

**Administration**

Office of the Regional Clerk

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March 28, 2023

**CL 5-2023, March 23, 2023**

**PWC 3-2023, March 7, 2023**

**WMPSC-C 5-2023, February 27, 2023**

**LOCAL AREA MUNICIPALITIES**

**SENT ELECTRONICALLY**

Illegal Dumping 2022 Year End Summary and Updates

WMPSC-C 5-2023

Regional Council, at its meeting held on March 23, 2023, passed the following recommendation of its Public Works Committee:

That Report WMPSC-C 5-2023, dated February 27, 2023, respecting Illegal Dumping 2022 Year End Summary and Updates, **BE RECEIVED** and the following recommendations **BE APPROVED**:

1. That the Illegal Dumping Working Group Terms of Reference **BE REVISED** and **REPLACED** with the amended Illegal Dumping Working Group Terms of Reference provided in Appendix 1 of Report WMPSC-C 5-2023; and
2. That a copy of this report **BE CIRCULATED** to the Local Area Municipalities for information.

A copy of WMPSC-C 5-2023 is enclosed for your reference.

Yours truly,



Ann-Marie Norio

Regional Clerk

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CLK-C 2023-033

cc : K. Ashbridge, Supervisor, Waste Management Services  
B. Zvaniga, Commissioner, Public Works  
N. Coffey, Executive Assistant to the Commissioner, Public Works

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**Subject:** Illegal Dumping 2022 Year End Summary and Updates

**Report to:** Waste Management Planning Steering Committee

**Report date:** Monday, February 27, 2023

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## **Recommendations**

1. That the Illegal Dumping Working Group Terms of Reference **BE REVISED** and **REPLACED** with the amended Illegal Dumping Working Group Terms of Reference provided in Appendix 1 of Report WMPSC-C 5-2023; and
2. That a copy of this report **BE CIRCULATED** to the Local Area Municipalities for information.

## **Key Facts**

- The purpose of the report is to provide an update regarding the issue of illegal dumping, information on updates to the Illegal Dumping Rewards Procedure and seek approval for the repeal and replacement of Illegal Dumping Working Group (IDWG) Terms of Reference.
- The IDWG Terms of Reference was last updated in 2016. The proposed updates are required to improve the effectiveness of the IDWG.
- The Illegal Dumping Rewards Procedure was implemented in 2014 to provide a financial reward to residents who report incidents of illegal dumping that lead to a conviction or a confirmed act of compliance. The proposed updated procedure will better align the rewards with the current illegal dumping set fines and fairly compensate those who assist with illegal dumping investigations.
- A total of 675 illegal dumping events were recorded in 2022. A high-level summary of these events is provided as part of this report, with further details in Appendix 3.

## **Financial Considerations**

There are no significant financial implications anticipated with the proposed update to the IDWG Terms of Reference or Rewards Procedure.

## **Analysis**

Staff are recommending updates to the IDWG Terms of Reference and Rewards Procedure as outlined in the sections below. Also included in this report is a summary of various illegal dumping related activities and statistics for information.

## **Updates to Illegal Dumping Working Group Terms of Reference**

The IDWG is a Niagara Region-lead committee, which was formed in 2012 to ensure a consistent and collaborative approach to dealing with the issue of illegal dumping. The committee members include representatives from each local area municipality and any additional representatives from local partners who share an interest in mitigating illegal dumping across the region, including Ontario Power Generation (OPG), Crimestoppers and Great Lakes St. Lawrence Seaway.

Key priorities include:

- Ensure a consistent enforcement approach across the region
- Coordinate clean-up efforts between Niagara Region and local area municipalities (LAMs)
- Educate the public on the issue of illegal dumping, through awareness campaigns

Member participation in the IDWG has reduced over the past two (2) years, primarily due to member engagement in pandemic-related activities. To increase the effectiveness of the IDWG going forward, staff are requesting the approval of the updated IDWG Terms of Reference that are included in Appendix 1. The IDWG Terms of Reference were last updated in 2016.

Key changes to the Terms of Reference include clarification of Regional jurisdiction to investigate and enforce events of illegal dumping on public property and municipal responsibility to address dumping on private property and assist with clean up on municipal lands/roads.

Changes are being recommended to the IDWG composition and memberships; such as term of membership, chair, co-chair and sponsor requirements and minimum membership requirements are now clearly defined in the updated Terms of Reference. Meeting participation is expected to improve with the new addition of a quorum requirement. The minimum quorum has been set at 50% of municipal members plus one. IDWG meetings will not be scheduled without minimum quorum requirements being met. After three consecutive meetings missed an alternative member will be requested from the municipalities or organizations. The purposes of these changes to membership is to ensure the IDWG is receiving proper attendance and meetings are of value to the attending members and the IDWG can continue to advance it's mandate.

Member responsibilities is a new section added to the Terms of Reference.

Responsibilities include:

- Attend meetings or arrange for the alternate to attend
- Participate and support activities of the working group
- Bring forth new ideas to address illegal dumping
- Review meeting minutes and advise of concerns before finalizing minutes

In February 2022, the revised Terms of Reference were shared with the Public Works Officials and no comments were received regarding the proposed changes. The revised Terms of Reference were shared with the IDWG and reviewed in detail during the December 2022 hybrid meeting. During the meeting, changes related to the recommended member composition were discussed and were subsequently incorporated into the Terms of Reference as a result of the feedback from IDWG members.

### **Updates to Rewards Procedure**

Rewards are currently available to residents whose report of illegal dumping results in a conviction or a confirmed act of compliance. The current rewards for a successful conviction is \$200 and \$50 for an act of compliance. Since the rewards procedure was implemented, the illegal dumping section of the By-law has evolved to include three (3) sections related to illegal dumping.

- 37.1 General Prohibition, set fine \$500.
- 37.2 Prohibition re: Public Space Litter/Recycling Bin, set fine \$150
- 37.3 Prohibition re: Care and Control, set fine \$250

Resident involvement in an illegal dumping investigation can vary from reporting the presence of dumped material to acting as an eyewitness, which would include completing a will-say statement and potentially appearing in court if the charge is taken to trial. The awards procedure is being updated to ensure residents that have the most involvement in a report are compensated at the higher level and residents who report the presence of dumped material are fairly compensated. The updated rewards process, will provide a \$200 reward for individuals reporting an illegal dump, which they witnessed that leads to a conviction under section 37.1 and a \$50 reward for the reporting of dumping that leads to a conviction under By-law section 37.2 (dumping in a litter bin), 37.3 dumping care and control, or compliance. The update rewards procedure

was presented to the Public Works Officials group and to the IDWG, no concerns were raised by either group.

In 2022, three (3) rewards for illegal dumping were provided to residents. Additional rewards resulting from charges laid in 2022 are likely to occur in 2023 as the associated charges are processed by the court system.

## **Summary of 2022 Illegal Dumping Activities and Statistics**

### **2022 Illegal Dumping Statistics**

Since the establishment of the IDWG in 2012, staff has tracked the number of reports of illegal dumping across the region.

Residents may report incidents of illegal dumping through the following tools:

- Niagara Waste App
- Niagara Online reporting tool
- Niagara Waste Info Line
- Crime Stoppers of Niagara

In 2022, 675 illegal dumps were reported, a 10% percent decrease in illegal dumping reports compared to 2021 when 748 dumps were reported. In 2020, 678 illegal dumps were reported. Although 2022 experienced a decrease in the number of reported illegal dumps compared to 2021, the number of reports is influenced annually by staffing resources for proactive monitoring work and promotional campaigns. A further breakdown of the illegal dumps by area municipality can be found in Appendix 3.

### **Illegal Dumping In Public Space Litter Bins**

In 2022, Waste Management staff continued to proactively monitor public space litter bins and respond to reports of illegal dumping in, and around bins. In 2022, 24% of illegal dumps were found to be in or around a public space litter bins. This was similar to 2021 when 19% of all illegal dumps were found in, and around, public space litter bins. In response to this issue, staff recommended an update to the Waste Management By-law to strengthen the section pertaining to the prohibition of dumping of household and privately generated waste in and around public space litter bins. When public space litter bins are used for dumping, access for collection of litter bins for litter disposal can be reduced, which often leads to overflowing bins. Additionally, the presence of

unacceptable material – i.e. black bags of household garbage can attract additional dumping. Residents may see dumped material and believe this behaviour is acceptable. In the spring of 2022, staff installed warning stickers on public litter bins, primarily in St. Catharines, where the majority of litter bin dumping occurs. See Appendix 4 for signage image. The stickers warned potential dumpers that the bins are not for household waste and dumping would result in a \$175 fine (\$150 set fine, plus fees). Following the approval of set fines of the Waste Management By-Law 2022-32, in August 2022, staff began issuing Part I offence notices (ticket) to those who fail to adhere to the By-law and illegal dump in public litter bins. Over a four (4) month period, August to December 2022, staff charged 12 residents under section 37.2 of the By-law.

### **Litter Bin Blitz**

In previous years staff have conducted an annual Litter Bin Inspection Blitz to audit public space litter bins for the presence of illegal dumping. Following the Blitz, warning letter were mailed to residents whose household garbage was found during the inspection. In 2021, approximately 10% of audited bins were found to contain illegal dumping. In March 2022 staff randomly audited 333 litter bins and found 9% of bins contained illegal dumping. In October and November 2022 staff inspected 384 litter bins located in hot spots for illegal dumping and found dumping in 16% of inspected bins. As a result of the fall litter bin inspections two (2) individuals were ticketed. Anti-illegal dumping signage was intended to reduce illegal dumping; however, the fall inspection of bins showed that signage was not reducing the incidents of illegal dumping at specific bins. In 2023 staff will continue to use this tool to inform residents that placing privately generated material, or household waste into a litter bin is a fineable offence. Additionally, the presence of signage on the litter bins could prove beneficial if a defendant, to an illegal dumping charge, opted to dispute the charge via an early resolution meeting or a trial.

### **2022 By-law Updates and Impacts on Part I Offence Notices (Tickets)**

In the summer of 2022 By-law No. 2017-56 was repealed and replaced with By-Law No. 2022-32: A By-Law To Regulate The Use Of The Waste Management System For The Regional Municipality Of Niagara. With this By-law update, staff expanded Section 37.2: Illegal Dumping, Prohibition re: Public Space Litter/Recycling Bin to include a Care and Control provision. With the update to section 37.2, staff can now identify material deemed to have been in the Care and Control of a person (i.e. mail) which is contained within illegally dumped material, and issue a ticket based on the presence of this evidence. Prior to the inclusion of this provision, staff could not charge based

exclusively on evidence found within illegal dumping at litter bins and warning letters were used to advise residents of the By-law infraction. Prior to this By-law update, staff required an eyewitness to attest to the offence. The presences of an eyewitness occurs in very limited number of illegal dumping incidents.

As part of the 2022 By-law updates, staff were required to resubmit short form wording and set fines for approval to the Chief Justice of the Ontario Court. Staff did not request changes to set fines that had been approved in By-law 2017-56, including the fine associated with illegal dumping in the amount of \$750. However, in August 2022 the Chief Justice reduced the fine amount for Illegal Dumping to \$500. Various other set fines also were reduced by the Chief Justice during the approval process. Set fines are requested by Niagara Region but ultimately determined by the Chief Justice. The amount of the approved set fine is related to a number of factors including – similar set fines established in provincial legislation, the frequency of charges laid, and the likelihood and probability of payment. In light of the reduced set fine amount, the enforcement staff will use Part III Summons for incidents where higher set fines are required. These incidents may include, large-scale illegal dumping, repeat offenders, or dumping that has an elevated level of risk to human or environmental health. The use of the Part III Summons will allow staff to pursue fines that are greater than the set fine amount of \$500.

### **2022 Enforcement Activity**

Waste management staff will investigate any incident of illegal dumping on public property. If evidence is found, staff will attempt to issue a Part I offence notice for the contravention of the By-Law. By-law enforcement officers may also request compliance, which requires a generator to remove dumped material. If the officer is unable to make contact with the generator i.e. the individual has moved, staff are unable to issue charges and the dumper information is kept on file. In cases where evidence is limited or insufficient, staff will issue a warning letter. In 2022, 104 dumps (15% of dumped material) was found to contain evidence, which resulted in 27 Part I offence notices. This represented an increase from 2021 and 2020 when 12 and seven (7) Part I offence notices were issued, respectively.

### **Promotion and Education**

In spring 2022, the Illegal Dumping Communication campaign was used to address the issue of illegal dumping in the Niagara region. Campaign objectives included:

- Discourage acts illegal dumping in Niagara region
- Encourage residents to report illegal dumping when observed
- Raise awareness on the correct disposal options for commonly dumped materials

Additional details regarding the 2022 Illegal Dumping Communications campaign are included in WMPSC C-6-2023.

### **Next Steps**

Illegal dumping is a concern for Niagara Region and LAMs. The act of illegal dumping creates eyesores, has environmental implications, and costs communities. In 2023, staff will continue to investigate reports of illegal dumping in order to identify generators and issue fines where appropriate. Staff, primarily interns, will proactively monitor public space litterbins and conduct the annual Litter Blitz. Staff will also continue to utilize an app based Geographical Information System (GIS) tool, which allows for real time data collection and accurate hot spots tracking. In 2023, staff are investigating expanding the use of the tracking tool to allow municipal partners to collect illegal dumping data in the field using the same tool as Regional staff.

Illegal Dumping Communications are planned for 2023. Communications will reinforce alternative disposal options for frequently dumped materials and encourage reporting through the various reporting tools.

### **Alternatives Reviewed**

The option to maintain the existing Terms of Reference for the IDWG is not recommended as the changes to Terms of Reference are important to support the core function of the IDWG and improve the group's effectiveness. The IDWG may continue to function with the current Terms of Reference; however, the updated Terms of Reference will allow the members to ensure the IDWG's meetings are valuable and productive, by ensuring all municipal partners are involved.

The Rewards Procedure could remain in its original form; however, as the By-law has been updated to include varying charges for illegal dumping, there is the potential to issue rewards that are greater in value than the set fine amount. Additionally, the current rewards structure does not fairly compensate those who act as a witness and provide additional support to the investigation.



## **Relationship to Council Strategic Priorities**

The recommended changes to the IDWG Terms of Reference and the Illegal Dumping rewards procedure meet Council's Strategic priority of Responsible Growth and Infrastructure Planning by protecting Niagara's environmental features through the reduction of illegal dumping. This report is being brought to Committee to enhance the tools currently used for the mitigation of illegal dumping in the region.

## **Other Pertinent Reports**

- PW: 61-204 Approval of Illegal Dumping Working Group Initiatives
- PW 48-2013: Update on Illegal Dumping Initiatives

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### **Prepared by:**

Kate Ashbridge  
Supervisor  
Waste Management Services

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### **Recommended by:**

Bruce Zvaniga, P.Eng.  
Commissioner of Public Works  
Public Works Department

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### **Submitted by:**

Ron Tripp, P.Eng.  
Chief Administrative Officer

## **Appendices**

Appendix 1 - Illegal Dumping Working Group Terms of Reference

Appendix 2 - Region Wide Reward System Procedure

Appendix 3 - Illegal Dumping Investigations by Municipality Total Summary

Appendix 4 – Anti Illegal Dumping Litter Receptacle Sticker

## **Illegal Dumping Working Group Terms of Reference**

### **1.0 Purpose of the Working Group**

- 1.1. Ensure Local Area Municipalities and Niagara Region utilize a consistent and collaborative approach when dealing with illegal dumping.
  - 1.1.1. Coordinate clean-up efforts between Niagara Region and Local Area Municipalities collaboratively.
  - 1.1.2. Niagara Region jurisdiction to investigate and enforce events of illegal dumping on public property or roadside or in public space litter bins within Niagara Region.
  - 1.1.3. Municipal jurisdiction to address events of illegal dumping on private property and assist the Region with cleaning up events of illegal dumping on municipal roads and municipal properties.
  - 1.1.4. Ensure consistent enforcement approach through the use of the Niagara Region Waste Management By-Law, as well as other Local Area Municipal anti-dumping By-Laws.
- 1.2. Educate the public on illegal dumping through awareness campaigns.
- 1.3. Maintain reporting tool and tracking dashboard to analyze illegal dumping statistics and activity.
- 1.4. Map and monitor Hot Spots.
- 1.5. Develop and apply techniques to discourage illegal dumping.
- 1.6. Create future initiatives to mitigate illegal dumping.

### **2.0 Working Group Composition and Memberships**

- 2.1 The Working Group seeks representation from Niagara Region, all Local Area Municipalities, Crime Stoppers and any additional representative(s) from local partnerships who share an interest in mitigating illegal dumping across the region.
- 2.2 Working Group Chair and Co-Chair term is a minimum of one (1) year.
- 2.3 There shall be one Chair, one Co-Chair on the Working Group. The Co-Chair may step in to serve as the Chair at the meetings of the Working Group.
- 2.4 There shall be one Sponsor on the Working Group at the Director level from Niagara Region. Working Group Sponsor to provide overall guidance and oversight to the Working Group, and liaise with Public Works Officials on behalf of the Working Group as required.

- 2.5 There shall be a minimum membership of one (1) individual representing each of the twelve (12) Local Area Municipalities and one (1) individual representing Crime Stoppers. The recommended municipal membership is two (2) members to represent both public works and by-law department for Local Area Municipality, where possible.
- 2.6 The quorum of the Working Group is 50 percent of Local Area Municipal membership, plus one. Therefore, at least seven (7) Local Area Municipal representatives are required for quorum. Working Group members shall respond to the meeting invitation with within two business days of the meeting date (i.e. respond by end of day Monday for a Wednesday meeting). If for whatever reason a quorum is not met, the meeting will be rescheduled to the earliest reasonable date.
- 2.7 Each participating member may register an alternate Working Group member for the purpose of attending meetings and for conducting business of the Working Group in the event that a regular member of the Working Group is unavailable. An alternate Working Group member may attend any meeting of the Working Group, however, will be considered to be a non-participating observer and will not be counted in establishing a quorum unless the regular Working Group member is absent.
- 2.8 If a Working Group member or their alternate misses three consecutive meetings, the Working Group may choose to seek a replacement for that member within the same organization.
- 2.9 Members must agree to work within the Working Group's Terms of Reference.

### **3.0 Meetings**

- 3.1 Meeting Frequency
  - 3.1.1 The members shall meet a minimum semi-annually.
- 3.2 Minutes
  - 3.2.1 Minutes of the Working Group shall be recorded by the Co-Chair.
  - 3.2.2 Minutes will be submitted to the Niagara Region Director of Waste Management within two (2) weeks of the meeting, for approval.
  - 3.2.3 Minutes will then be circulated to Working Group Members via email and SharePoint.

## **4.0 Responsibilities**

### **4.1 Working Group Members**

- 4.1.1 Attend all Working Group meetings. If members are unable to attend a meeting, and they have a designated alternate, the member shall arrange with their designated alternate to attend in their absence.
- 4.1.2 Participate in and support the execution of activities and projects of the Working Group.
- 4.1.3 Have an interest in reducing illegal dumping and spreading awareness to properly dispose or divert waste throughout available waste management programs.
- 4.1.4 Review meeting minutes and advise of concerns before finalizing minutes as a group at the following meeting.

### **4.2 Co-Chairs**

- 4.2.1 Record Meeting Minutes
- 4.2.2 Act as Chair when Chair is unable to attend.
- 4.2.3 Distribute meeting agenda at least two (2) weeks in advance of meeting.

### **4.3 Chair**

- 4.3.1 Schedule semi-annual meetings and prepare materials to present and discuss.
- 4.3.2 Take a leadership role in guiding the discussions.
- 4.3.3 Review and provisionally approve minutes from previous meeting.
- 4.3.4 Distribute approved meeting minutes and presentation materials via SharePoint.

### **4.4 Working Group Sponsor**

- 4.4.1 Review and officially approve minutes from previous meeting.
- 4.4.2 Provide guidance and support to Working Group as required.

## **5.0 Reporting**

- 5.1 Niagara Region and Local Area Municipal members will provide the Working Group with semi-annual illegal dumping statistics due before June 30<sup>th</sup> and December 31<sup>st</sup> of each year.
- 5.2 Members of this Working Group shall provide updates to the Working Group Members during semi-annual meetings.
- 5.3 The Chair shall report to Niagara Region's Council by means of an annual

summary report to the Waste Management Planning Steering Committee which then is approved by the Public Works Committee. The annual summary report will also be presented to Public Works Officials.

## **6.0 Budget**

- 6.1 The Working Group shall discuss budgets (Region and Municipal) to be allocated to illegal dumping concerns (rewards, clean ups, remedial action etc.)

## **7.0 Communications**

- 7.1 Niagara Region communications staff to share illegal dumping promotion and education with Local Area Municipalities to create awareness and help prevent acts of illegal dumping.
- 7.2 An illegal dumping communication summary of the previous year will be provided to Working Group Members at the first semiannual meeting.
- 7.3 New artwork will be approved by a representative at Crime Stoppers of Niagara for use in the illegal dumping campaign.
- 7.4 Municipalities can purchase Illegal dumping signage from Niagara Region to be installed in Hot Spot areas on municipal property.
- 7.5 Niagara Region to install illegal dumping signage in approved Hot Spot areas on Regional roads.
- 7.6 If evidence is discovered, but the evidence is not sufficient to issue a certificate of offence, Niagara Region staff shall issue a warning letter to the suspect and the Region shall retain evidence for one year.

## **8.0 Definitions**

**Hot Spots:** Process used to visualize geographical data in order to show areas with a high density or cluster of events.

## **Illegal Dumping Reward System Procedure**

### **1. Reward Amount**

- a. \$200 reward for a person reporting eyewitness information about illegal dumping in Niagara region that leads to a By-law conviction under section 37.1 of the Region's Waste By-law as amended. Residents must be willing to complete a will-say statement and understand that they may be required to act as a witness in the event that a trial date is set.

Or

\$50 reward for a person reporting information about illegal dumping that leads to a By-law conviction under section 37.2 or 37.3 of the Region's Waste By-law as amended, or compliance is achieved.

- b. Conviction is when either:
  - i. The fine paid by the offender.
  - ii. The offender challenges the Notice and is found guilty in court.
- c. Compliance occurs when the generator removes the dumped material.

### **2. Eligibility**

- a. Illegal dumping reports can be received by the Niagara Region or Local Area Municipality.
- b. The person reporting an illegal dump must provide sufficient information about the illegal dump and may be required to provide evidence to the court as an eye witness.
- c. Illegal dumping reward applies to occurrences on public land or public rights of way in accordance with the related By-laws.
- d. Niagara Region or Local Area Municipality can initiate and issue the Offence Notice.
- e. Reward is only available for an illegal dumping location within a participating Local Area Municipality or on Regional roads/property.
- f. Rewards are only to be paid with successful conviction or compliance. The process may take several months.
- g. In the case of multiple reports for the same illegal dumping incident, only one reward would be available. The person who reports the incident first will be eligible for the reward.

### 3. Process for Reward

- a. An illegal dumping report is received by Niagara Region through online tools, e-mail or a phone call. The report may also be received by the Local Area Municipality.
- b. Investigation leads to issue of Offence Notice or cleanup of dumped material by the generator.
- c. Offence Notice is issued or generator cleanup is confirmed by staff. Occurrence is recorded in Illegal Dumping tracking database by appropriate staff at the Region or Local Area Municipality. Once generator cleanup is confirmed proceed to step (g).
- d. The By-law Officer issuing the Offence Notice will follow up with POA Office as to the outcome of the Notice to confirm if it was paid, charges dropped or proceeding to court.
- e. The By-law Officer or designate from the authority issuing the Offence Notice will record the outcome in the Illegal Dumping tracking database.
- f. The Area Municipality will inform the Region of any successful convictions issued at their level.
- g. Upon confirmation of successful conviction/compliance, Niagara Region will contact the reward recipients to inform them their illegal dumping report lead to a successful conviction/compliance.
- h. Only reward recipients will be contacted.
- i. The Region By-Law Officer will complete the Region's cheque requisition form to request the reward be paid to the reward winner. A joint letter from the Region and participating Local Area Municipality will accompany the reward payment, co-signed by the Regional Chair, and the Mayor of the Municipality
- j. Niagara Region will charge back the Local Area Municipality for their share of the reward at 50%.

### Appendix 3 – Illegal Dumping Statistics

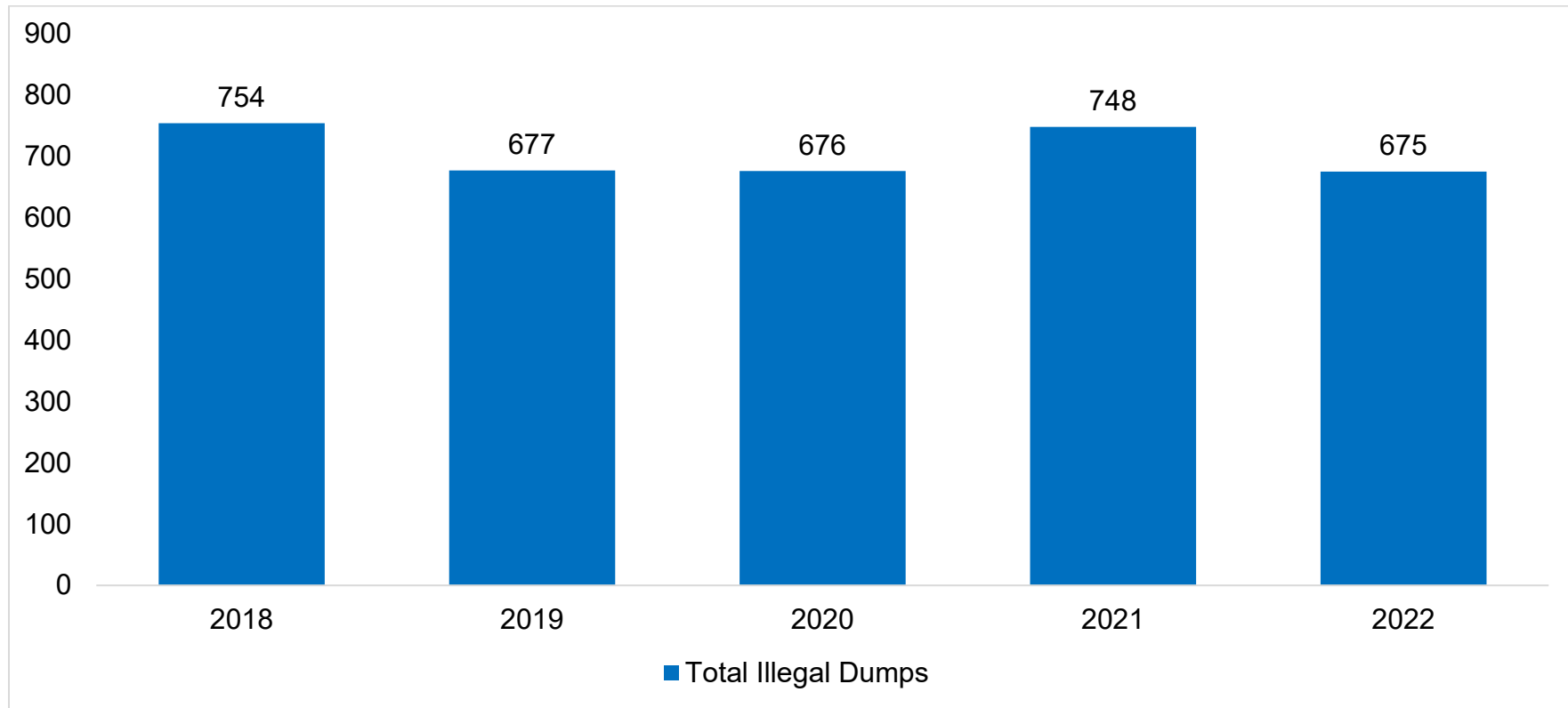
Figure 1: 2022 Illegal Dumping Reports by month and municipality

| 2022 Illegal Dumping Reports |           |           |           |           |           |           |           |           |           |           |            |           | Total      |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| Municipality                 | Jan       | Feb       | Mar       | Apr       | May       | Jun       | Jul       | Aug       | Sept      | Oct       | Nov        | Dec       |            |
| Fort Erie                    | 3         | 1         | 1         | 6         | 1         | 4         | 1         | 5         | 5         | 1         | 2          | 4         | 34         |
| Grimsby                      | 2         | 1         | 1         | 1         | 0         | 0         | 1         | 1         | 2         | 1         | 1          | 1         | 12         |
| Lincoln                      | 0         | 1         | 2         | 2         | 0         | 1         | 3         | 0         | 2         | 2         | 3          | 2         | 18         |
| Niagara-on-the-lake          | 2         | 0         | 1         | 3         | 9         | 2         | 3         | 4         | 8         | 1         | 4          | 5         | 42         |
| Niagara Falls                | 8         | 6         | 11        | 17        | 16        | 20        | 14        | 11        | 10        | 10        | 19         | 14        | 156        |
| Pelham                       | 2         | 2         | 1         | 4         | 0         | 2         | 1         | 2         | 3         | 3         | 2          | 2         | 24         |
| Port Colborne                | 1         | 1         | 1         | 2         | 1         | 3         | 1         | 0         | 1         | 3         | 2          | 2         | 18         |
| St. Catharines *             | 4         | 6         | 37        | 16        | 14        | 10        | 13        | 13        | 10        | 13        | 77         | 11        | 224        |
| Thorold                      | 2         | 5         | 1         | 5         | 5         | 5         | 5         | 5         | 6         | 4         | 4          | 11        | 58         |
| Wainfleet                    | 0         | 1         | 0         | 0         | 0         | 0         | 1         | 0         | 2         | 1         | 0          | 1         | 6          |
| Welland                      | 3         | 1         | 3         | 3         | 3         | 4         | 5         | 4         | 8         | 5         | 10         | 5         | 54         |
| West Lincoln                 | 4         | 1         | 5         | 1         | 1         | 4         | 7         | 1         | 2         | 1         | 2          | 0         | 29         |
| <b>TOTAL</b>                 | <b>31</b> | <b>26</b> | <b>64</b> | <b>60</b> | <b>50</b> | <b>55</b> | <b>55</b> | <b>46</b> | <b>59</b> | <b>45</b> | <b>126</b> | <b>58</b> | <b>675</b> |

\* St. Catharines illegal dumping records show a high percentage of illegal dumping compared to other Local Area Municipalities primarily due to the number of illegal dumps that occur in and around public litter bins.



Figure 2: Graph depicting the number of illegal dumps per year for the last five (5) years in all municipalities.



Over the past five (5) years the number of reported illegal dumps has ranged from a high of 754 illegal dumps in 2018 to a low of 675 in 2022. The average over the five (5) years was 706 dumps per year. The total number of dumps has been relatively stable, with only a 12% change from min and max values. The 2022 data shows an 11% decrease in dumping over the previous year. While illegal dumping data is highly valuable for staff to identify trends, hot spots and focus proactive monitoring, it is impacted by staffing resources. When proactive monitoring occurs, specifically for litter bins there is increased the number of illegal dumping events in the recorded data. The effects of monitoring can be seen in the November 2022 column of Table 1, the total dumps recorded in November was 180% higher than October. This change in recorded dumping is a result of the fall litter bin blitz, where Intern staff were proactively inspecting bins for illegal dumping.

## Appendix 4 Illegal Dumping Litter Bin Stickers



# NO HOUSEHOLD GARBAGE

Illegal dumping is a crime. Minimum fine is \$175

SEE IT. **REPORT IT.** STOP IT.