true, accurate, and r submitting false information, including the possibility of fine				
or supervision in accordance with a system designed to ass the information submitted. The information submitted is, t complete. I am aware that there are significant penalties for and imprisonment for knowledge of violations. See 18 Pa. C. William F. Hill, P.E. Name of Preparer	ture that qualified personnel properly gathered and evaluated o the best of my knowledge and belief, true, accurate, and or submitting false information, including the possibility of fine S. § 4904 (relating to unsworn falsification).				
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e on new were an early an experimental consideration of the second second structure in the second second second The second sec	and the second				
PREPARER C	ERTIFICATION				
Telephone No.	Date				
(717) 642-8269					
Name of Responsible Official	Signature				
David A. Hazlett, Borough Manager					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).					
Flow calibration report attached (Attachment 6)					
been calibrated annually. ( $25 \text{ Pa. Code § 94.13(b)}$ )					
	hat flow measuring, indicating and recording equipment has				
Annual CSO Report attached (Attachment)					
combined sewer systems).	DES permit, attach an Annual CSO Report (including satellite				

penn	sylvania	a		P	ADEP Cha	pter 94 Spreadshee	et				
	ENT OF ENVIRONM				Sewage	Treatment Plants			Re	eporting Year:	2023
acility Name:	Carroll Valley	Borough WW	TF			Permit No.: PA	A0080039	]	P	ersons/EDU:	2.44
xisting Hydraulic Design Capacity: 0.14 MGD						Existing Organic De	sign Capac	ity:	337 lb	bs BOD5/day	
lpgrade Planned i	in Next 5 Year	s?	YES	Year:	2025	Upgrade Planned in	Next 5 Year	s?	YES	Year:	2025
uture Hydraulic D	Jesign Capaci	ty:	0.25 MC	IGD		Future Organic Desi	ign Capacity	/:	626 lb	lbs BOD5/day	
	Mon	thly Average	Flows for Past	t Five Years (!	MGD)		Monthly	Average BOI	05 Loads for F	Past Five Years	s (lbs/day)
Month	2019	2020	2021	2022	2023	Month	2019	2020	2021	2022	2023
January	0.141	0.115	0.103	0.113	0.137	January	398	190	155	173	236
February	0.137	0.118	0.117	0.114	0.117	February	193	270	185	230	148
March	0.124	0.102	0.125	0.087	0.125	March	149	286	208	108	110
April	0.109	0.101	0.104	0.09	0.109	April	137	175	150	164	201
May	0.125	0.118	0.085	0.102	0.124	May	183	101	129	136	294
June	0.088	0.082	0.088	0.136	0.097	June	259	109	141	225	208
July	0.091	0.074	0.079	0.097	0.088	July	151	106	158	158	102
August	0.072	0.071	0.08	0.088	0.09	August	125	117	92	131	148
September	0.073	0.072	0.129	0.093	0.1	September	147	84	109	169	137
October	0.077	0.071	0.1	0.101	0.099	October	162	119	101	148	199
November	0.084	0.074	0.092	0.096	0.103	November	202	115	151	266	191
December	0.098	0.114	0.088	0.14	0.133	December	264	179	109	182	307
Annual Avg	0.102	0.093	0.099	0.105	0.11	Annual Avg	198	154	141	174	190
Max 3-Mo Avg	0.134	0.112	0.115	0.112	0.131	Max Mo Avg	398	286	208	266	307
Max : Avg Ratio	1.31	1.20	1.16	1.07	1.19	Max : Avg Ratio	2.02	1.85	1.48	1.53	1.62
Existing EDUs	510.0	510.0	516.0	516.0	517.0	Existing EDUs	510	510	516	516	517
Flow/EDU (GPD)		182.4	191.9	203.5	212.8	Load/EDU	0.387	0.302	0.273	0.338	0.368
Flow/Capita (GPD)	) 82.0	74.7	78.6	83.4	87.2	Load/Capita	0.159	0.124	0.112	0.138	0.151
Exist. Overload?	NO	NO	NO	NO	NO	Exist. Overload?	YES	NO	NO	NO	NO
	T	Projected Flov	ws for Next Fiv	ve Years (MGI	<u>D)</u>		Proje	cted BOD5 L	.oads for Next	t Five Years (Ibs	s/day)
	2024	2025	2026	2027	2028		2024	2025	2026	2027	2028
New EDUs	2.0	2.0	2.0	2.0	2.0	New EDUs	2	2	2	2	2
						Г		T	T		

New EDU Load

Proj. Annual Avg

Proj. Max Avg

Proj. Overload?

0.667

173

293

NO

0.667

172

292

NO

0.667

173

294

NO

0.667

174

295

NO

0.667

175

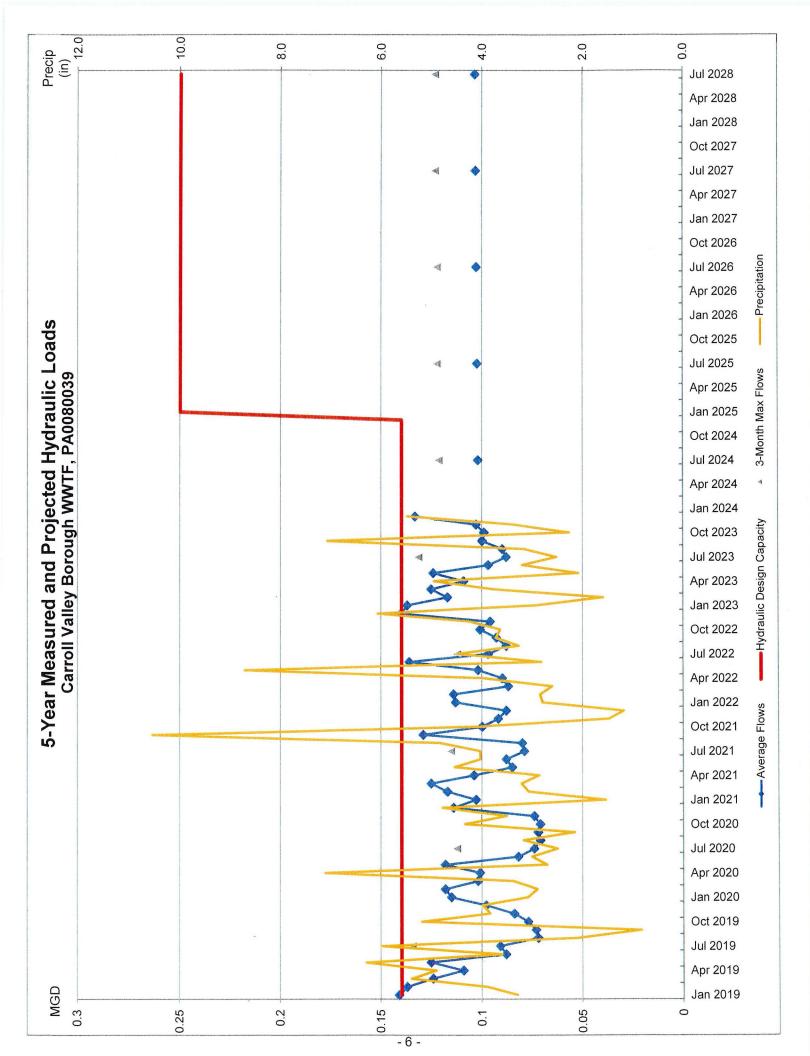
297

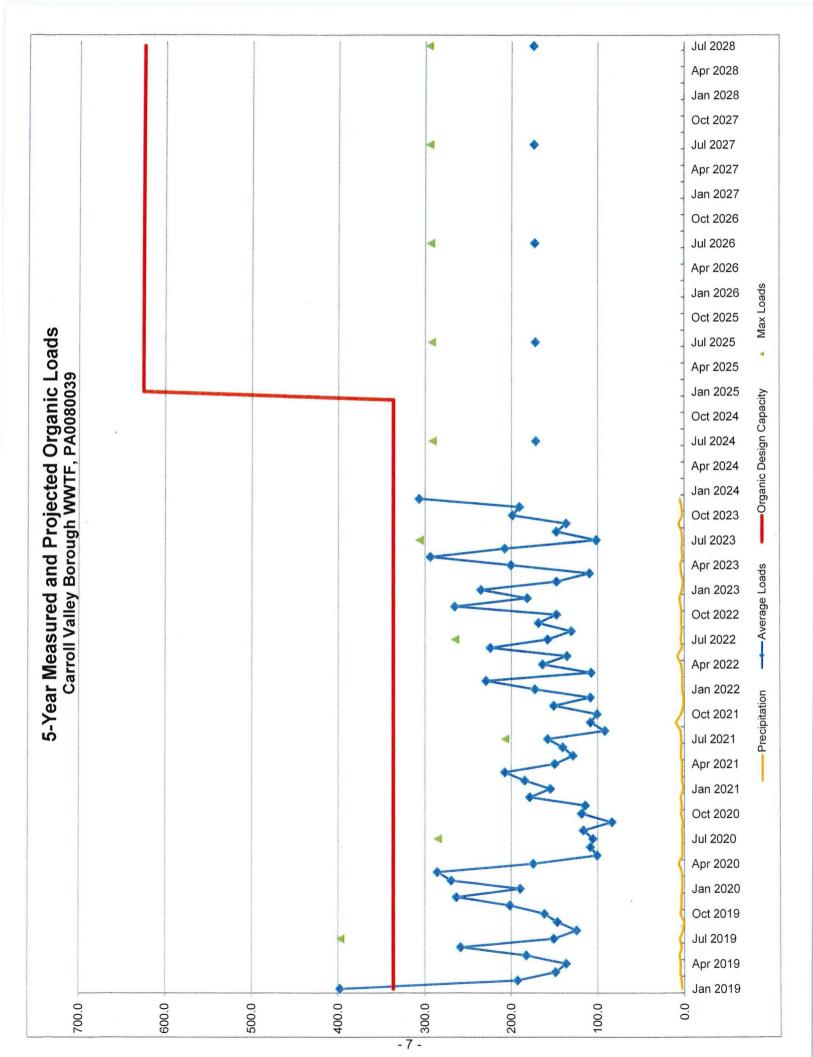
NO

	2024	2025	2020	2021	2020
New EDUs	2.0	2.0	2.0	2.0	2.0
New EDU Flow	0.0004	0.0004	0.0004	0.0004	0.0004
Proj. Annual Avg	0.102	0.1024	0.1028	0.1032	0.1036
Proj. Max 3-Mo Avg	0.121	0.122	0.122	0.123	0.123
Proj. Overload?	NO	NO	NO	NO	NO

Charry	Precipitation	Date an	Lindraulia	Cranho

Month	2019	2020	2021	2022	2023
January	3.3	3.09	1.54	2.8	2.92
February	3.9	2.9	3.08	2.85	1.59
March	5.4	3.38	3.22	2.61	3.79
April	4.9	7.12	2.86	4.0	4.95
May	6.3	2.71	4.54	8.71	2.09
June	3.6	3.01	4.03	2.82	3.21
July	6.0	2.5	4.04	4.49	2.52
August	2.1	3.18	4.83	3.27	3.18
September	0.84	2.16	10.55	3.73	7.08
October	5.19	4.34	4.09	3.64	2.27
November	3.84	3.51	1.48	4.25	3.4
December	3.99	4.78	1,18	6.08	5.49





#### ATTACHMENT 1 2023

#### **CARROLL VALLEY AUTHORITY PUMPING STA. CHART**

#### **CONDITION OF WASTEWATER PUMPING STATIONS (2)**

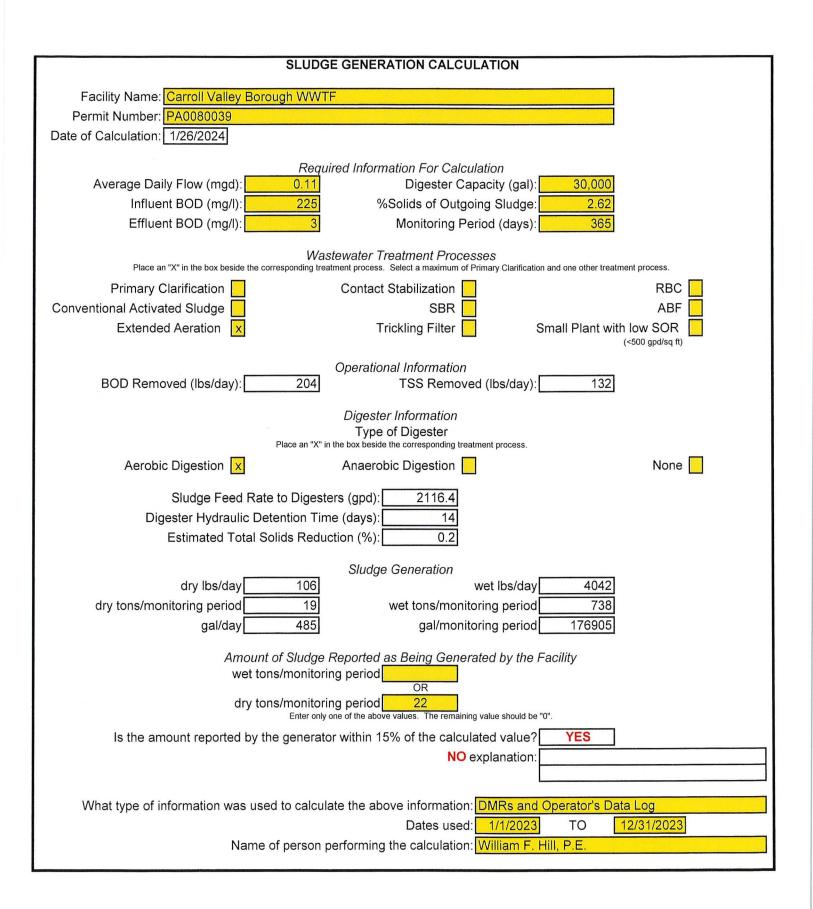
*Rated Capacity (MGD)	1/1	/2023 - 12/31/2	2023	Projected Condition 12/31/2025			
	Connected EDU's	2023 Flow Average (MGD)	2023 Flow Peak (MGD)	Connected EDU's	Projected 2025 Flow Average (MGD)	Projected 2025 Flow Peak (MGD)	
0.648	422	0.067	.270	426	0.0.80	0.400	
	61			61			
0.216	(approx)	.0042	.040	(approx)	.005	.042	
	Capacity (MGD) 0.648	*Rated Capacity (MGD)ConnectedEDU's0.64842261	*Rated Capacity (MGD)Connected2023 Flow Average (MGD)0.6484220.0670.64861	Capacity (MGD)Connected EDU's2023 Flow Average (MGD)2023 Flow Peak (MGD)0.6484220.067.2706161	*Rated Capacity (MGD)Connected2023 Flow Average (MGD)2023 Flow Peak (MGD)Connected EDU's0.6484220.067.270426616161616161	*Rated Capacity (MGD)Connected2023 Flow Average (MGD)2023 Flow Peak (MGD)Connected 2025 Flow Average (MGD)0.6484220.067.2704260.08061616161616161	

\*P.S. #1 two (2) pumps @ 225 GPM (running 24 hours/day) Location @ WTTF PA DEP Permit rated capacity 0.648 MGD

\*P.S. #2 one pump@ 150 GPM (running 24 hours/day) Location - Liberty Mt. Ski Resort

96 Total EDUs for Liberty Mt. Resort61 EDUs for P. S. #2 (Liberty P. S.)35 EDUs Gravity Flow from new Lodge & Restaurants

Annual Precipitation for 2023 was 42.5 inches, representing a normal annual amount (same precipitation as 2022).





# **Control Systems 21**

## "Your Process Control Specialists"

**CERTIFICATE of CALIBRATION** 

Cal Certificate # 80780

Page 1 of 1

Company Name Carroll Valley

WWTP 5685 Fairfield Rd Carroll Valley, PA 17320

Instrument ID CV-001

DescriptionInfluent Flow MeterManufacturerSiemensModel NumberHydroRanger 200Serial NumberN/ALocationWWTPBuildingBlower BuildingDepartmentN/A

StatusActiveTemp °F70Cal Proc4.8Adjusted To ImproveNoCalibration FrequencyAnnualCalibrated06/30/2023Next Due Date06/30/2024

#### **Calibration Specifications**

	Group N	ame Flow Meter (120	V Notch)					
Test Point	Ref Stand	ard	<u>Tol</u>	UUT As Found	<u>P/F</u>	UUT As Left	<u>P/F</u>	Dev
1	378.9 GP	ΡM	+/-18.9	372.2 GPM	Р	372.2 GPM	Р	-6.7
	Calibration Standards Used							
Test Instrum	ent ID	Manufacturer	Mod	lel Number	Serial N	imber	Next Cal I	Date
ISCO		Isco Flow Book	N/A		N/A			
TAPE MEA	SURE	N/A	N/A		N/A			

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

Where applicable and noted calibrations were performed using standards whose calibration is traceable through NIST or another National Metrology Institute to the International System of Units (SI units).

Control Systems 21 utilizes the comparison method of calibration. Results are reviewed, when applicable, and any results exceeding the agreed upon specifications are indicated by red and/or bold print

All results with this certification relate only to the item(s) calibrated. This certificate shall not be reproduced except in full and with written consent of Control Systems 21. Unless otherwise noted all calibrations were performed in the field at the customers location.

Please note: any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

#### **Remarks or Special Requirements:**

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 30 June 2023 8:56:38AM

Print Date: 06/30/2023

Control Systems 21 713 Range End Rd. • Dillsburg, PA 17019 • Voice: 717 432-5511 • Fax: 717 432-7550 email@controlsystems21.com - 10 -



# **Control Systems 21**

### "Your Process Control Specialists"

**CERTIFICATE of CALIBRATION** 

Cal Certificate # 80781

Company Name Carroll Valley WWTP 5685 Fairfield Rd Carroll Valley, PA 17320

Instrument ID CV-002

Description	Influent Flow Recorder	Status	Active
Manufacturer	Fischer & Porter	Temp °F	70
<b>Model Number</b>	Model 1392	Cal Proc	4.2
Serial Number	117-304-002 1 PEN 9311-23618	<b>Adjusted To Improve</b>	No
Location	WWTP	<b>Calibration Frequency</b>	Annual
Building	Blower Building	Calibrated	06/30/2023
Department	N/A	Next Due Date	06/30/2024

#### **Calibration Specifications**

	Group Name	Recorder						
Test Point	<b>Ref Standard</b>	Expected	<u>Tol</u>	<b>UUT As Found</b>	<u>P/F</u>	<b>UUT As Left</b>	<u>P/F</u>	Dev
1	4.00 mA	0.0 GPM	+/-0.0	0.0 GPM	Р	0.0 GPM	Р	0.0
2	12.00 mA	400.0 GPM	+/-20.0	397.7 GPM	Р	397.7 GPM	Р	-2.3
3	20.00 mA	800.0 GPM	+/-40.0	795.4 GPM	Р	795.4 GPM	Р	-4.6
Calibration Standards Used								
Test Instrument ID Ma		nufacturer <u>Mo</u>		<u>del Number</u>	Serial Number		Next Cal Date	
740 F1		uke	725	5	2343108		8/31/2023	

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

Where applicable and noted calibrations were performed using standards whose calibration is traceable through NIST or another National Metrology Institute to the International System of Units (SI units).

Control Systems 21 utilizes the comparison method of calibration. Results are reviewed, when applicable, and any results exceeding the agreed upon specifications are indicated by red and/or bold print

All results with this certification relate only to the item(s) calibrated. This certificate shall not be reproduced except in full and with written consent of Control Systems 21. Unless otherwise noted all calibrations were performed in the field at the customers location.

Please note: any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

#### **Remarks or Special Requirements:**

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 30 June 2023 9:00:56AM

Print Date: 06/30/2023

Page 1 of 1

Control Systems 21 713 Range End Rd. • Dillsburg, PA 17019 • Voice: 717 432-5511 • Fax: 717 432-7550 email@controlsystems21.com