

Municipality Of Chatham-Kent
Chatham-Kent Public Utilities Commission
Water/Wastewater Services

To: Mayor and Members of Council

From: Lilly Snobelen
Manager, Compliance & Quality Standards
Chatham-Kent Public Utilities Commission

Date: February 18, 2020

Subject: 2019 Summary Reports for Drinking Water and Wastewater Systems

Recommendations

It is recommended that:

1. The attached Summary Reports for Drinking Water and Wastewater Systems be reviewed and any concerns be addressed with the General Manager of the Chatham-Kent Public Utilities Commission (CK PUC);
2. The attached Summary Reports for Drinking Water and Wastewater Systems be approved.

Background

Under the Safe Drinking Water Act 2002, Regulation 170/03, Schedule 22 'Summary Reports for Municipalities,' Administration is required to present a yearly summary report to the members of Commission and to the members of Council.

Commission has also asked that Administration prepare a summary of the wastewater treatment systems for information.

Comments

The Annual Summary Reports are attached for each water and wastewater system operated by CK PUC. The following list of items is included in the annual summary reports:

Water Systems:

- A summary list of issues for the water systems

- A list of requirements of the Act, the regulations, the system approval and any order that the system failed to meet at any time during the period covered by the report and the duration of the failure
- For each failure, a description of the measures that were taken to correct the failure
- A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows
- A comparison of the summary to the rated capacity and flow rates approved in the system approval.

Wastewater Systems:

- A brief description of the wastewater treatment system
- A list of effluent requirements as set out in the various Certificates of Approval or Environmental Compliance Approvals for the systems
- A comparison of the summary to the rated capacity and flow rates approved in the system approval
- A table of the effluent analysis and any compliance issues identified.

Areas of Strategic Focus and Critical Success Factors

The recommendations in this report support the following areas of strategic focus:

Economic Prosperity:

Chatham-Kent is an innovative and thriving community with a diversified economy

A Healthy and Safe Community:

Chatham-Kent is a healthy and safe community with sustainable population growth

People and Culture:

Chatham-Kent is recognized as a culturally vibrant, dynamic, and creative community

Environmental Sustainability:

Chatham-Kent is a community that is environmentally sustainable and promotes stewardship of our natural resources

The recommendations in this report support the following critical success factors:

Financial Sustainability:

The Corporation of the Municipality of Chatham-Kent is financially sustainable

Open, Transparent and Effective Governance:

The Corporation of the Municipality of Chatham-Kent is open, transparent and effectively governed with efficient and bold, visionary leadership

Has the potential to support all areas of strategic focus & critical success factors

Neutral issues (does not support negatively or positively)

Consultation

PUC Environmental Compliance Technicians
Compliance/Backflow Prevention Officer

Financial Implications

There are no financial implications resulting from the recommendations.

Prepared by:



Lilly Snobelen
Manager, Compliance & Quality Standards
Public Utilities Commission

Reviewed by:



Tim Sunderland
General Manager
Public Utilities Commission

Attachment(s):

Summary Report for Chatham-Kent Drinking Water Systems 2019
Summary of Compliance Issues for Chatham-Kent Wastewater Systems in 2019

**Public Utilities Commission for the Municipality of Chatham-Kent
 Summary Report for Water Systems
 2019**

The following issues of Non Compliance with the Terms and Conditions of the Drinking Water Works Permit or the Municipal Drinking Water License and the following Adverse Drinking Water Quality Incidents and Boil Water Advisories occurred:

Bothwell Distribution System

Non Compliance	None
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Adverse	None
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Chatham Drinking Water System

Non Compliance	None
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Adverse Total Coliform	July 8: 3 Total Coliforms in a Distribution Sample from Sample Station #8 on Phillip St. Corrective Action(s): Flush and Resample for E. coli and Total Coliform. Incident resolved July 11. AWQI # 146220
Boil Water Advisory	July 11: Boil Water Advisory due to suspected contamination during a watermain repair on Coverdale St. in Chatham. Corrective Action(s): Flush and Resample for E coli and Total coliforms until 2 consecutive sets return clear. Boil Water Advisory was rescinded July 13. AWQI # 146313
Adverse Total Coliform	September 4: 2 Total Coliforms in a Distribution Sample from Sample Station CH21 on Park Ave. W. Corrective Action(s): Flush and Resample for E. coli and Total Coliform. Incident resolved September 6. AWQI # 147820
Adverse Total Coliform	December 10: 4 Total Coliforms in a North-Kent Distribution Sample from Sample Station 11 at the end of Sharrow Road. Corrective Action(s): Flush and Resample for E. coli and Total Coliform. Incident resolved December 11. AWQI # 149213

**Public Utilities Commission for the Municipality of Chatham-Kent
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Adverse Residual Chlorine	December 13: Free chlorine residual <0.20 mg/L in the Distribution System near dead end of Bothwell St. Corrective Action(s): Flushing and Retest of Free Chlorine Residual. Free chlorine residual verified by Operator. Incident resolved December 13. AWQI # 149263
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Ridgetown Drinking Water System

Non Compliance	None
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Adverse Naturally Occurring Fluoride	January 18: Fluoride concentration of 1.9 mg/L at the Erie point of entry. Corrective Action(s): Resample and test (January 21). Fluoride is naturally occurring in the source water for Ridgetown in amounts greater than the 1.5 mg/L standard. AWQI # 144561
Adverse Naturally Occurring Fluoride	January 18: Fluoride concentration of 1.9 mg/L at the Scane point of entry. Corrective Action(s): Resample and test (January 21). Fluoride is naturally occurring in the source water for Ridgetown in amounts greater than the 1.5 mg/L standard. AWQI # 144562
Adverse Pressure <20 psi	March 31: Pressure below 20 psi in the Highgate Distribution System for approximately 45 minutes. Event occurred due to emergency pump failure after a power outage at the Highgate Reservoir & Booster Pumping Station. Corrective Action(s): The issue self-corrected once the power was restored and the Pump Skid returned to normal operation. 2019 Sept 05: 30hp Back Up installed for emergency pump. 2019 Nov 12: 15hp Exist emergency pump replaced with a new 30hp. 2019 Dec 02: Pump 4 installed as Back Up for Pump Skid. 2020 Jan 20: Incident resolved. Test runs and trial run period for new back up emergency pumps deemed successful. AWQI # 145105
Adverse Total Coliform	July 29: 1 Total Coliform at the Erie point of entry. Corrective Action(s): Flush, Resample and test. Incident resolved 2019-Aug-01. AWQI # 146920

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Adverse Total Coliform	Sept 23: 1 Total Coliform at the Erie point of entry. Corrective Action(s): Flush, Resample and test. Incident resolved 2019-Sep-26. AWQI # 148202
Adverse Naturally Occurring Sodium	Sodium concentrations of 71 mg/L, 72 mg/L, 71 mg/L and 72 mg/L in the Distribution System at 15 Cunningham Ave., 67 Ebenezer St. W., 180 Main St. E., & 161 Queen St. (Highgate), respectfully. AWQI # 149305, 149306, 149307 & 149308 reported on December 19, 2019. Corrective Action Taken: Resample and test. Sodium is naturally occurring in the source water in amounts greater than the 20 mg/L standard.

South Drinking Water System

Non Compliance	None
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Adverse Total Coliforms	June 10: 18 Total Coliforms in a Distribution sample from SW28 Middle Line and Ella and 29 Total Coliforms in a Distribution Sample from SW27 End of Pollard Line. Corrective Action(s): Resample and test. Sample results satisfactory. Incident resolved June 13 AWQI # 145667
Adverse Total Coliform	July 16: 1 Total Coliform in a Distribution sample from Sample Station #14 on Communication Rd. Corrective Action(s): Resample and test. Sample results satisfactory. Incident resolved July 18 AWQI # 146478
Adverse Total Coliform	July 22: 9 Total Coliform in a Distribution sample from Sample Station #28 at Middle Line and Ella. Corrective Action(s): Flush, resample and test. Sample results satisfactory. Incident resolved July 25 AWQI # 146685
Adverse Total Coliform	July 22: 28 Total Coliform in a Distribution sample from Sample Station #27 at the end of Pollard Line. Corrective Action(s): Flush, resample and test. Sample results satisfactory. Incident resolved July 25 AWQI # 146687

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Adverse Total Coliform	September 10: 1 Total Coliform in a Distribution sample from Blenheim Reservoir. Corrective Action(s): Flush, resample and test. Sample results satisfactory. Incident resolved September 11 AWQI # 147944
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Wallaceburg Drinking Water System

Non Compliance	None
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Adverse Residual Chlorine	Feb 20: Chlorine Residual >4.0mg/L at the Point of Entry for approximately 1 minute at 22:08, and then again for approximately 2 minutes from 22:14 to 22:16. Corrective Action(s): The Chlorine Residual self-corrected, no further action was required. The incident was resolved on Feb 20. AWQI #144844
Adverse Total Coliform	Sept 04: 1 Total Coliform count in a sample taken from the Point of Entry Corrective Action(s): Resample and test. Sample results satisfactory. The incident was resolved on Sep 05. AWQI #147811
Adverse Total Coliform	Nov 19: 2 Total Coliform count in a distribution sample taken from SS 5 on Dora Drive Corrective Action(s): Resample and test. Sample results satisfactory. The incident was resolved on Nov 21. AWQI #149035
Adverse Total Coliform	Nov 26: 1 Total Coliform count in a sample taken from the Point of Entry Corrective Action(s): Resample and test. Sample results satisfactory. The incident was resolved on Nov 27. AWQI #149109

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Wheatley Drinking Water System

Non Compliance	None
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Adverse Residual Chlorine	<p>Jun 5: Residual free chlorine greater than 4.00 mg/L for approx. 5 minutes (distribution water leaving the Tilbury Rechlorination Station).</p> <p>Corrective Action(s): Self-Corrected. Maintenance of ball check & review of programming.</p> <p>Incident resolved June 5.</p> <p>AWQI # 145600</p>
Adverse Total Coliforms	<p>Jun 6: Residual free chlorine greater than 4.00 mg/L for approx. 5 minutes (distribution water leaving the Tilbury Rechlorination Station).</p> <p>Corrective Action(s): Self-Corrected. Review of SCADA/PLC programming.</p> <p>Incident resolved June 6.</p> <p>AWQI # 145636</p>
Adverse Residual Chlorine	<p>Jun 7: 33 Total Coliforms from a new hydrant installation at Superior St. & Elm St. in Tilbury.</p> <p>Corrective Action(s): Flush and Resample. Sample results satisfactory.</p> <p>Incident resolved June 8.</p> <p>AWQI # 145634</p>
Adverse Residual Chlorine	<p>Jun 8 & 9: Two instances of residual free chlorine greater than 4.00 mg/L in distribution water leaving the Tilbury Rechlorination Station (for approx. 8 minutes on June 8 & for approx. 6 minutes on June 9).</p> <p>Corrective Action(s): Self-Corrected. Investigation and monitoring continued. Ball Check was cleaned.</p> <p>Incident resolved June 10.</p> <p>AWQI # 145652</p>
Adverse Residual Chlorine	<p>Jul 19: Residual free chlorine greater than 4.00 mg/L for approx. 1 minute (distribution water leaving the Tilbury Rechlorination Station).</p> <p>Corrective Action(s): Self-Corrected.</p> <p>Incident resolved July 19.</p> <p>AWQI # 146689</p>

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Adverse Residual Chlorine	Aug 13: Residual free chlorine greater than 4.00 mg/L for approx. 5 minutes (distribution water leaving the Tilbury Rechlorination Station). Corrective Action(s): Self-Corrected. Ordering and installing new check valve. Reviewing of SCADA programming. Incident resolved August 13. AWQI # 147240
Adverse Residual Chlorine	Aug 27: Residual free chlorine greater than 4.00 mg/L for approx. 4 minutes (distribution water leaving the Tilbury Rechlorination Station). Corrective Action(s): Self-Corrected. Installation of new check valve. Incident resolved August 27. AWQI # 147628
Adverse Total Coliforms	Sept 04: 4 Total Coliforms from a distribution sample taken on September 3, 2019 at sample station WH05 Talbot Rd. E & Cemetery Rd. Corrective Action(s): Flush and Resample. Sample results satisfactory. Incident resolved September 5. AWQI # 147810
Adverse Residual Chlorine	Sept 09: Residual free chlorine greater than 4.00 mg/L for approx. 1 minute (distribution water leaving the Tilbury Rechlorination Station). Corrective Action(s): Self-Corrected once the distribution valve was opened by the operator. Incident resolved September 9. AWQI # 147948
Adverse Residual Chlorine	Oct 07: Residual free chlorine greater than 4.00 mg/L for approx. 1 minute (distribution water leaving the Tilbury Rechlorination Station). Corrective Action(s): Self-Corrected once the distribution valve automatically re-opened. Incident resolved October 7. AWQI # 148474
Adverse Total Coliforms	Nov 09: 2 Total Coliforms from a distribution sample taken on November 08, 2019 on 5 th Concession. Corrective Action(s): Flush and Resample. Sample results satisfactory. Incident resolved November 11. AWQI # 148955

**Public Utilities Commission for the Municipality of Chatham-Kent
 Summary of Compliance Issues for Wastewater Systems
 2019**

The following issues of non compliance with the respective Environmental Certificates of Approval or Certificates of Approval occurred:

Blenheim Wastewater Treatment Plant:

	None
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Chatham Wastewater Treatment Plant:

Pump Station Bypass	May 02 A Pump Station Bypass of 4,234 m ³ , immediately downstream of Pump Station #10 Due to heavy rainfall over the previous two weeks. Corrective Action Taken: Sampling
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Clearville Wastewater Treatment Plant:

Total Ammonia Concentration	May Average Final Effluent Total Ammonia monthly average concentration was 6.92 mg/L Limit is 5 mg/L Corrective Action Taken: The plant experienced high influent sewage flows May 25 to 27 due to heavy rainfall. Issue self corrected.
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Dresden Wastewater Treatment Plant:

Total Phosphorus Exceedance	August Average Final Effluent Total Phosphorus monthly average 2.04 mg/L Limit is 1.0 mg/L Corrective Action Taken: Aeration tank drained to lined holding lagoon and reseeded.
Total Suspended Solids Exceedance	August Average Final Effluent Total Suspended Solids monthly average 32 mg/L Limit is 25 mg/L Corrective Action Taken: Aeration tank drained to lined holding lagoon and reseeded.

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Merlin Sewage Treatment Lagoon System:

	None
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Mitchell's Bay Sewage Treatment Lagoon System:

	None
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Ridgetown Wastewater Treatment Plant:

Overflow (from Force Main)	<p>Overflow April 29 An Overflow from the Thamesville Pump Station forcemain at a site on Victoria Road of approximately 250 m³ Due to failure of the body of the air relief mechanism. Corrective Action Taken: Sampling and repair.</p>
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Tilbury Wastewater Treatment Plant:

Total Phosphorus Exceedance	<p>January Average Final Effluent Total Phosphorus monthly average 0.97 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Total Phosphorus Exceedance	<p>February Average Final Effluent Total Phosphorus monthly average 0.76 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Total Phosphorus Exceedance	<p>March Average Final Effluent Total Phosphorus monthly average 0.85 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Total Phosphorus Exceedance April Average	<p>April Average Final Effluent Total Phosphorus monthly average 0.85 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>

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Total Phosphorus Exceedance	<p>May Average Final Effluent Total Phosphorus monthly average 1.13 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Ammonia-Nitrogen Exceedance	<p>May Average Final Effluent Ammonia-Nitrogen monthly average 13.63 mg/L Limit is 2.0 mg/L (May 1st to October 31st) Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Ammonia Loading Exceedance	<p>May Average Average Daily Effluent Loading Ammonia average 13.59 kg/day Loading Limit is 10.8 kg/day (May 1st to October 31st) Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Total Suspended Solids Exceedance	<p>May Average Final Effluent Total Suspended Solids monthly average 12.0 mg/L Limit is 10.0 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Total CBOD Exceedance	<p>May Average Final Effluent Total CBOD monthly average 10.5 mg/L Limit is 10.0 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw.</p>
Total Phosphorus Exceedance	<p>June Average Final Effluent Total Phosphorus monthly average 1.09 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. An experienced Operator has been engaged on a consulting basis to assist with process operations.</p>
Ammonia-Nitrogen Exceedance	<p>June Average Final Effluent Ammonia-Nitrogen monthly average 6.88 mg/L Limit is 2.0 mg/L (May 1st to October 31st) Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. An experienced Operator has been engaged on a consulting basis to assist with process operations.</p>
Ammonia Loading Exceedance	<p>June Average Average Daily Effluent Loading Ammonia average 11.6 kg/day Loading Limit is 10.8 kg/day (May 1st to October 31st) Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. An experienced Operator has been engaged on a consulting basis to</p>

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 Summary of Compliance Issues for Wastewater Systems
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	assist with process operations.
Total Phosphorus Exceedance	<p>July Average Final Effluent Total Phosphorus monthly average 1.06 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. An experienced Operator has been engaged on a consulting basis to assist with process operations.</p>
Total Phosphorus Exceedance	<p>August Average Final Effluent Total Phosphorus monthly average 1.85 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. An experienced Operator has been engaged on a consulting basis to assist with process operations.</p>
Total Phosphorus Loading Exceedance	<p>August Average Average Daily Effluent Loading Total Phosphorus average 3.2 kg/day Loading Limit is 2.7 kg/day Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. An experienced Operator has been engaged on a consulting basis to assist with process operations.</p>
Total Phosphorus Exceedance	<p>September Average Final Effluent Total Phosphorus monthly average 1.78 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Alternatives to treatment at Tilbury Wastewater have been proposed by the PUC.</p>
Total Phosphorus Loading Exceedance	<p>September Average Average Daily Effluent Loading Total Phosphorus average 2.9 kg/day Loading Limit is 2.7 kg/day Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Alternatives to treatment at Tilbury Wastewater have been proposed by the PUC.</p>

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Ammonia-Nitrogen Exceedance	<p>September Average Final Effluent Ammonia-Nitrogen monthly average 2.25 mg/L Limit is 2.0 mg/L (May 1st to October 31st) Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Alternatives to treatment at Tilbury Wastewater have been proposed by the PUC.</p>
Total Phosphorus Exceedance	<p>October Average Final Effluent Total Phosphorus monthly average 1.80 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Alternatives to treatment at Tilbury Wastewater have been proposed by the PUC.</p>
Total Phosphorus Loading Exceedance	<p>October Average Average Daily Effluent Loading Total Phosphorus average 3.1 kg/day Loading Limit is 2.7 kg/day Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Alternatives to treatment at Tilbury Wastewater have been proposed by the PUC.</p>
Total Phosphorus Exceedance	<p>November Average Final Effluent Total Phosphorus monthly average 1.75 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Although the proposed alternatives to treatment at Tilbury Wastewater have been rejected by the industry, the industry itself is investigating alterations to its process.</p>
Total Phosphorus Loading Exceedance	<p>November Average Average Daily Effluent Loading Total Phosphorus average 3.0 kg/day Loading Limit is 2.7 kg/day Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Although the proposed alternatives to treatment at Tilbury Wastewater have been rejected by the industry, the industry itself is investigating alterations to its process.</p>

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 Summary of Compliance Issues for Wastewater Systems
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Total Phosphorus Exceedance	<p>December Average Final Effluent Total Phosphorus monthly average 1.79 mg/L Limit is 0.50 mg/L Corrective Action Taken: Discussions continue with the offending industry regarding compliance with the Sewer Use Bylaw. Sampling of the industry has been increased to twice a week. Although the proposed alternatives to treatment at Tilbury Wastewater have been rejected by the industry, the industry itself is investigating alterations to its process.</p>
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.Wallaceburg Wastewater Treatment Plant:

Secondary Bypass	<p>April 20 Wallaceburg Wastewater Plant Secondary Bypass of 140 m³ Due to heavy rain rainfall Corrective Action Taken: Disinfection and Sampling</p>
Secondary Bypass	<p>April 26 Wallaceburg Wastewater Plant Secondary Bypass of 1,840 m³ Due to heavy rain rainfall Corrective Action Taken: Disinfection and Sampling</p>
Secondary Bypass	<p>May 01 Wallaceburg Wastewater Plant Secondary Bypass of 3,555.56 m³ Due to heavy rain rainfall Corrective Action Taken: Disinfection and Sampling</p>
Spill into the Collection System	<p>May 24 Libby St Pump Station and Wallaceburg WPCP Wet Well An oily spill of 1,200 imperial gallons and 2,200 imperial gallons respectively. Correcting Action Taken: The spill was removed by vactor trucks.</p>

Wheatley Wastewater Treatment Plant:

	None
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