



**City of Orillia**

**2022 Annual Wastewater Collection System  
Performance Report**

**March 2023  
Environmental Services Division  
Environment and Infrastructure Services Department**

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## **1.0 Introduction**

Condition 4.6 from Schedule “E” of Environmental Compliance Approval (ECA) No. 125-W601 (Issue 2 dated March 3, 2023) requires the preparation of an annual performance report for the City’s wastewater collection system. Although the full annual report is not required until the 2023 reporting year, this report has been prepared in anticipation of this new requirement.

For the 2022 Annual Performance Report, the City is to report on previous ECAs pertaining to spills only where these occurred in the reporting period. Prior to the issuance of the new ECA No. 125-W601, only two stations had ECAs that required annual reporting including Forest Avenue North Pump Station (ECA # 7047-AN9LTA) and the Fittons Road East Pump Station (ECA # 7594-C22KBD). Further to this, there were no overflows, spills or abnormal discharge events in 2022 at either of these stations. The Cedar Island Road Sewage Pumping Station (ECA # 4848-C2AHU4) is still under construction, so the Elgin Street Sanitary Pump Station is still in active use.

### **1.1 Background**

The City maintains a wastewater collection system that includes 169 km of gravity sewers, 13 km of force main, 20 City-owned sanitary pump stations and one privately owned sanitary pump station, which the City is contracted to operate and maintain. All wastewater flows to one central pumping station at James Street, which is then pumped directly to the Wastewater Treatment Center (WWTC).

The City of Orillia Pumping Station System is part of the City’s sanitary collection system, which is rated by the Ontario Ministry of the Environment, Conservation and Parks (MECP) as a Class 2 system. This system discharges to the City’s WWTC, a conventional activated sludge plant which treats to a level of tertiary treatment, is rated Class 4 and outfalls to Lake Simcoe.

## **2.0 Discussion of ECA Conditions**

### **2.1 Condition 4.6.1 – Report Preparation**

This condition requires the submission of an annual performance report for the City’s wastewater collection system by March 31<sup>st</sup> of each year. The report is to cover the period from January 1 to December 31 of the preceding calendar year. This report covers 2022.

### **2.2 Condition 4.6.2 – Collection System Overflow or Spills of Sewage**

This condition requires the submission to the District Manager of this annual report noting any collection system overflow or spills of sewage that occurred in the reporting period. There were no overflows or spills of sewage at any of the 20 City-owned and

one privately owned sanitary pump stations in 2022. There were two sanitary spills reported within the collection system in 2022. Both spills were a result of congealed grease build-up at commercial property line manhole structures. Both spills were reported to Spills Action Centre (SAC) and Simcoe Muskoka District Health Unit (SMDHU). Details of these spills are described in Section 2.8.

### **2.3 Condition 4.6.3 – Summary of Monitoring Data & Interpretation**

This condition requires the submission of any monitoring data and an evaluation of this. Monitoring data for the sewage treated through the Wastewater Treatment Centre is discussed in a separate Annual Performance Report for the City's Wastewater Treatment Centre (ECA No. 7355-B43NAS).

### **2.4 Condition 4.6.4 – Operating Problems & Corrective Actions**

This condition requires the discussion of any operating problems encountered and corrective actions taken. There were no operating problems encountered at the sanitary pump stations apart from power outages during inclement weather. The City put into operation a new portable back-up generator that travels on a trailer. The generator can be used to power sanitary pump stations in priority areas during extended power outages.

The following is a discussion of issues addressed at the City's sanitary pump stations:

1. The James Street Pump Station receives sewage from all other stations and pumps to the WWTC through two open force mains. Two of the four pumps at James St. that pump the sewage to the WWTC had reached end of life and required replacement adding pumping challenges to the two remaining pumps. Two new pumps were commissioned and placed into service in 2022.
2. In the fall of 2021, the Champlain Pump Station had a flood in the wet well causing considerable damage to equipment. In 2022, the grinder was repaired, the PLC for the grinder was replaced and the floats were replaced. The gas detection system was also damaged and will be replaced in 2023. In 2022, the PLC for the main control panel of the Champlain Pump Station reached end of life and was creating operational challenges for that station. This PLC was replaced and upgraded.
3. The Septage Receiving PLC and operating panel at the James St Pump Station was causing operational issues and required replacement and upgrade. A new operating control system was added in 2022 including a new PLC.
4. The Commerce Road Pump Station was prone to hydro outages causing power losses damaging equipment. A new transformer, meter base, pump and hardware were installed in 2022.

5. The Royal Oak Pump Station has only one pump that had reached end of life. A new pump was installed in 2022.
6. The Tudhope Pump Station has two sewage pumps and one had reached the end of its life. A new pump was installed in 2022.
7. Some of the older pump stations rely on antiquated Bell leased phone lines for the alarm systems to communicate to the City's SCADA system. The lines are not reliable and wireless RACO Auto Dialer units were installed at four stations to increase reliability and consistency with alarm call outs. These stations included Victoria Crescent, Forest Avenue South, Collins Drive and the Storm Pump Station on James Street West.

## **2.5 Condition 4.6.5 – Calibration, Maintenance and Repairs**

This condition requires a summary of all calibration, maintenance and repairs carried out in the reporting year on major equipment and infrastructure. Manufacturers recommend an annual calibration for influent and effluent monitoring equipment. IndusControl Inc. was contracted to carry out calibrations in 2022. The annual instrumentation calibration reports for 2022 are included in the Attachment and include both influent and effluent flow monitors.

Repairs carried out on major structures (pump stations and sewers) included:

- City staff replaced a broken section of clay pipe on North Street West as a result of a reported backup which impacted five properties. 13 manhole structures were repaired by City staff with the majority of the repairs being limited to the top section of the structure.
- Routine maintenance occurred at the pump stations including wet well cleanings, float replacements and UPS battery replacements.
- The Collins Drive Pump Station had a damaged electrical conduit, which required replacement. The conduit was replaced in the fall of 2022.

No sanitary sewers were relined in 2022, however 2022 budget available for this is planned to be utilized in 2023.

For the sanitary pump stations, staff schedules, conducts and documents, maintenance activities using a software package called 'Antero Maintenance Data Management Software'. This program schedules and produces work orders, identifies completed or delinquent orders, and reports on equipment maintenance required for compliance and warranty. The pump station work order history for 2022 is included in the Attachment.

The City is committed to maintaining and inspecting its collection system. The following programs are exercised annually:

- Spring/fall rodding of known areas of concern.
- Annual backflushing of known areas of concern.

- Weekly flushing and inspection of known areas of concern.
- Manhole inspections.

## 2.6 Condition 4.6.6 – Summary of Complaints

This condition requires a summary of complaints received in the reporting year from the public and any steps taken to address them. In 2022, 66 complaints were received related to the sanitary collection system. All complaints were fully investigated by City staff. 32 of these complaints were directly related to private plumbing issues. The remainder of these were failed sewer laterals or blockages on City property.

No complaints were received related to the sanitary pump stations.

## 2.7 Condition 4.6.7 – Alterations to Collection System

As per Schedule D of ECA 125-W601, “Alterations” include the following items (excluding repairs):

- a) An extension of the system,
- b) A replacement or retirement of part of the system, or
- c) A modification of, addition to, or enlargement of the system.

In 2022, the following alterations were made to the collection system:

### Extensions of the System

- 471.6 metres of new 200 mm sanitary sewer was installed on Orion Boulevard.

### Replacements/Retirements of Part of the System

- 26.5 metres of 200 mm sanitary sewer was replaced at the Borland Street East intersection at Peter Street North.

### Modification of, Addition to, or Enlargement of the System

- None.

None of the alterations posed a significant drinking water threat.

## 2.8 Condition 4.6.8 – Overflows and Spills

This condition requires discussion of any overflow and spills from the sanitary collection system. There were two sanitary spills reported within the collection system in 2022. Both spills were a result of congealed grease build-up at commercial property line manhole structures. Both spills were reported to Spills Action Centre (SAC) and Simcoe Muskoka District Health Unit (SMDHU). Details of these events are as follows:

1. SAC Ref# 1-1KU0SS - January 31, 2022 – 269 Memorial Ave.

City staff discovered foreign material in a commercial property line manhole caused the escape of 500L of sewage. The spill was immediately cleaned up by City staff and the blockage was removed. No follow up action or additional measures were required by SAC or SMDHU.

2. SAC Ref# 1-1QBR5V – March 28, 2022 – 320 Memorial Ave.

Reports of sewage on the road were received by City staff at 14:30. A crew was immediately dispatched. The spill was cleaned up using a Vactor Truck. 2 cubic metres of sewage flowed into the nearest catch basin. MH 572 was found to be completely plugged with grease. The manhole and upstream pipes were rodded and flushed, and the sewer began flowing normally at 17:00. The City advised the owner of the commercial property of the grease issues and has put in place a more vigorous inspection program with the property owner.

As the above noted issues were directly related to property owner negligence rather than City infrastructure, further monitoring data was therefore not collected.

## **2.9 Condition 4.6.9 – Efforts to Reduce Overflows, Spills and Bypasses**

This condition requires discussion of efforts to reduce sanitary collection system (including pumps station) overflows, spills and bypasses. The City of Orillia's sanitary collection system is not combined with the storm sewer system so overflows, spills and bypasses are not an issue at present. The City does, however, see elevated flows from inflow and infiltration, particularly after wet weather events.

- a) Projects undertaken and completed in the sanitary sewer system that reduce the potential for pump station bypasses, pump station and collection system overflows and spills include:
- The City regularly conducts manhole inspection and rehabilitation work to minimize inflow and infiltration.
  - In 2022, a number of sewers were CCTV'd. CCTV camera inspections are used to inform City staff of required repair and replacement planning.

In 2022, capital budget allocations were approved as follows:

- \$200,000 for CCTV and Sewer Relining,
  - \$250,000 for an Inflow and Infiltration Study,
  - \$3.5 million for Bayview Sewage Pumping Station Upgrades, and
  - \$250,000 for Fittons Road West Sewage Pumping Station Class Environmental Assessment & Design.
- b) The City does not have combined sewers and is not required to have a Pollution Prevention and Control Program (PPCP), as defined in this ECA.

The City maintains an Industrial, Commercial and Institutional (ICI) Inspection Program. The purpose of this program is to monitor and enforce provisions set

out in the City of Orillia's Sewage - Discharge By-Law (Municipal Code Chapter 1047). An annual report is prepared providing an overview of the ICI inspections conducted and the compliance sampling undertaken to confirm that facilities are complying with Chapter 1047.

- c) In terms of assessing the effectiveness of each action taken, the City proactively established a Wastewater Quality Management System (WWQMS) in 2022. A major function of the WWQMS will be to track and assess the effectiveness of actions taken to maintain system compliance.
- d) The City takes a number of efforts to achieve conformance with Procedure F-5-1 (Determination Of Treatment Requirements For Municipal And Private Sewage Treatment Works). The City operates a tertiary treatment system at its Wastewater Treatment Centre (WWTC). Please refer to the Annual WWTC Performance Report for more information on conformance with Procedure F-5-1.
- e) Public reporting is discussed in section 2.10 of this report.

## **2.10 Condition 4.7 Report Availability for the Public**

This annual performance report is available to the public at no charge on the City of Orillia's [website linked here](#).

To access the report in person, or for assistance, please visit:

**City of Orillia  
City Centre, 1<sup>st</sup> Floor Reception  
50 Andrew St. S., Suite 300  
Orillia, ON L3V 7T5**

## **3.0 Summary**

The City maintains an effective wastewater collection system. Significant funding is allocated for collection system maintenance and improvements. The City is in the process of implementing a comprehensive inflow and infiltration program and has already proactively established a Wastewater Quality Management System in 2022.




## **Attachment – 2022 Work Orders & Calibration Reports**

1. Pump Station Work Order History
2. Annual Instrumentation Calibration Reports

Completed	Equipment	Task	WO #	Work Type
1/04/22	Septage Datalogger	Data download	534	Scheduled
1/04/22	Septage Receiving Station	Septage Receiving	616	Scheduled
1/04/22	Storm Station	Storm Station Alarm Check	615	Scheduled
1/06/22	Leacock Village	APSD Test Run	617	Scheduled
1/06/22	Alarm Checks - PS	Pump Station Alarm Checks	535	Scheduled
1/13/22	Septage Receiving Station	Septage Receiving	684	Scheduled
1/13/22	Leacock Village	APSD Test Run	685	Scheduled
1/17/22	Champlain Grinder Motor	Replacement	759	Corrective
1/20/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	665	Scheduled
1/20/22	Leacock Village	APSD Test Run	751	Scheduled
1/21/22	Septage Receiving Station	Septage Receiving	750	Scheduled
1/27/22	Leacock Village	APSD Test Run	772	Scheduled
1/27/22	Alarm Checks - PS	Pump Station Alarm Checks	691	Scheduled
1/28/22	Storm Station	Storm Station Alarm Check	683	Scheduled
2/01/22	Septage Datalogger	Data download	701	Scheduled
2/01/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	777	Scheduled
2/02/22	Bayview	Pump Duty Rotation (06)	607	Scheduled
2/02/22	Leacock Village	APSD Test Run	782	Scheduled
2/04/22	Septage Receiving Station	Septage Receiving	785	Scheduled
2/04/22	Septage Receiving Station	Septage Receiving	828	Scheduled
2/07/22	Storm Station	Storm Station Alarm Check	805	Scheduled
2/09/22	Shannon St	Wet Well Cleaning	1652	Maintenance
2/10/22	Leacock Village	APSD Test Run	831	Scheduled
2/11/22	Bridget / Maple Pump #1	Pump Duty Rotation (05)	508	Scheduled
2/11/22	Alarm Checks - PS	Pump Station Alarm Checks	783	Scheduled
2/17/22	Leacock Village	APSD Test Run	1064	Scheduled
2/21/22	Storm - Pumps 2,3 & 4	Pump Duty Rotation (04)	1048	Scheduled
2/24/22	Leacock Village	APSD Test Run	1068	Scheduled
3/01/22	Septage Datalogger	Data download	832	Scheduled
3/02/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	531	Scheduled
3/02/22	Storm Station	Storm Station Alarm Check	1049	Scheduled
3/03/22	Leacock Village	APSD Test Run	1070	Scheduled
3/04/22	Bridget / Maple Pump #1	Pump Duty Rotation (05)	853	Scheduled
3/04/22	Alarm Checks - PS	Bi-weekly Alarm Checks	852	Scheduled
3/08/22	Septage Receiving Station	Septage Receiving	1006	Scheduled
3/08/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	822	Scheduled
3/09/22	Bayview	Pump Duty Rotation (06)	829	Scheduled
3/09/22	Leacock Village	APSD Test Run	1073	Scheduled
3/09/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	855	Scheduled
3/14/22	Storm Station	Storm Station Alarm Check	1059	Scheduled
3/15/22	Forest Avenue North	Wet Well Cleaning	1653	Maintenance
3/15/22	Victoria Cres.	Wet Well Cleaning	1654	Maintenance
3/16/22	Bridget / Maple Pump #1	Pump Duty Rotation (05)	1072	Scheduled
3/16/22	Leacock Village	APSD Test Run	1075	Scheduled
3/16/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1061	Scheduled
3/17/22	Septage Receiving Station	Septage Receiving	1069	Scheduled
3/21/22	Bayview	Pump Duty Rotation (06)	1074	Scheduled
3/21/22	Leacock Village	APSD Test Run	1079	Scheduled
3/23/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1085	Scheduled
3/27/22	Septage Receiving Station	Septage Receiving	1071	Scheduled
3/28/22	Storm Station	Storm Station Alarm Check	1060	Scheduled
3/30/22	Bridget / Maple Pump #1	Pump Duty Rotation (05)	1081	Scheduled
3/30/22	Leacock Village	APSD Test Run	1083	Scheduled
3/30/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1062	Scheduled
3/31/22	Septage Datalogger	Data download	1065	Scheduled
4/03/22	Leacock Village	APSD Test Run	1149	Scheduled
4/04/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1040	Scheduled
4/04/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1094	Scheduled
4/06/22	James St Sump Pump	Corrective Maintenance	1884	Corrective
4/06/22	Broadview Ave	Wet Well Cleaning	1656	Maintenance
4/10/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1266	Scheduled

4/11/22	Storm Station	Storm Station Alarm Check	1087	Scheduled
4/12/22	Leacock Village	APSD Test Run	1160	Scheduled
4/14/22	Victoria Cres.	Corrective Maintenance	1885	Corrective
4/14/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1152	Scheduled
4/17/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1267	Scheduled
4/20/22	Storm Station	Storm Station Alarm Check	1651	Scheduled
4/24/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1268	Scheduled
4/25/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1509	Scheduled
4/27/22	Leacock Village	APSD Test Run	1161	Scheduled
5/01/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1269	Scheduled
5/01/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1270	Scheduled
5/05/22	Leacock Village	APSD Test Run	1162	Scheduled
5/08/22	Champlain Pumping Stn.	Corrective Maintenance	1892	Corrective
5/10/22	Leacock Village	APSD Test Run	1163	Scheduled
5/10/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1510	Scheduled
5/13/22	Royal Oak PS	Pump Station - Pump Fault Reset	1655	Corrective
5/15/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1271	Scheduled
5/17/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1105	Scheduled
5/17/22	Leacock Village	APSD Test Run	1164	Scheduled
5/18/22	James St Pump 1 Motor	B Grease Pumps	1129	Scheduled
5/18/22	Bayview - Pumping Stn.	Monthly Below Grounds Bayview.	669	Scheduled
5/18/22	Bayview	Pump Duty Rotation (06)	1078	Scheduled
5/18/22	Fittons West	Monthly Below Ground S & L (02)	986	Scheduled
5/18/22	Fittons East	Monthly Below Ground S & L (01)	992	Scheduled
5/22/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1272	Scheduled
5/25/22	Leacock Village	APSD Test Run	1165	Scheduled
5/29/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1273	Scheduled
5/29/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1642	Scheduled
6/01/22	Leacock Village	APSD Test Run	1166	Scheduled
6/05/22	Storm Station	Storm Station Alarm Check	1676	Scheduled
6/05/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1665	Scheduled
6/06/22	James St. PS Floats	Corrective Maintenance	1895	Corrective
6/06/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1274	Scheduled
6/07/22	Leacock Village	APSD Test Run	1167	Scheduled
6/12/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1117	Scheduled
6/12/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1275	Scheduled
6/14/22	Forest North - Pump 1	Annual Pump Inspections	1108	Scheduled
6/14/22	Forest North - Pump 2	Annual Pump Inspections (01)	1109	Scheduled
6/15/22	Leacock Village	APSD Test Run	1168	Scheduled
6/16/22	Leacock Village	APSD Test Run	1607	Unscheduled
6/21/22	Leacock Village	APSD Test Run	1169	Scheduled
6/21/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1276	Scheduled
6/26/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1277	Scheduled
6/29/22	Leacock Village	APSD Test Run	1170	Scheduled
7/03/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1278	Scheduled
7/05/22	Leacock Village	APSD Test Run	1171	Scheduled
7/10/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1279	Scheduled
7/13/22	Leacock Village	APSD Test Run	1172	Scheduled
7/17/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1280	Scheduled
7/18/22	Leacock Village	APSD Test Run	1173	Scheduled
7/19/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1126	Scheduled
7/27/22	Leacock Village	APSD Test Run	1174	Scheduled
8/01/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1134	Scheduled
8/01/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1282	Scheduled
8/03/22	Leacock Village	APSD Test Run	1175	Scheduled
8/09/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1283	Scheduled
8/10/22	Leacock Village	APSD Test Run	1176	Scheduled
8/10/22	Storm Station	Storm Station Alarm Check	1807	Scheduled
8/10/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1784	Scheduled
8/18/22	Leacock Village	APSD Test Run	1177	Scheduled
8/23/22	Leacock Village	APSD Test Run	1409	Scheduled
8/23/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1284	Scheduled

8/24/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1281	Scheduled
8/27/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1806	Scheduled
8/30/22	Leacock Village	APSD Test Run	1416	Scheduled
9/07/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1430	Scheduled
9/07/22	Leacock Village	APSD Test Run	1428	Scheduled
9/07/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1431	Scheduled
9/14/22	Leacock Village	APSD Test Run	1447	Scheduled
9/21/22	Leacock Village	APSD Test Run	1465	Scheduled
9/22/22	Bayview Wet Well	Wet Well Cleaning	1444	Scheduled
9/22/22	Fittons West Wet Well	Wet Well Cleaning	1442	Scheduled
9/22/22	Couchiching Point Wet Well	Wet Well Cleaning	1443	Maintenance
9/22/22	Champlain Wet Well #1	Wet Well Cleaning	1438	Scheduled
9/22/22	Champlain Wet Well #2	Wet Well Cleaning	1439	Scheduled
9/22/22	James St Wet Well #1	Wet Well Cleaning	1441	Scheduled
9/22/22	James St Wet Well #2	Wet Well Cleaning	1440	Scheduled
9/22/22	Storm Station Wet Well	Wet Well Cleaning	1452	Scheduled
9/22/22	Alarm Checks - PS	Miltronics Head Cleaning	1657	Maintenance
9/28/22	Leacock Village	APSD Test Run	1473	Scheduled
9/29/22	Storm Station	Storm Station Alarm Check	1823	Scheduled
9/29/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1827	Scheduled
10/03/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1496	Scheduled
10/03/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1494	Scheduled
10/05/22	Leacock Village	APSD Test Run	1492	Scheduled
10/12/22	Leacock Village	APSD Test Run	1504	Scheduled
10/13/22	Storm Station	Storm Station Alarm Check	1828	Scheduled
10/13/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1838	Scheduled
10/17/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1515	Scheduled
10/19/22	Leacock Village	APSD Test Run	1513	Scheduled
10/26/22	James St Pump 1 Motor	B Grease Pumps	1781	Scheduled
10/26/22	James St Pumping Stn.	B-Grease S Grease motors ,pumps and shafts	1825	Scheduled
10/26/22	Collins Dr Pump Stn	Corrective Maintenance	1904	Corrective
10/26/22	Leacock Village	APSD Test Run	1521	Scheduled
11/02/22	Leacock Village	APSD Test Run	1528	Scheduled
11/02/22	Storm Station	Storm Station Alarm Check	1880	Scheduled
11/02/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1877	Scheduled
11/07/22	Leacock Village	APSD Test Run	1542	Scheduled
11/09/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1544	Scheduled
11/09/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1545	Scheduled
11/15/22	Storm Station	Storm Station Alarm Check	1891	Scheduled
11/15/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1890	Scheduled
11/17/22	Leacock Village	APSD Test Run	1552	Scheduled
11/21/22	Pump Station Diesel Generator Test Run	a-test a service	1635	Maintenance
11/24/22	Leacock Village	APSD Test Run	1559	Scheduled
11/24/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1561	Scheduled
11/29/22	Storm Station	Storm Station Alarm Check	1900	Scheduled
11/29/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1899	Scheduled
12/01/22	Leacock Village	APSD Test Run	1567	Scheduled
12/06/22	Leacock Village	APSD Test Run	1579	Scheduled
12/06/22	Pump Station Diesel Generator Test Run	APSD Test Run (01)	1581	Scheduled
12/08/22	Leacock Village	APSD Test Run	1606	Maintenance
12/13/22	Collins Dr Pump Stn	Corrective Maintenance	1638	Corrective
12/15/22	Bayview - Pumping Stn.	Monthly Below Grounds Bayview.	1742	Scheduled
12/15/22	Fittons West	Monthly Below Ground S & L (02)	1739	Scheduled
12/15/22	Fittons East	Monthly Below Ground S & L (01)	1740	Scheduled
12/15/22	Leacock Village	APSD Test Run	1590	Scheduled
12/15/22	Storm Station	Storm Station Alarm Check	1907	Scheduled
12/15/22	Alarm Checks - PS	Bi-weekly Alarm Checks	1906	Scheduled
12/18/22	Pumping Stations Fire Extinguishers and Lights	Fire Extinguishers/Eye wash/ Emergency Light	1582	Scheduled
12/22/22	Leacock Village	APSD Test Run	1597	Scheduled
12/29/22	Leacock Village	APSD Test Run	1679	Scheduled

CUSTOMER NAME: CITY OF ORILLIA		VERIFICATION INSTRUMENTS LIST-2022						
02 ORILLIA WWTP								
SR. NO.	TAG	LOCATION	MAKE	MODEL	SERIAL #	COMMENT	CAL DATE	DUE DATE
1	FIT02	DAF BLDG-TWAS FEED	ROSEMOUNT	8712DR12N0M4	860177174	Keypad Not working ,Verification not performed		
2	FIT01	DAF BLDG – DAF FEED	Endress+Hauser	Promag 400	S4084B16000		May-22	May-23
3	FIT-SLG01	PRIMARY BLDG BASEMENT – PRIMARY SLUDGE	SIEMENS	7ME65110-4HU11-1AA0	7ME651 753614T247		May-22	May-23
4	FIT-DG01	DIGESTER BLDG BASEMENT – LAGOONED SLUDGE	SIEMENS	7ME690-1AA10-1BA0	7ME651 753814T247		May-22	May-23
5	FIT01	UV BLDG – FINAL EFFLUENT FLOW	MULTIRANGER	200	071901107VV		May-22	May-23
6	N/A	FINAL EFFLUENT BYPASS FLOW	MULTIRANGER	OCM III	PBD/V8190064		May-22	May-23
7	FIT-261	COO-WWTC	E+H	PROMAG 50 W	DB0BB816000		May-22	May-23
8	FIT-102	DIGESTER BLDG BASEMENT	E+H	PROLINE T_MASS 65	F70AC502000		May-22	May-23
9	FIT-101	DIGESTER BLDG BASEMENT	E+H	PROLINE T_MASS 65	F70AC602000		May-22	May-23
10	FIT03	DAF BLDG	E+H	PROMAG 50 P	6B026416000		May-22	May-23
11	AIT-PRIMARY BUILDING BASEMENT CH4	MAIN AREA	DRAEGER	8344808	ARML 0348		May-22	May-23
12	AIT-PRIMARY BUILDING BASEMENT H2S	MAIN AREA	DRAEGER	8344404	ARND 1512		May-22	May-23
13	AIT-PRIMARY BUILDING BASEMENT CH4	TUNNEL AREA	DRAEGER	8344808	ARMM 0596		May-22	May-23
14	AIT-PRIMARY BUILDING BASEMENT H2S	TUNNEL AREA	DRAEGER	8344404	ARND 1530		May-22	May-23
15	METH01	DIGESTER BLDG CONDENSATE ROOM CH4	DRAEGER	8344808	ARMM 0602		May-22	May-23
16	H2S01	DIGESTER BLDG CONDENSATE ROOM H2S	DRAEGER	8344404	ARND 1538		May-22	May-23
17	OXY01	DIGESTER BLDG CONDENSATE ROOM O2	DRAEGER	8344404	ARND 1520		May-22	May-23
18	FIT-01	FOREST AVE	E+H	PROMAG 53 W	MA0ADF16000		May-22	May-23
19	N/A	Boiler Room-H2S	Industrial Scientific	Works Alone2	N/A	Out of Service		
20	N/A	Boiler Room-CH4	Industrial Scientific	Works Alone2	N/A	Out of Service		
21	Filter 2	Filter Building	Krohne	Enviromag 2100	C17501447		May-22	May-23
22	Filter 1	Filter Building	Krohne	Enviromag 2100	C17500974		May-22	May-23
23	FIT290	Aeration	E+H	PROLINE T_MASS 65	N10D6F02000		May-22	May-23
24	FIT292	Aeration	E+H	PROLINE T_MASS 65	N10D6C02000		May-22	May-23
25	FIT293	Aeration	E+H	PROLINE T_MASS 65	N10D6E02000		May-22	May-23
03 BAYVIEW SPS								
26	FIT-01	BAYVIEW SPS	F&P	50XM1000	9511160559		May-22	May-23
27	FIT-02	BAYVIEW SPS	MULTIRANGER	OCM II	12861339		May-22	May-23
04 CHAMPLAIN SPS								
28	FIT1000	CHAMPLAIN SPS	ROSEMOUNT	8712ESR1A1N0M4	292635		May-22	May-23
29	NA	DRY PIT 'A' CH4	MSA	ULTIMA XE	E10-3355355-40-003		May-22	May-23
30	AIT-1004-04	DRY PIT H2S	MSA	ULTIMA XE	50-001	Sensor Found Faulty, Calibration Test Failed		
31	AIT-1004-05	DRY PIT CO	MSA	ULTIMA XE	E10-3355355-30004		May-22	May-23
32	AIT-1004-06	DRY PIT NON CH4	MSA	ULTIMA XE	40-003	Sensor Found Faulty, Calibration Test Failed		
33	AIT-1004-16	WET WELL NON CH4 'A'	MSA	ULTIMA XE	50-003	Out of Service		
34	AIT-1004-01	WET WELLCH4 'A'	MSA	ULTIMA XE	30-001	Out of Service		
35	AIT-1004-14	WET WELL H2S 'A'	MSA	ULTIMA XE	40-001	Out of Service		
36	AIT-1004-01	WET WELL CO 'A'	MSA	ULTIMA XE	20-003	Out of Service		
37	AIT-1004-12	WET WELL NON CH4 'B'	MSA	ULTIMA XE	50-004	Out of Service		
38	AIT-1004-3	WET WELLCH4 'B'	MSA	ULTIMA XE	30-003	Out of Service		
39	AIT-1008-03	WET WELL H2S 'B'	MSA	ULTIMA XE	20-001	Out of Service		
40	AIT-1004-09	WET WELL CO 'B'	MSA	ULTIMA XE	E10-3355355-40-002	Out of Service		
41	AIT-1004-13	SCREEN ROOM CO	MSA	ULTIMA XE	E10-3355355-30-002	Out of Service		
42	AIT-1004-10	SCREEN ROOM NON CH4	MSA	ULTIMA XE	E10-3355355-40-004	Out of Service		
43	AIT-1004-11	SCREEN ROOM CH4	MSA	ULTIMA XE	E10-3355355-20-002	Out of Service		
44	AIT-1004-08	SCREEN ROOM H2S	MSA	ULTIMA XE	50-002	Out of Service		

05 JAMES SPS								
45	FIT-01	JAMES SPS	KHRONE	IFC 090	A0658612		May-22	May-23
46	AIT-CO	JAMES SPS	DRAEGER	4544404	ERHB17641		May-22	May-23
47	AIT-CH4	JAMES SPS	DRAEGER	4544404	ERHB1175	Transmitter is located at height(at Ceiling level) which make very difficult to perform calibartion. So,strongly suggest to replace it with remote model	May-22	May-23
48	AIT-H2S	JAMES SPS	DRAEGER	4544404	ERHB1265		May-22	May-23
49	AIT-O2	JAMES SPS	DRAEGER	4544404	ERHB1771		May-22	May-23
50	AIT-04	JAMES SPS	MSA	ULTIMA XE	K06-2285771-40-001		May-22	May-23
51	AIT-03	JAMES SPS	MSA	ULTIMA XE	K06-2285771-40-001		May-22	May-23
52	AIT-02	JAMES SPS	MSA	ULTIMA XE	K06-2285771-30-001		May-22	May-23
53	AIT-01	JAMES SPS	MSA	ULTIMA XE	K06-2285771-10-001	O2 Sensor was faulty.Calibration Test Failed.		

COLOUR CODE	STATUS OF INSTRUMENT
Red	VERIFICATION FAILED
Yellow	VERIFICATION NOT COMPLETE/OUT OF SERVICE
Blue	VERIFICATION COMPLETE



INDUSCONTROL INC  
3170 Ridgeway Drive Unit 11 Mississauga  
ON L5L 5R4

Tel: +1 905.608.0070

Email : service@indus-control.com

## SERVICE REPORT

Client Name	City of Orillia- WWTP	Date of Service	May 2022
Client Address	40 Kitchener Street, Orillia, ON	Service Person	Sanket Trada
PO Number		Ref./Contract No.	CO1315-2205

### PURPOSE OF SERVICE:

- Perform Calibration/Verification of Flowmeters & Gas Detectors.
- Provide Calibration/Verification Report with Result and Comments.
- Provide Recommendation if needed.

### WORK DONE:

- Performed calibration/verification of Flowmeters and Gas Detectors as per the instrument list provided and all Flowmeter and Gas Detectors working as per specification except below one:

1	ORILLIA WWTP	<b>1) FIT02 (TWAS FEED Rosemount Flowmeter)</b> Keypad of Transmitter Not working Properly, needs to replace the transmitter to perform verification.  <b>2) Boiler Room H2S and CH4 (Gas Sensor) out of service</b>
2	BAYVIEW SPS	<b>1) FIT-01(F&amp;P)</b> Obsolete model, Needs to be replaced in near future.

3	CHAMPLAIN SPS	<p>1) <b>AIT-1004-04 Dry Pit H2S and AIT-1004-06 Dry Pit Non CH4 (MSA)</b> Sensor found faulty, Needs to be replaced.</p> <p>2) <b>AIT-1004-16 (WET WELL NON CH4 'A')</b>  <b>AIT-1004-01 (WET WELLCH4 'A')</b>  <b>AIT-1004-14 (WET WELL H2S 'A')</b>  <b>AIT-1004-01 (WET WELL CO 'A')</b>  <b>AIT-1004-12 (WET WELL NON CH4 'B')</b>  <b>AIT-1004-3 (WET WELLCH4 'B')</b>  <b>AIT-1008-03 (WET WELL H2S 'B')</b>  <b>AIT-1004-09 (WET WELL CO 'B')</b>  <b>AIT-1004-13 (SCREEN ROOM CO)</b>  <b>AIT-1004-10 (SCREEN ROOM NON CH4)</b>  <b>AIT-1004-11 (SCREEN ROOM CH4)</b>  <b>AIT-1004-08 (SCREEN ROOM H2S)</b>  <b>(MSA Gas Sensor)</b>  All Sensor Out of Service</p>
4	JAMES SPS	<p>1) <b>AIT-01 MSA O2 Gas Sensor</b> found faulty, Need to be replaced.</p> <p>2) <b>AIT- CH4 Draeger Gas Sensor</b>, Transmitter is located at height(at Ceiling level) which make very difficult to perform calibration. So, strongly suggest to replace it with remote model</p>

May 27, 2022

Date

Version: 20-01





IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name: City of Orillia  
Plant Name: James SPS

Site/Plant Address: 125 James street West  
Orillia, ON, L3V 5X6

### Device Information

Make: Khrono  
Model: IFC 090F  
Order Code: N/A  
Serial No.: A0658612  
Tag: FIT01  
Job Location: Sludge unloading

### Service Information

Date: May 12, 2022  
Report No: CO1315-2205-45  
Job No: CO1315-2205

### Flow Details

Unit: L/SEC  
Flow Range: 63  
Current Output: 4-20 mA  
4 mA Set Point: 0  
20 mA Set Point: 63

### Sensor Details

Line size: 100 mm 4 inch  
GK: 2.5545  
Mounting: Remote

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (L)	281.88E6	281.88E6
FLOW (L/SEC)	0	0

### Maintenance Checklist

Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Transmitter Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK

### Remarks

### Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.00	4.00	0.00
A	3.06	4.78	3.00	4.73	0.06
B	6.12	5.55	6.00	5.51	0.12
C	12.23	7.11	12.00	7.07	0.23
D	30.58	11.77	31.00	11.82	-0.42
E	61.15	19.53	61.00	19.49	0.15

### Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 3
Device Description:	Calibrator	Electrical Multimeter	NA
Manufacturer:	Khrono	Fluke	NA
Model No:	GS8B	179	NA

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Verification Test Passed.

Service Technician : Tushar Patel

Stamp/Signature

Printed Date: May 12, 2022

End of Report

Version: 19-12



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: James St SPS

Site/Plant Address: 125 James Street West  
Orillia, ON, L3V 5X6

**Device Information**  
Make: Draeger  
Model: Polytron 8000  
Part No.: 4544404  
Serial No.: ERHB1761  
Tag No: AIT-CO  
Job Location: Wet Well

**Service Information**  
Date: May 10, 2022  
Report No: CO1315-2205-46  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Carbon Monoxide (CO)  
Sensor Part No : 6812675  
Sensor Serial No.: ARFN 0454  
Sensor Range: 0-300 PPM

**Gas Details**  
Unit: PPM  
Gas Range: 0-100 PPM  
Current Output: 4-20 mA  
4-20mA Set Point: 0-300 PPM  
Alarm 1 Set Point: 30 PPM  
Alarm 2 Set Point: 99.8 PPM

Inst. Reading	AS FOUND	AS LEFT
GAS (PPM)	0	0

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (PPM)	UUT Display (PPM)	Deviation (PPM)	Test Result
Zero	0	0	0	Passed
Span	50	50	0	Passed


Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	CO(50 PPM)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Calibration Test Passed.

Service Technician : Sanket Trada  
Printed Date: May 10, 2022

Stamp/Signature 



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: James St SPS

Site/Plant Address: 125 James Street West  
Orillia, ON, L3V 5X6

**Device Information**  
Make: Draeger  
Model: Polytron 8000  
Part No.: 4544404  
Serial No.: ERHB1175  
Tag No: AIT-CH4  
Job Location: Wet Well

**Service Information**  
Date: May 10, 2022  
Report No: CO1315-2205-47  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Methane (CH4)  
Sensor Part No: N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-100%LEL

**Gas Details**  
Unit: % LEL  
Gas Range: 0 - 50% LEL  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-50% LEL  
Alarm 1 Set Point: 10%LEL  
Alarm 2 Set Point: 20%LEL

Inst. Reading	AS FOUND	AS LEFT
GAS (%LEL)	0	0

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input type="checkbox"/> OK	<input checked="" type="checkbox"/> NOT OK	Transmitter should be located at Eye level

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (% LEL)	UUT Display (% LEL)	Deviation (% LEL)	Test Result
Zero	0	0	0	Passed
Span	50	53	3	Passed

Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	CH4 (50% LEL)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Transmitter is located at Ceiling level which is required to be relocate at Eye level in order to perform calibration easily.  
Calibration Test Passed.

Service Technician : Sanket Trada

Stamp/Signature

Printed Date: May 10, 2022

End of Report

Version: 20-01



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name:	City of Orillia	Site/Plant Address:	125 James Street West
Plant Name:	James St SPS		Orillia, ON, L3V 5X6

Device Information	
Make:	Draeger
Model:	Polytron 8000
Part No.:	4544404
Serial No.:	ERHB 1265
Tag No:	AIT-H2S
Job Location:	Wet Well

Service Information	
Date:	May 10, 2022
Report No:	CO1315-2205-48
Job No:	CO1315-2205

Sensor Details	
Gas Type	Hydrogen Sulfide (H2S)
Sensor Part No :	6809610
Sensor Serial No.:	ARFM 0390
Sensor Range:	0-50 PPM

Gas Details	
Unit:	PPM
Gas Range:	0-25 PPM
Current Output:	4-20 mA
4-20mA Set Point	0-50 PPM
Alarm 1 Set Point	10 PPM
Alarm 2 Set Point	20 PPM

Inst. Reading	AS FOUND	AS LEFT
GAS (PPM)	0.0	0.0

Maintenance Checklist	Remarks
Visual Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Electrical Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Sensor Installation: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Transmitter Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (PPM)	UUT Display (PPM)	Deviation (PPM)	Test Result
Zero	0.0	0.0	0.0	Passed
Span	25.0	24.3	-0.7	Passed

Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	H2S (25 PPM)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:	<input checked="" type="checkbox"/> <b>Passed</b>	<input type="checkbox"/> <b>Fail</b>	<input type="checkbox"/> <b>Not Verified</b>
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Overall Remarks:	Measurement Works within Specification. Calibration Test Passed.
------------------	---

Service Technician :	Sanket Trada	Stamp/Signature
Printed Date:	May 10, 2022	

End of Report

Version: 20-01



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: James St SPS

Site/Plant Address: 125 James Street West  
Orillia, ON, L3V 5X6

**Device Information**  
Make: Draeger  
Model: Polytron 8000  
Part No.: 4544404  
Serial No.: ERHB1771  
Tag No: AIT-O2  
Job Location: Wet Well

**Service Information**  
Date: May 10, 2022  
Report No: CO1315-2205-49  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Oxygen (O2)  
Sensor Part No: 6809630  
Sensor Serial No.: ARHB 0470  
Sensor Range: 0-25% (VOL)

**Gas Details**  
Unit: % (VOL)  
Gas Range: 0 - 21% (VOL)  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-21% (VOL)  
Alarm 1 Set Point: 19% (VOL)  
Alarm 2 Set Point: 23% (VOL)

Inst. Reading	AS FOUND	AS LEFT
GAS (%VOL)	21.4%	20.8%

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (%VOL)	UUT Display (%VOL)	Deviation (%VOL)	Test Result
Zero	0.0	0.0	0.0	Passed
Span	21.0	21.3	0.3	Passed

Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	O2 (21% VOL)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Calibration Test Passed.

Service Technician: Sanket Trada

Stamp/Signature

Printed Date: May 10, 2022

End of Report

Version: 20-01



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: James St SPS

Site/Plant Address: 125 James Street West  
Orillia, ON, L3V 5X6

**Device Information**  
Make: MSA  
Model: Ultima XE  
Part No.: NA  
Serial No.: K06-2285771-40-001  
Tag No: AIT-04  
Job Location: Septage Receival

**Service Information**  
Date: May 10, 2022  
Report No: CO1315-2205-50  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Carbon Monoxide (CO)  
Sensor Part No.: N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-100 PPM

**Gas Details**  
Unit: PPM  
Gas Range: 0-100 PPM  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-60 PPM  
Alarm 1 Set Point: 20 PPM  
Alarm 2 Set Point: 25 PPM

Inst. Reading	AS FOUND	AS LEFT
GAS (PPM)	0	0

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (PPM)	UUT Display (PPM)	Deviation (PPM)	Test Result
Zero	0	0	0	Passed
Span	50	48	-2	Passed


Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	CO
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Calibration Test Passed.

Service Technician : Sanket Trada  
Printed Date: May 10, 2022

Stamp/Signature 



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: James St SPS

Site/Plant Address: 125 James Street West  
Orillia, ON, L3V 5X6

**Device Information**  
Make: MSA  
Model: Ultima XE  
Part No.: NA  
Serial No.: K06-2285771-40-001  
Tag No: AIT-03  
Job Location: Septage Receival

**Service Information**  
Date: May 10, 2022  
Report No: CO1227-2105-51  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Methane (CH4)  
Sensor Part No: N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-100% LEL

**Gas Details**  
Unit: % LEL  
Gas Range: 0 - 50% LEL  
Current Output: 4-20 mA  
4-20mA Set Point: 0-100% LEL  
Alarm 1 Set Point: 8% LEL  
Alarm 2 Set Point: 10% LEL

Inst. Reading	AS FOUND	AS LEFT
GAS (%LEL)	0	0

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (% LEL)	UUT Display (% LEL)	Deviation (% LEL)	Test Result
Zero	0	0	0	Passed
Span	50	45	-5	Passed


Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	CH4 (50% LEL)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Calibration Test Passed.  
Sensor is ageing & its sensitivity is getting low ,sensor need to be replaced.

Service Technician : Sanket Trada

Stamp/Signature 

Printed Date: May 10, 2022



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: James St SPS

Site/Plant Address: 125 James Street West  
Orillia, ON, L3V 5X6

**Device Information**  
Make: MSA  
Model: Ultima XE  
Part No.: NA  
Serial No.: K06-2285771-30-001  
Tag No: AIT-02  
Job Location: Septage Receival

**Service Information**  
Date: May 10, 2022  
Report No: CO1315-2205-52  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Hydrogen Sulfide (H2S)  
Sensor Part No : N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-100 PPM

**Gas Details**  
Unit: PPM  
Gas Range: 0-25 PPM  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-40 PPM  
Alarm 1 Set Point: 4 PPM  
Alarm 2 Set Point: 5 PPM

Inst. Reading	AS FOUND	AS LEFT
GAS (PPM)	0.0	0.0

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (PPM)	UUT Display (PPM)	Deviation (PPM)	Test Result
Zero	0.0	0.0	0.0	Passed
Span	25.0	27.0	2.0	Passed

Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	H2S (25 PPM)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Calibration Test Passed.

Service Technician : Sanket Trada

Stamp/Signature

Printed Date: May 10, 2022

End of Report

Version: 20-01





IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: James St SPS

Site/Plant Address: 125 James Street West  
Orillia, ON, L3V 5X6

**Device Information**  
Make: MSA  
Model: Ultima XE  
Part No.: NA  
Serial No.: K06-2285771-10-001  
Tag No: AIT-01  
Job Location: Septage Receival

**Service Information**  
Date: May 10, 2022  
Report No: CO1315-2205-53  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Oxygen (O2)  
Sensor Part No : A-ULTX-SENS-14-1-0  
Sensor Serial No.: B18-401116310-20-001  
Sensor Range: 0-25% (VOL)

**Gas Details**  
Unit: % (VOL)  
Gas Range: 0-21% (VOL)  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-21% (VOL)  
Alarm 1 Set Point: 19.5% (VOL)  
Alarm 2 Set Point: 19% (VOL)

Inst. Reading	AS FOUND	AS LEFT
GAS (%VOL)	Span fail	Span fail

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (%VOL)	UUT Display (%VOL)	Deviation (%VOL)	Test Result
Zero	0.0	0.0	0.0	Failed
Span	21.0	0.0	-21.0	Failed


Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	O2 (21% VOL)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  Passed  Fail  Not Verified

Overall Remarks: Sensor was faulty.  
So calibration test did not pass. Faulty sensor need to be replaced with New Sensor.

Service Technician : Sanket Trada  
Printed Date: May 10, 2022

Stamp/Signature 



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name: City of Orillia  
Plant Name: Champlain SPS

Site/Plant Address: 25 Mulcahy court,  
Orillia, ON L3V8B3

**Device Information**  
Make: Rosemount  
Model: 8712DR12N0M4  
Order Code: N/A  
Serial No.: 292635  
Tag: FIT1000  
Job Location: Champlain SPS

**Service Information**  
Date: May 11, 2022  
Report No: CO1315-2205-28  
Job No: CO1315-2205

**Sensor Details**  
Line size: 300 mm12 inch  
Flow Cal Tube No.: 11217051109020-05  
Mounting: Remote

**Flow Details**  
Unit: L/SEC  
Flow Range: 500  
Current Output: 4-20 mA  
4 mA Set Point: 0  
20 mA Set Point: 500

Inst. Reading	AS FOUND	AS LEFT
span(%)	0	0
FLOW (L/SEC)	0	0

Maintenance Checklist	Remarks
Visual Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Electrical Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Sensor Installation: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Transmitter Installation: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	

Instrument Test Information and Results					
Test-Point as Per Calibration KIT	Calculated Flow (FPS)	Calculated O/P (mA)	UUT Display (FPS)	UUT Measured Output (mA)	Deviation (FPS)
0.00	0.00	4.00	0.00	4.00	0.00
3.00	3.00	5.60	2.99	5.59	0.01
10.00	10.00	9.33	9.98	9.30	0.02
30.00	30.00	20.00	30.00	20.00	0.00

Information of Tools used for Verification of the Instruments			
Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 3
Device Description:	Calibrator	Electrical Multimeter	NA
Manufacturer:	Rosemount	Fluke	NA
Model No:	8714D	179	NA

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Verification Test Passed.

Service Technician : Tushar Patel  
Printed Date: May 11, 2022

Stamp/Signature



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: Champlain SPS

Site/Plant Address: 24 Mulcahy Ct, Orillia,  
ON, L3V 8B3

**Device Information**  
Make: MSA  
Model: Ultima XE  
Serial No.: E10-3355355-40-003  
Part No.: N/A  
Tag No.: N/A  
Job Location: Dry Pit 'A' CH4

**Service Information**  
Date: May 11, 2022  
Report No: CO1315-2205-29  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Methane (CH4)  
Sensor Part No: N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-100%LEL

**Gas Details**  
Unit: % LEL  
Gas Range: 0 - 50% LEL  
Current Output: 4-20 mA  
4-20mA Set Point: 0 - 50% LEL  
Alarm 1 Set Point: 10%LEL  
Alarm 2 Set Point: 20%LEL  
Alarm 3 Set Point: 30%LEL  
Inst. Reading: AS FOUND      AS LEFT  
GAS (%LEL): 0      0

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (% LEL)	UUT Display (% LEL)	Deviation (% LEL)	Test Result
Zero	0	0	0	Passed
Span	50	52	2	Passed

Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	CH4 (50% LEL)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**       **Fail**       **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Calibration Test Passed.

Service Technician : Sanket Trada  
Printed Date: May 11, 2022

Stamp/Signature



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: Champlain SPS

Site/Plant Address: 24 Mulcahy Ct, Orillia,  
ON, L3V 8B3

**Device Information**  
Make: MSA  
Model: Ultima XE  
Serial No.: E10-3355355-50-001  
Part No.: N/A  
Tag No: AIT-1004-04  
Job Location: Dry Pit H2S

**Service Information**  
Date: May 11, 2022  
Report No: CO1315-2205-30  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Hydrogen Sulfide (H2S)  
Sensor Part No.: N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-50 PPM

**Gas Details**  
Unit: PPM  
Gas Range: 0-25 PPM  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-40 PPM  
Alarm 1 Set Point: 5 PPM  
Alarm 2 Set Point: 10 PPM  
Alarm 2 Set Point: 15 PPM  
Inst. Reading: AS FOUND AS LEFT  
GAS (PPM): Sensor missing Sensor missing

Maintenance Checklist		
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK

Remarks

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (PPM)	UUT Display (PPM)	Deviation (PPM)	Test Result
Zero	0.0	0.0	0.0	Failed
Span	25.0	0.0	-25.0	Failed


Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	H2S (25 PPM)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  Passed  Fail  Not Verified

Overall Remarks: Sensor Found Faulty, It needs to be replaced and further Investigation required after replacement of new sensor.

Service Technician : Sanket Trada  
Printed Date: May 11, 2022

Stamp/Signature 



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: Champlain SPS

Site/Plant Address: 24 Mulcahy Ct, Orillia,  
ON, L3V 8B3

**Device Information**  
Make: MSA  
Model: Ultima XE  
Serial No.: E10-3355355-30-004  
Part No.: N/A  
Tag No: AIT-1004-05  
Job Location: Dry Pit CO

**Service Information**  
Date: May 11, 2022  
Report No: CO1315-2205-31  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Carbon Monoxide (CO)  
Sensor Part No.: N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-100 PPM

**Gas Details**  
Unit: PPM  
Gas Range: 0-100 PPM  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-60 PPM  
Alarm 1 Set Point: 10 PPM  
Alarm 2 Set Point: 20 PPM  
Alarm 2 Set Point: 30 PPM  
Inst. Reading: 

AS FOUND	AS LEFT
0	0

Maintenance Checklist	Remarks
Visual Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Electrical Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Sensor Installation: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Transmitter Inspection: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (PPM)	UUT Display (PPM)	Deviation (PPM)	Test Result
Zero	0	0	0	Passed
Span	50	48	-2	Passed

Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	CO
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  Passed  Fail  Not Verified

Overall Remarks: Measurement Works within Specification.  
Calibration Test Passed.

Service Technician : Sanket Trada Stamp/Signature   
Printed Date: May 11, 2022



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT GAS DETECTOR/ANALYSER

Customer Name: City of Orillia  
Plant Name: Champlain SPS

Site/Plant Address: 24 Mulcahy Ct, Orillia,  
ON, L3V 8B3

**Device Information**  
Make: MSA  
Model: Ultima XE  
Serial No.: E10-3355355-40-003  
Part No.: N/A  
Tag No: AIT-1004-06  
Job Location: Dry Pit Non CH4

**Service Information**  
Date: May 11, 2022  
Report No: CO1315-2205-32  
Job No: CO1315-2205

**Sensor Details**  
Gas Type: Methane (CH4)  
Sensor Part No: N/A  
Sensor Serial No.: N/A  
Sensor Range: 0-100% LEL

**Gas Details**  
Unit: % LEL  
Gas Range: 0 -50% LEL  
Current Output: 4-20 mA  
4- 20mA Set Point: 0-27%LEL  
Alarm 1 Set Point: 10%LEL  
Alarm 2 Set Point: 20%LEL

Inst. Reading	AS FOUND	AS LEFT
GAS (%LEL)	Sensor missing	Sensor missing

Maintenance Checklist			Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	
Transmitter Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK	

Instrument Test Information and Results				
Calibration-Point	Calibrated Gas Value (% LEL)	UUT Display (% LEL)	Deviation (% LEL)	Test Result
Zero	0	0	0	Failed
Span	50	0	-50	Failed

Information of Gas used for Verification of the Instruments		
Details	Tool/Kit 1	Tool/Kit 2
Device Description:	Zero Gas	Span Gas
Gas Type:	Zero Gas	CH4 (50% LEL)
Manufacturer:	Drager	Drager

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  Passed  Fail  Not Verified

Overall Remarks: Sensor Found Faulty, It needs to be replaced and further Investigation required after replacement of new sensor.

Service Technician : Sanket Trada

Stamp/Signature

Printed Date: May 11, 2022

End of Report

Version: 20-01



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name: City of Orillia  
Plant Name: Bayview SPS

Site/Plant Address: 406 Bayview park way,  
Orillia ON, L3V 6Z9

**Device Information**  
Make: Fisher & Porter  
Model: 50XM1000  
Order Code: N/A  
Serial No.: 9511160559  
Tag: FIT01  
Job Location: Wet well flow

**Service Information**  
Date: May 12, 2022  
Report No: CO1315-2205-26  
Job No: CO1315-2205

**Flow Details**  
Unit: m3/day  
Flow Range: 6000  
Current Output: 4-20 mA  
4 mA Set Point: 0  
20 mA Set Point: 6000

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (L)	5556352	5566973
FLOW (L/SEC)	0.0000	45.1700

Maintenance Checklist		Remarks
Visual Inspection:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Electrical Inspection:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Sensor Installation:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	
Transmitter Installation:	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OK	

Instrument Test Information and Results					
Flow Input (%)	Calculated Flow (m3/day)	Calculated O/P (mA)	UUT Display (m3/day)	UUT Measured Output (mA)	Deviation (m3/day)
0.00	0.00	4.00	0.30	4.00	-0.30
25.00	1500.00	8.00	1497.90	7.93	2.10
50.00	3000.00	12.00	3000.10	12.03	-0.10
75.00	4500.00	16.00	4499.20	15.98	0.80
100.00	6000.00	20.00	5999.00	19.97	1.00

Information of Tools used for Verification of the Instruments			
Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Multifunction Process Calibrator	NA
Manufacturer:	Fluke	Extech	NA
Model No:	179	PRC30	NA

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**     **Fail**     **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Verification Test Passed.

Service Technician : Tushar Patel  
Printed Date: May 12, 2022

Stamp/Signature 



IndusControl Inc.  
3170 Ridgeway Drive, Unit 11  
Mississauga, ON, L5L 5R4

## VERIFICATION REPORT OPEN CHANNEL FLOW MEASUREMENT

Customer Name: City of Orillia  
Plant Name: Bayview SPS

Site/Plant Address: 406 Bayview park way,  
Orillia ON, L3V 6Z9

### Device Information

Make: Milltronics  
Model: Multiranger OCM111  
Order Code: N/A  
Serial No.: 12861339  
Tag: FIT02  
Job Location: Reservoir flow

### Service Information

Date: May 12, 2022  
Report No: CO1315-2205-27  
Job No: CO1315-2205

### Flow Details

Unit: L/SEC  
Flow Range: 5  
Current Output: 4-20 mA  
4 mA Set Point: 0  
20 mA Set Point: 5

Inst. Reading	AS FOUND	AS LEFT
Totalizer	736595	736595

### Maintenance Checklist

Visual Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Electrical Inspection:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Sensor Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK
Transmitter Installation:	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NOT OK

### Remarks

### Instrument Test Information and Results

Input (%)	Calculated Flow (l/sec)	Calculated Input (mA)	O/P Flow on Scada (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.01	3.99	-0.01
25	1.25	8.00	1.24	7.99	0.01
50	2.50	12.00	2.48	11.99	0.02
75	3.75	16.00	3.74	15.97	0.01
100	5.00	20.00	5.02	20.01	-0.02

### Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 3
Device Description:	Electrical Multimeter	Multifunction Process Calibrator	NA
Manufacturer:	Fluke	Extech	NA
Model No:	179	PRC30	NA

\* Refer Calibration Tools Certificates submittal for more Information

Overall Test Result:  **Passed**  **Fail**  **Not Verified**

Overall Remarks: Measurement Works within Specification.  
Verification Test Passed.

Service Technician : Tushar Patel

Stamp/Signature

Printed Date: May 12, 2022