2025 MUNICIPAL SEWAGE COLLECTION SYSTEM ANNUAL REPORT

WELLINGTON NORTH SEWAGE COLLECTION SYSTEM

For the period of
January 1st, 2025 to December 31st, 2025

Prepared for The Township of Wellington North by the Ontario Clean Water Agency

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Table of Contents

1. Municipal Sewage Collection System - Annual Performance Report

This report was prepared in accordance with the requirements of the Environmental Compliance Approval for a Municipal Sewage Collection Systems, Schedule E, Section 4.6.1.

Municipal Sewage Collection System ECA #	113-W601, Issue 1
Sewage Works	Township of Wellington North Sewage Collection System
Collection System Owner	The Corporation of the Township of Wellington North
Reporting Period	January 1, 2025 to December 31, 2025

Is the Annual Report available to the public at no charge on a website on the Internet?

Yes

Note: As per Schedule E, Section 4.7.1 of CLI-ECA #113-W601, the annual performance report must be made available, on request and without charge, to members of the public who are served by the Authorized System; and 4.7.2 must be made available, by June 1st of the same reporting year, to members of the public without charge by publishing the report on the Internet, if the Owner maintains a website on the Internet.

Location where Annual Performance Report required under CLI-ECA #113-W601 Schedule E will be available for inspection. *(CLI-ECA #113-W601, Schedule E, Section 4.6.1 & 4.7.1):*

- Township of Wellington North Public Works Office, 7490 Sideroad 7 West, Kenilworth, Ontario, N0G 2E0
- https://www.wellington-north.com/services/building-planning-development/environmental-approvals

Pursuant to Schedule E, sections 4.6.3 to 4.6.9, this Annual Performance Report shall:

a) If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations.
b) If applicable, include a summary of any operating problems encountered and corrective actions taken.
c) Includes a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.
d) Include a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
e) Include a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.
f) Include a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including:
    i. Dates;
    ii. Volumes and durations;

iii. If applicable, loadings for total suspended solids, BOD, total phosphorus and total Kjeldahl nitrogen, and sampling results for E.Coli;
iv. Disinfection, if any; and
v. Any adverse impact(s) and any corrective actions, if applicable.

g) Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable:
i. A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for which the report is submitted.
ii. Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines.
iii. An assessment of the effectiveness of each action taken.
iv. An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives.
v. Public reporting approach including proactive efforts.

1.1 Description of the Works

The Township of Wellington North Municipal Sewage Collection System is owned by Corporation of the Township of Wellington North and operated on behalf of the Owner by the Ontario Clean Water Agency. The Township of Wellington North Sewage Collection System includes two separate systems; one to serve the distinct urban area of Arthur (Arthur Sewage Collection System) and the other to serve the distinct urban area of Mount Forest (Mount Forest Sewage Collection System).

The Wellington North Municipal Sewage Collection System contains no combined sewage pumping stations, no combined sewage storage structures or combined storage tanks. The authorized collection system also contains no authorized combined sewer collection system overflow points and three (3) authorized sanitary sewer overflow points under emergency conditions as needed (including pumping stations). They include:

- Fredrick St. SPS bypass (overflow) chamber - where the overflow location is an inlet sewer under extreme flow events, discharging to Conestogo River.
- North Water St SPS - where the overflow location is an outfall sewer discharging to Saugeen River.
- Durham St SPS - where the overflow location is an overflow sewer discharging to an overflow pipe to a adjacent manhole (MH5) and ultimately to Saugeen River.

Below you will find a description of each of the two separate systems that combine to form the Wellington North Municipal Sewage Collection System.

The Arthur Sewage Collection System

The Arthur Sewage Collection System serves the distinct urban area of Arthur and consists of works for the collection and transmission of sewage, consisting of trunk sewers, separate sewers, sewage pumping stations and forcemains, with discharge to the Arthur Wastewater Treatment Plant (WWTP) and effluent storage lagoon facilities. Treated effluent from the WWTP is discharged to the Conestogo River during the discharge period (October 1st to May 31st, inclusive) provided there is adequate flow in the river and is stored in the lagoons during the non-discharge period (June 1st to September 30th, inclusive), until discharging to the Conestogo River is permitted. The sewage pumping stations in the authorized Arthur Sewage Collection System include:

- Frederick St SPS – which receives the majority of sewage flows by gravity from the community of Arthur. The SPS pumps directly into the Arthur WWTP via forcemain. The SPS consists of a wet well, emergency storage (for overflow/bypass), three variable speed pumps, MCC, PLC based control system and high levels floats and alarms. A standby diesel generator is one site to supply the SPS with power in the case of emergencies.
- Wells St SPS – which receives primarily industrial sewage flows by gravity from industrial users located in the west side of Arthur. The SPS pumps to a maintenance hole which consists of a trunk sewer that pumps to Arthur WWTP. The SPS consists of a wet well, emergency storage, two submersible pumps and is connected to a discharge forcemain with three flushing connections.

The Mount Forest Sewage Collection System

The Mount Forest Sewage Collection System serves the distinct urban area of Mount Forest and consists of works for the collection and transmission of sewage, consisting of trunk sewers, separate sewers, sewage pumping stations and forcemains, with discharge to the Mount Forest WWTP. Treated effluent from the WWTP is discharged to the South Saugeen River. The sewage pumping stations in the Authorized Mount Forest Sewage Collection System include:

- Cork St SPS – which receives sewage flows by gravity from the west portion of the community of Mount Forest, including sewage from Perth St. SPS. The SPS pumps to the Arthur St. SPS via forcemain. The SPS consists of a wet well, two submersible speed VFD pumps, electrical and electronic control system and high levels floats and alarms. A standby diesel generator is on site to supply the SPS with power in the case of emergencies.
- Durham St SPS – which receives sewage flows by gravity from the most northern portion of the community of Mount Forest. The SPS pumps to the North Water St. SPS via forcemain. The SPS consists of a wet well, three submersible pumps, electrical and electronic control system, high levels floats and alarms and emergency overflow pipe. A standby diesel generator is on site to supply the SPS with power in the case of emergencies.

- Perth St. SPS – which receives sewage flows by gravity from the Perth St. industrial area in the community of Mount Forest. The SPS pumps to the Cork St. SPS via forcemain. The SPS consists of a wet well and two submersible pumps.
- North Water St. SPS – which receives sewage flows by gravity from all serviced areas in the community of Mount Forest, including flows from all other SPSs. The SPS pumps directly to the Influent Works building at Mount Forest WWTP via forcemain. The SPS consists of a wet well and variable speed pumps, emergency storage, flow metering chamber and surge vessel. A standby diesel generator is on site to supply the SPS with power in the case of emergencies.
- South Water St. SPS – is not currently constructed. It is designed to service the Avila subdivision and South Water St. and will pump to the North Water SPS via forcemain.

Prior to January 10, 2023, three of the seven pumping stations were captured under the WWTP CoA while the following SPS were captured under ECA numbers:

- Cork St SPS - ECA 8755-7WZKNW
- Durham St SPS - ECA 1899-873P7E
- Perth St SPS - ECA 3-1843-98-996
- South Water St SPS - ECA 0618-BV4T7S

On January 10, 2023, Municipal Sewage Collection System ECA Number 113-W601, Issue 1, was issued to the Wellington North Sewage Collection System incorporating all Pumping Stations, sewers, separate sewers and forcemains into one Consolidated Linear Infrastructure ECA. As such, all prior ECAs pertaining to the collection system, issued by the Director for Sewage Works are considered revoked and replaced by ECA Number 113-W601.

1.2 Summary of Monitoring Data and Interpretation

No monitoring data was collected or required within the municipal sewage collection system for the reporting period.

1.3 Summary of Operating Problems Encountered and Corrective Actions Taken

There were no operating problems encountered within the municipal sewage collection system for the reporting period.

1.4 Summary of Calibration, Maintenance, and Repairs

All in-house monitoring equipment is calibrated/verified as per manufacturer's recommendations. Monitoring and metering equipment is also calibrated by a third party on an annual basis. Preventative maintenance is scheduled for all equipment at the sewage treatment plants and pumping stations at regular frequency (frequency depends on the equipment and type of maintenance). Maintenance activities are scheduled within the work management system

(Maximo), upon completion, Operators set the work order to complete. On a monthly basis, preventative work orders are reviewed for completion.

SCG Flowmetrix was contracted to calibrate flow measuring equipment within the Sewage Pumping Stations on September 10, 2025. Copies of these calibration reports can be found in **Appendix A** of this report.

1.4.1 Maintenance and Repairs at Mount Forest SPSs and Collection System

For the reporting period, the following maintenance and repairs were completed:

- Cork St. SPS
  - Pump repair
  - Annual pump inspections
  - 3rd Party generator inspection and load testing
  - Annual wet well inspection and clean out
- Durham St. SPS
  - Annual pump inspections
  - 3rd Party generator inspection and load testing
  - Annual wet well inspection and clean out
- North Water St. SPS
  - Annual pump inspections
  - 3rd Party generator inspection and load testing
  - Annual wet well inspection and clean out
- Perth St. SPS
  - Annual pump inspections
  - PLC upgrades
  - Annual wet well inspection and clean out
- South Water St. SPS – not applicable as the SPS is not currently constructed. It is designed to service the Avila subdivision and South Water St. and will pump to the North Water SPS via forcemain.

1.4.2 Maintenance and Repairs at Arthur SPSs and Collection System

For the reporting period, the following maintenance and repairs were completed:

- Frederick St. SPS
  - Annual pump inspections
  - 3rd Party generator inspection and load testing
  - Annual wet well inspection and clean out
- Wells St. SPS
  - Annual pump inspections
  - 3rd Party generator inspection and load testing
  - Annual wet well inspection and clean out

1.5 Community Complaints Received in Relation to the Sewage Works

A standard operating procedure (SOP) is in place for addressing complaints received from the community. All complaints are addressed and documented in the facility logbook. Community complaint information is entered in OCWA's WMS database system "Maximo". This system contains all the required information and history of all complaints.

There were no complaints reported during the reporting period.

1.6 Alterations to the Authorized System

There were no alterations to the authorized system that occurred during the reporting period.

1.7 Summary of Collection System Overflow(s) and Spill(s) of Sewage

There were no collection system overflow(s) or spill(s) events that occurred during the reporting period.

1.8 Efforts Made to Reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses

The sewage pump stations are equipped with alarm monitoring for high flow events. Preventative maintenance procedures are in place to ensure the sewage pump stations are operating as designed and include:

- Annual pump inspections and life cycle replacements
- 3rd party generator inspection and load testing
- Annual wet well inspections and clean outs

Appendix A

Sewage Pump Station Calibration Reports

2025

FLOWMETRIX
TECHNICAL SERVICES

Endress Hauser ProMag Series

Verification Report

AS FOUND CERTIFICATION

FORWARD FLOW DIRECTION

PASS

CLIENT DETAIL	
CUSTOMER	OCWA - Highlands Hub
CONTACT	Jenna Porter / Don Irvine
	Senior Operations Manager / Process Compliance Technician
	Cell: 519-323-6760 / Cell: 519-321-9474
	Email: jporter2@ocwa.com / dirvine@ocwa.com

VER. BY - FM *Daniel Kettlewell*

Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was completed.

EQUIPMENT DETAIL	
[MUT] MANUFACTURER	ENDRESS & HAUSER
MODEL	Promag 50W
CONVERTER S/N:	D6020C16000
FUSE	Pull plug on board
PLANT ID	Mount Forest Cork St. S. Pumping Station
METER ID	Station Flow
FIT ID	FIT-1
CLIENT TAG	OCWA# 205529
OTHER	n/a
GPS COORDINATES	N45 58.552 W080 44.687
VERIFICATION DATE	September 10th 2025
CAL. FREQUENCY	Annual
CAL. DUE DATE	September 2026

PROGRAMMING PARAMETERS		
DIAMETER (DN)	mm	200
F.S. FLOW - MAG	LPS	314.150
F.S. RANGE - O/P	LPS	200.000
TUBE k-FACTOR		1.0427
TUBE zero		-3

FORWARD TOTALIZER INFORMATION		
AS FOUND	2153959	M3
AS LEFT	2154022	M3
DIFFERENCE	63	M3
TEST CRITERIA		
AS FOUND CERTIFICATION TEST	Yes	
FORWARD FLOW DIRECTION	Yes	
ALLOWABLE [%] ERROR	5	
COMPONENTS TESTED		
CONVERTER DISPLAY	yes	
mA OUTPUT	yes	
TOTALIZER	yes	
ACCURACY BASED ON [% o.r.]	yes	

ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.

FLOW TUBE SIMULATION

				0.0	**50.0**	**100.0**	**150.0**	**200.0**	**LPS**
				0.0	**15.9**	**31.8**	**47.7**	**63.7**	**% F.S. Flow**
				0.0	**25.0**	**50.0**	**75.0**	**100.0**	**% F.S. Range**
REF. FLOW RATE				**0.000**	**50.000**	**100.000**	**150.000**	**200.000**	LPS
MUT [Reading]				0.000	49.975	99.912	149.880	199.810	LPS
MUT [Difference]				0.000	-0.025	-0.088	-0.120	-0.190	LPS
MUT [% Error]				n/a	-0.05	-0.09	-0.08	-0.09	% O.R
mA OUTPUT				**4.000**	**8.000**	**12.000**	**16.000**	**20.000**	mA
MUT [Reading]	min.	4	mA	3.998	7.994	11.990	15.984	19.979	mA
MUT [Difference]	max.	20	mA	-0.002	-0.006	-0.010	-0.016	-0.021	mA
MUT [% Error]				-0.05	-0.08	-0.08	-0.10	-0.11	% O.R
TOTALIZER - REF. FLOW RATE								**200.000**	LPS
TOTALIZER [MUT]								31	M3
TEST TIME								155.03	SECONDS
CALC. TOTALIZER								31.006	M3
ERROR								-0.02	%

COMMENTS

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	E&H (FC)	1
PROCESS METER	PM	0
ANALOG METER	AM	N/A
STOP WATCH	SW	Yes

RESULTS

TEST	AVG % o.r.	PASS FAIL
DISPLAY	-0.08	PASS
mA OUTPUT	-0.08	PASS
TOTALIZER - R	-0.02	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.

FLOWMETRIX
TECHNICAL SERVICES

Krohne
Verification Report

AS FOUND CERTIFICATION

FORWARD FLOW DIRECTION

PASS

CLIENT DETAIL

CUSTOMER	OCWA - Highlands Hub
CONTACT	Jenna Porter / Don Irvine
	Senior Operations Manager / Process Compliance Technician
	Cell: 519-323-6760 / Cell: 519-321-9474
	Email: jporter2@ocwa.com / dirvine@ocwa.com

VER. BY - FM Daniel Kettlewell

Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was completed.

EQUIPMENT DETAIL

[MUT] MANUFACTURER	Krohne
MODEL	IFC100W
SERIAL NUMBER	C104591
FUSE	CP-01 FU7
PLANT ID	Mounut Forest Durham St
METER ID	Pump Station Flow
FIT ID	FIT-1
CLIENT TAG	OCWA# 205530
OTHER	n/a
GPS COORDINATES	N43 58.974 W080 44.477
VERIFICATION DATE	September 10th 2025
CAL. FREQUENCY	Annual
CAL. DUE DATE	September 2026

PROGRAMMING PARAMETERS

DIAMETER (DN)	mm	300
F.S. FLOW - MAG	LPS	852.2
F.S. RANGE - O/P	LPS	250.000
CAL. k-FACTOR	GKL	7.9112
Zero Offset Flow	LPS	0.0000

FORWARD TOTALIZER INFORMATION

AS FOUND	1230313.87	M3
AS LEFT	1230340.54	M3
DIFFERENCE	26.67	M3

TEST CRITERIA

AS FOUND CERTIFICATION TEST	Yes
FORWARD FLOW DIRECTION	Yes
ALLOWABLE [%] ERROR	5

COMPONENTS TESTED

CONVERTER DISPLAY	yes
mA OUTPUT	yes
TOTALIZER	Yes
ACCURACY BASED ON [% o.r.]	yes

ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.

FLOW TUBE SIMULATION

				0.0		0.5	1.0	2.0	m/s
				0.0		5.0	10.0	20.0	% F.S. Flow
				0.0		17.0	34.1	68.2	% F.S. Range
REF. FLOW RATE				**0.00**		**42.61**	**85.22**	**170.45**	LPS
MUT [Reading]				0.00		42.74	85.35	170.67	LPS
MUT [Difference]				0.00		0.13	0.13	0.22	LPS
MUT [% Error]				n/a		0.30	0.15	0.13	%
mA OUTPUT				**4.000**		**6.727**	**9.454**	**14.909**	mA
MUT [Reading]	min.	4.000	mA	3.999		6.742	9.465	14.827	mA
MUT [Difference]	max.	20.000	mA	-0.001		0.015	0.011	-0.082	mA
MUT [% Error]				-0.02		0.22	0.11	-0.55	%
TOTALIZER - REF. FLOW RATE								**170.447**	LPS
TOTALIZER [MUT]								14	M3
TEST TIME								82.19	SECONDS
CALC. TOTALIZER								14.009	M3
ERROR								0.15	%

COMMENTS

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	KRO	1
PROCESS METER	PM	0
ANALOG METER	AM	N/A
STOP WATCH	SW	Yes

RESULTS

TEST	AVG % o.r.	PASS FAIL
DISPLAY	0.19	PASS
mA OUTPUT	-0.06	PASS
TOTALIZER	0.15	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.

FLOWMETRIX
TECHNICAL SERVICES

Krohne
Verification Report

AS FOUND CERTIFICATION

FORWARD FLOW DIRECTION

PASS

CLIENT DETAIL

CUSTOMER	OCWA - West Highlands Hub
CONTACT	David Jorge
	Process Compliance Technician
	p: 519-925-1938 x 225
	c: 519-938-6909
	e: djorge@ocwa.com

VER. BY - FM Daniel Kettlewell

Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was completed.

EQUIPMENT DETAIL

[MUT] MANUFACTURER	Krohne
MODEL	IFC300W
SERIAL NUMBER	C08 0273
FUSE	Pull Plug on Board
PLANT ID	Mount Forest Water Street
METER ID	Pump Station Flow
FIT ID	FIT 401
CLIENT TAG	n/a
OTHER	OCWA# 205535
GPS COORDINATES	N 43 50.503 W080 44.085
VERIFICATION DATE	September 10th 2025
CAL. FREQUENCY	Annual
CAL. DUE DATE	September 2026

PROGRAMMING PARAMETERS

DIAMETER (DN)	mm	300
F.S. FLOW - MAG	LPS	785.9
F.S. RANGE - O/P	LPS	300.000
CAL. k-FACTOR	GKL	7.29500
Zero Offset Flow	LPS	0.0000

FORWARD TOTALIZER INFORMATION

AS FOUND	12219812.05	M3
AS LEFT	12219832.03	M3
DIFFERENCE	19.98	M3

TEST CRITERIA

AS FOUND CERTIFICATION TEST	Yes
FORWARD FLOW DIRECTION	Yes
ALLOWABLE [%] ERROR	5

COMPONENTS TESTED

CONVERTER DISPLAY	yes
mA OUTPUT	yes
TOTALIZER	Yes
ACCURACY BASED ON [% o.r.]	yes

ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.

FLOW TUBE SIMULATION

				0.0		0.5	1.0	2.0	m/s
				0.0		5.0	10.0	20.0	% F.S. Flow
				0.0		13.1	26.2	52.4	% F.S. Range
REF. FLOW RATE				**0.0**		**39.3**	**78.6**	**157.2**	LPS
MUT [Reading]				0.0		39.7	79.0	157.5	LPS
MUT [Difference]				0.0		0.4	0.4	0.3	LPS
MUT [% Error]				n/a		1.04	0.53	0.21	%
mA OUTPUT				**4.000**		**6.096**	**8.191**	**12.382**	mA
MUT [Reading]	min.	4.000	mA	4.000		6.115	8.211	12.406	mA
MUT [Difference]	max.	20.000	mA	0.000		0.019	0.020	0.024	mA
MUT [% Error]				0.00		0.32	0.24	0.19	%
TOTALIZER - REF. FLOW RATE								**157.171**	LPS
TOTALIZER [MUT]								12	M3
TEST TIME								76.22	SECONDS
CALC. TOTALIZER								11.980	M3
ERROR								0.34	%

COMMENTS

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	KRO	1
PROCESS METER	PM	0
ANALOG METER	AM	N/A
STOP WATCH	SW	Yes

RESULTS

TEST	AVG % o.r.	PASS FAIL
DISPLAY	0.59	PASS
mA OUTPUT	0.19	PASS
TOTALIZER	0.34	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.

FLOWMETRIX
TECHNICAL SERVICES

Parshall Flume
Verification/Calibration Report

AS LEFT CERTIFICATION

PASS

CLIENT DETAIL

CUSTOMER	OCWA - Highlands Hub
CONTACT	Jenna Porter / Don Irvine
	Senior Operations Manager / Process Compliance Technician
	Cell: 519-323-6760 / Cell: 519-321-9474
	Email: jporter2@ocwa.com / dirvine@ocwa.com

VER. BY - FM Daniel Kettlewell

Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was conducted.

EQUIPMENT DETAIL

[MUT] MANUFACTURER	Milltronics
MODEL	MultiRanger 200
CONVERTER SERIAL NUMBER	PBD/7040026
PLANT ID	Mount Forest Water Street
METER ID	Overflow
FIT ID	n/a
CLIENT TAG	n/a
OTHER	n/a
GPS COORDINATES	
VERIFICATION DATE	September 10th 2025
CAL. FREQUENCY	Annual
CAL. DUE DATE	September 2026

PROGRAMMING PARAMETERS

THROAT DIMENSION (DN)	inches	9
EMPTY DISTANCE	m	1.295
MAX. HEAD	m	0.436
DEAD ZONE	m	0.559
BLANKING DISTANCE	m	0.300
MAX. FLOW	LPS	150.3
F.S. RANGE - O/P	LPS	100.0

TOTALIZER

AS FOUND	n/a	M3
AS LEFT	n/a	M3
DIFFERENCE	n/a	M3

TEST CRITERIA

AS FOUND CERTIFICATION TEST	No
ALLOWABLE [%] ERROR	15

COMPONENTS TESTED

CONVERTER DISPLAY	yes
mA OUTPUT	yes
TOTALIZER	no
ACCURACY BASED ON [% o.r.]	no

Ultrasonic sensor installed to ensure full scale flow condition

ERROR DOCUMENTED IN THIS REPORT; BASED ON % F.S.

AS FOUND TEST RESULTS

				16.2	45.4	72.3	99.0	% F.S. Range
				0.185	0.342	0.402	0.436	m
REF. LEVEL				1.068	0.953	0.893	0.838	m
MUT [Reading]				1.085	0.980	0.912	0.860	m
MUT [Difference]				0.017	0.027	0.019	0.022	m
MUT [% Error]				0.01	0.02	0.01	0.01	%
mA OUTPUT				**6.592**	**11.264**	**15.568**	**19.840**	mA
MUT [Reading]	min.	4.000	mA	6.484	11.182	15.280	19.893	mA
MUT [Difference]	max.	20.000	mA	-0.108	-0.082	-0.288	0.053	mA
MUT [% Error]				-0.54	-0.41	-1.44	0.27	%
TOTALIZER - REF. FLOW RATE								
TOTALIZER [MUT]								
TEST TIME								
CALC. TOTALIZER								
ERROR								

COMMENTS

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] LEVEL	Sim. BOARD	Yes
PROCESS METER	PM	0
STOP WATCH	SW	Yes

RESULTS

TEST	AVG %FS	PASS FAIL
DISPLAY	0.01	PASS
mA OUTPUT	-0.53	PASS
TOTALIZER	N/A	N/A

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.