



Comhairle Cathrach
& Contae **Luimnigh**

Limerick City
& County Council

Draft

Litter Management Plan 2019-2022



www.limerick.ie



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SECTION 1 – INTRODUCTION

1.1 INTRODUCTION

Limerick City and County Council's draft Litter Management Plan 2019-2022 affirms the Council's commitment to litter prevention in Limerick City and County. This Litter Management Plan builds on the outcomes of previous plans and the other initiatives implemented over the past number of years.



Litter continues to be a challenge locally and nationally and the emphasis will continue to be on reducing and managing litter effectively. The Council acknowledges that the primary enforcement responses must come from the Council. However, the co-operation of all members of the community is required to raise awareness of the harmful effects of litter. The Council recognises that the participation and support of all sectors of society is required if littering is to be successfully eradicated. Individuals and businesses all need to take responsibility for the litter which we generate, and how we dispose of it.

This plan outlines the objectives and actions in relation to awareness and prevention, control and enforcement of littering for the period 2019 to 2022.

The plan will be reviewed annually in accordance with Section 10(3) of the Litter Pollution Act 1997 as amended, and a report will be presented to the Council for consideration.

The Litter Management Plan will be available at all Council offices and on the Council's website www.limerick.ie. In addition, a summary of this report will be compiled and distributed to schools, community groups, business groups and residents associations.

1.2 CONTEXT

Limerick is situated in the Mid-West of Ireland, and is a modern thriving city and county covering 2,755 square kilometres, which boasts a rich tradition, culture and heritage. The population of Limerick is 194,899 (based on results of 2016 census), a 2% increase on the 2011 Census figure.



Limerick City and County Council was created in 2014 by the amalgamation of Limerick City Council and Limerick County Council. The Council is comprised of 40 elected members representing six electoral districts: Adare-Rathkeale, Cappamore-Kilmallock, Limerick City East, Limerick City North, Limerick City West and Newcastle West.



SECTION 2 – STATUTORY OBLIGATIONS

2.1 STATUTORY OBLIGATION

Section 10 of the Litter Pollution Act 1997, as amended, obliges Limerick City and County Council to produce a Litter Management Plan. The adoption of a Litter Management Plan is a reserved function of the elected members of the Council.



Each local authority is responsible for implementing the litter laws in its own functional area. It is also responsible for the prevention and control of litter, and has the power to take enforcement action against those who ignore or break these laws.

The local authority is responsible for keeping public places under its control clear of litter, as far as is practicably possible, which includes the arrangement of cleansing programmes, and the provision and servicing of litter bins in towns and villages.



2.2 CONSULTATION

As part of the consultative process required under the Litter Pollution Act 1997, as amended, the following consultation process was undertaken in the preparation of this Litter Management Plan:

- Review of previous Litter Management Plans and Initiatives;
- Present draft Litter Management Plan to the Environment Strategic Policy Committee;
- Formal Public Consultation process;
- [Add additional steps in process following Public Consultation]

- [Add additional steps in process following Public Consultation]



SECTION 3 - LITTER

3.1 LITTER

In order to produce an effective Litter Management Plan, it is important that the definition of litter and what constitutes a littering offence be portrayed effectively to the public.

The definition of litter contained in the Litter Pollution Act 1997, as amended, is:

“a substance or object, whether or not intended as that, when deposited in a place other than a litter receptacle or other place lawfully designated for the deposit, is or is likely to become unsightly, deleterious, nauseous or unsanitary, whether by itself or with any other such substance or object, and regardless of its size or volume or the extent of the deposit.”

The definition is broad and includes casual littering from papers, cigarette butts or chewing gum; dog fouling; advertising; fly tipping; graffiti and domestic waste emanating from poorly managed/maintained domestic waste bins.



3.2 NATIONAL LITTER POLLUTION MONITORING SYSTEM (NLPMS)

NLPMS is a system for monitoring the extent, severity and causes of litter pollution. Tobin Consulting Engineers, on behalf of the Department of Communications, Climate Action and Environment administer the system. Local Authorities feed data into the system following regular surveys.

The data produced by NLPMS surveys allows local authorities to gauge the extent and severity of litter pollution in each local authority area; the types, most likely sources and causes of

litter pollution; the changes in litter levels from location to location and over time; the location of litter blackspots; and, the impact of new anti-litter measures.



Under NLPMS the extent and severity of litter pollution is measured using a litter pollution index (LPI), which is a scale of 1 to 5 as described below:

LPI Scale Rating	Description
1	Unpolluted or litter free
2	Slightly polluted
3	Moderately polluted
4	Significantly polluted
5	Grossly polluted

Table 3.1 – Litter Pollution Index Ratings Description

Analysis of the survey results for 2016 and 2017 for the composition of litter show the following:

Litter Type	2016 %	2017 %
Cigarette Related Litter	55.3	53.7
Packaging Items	7.7	26.7
Food Related Litter	28.3	4.6
Sweet Related Litter	6.3	5.6
Paper Items	1.6	3.4
Deleterious Litter	0.1	0.1
Large Litter Items	0.2	0.9
Miscellaneous	0.2	3.9
Plastic Items (Non-Packaging)	0.3	1.0
Total	100	100

Table 3.2 – NLPMS Composition of Litter in Limerick 2016 and 2017

**Note: At time of compilation, the survey results for 2018 were not available. This table will be updated to reflect the 2018 results should they become available during the development process of this Litter Management Plan.*

The System results show that, despite a decrease in the percentage, cigarette related litter is still by far the largest contributor by type to litter in Limerick City and County. Packaging items, whose proportion increased substantially between 2016 and 2017, is the second most common type in 2017, with food related litter and sweet related litter making up the top four types. It should be noted that the proportion of food related litter decreased substantially in 2017.

When compared with other city council areas, Limerick’s levels for cigarette related litter, food related litter and sweet related litter are lower, but the level of packaging item litter is higher. For more information on NLPMS results see Appendix 2 below.

Litter Pollution Index 2016 and 2017

LPI Rating	Scale	Description	2016 %	2017 %
1		Unpolluted or litter free	0.8	0.0
2		Slightly polluted	57.4	69.3
3		Moderately polluted	36.1	25.4
4		Significantly polluted	4.8	3.4
5		Grossly polluted	0.8	2.0

Table 3.3 – NLPMS Litter Pollution Index Results for Limerick 2016 and 2017

A comparison of the results for 2016 and 2017 shows an increase in the proportion of areas which are slightly polluted, and a consequent reduction in the areas deemed to be moderately and significantly polluted. However, no survey area achieved unpolluted status in 2017, and the proportion of grossly polluted survey areas, albeit small, increased in 2017.

When compared with other cities Limerick performs less favourably under LPI 1 and LPI 2, but more favourably under LPI 3, LPI 4 and LPI 5.



Causes of Litter Pollution 2016 and 2017

Causal Factor (Top Ten Causes)	2016 %	2017 %
Passing Pedestrians	28.2	27.7
Passing Motorists	16.5	16.1
Retail Outlet	14.7	17.6
Gathering Point	11.7	12.0
Fast Food Outlet	12.4	10.9
Schools/School Children	3.9	1.6
Bus Stop	1.8	0.4
Places of Leisure/Entertainment	6.5	9.3
Bank ATM	2.0	1.4
Fly Tipping/Dumping	0.3	1.1

Table 3.4 – NLPMS Causal Factors for Litter – Limerick 2016 and 2017

Passing pedestrians and passing motorists continued to be the main causes of littering in Limerick in 2017, with a combined 44% of litter being generated by these cohorts. Retail outlets, fast food outlets and gathering points generate a combined 41% of litter pollution.



When compared with other Irish cities Limerick performs substantially better for litter caused by passing pedestrians (10% less), and slightly better for litter caused by passing motorists

(0.5% less). However, the proportions of litter in Limerick caused by retail outlets (5% more), fast food outlets (4% more), gathering points (2.7% more) and places of leisure/entertainment (2.4% more) when compared with other cities are higher.

The Council will continue to analyse the results of the NLPMS to inform actions in respect of policy and operational direction in relation to litter pollution and anti-litter initiatives over the course of this Litter Management Plan. These actions are set out in Section 5 below.



SECTION 4 – REVIEW OF PREVIOUS LITTER MANAGEMENT PLANS

4.1 INTRODUCTION

During the lifetime of the previous Litter Management Plan the Council expended significant resources and effort on its awareness, street cleaning and litter prevention and control activities. Expenditure on these activities by the Council in 2018 is set out hereunder:

Expenditure on Litter Prevention and Control 2018	€
Street/Road Cleaning	3,485,971
Litter Warden Services	515,947
Public Awareness & Promotional Activities	73,857
Total Expenditure	4,075,775

Table 4.1 – Council Expenditure on Litter Related Activities 2018



4.1.1 Irish Business Against Litter (IBAL)

IBAL is an alliance of businesses who believe that litter has a significant impact on our economic wellbeing. An Taisce, on behalf of IBAL, assess litter levels in Ireland’s cities and larger towns against European Litter norms.



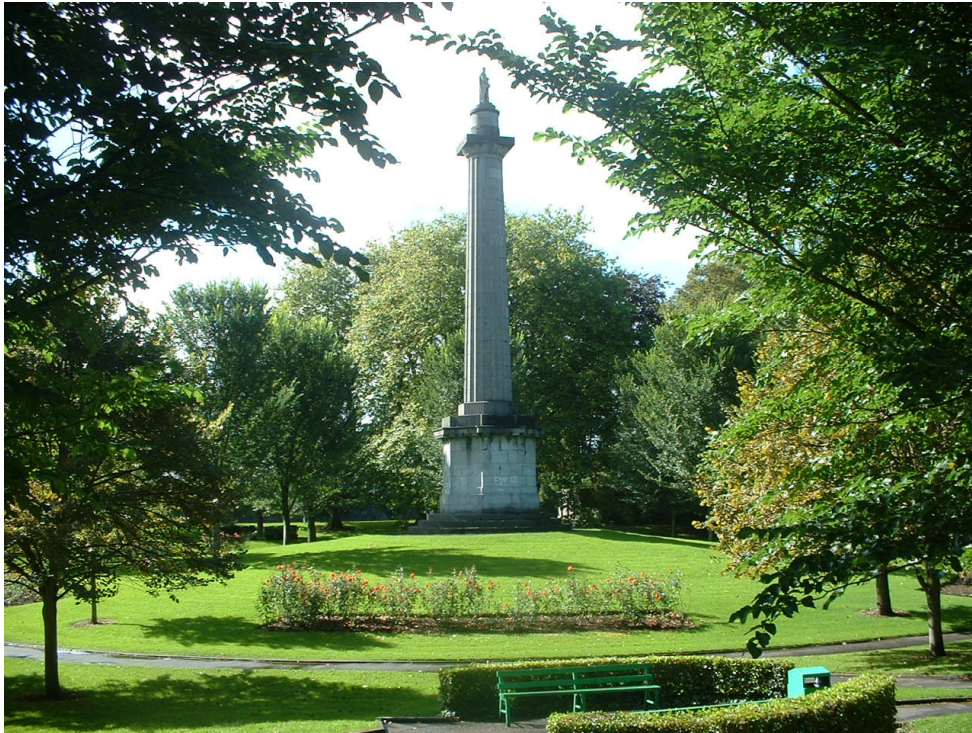
Table 4.2 below sets out the IBAL results for Limerick over the period of the last Litter Plan.

	Year	2015	2016	2017	2018
Area					
Limerick City Centre		Clean to European Norms	Moderately Littered	Clean to European Norms	Clean to European Norms
Limerick City South (Galvone)		-	Seriously Littered	Seriously Littered	Moderately Littered
Thomondgate/Garryowen		Clean to European Norms	-	Clean to European Norms	-

Table 4.2 – IBAL Results 2015-2018

The results show that Limerick City Centre and Thomondgate/Garryowen have maintained their status over the 4 year period. The Council has invested in improving Limerick City South/Galvone in recent years and the results of this are reflected in the change of status from Seriously Littered to Moderately Littered.

The IBAL surveys have identified a small number of locations where there was scope for improvement. The Council has directed resources and effort, including the use of CCTV, towards addressing the problems of illegal dumping and littering in these areas.



4.1.2 National Litter Pollution Monitoring System

NLPMS is a system for monitoring the extent and severity of litter pollution. Local Authorities feed data into the system following regular surveys. The data produced by NLPMS surveys allow local authorities to gauge the extent and severity of litter pollution in each local authority area; the types, most likely sources and causes of litter pollution; the changes in litter levels from location to location and over time; the location of litter blackspots; and, the impact of new anti-litter measures. For a more detailed analysis of NLPMS data for Limerick please see Section 3 above.



4.2 EDUCATION AND AWARENESS



4.2.1 Team Limerick Clean-up

Team Limerick Clean-Up (TLC) is sponsored by the JP McManus Benevolent Fund and is spearheaded by Paul O'Connell and Limerick City and County Council, with the support of Mr Binman, the Limerick Leader and Live 95FM.

18,500 volunteers took part in TLC4 in 2018, which represented 571 community groups from all over Limerick City and County.



In total, 98 tonnes of litter was collected, which would equate to approximately 3,900 household wheelie bins of rubbish.



There were many areas all over Limerick participating for the first time in 2018, and Limerick is the cleanest it has been to date!

4.2.2 Limerick Going for Gold

The aim of the Limerick Going for Gold (LG4G) Grant and Competition is to make Limerick a cleaner, brighter place in which to work, live and visit.



The LG4G Grant and Competition is supported and sponsored by the JP Mc Manus Charitable Foundation, and organised and administered by the Council. This grant and competition is open to local groups that carry out environmental work including Resident's Associations, Action Groups, Tidy Towns Groups, Community Associations and other voluntary groups.



There were double the celebrations at the Limerick Going For Gold grand final in 2018 as Athea and Kiltelly were jointly named as overall winners of the Limerick Going For Gold competition, and each community received €10,000 in prize money.

4.2.3 Tidy Towns

The Council hosts an annual Tidy Towns Seminar, to promote and support community involvement in the improvement and enhancement of the local environment. This remains a primary objective of the Council.



Enhanced community involvement in the maintenance of their areas is delivered through the public spirit and initiative of community groups, tidy towns committees, residents' associations and local businesses.

This community spirit comes to the fore in areas such as the TLC Campaign, National Spring Clean and the Limerick Going for Gold Environmental Improvement Grant & Competition. 57 communities from across Limerick participated in National Tidy Towns 2018, which is an increase of 3 communities on 2017.



Among the medal winners from Limerick were Adare, which achieved a silver medal, and Ardpartick, Castleconnell, Galbally, Newcastlewest and Limerick City Centre, all of which achieved bronze medals. Gerrenderrik achieved an Endeavour Award.

4.2.4 Green Schools

The Green Schools programme is operated and co-ordinated by the Environmental Education Unit of An Taisce (FEE member for Ireland), and co-ordinated locally by Limerick City and County Council.



Green Schools promotes long-term, whole-school action for the environment. It is a student-led programme with involvement from the wider community. Green Schools is operated in partnership with Local Authorities and is supported by the Department of Housing, Planning, Community & Local Government; Department of Communications, Climate Action and Environment; Department of Transport, Tourism and Sport; The Department of Arts, Heritage Regional, Rural and Gaeltacht Affairs; Department of Foreign Affairs and Trade; Irish Aid, National Transport Authority; National Parks and Wildlife Service, Irish Water and the Wrigley Company Limited. More than 70 teachers from across Limerick schools participated in the Limerick City and County Council Annual Green School Seminar in October 2018. The teachers attended a range of workshops across six Environmental Themes: Litter and Waste, Energy, Water, Biodiversity, Global Citizenship, and Marine Litter.

During the year the Green Schools team carried out 40 visits to participating schools and 33 Green Flag assessments. 42 Limerick Schools were awarded Green Flag in 2018.

4.2.5 Targeting the use of Single-Use Plastics

#runreuserefill - St. Michael's Rowing Club Zero Waste Urban Run



The Club has held a fundraising Urban Run event for the last 8 years. After the 2017 Urban Run club officers wanted a different approach to how they supplied water to participants. SMRC approached the Council about a Zero Waste Run 2018 event. Following consultation the Council invested in 500 #RunReuseRefill reusable plastic glasses.



For the 2018 event, St Michael's Rowing Club, working with Limerick City and County Council, prevented more than 700 single use plastic bottles from going for recycling by using the re-usable plastic cups, saved an estimated 54 volunteer hours which would have previously been spent on litter picking and saved of €250 in purchase of water resulted.

4.2.6 Kings Island Conscious Cup Campaign

The aim of the national Conscious Cup Campaign is to reduce & eventually eliminate single use cups in Ireland. It was started in late 2016 by concerned individuals who were inspired by similar initiatives around the world.



The central focus of the campaign is to encourage individuals to switch to reusable cups with businesses offering an incentive in return.

The following Limerick businesses have registered with the national Conscious Cup Campaign and are offering a discount of up to 20 cent on take out coffee for anyone who brings their own reusable cup:

Abbey Bridge Café; Absolute Hotel; Katie Daly's; King John's Castle; Limerick City and County Council; The Locke; Stix Café; Nelly's Corner; Tracey's Bakehouse 22; St Mary's Community Café.



4.3 CLEANSING OPERATIONS

4.3.1 Street Cleaning

Cleansing Unit provides an extensive street cleaning service in the city. The Cleansing Unit – comprised of 38 employees - operates a 7-day cleaning schedule of the public streets and empties approximately 212 litter bins, each with a capacity of 120 litres, on a daily basis, equating to 28 tonnes of litter per week.





Street cleaning also incorporates weed spraying, graffiti removal, chewing gum removal, maintenance of street furniture and monitoring of illegal dumping.

The area offices provide a street sweeping and bin emptying service in the county towns Kilmallock, Rathkeale and Newcastle West.

Street cleaning crews support National Spring Clean, residents associations and Tidy Towns groups with their tidy ups.

4.3.2 Civic Amenity Centres

The Planning and Environment Services Department of Limerick City and County Council operates four recycling centres throughout the city and county.

Recycling Centre	Opening Hours
Mungret Civic Amenity Centre Phone: +353 61 305 720	Tuesday - Saturday @ 10am - 5pm
Kilmallock Civic Amenity Centre Phone: +353 63 98836	Tuesday and Saturday @ 10am - 5pm
Newcastle West Civic Amenity Centre Phone: +353 69 78610	Wednesday and Saturday @ 10am - 5pm
Park Road Mini Recycling Centre Phone: +353 61 556000	Monday - Thursday @ 8am - 4.30pm Friday @ 8am - 3.30pm

Table 4.3 – Civic Amenity Centre Opening Hours

For further information including a list of materials accepted at the recycling centres please visit www.limerickrecyclingcentres.ie.

4.3.3 Bring Banks

There are 64 bottle bank locations throughout Limerick city and county. For a full list of Bring Bank locations and materials accepted please see Appendix 1 or visit www.limerick.ie/council/services/environment/waste-and-recycling/bottle-banks.

4.3.4 Waste Segregation, Storage and Presentation Bye-Laws

During 2018, the City and County of Limerick (Segregation, Storage and Presentation of Household and Commercial Waste) Bye-Laws were reviewed, updated and amalgamated.

These bye-laws regulate the presentation, storage, segregation, etc. of household / commercial waste and provide for specific enforcement provisions / fixed payment notices in the case of contraventions. The Bye-Laws were adopted by Council at its Meeting held on the 28th January 2019.



4.3.5 Dog Litter and Dog Control Bye Laws 2012



Limerick City Dog Litter and Dog Control Byelaws 2012 were adopted in December 2012. The aim of the Byelaws is to regulate the control of dogs and the collection of dog litter.

4.3.6 MyWaste.ie

The Regional Waste Management Offices launched the MyWaste.ie website in 2018.



The website provides information to householders and businesses on how to prevent, reduce and manage waste; reuse, recycling and upcycling options, and other environmentally friendly choices. For further information please visit www.myWaste.ie.

Your Recycling List

Rigid Plastics



Tins & Cans



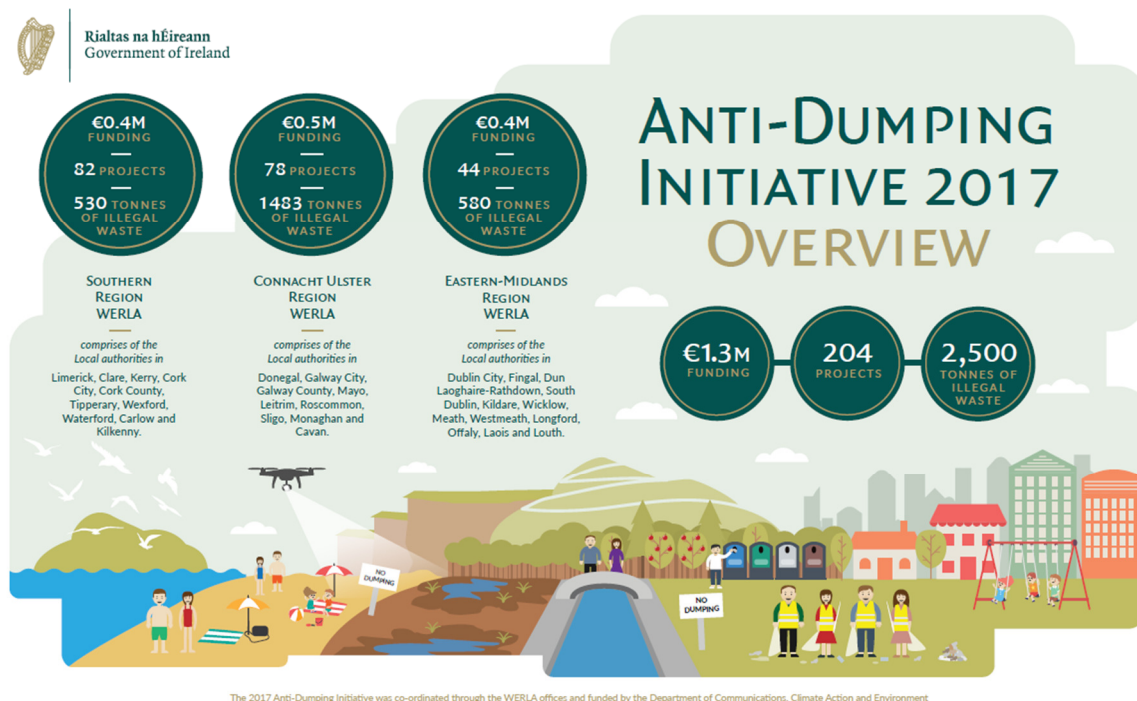
Paper & Cardboard



Mywaste.ie

4.3.7 Anti-Dumping Initiative

In 2017 the Council received grant funding of €50,100 under the Anti-Dumping Initiative to carry out clean-up works at 8 sites, and for the purchase of equipment.



These sites included Tournafola; Carrigkerry; Rathkeale; Donnellan’s Field; Ballynanty/Moyross and Johnsgate. The Council received a further €50,000 in 2018 under the Anti-Dumping Initiative for clean-up works at 11 sites including Croom, Gooig Bog, Kilmallock, Prospect, Glin, Castletroy and Dooradoyle. These works improved the visual appearance of these areas, especially for local residents.

4.4 ENFORCEMENT ACTIVITIES

The Enforcement Team includes five Environmental Control Officers / Inspectors who are supported by an administrative unit.

During 2018, as in previous years, the City and County’s Litter Management teams were proactive in addressing the problems of litter.

Number Of Complaints Received (Litter And Waste)	3,096
Number Of Inspections	3,027
Number Of On-The-Spot Fines Issued	448
Collection Rate for Fines	46.34%
Number Of Legal Proceedings	59
Number of Convictions Secured (to date)	27

Table 4.4 – Enforcement Activities 2018

In addition to the Enforcement Team, a number of other staff in the Environment Section have authority to issue litter fines and notices under the Litter Acts and Waste Management Acts.



As part of its daily operations, the Domestic Waste and Litter Team carry out household and commercial waste management surveys in order to determine the refuse collection arrangements of domestic units, businesses etc. This work will continue in tandem with appropriate enforcement action in cases of non-compliance.



SECTION 5 – OBJECTIVES AND ACTIONS

OBJECTIVES AND ACTIONS

EDUCATION AND AWARENESS

Objective 1 To further develop a comprehensive education and awareness programme around littering.

- Action 1.1 To work with the Council's Communications Unit, local and national media and other stakeholders to promote greater awareness of the causes of litter and the public's obligations under the Litter Pollution Acts.
- Action 1.2 To promote the Litter Management Plan and make it available to the public via the Council's website and office network.
- Action 1.3 To regularly review the findings of the National Litter Pollution Management System reports to identify specific cohorts (school children, businesses, fast food outlets), and to develop appropriate education and awareness programmes for these cohorts.

Objective 2 To work with households, and the wider community – including schools and businesses - to promote behavioural change and to support the part they play in litter prevention.

- Action 2.1 To continue to promote litter awareness and prevention through initiatives such as the Green Schools Programme.
- Action 2.2 To work with businesses and traders on various agreed anti-litter and green initiatives.
- Action 2.3 To continue to assist and support communities to participate in initiatives such as Team Limerick Clean-up, Going for Gold and other litter prevention activities.
- Action 2.4 To continue to support and advise communities participating in the national Tidy Towns competition.
- Action 2.5 To work with community organisations to promote the minimisation of litter and re-use of equipment before, during and after events.

Objective 3 To promote the avoidance of litter in Limerick City and County Council's own or supported activities.

- Action 3.1 To develop a policy on the use of single-use plastic items at all Council organised or supported events.
- Action 3.2 To create awareness amongst Council staff of their responsibilities under the Litter Pollution Acts.

Action 3.3 To develop a policy regarding litter management at major events including Council organised events eg St Patrick's Day Festival, Riverfest Festival.

Action 3.4 To develop a strategy in relation to the promotion and sponsorship of litter related events.



CLEANSING OPERATIONS

Objective 4 To promote best practice in relation to street cleaning and the collection of litter.

Action 4.1 To develop a best practice policy on the provision of litter bins.

Action 4.2 To ensure that Limerick city, its towns and villages are maintained to the highest standard, as resources permit/within available resources.

Action 4.3 To work with the Waste Enforcement Regional Lead Authority in implementing anti-dumping initiatives.

Action 4.4 Liaise with relevant stakeholders to ensure that Litter Control and Waste Management measures are in place at major events and in the surrounding vicinity before, during and after an event.

Action 4.5 To work with the Probation Service in relation to small scale supervised clean-ups.

Objective 5 To continue to operate and promote the network of Civic Amenity Centres and bring bank facilities in Limerick City and County.

Action 5.1 To promote the use of existing Civic Amenity Centres and bring bank facilities and awareness of what can be recycled at them.

Objective 6 To continue the implementation of the National Litter Pollution Monitoring System.

Action 6.1 To continue to carry out surveys on the level and composition of litter pollution.

Action 6.2 To ensure litter black spots are identified, and appropriate action is taken to prevent re-occurrence, using a variety of powers and means available to the Council.

Action 6.3 To regularly review the findings of the National Litter Pollution Management System reports to inform Council policy in relation to street cleaning, and to develop appropriate initiatives to address littering.

Action 6.4 To inspect ATM sites in accordance with the Negotiated Agreement with the Banking Sector.





ENFORCEMENT

Objective 7 To respond efficiently and effectively to litter complaints received.

- Action 7.1 To ensure that all complaints relating to littering recorded on the Council's Sugar CRM system, or received via the Council's Litter hotline, are dealt with promptly.
- Action 7.2 To ensure that the Council's Environmental Patrol Officers/Inspectors maintain a visible presence in the city, towns and villages to deter littering.
- Action 7.3 To regularly review the findings of the National Litter Pollution Management System reports to inform enforcement operations.

Objective 8 To continue the enforcement of all laws relating to litter.

- Action 8.1 To work closely with Housing Support Services, An Garda Síochána and other stakeholders in relation to litter and waste enforcement.
- Action 8.2 To work with businesses and traders to ensure that areas outside their premises are kept free of litter.
- Action 8.3 To promote awareness of the implications, in terms of fines and other enforcement actions, of littering, illegally dumping bags of rubbish, not cleaning up after your dog, graffiti, abandoned vehicles, unsatisfactory presentation of waste.
- Action 8.4 To issue on the spot and/or written fines, directions and notices as appropriate.
- Action 8.5 To initiate legal proceedings, where required.

SECTION 6 - IMPLEMENTATION AND MONITORING

The Litter Management Plan 2019-2022 aims to improve on the standards of litter management and cleanliness attained in previous plans. It highlights the critical role to be played by the various sectors of the community in achieving this, and acknowledges their contribution.



This Plan sets out the objectives and actions to be carried out over the life time of the Plan to eliminate litter, promote a cleaner environment and raise public awareness. An annual review of performance against the objectives and actions contained in this Plan will be carried out. The Council will continue to contribute to the National Litter Pollution Monitoring System, and our activities will be informed by the results of these and other surveys.



A report in accordance with Section 10(3) of the Litter Pollution Act 1997, as amended, will be presented to Council on an annual basis, setting out the activities for the Council in relation to litter pollution for the previous calendar year, including an annual review of performance against the objectives and actions contained in this Plan.

Litter prevention is the responsibility of everybody. By continuing to work together we can achieve a Limerick which is a cleaner, greener and healthier city and county to live in, work in and visit.



APPENDIX 1

BRING BANK LOCATIONS IN LIMERICK CITY AND COUNTY

Location	Glass	Steel cans	Aluminium cans	Textiles
Adare Heritage Centre	✓	✓	✓	✓
Ardagh Community Hall	✓	✓	✓	✓
Ardpatrick, Four Cross Roads	✓	✓	✓	
Ashford - Ashford Tavern Car Park	✓	✓	✓	✓
Askeaton Shopping Centre Car Park	✓	✓	✓	✓
Athea (beside graveyard in village)	✓	✓	✓	✓
Ballyorgan (beside National School)	✓	✓	✓	✓
Bruff GAA grounds	✓	✓	✓	✓
Bruree/Rockhill (centre of village)	✓	✓	✓	✓
Broadford (beside handball alley)	✓	✓	✓	✓
Cappamore (beside creamery)	✓	✓	✓	✓
Carrigerry Service Station	✓	✓	✓	✓
Castletroy – Plassey Credit Union Limited, Plassey, Park Road	✓	✓	✓	✓
Crescent Shopping Centre	✓	✓	✓	
Croom (church car park)	✓	✓	✓	✓
Dock Road	✓	✓	✓	✓
Doon (car park opposite graveyard)	✓	✓	✓	✓
Fedamore (beside National School)	✓	✓	✓	✓
Feenagh Community Hall	✓	✓	✓	✓
Foynes Flying Boat Museum	✓	✓	✓	
Galbally, Tipperary Road	✓	✓	✓	✓
Glin (beside GAA field)	✓	✓	✓	✓
Granagh Service Station	✓	✓	✓	✓
Gortadroma Waste & Recycling Centre	✓	✓	✓	✓
Hassett's Cross	✓	✓	✓	✓
Hospital, Knockainey Road	✓	✓	✓	✓
Kilbehenny Community Hall	✓	✓	✓	✓
Kilfinnane (beside graveyard)	✓	✓	✓	✓
Kilmallock Recycling Centre	✓	✓	✓	
Kilteely Village	✓	✓	✓	✓
Knockdown - Knockdown Arms Car Park	✓	✓	✓	✓
Knocklong (beside GAA field)	✓	✓	✓	✓
Liddy Street	✓	✓	✓	
Limerick School of Art & Design, Clare Street	✓	✓	✓	✓
Loughill Village	✓	✓	✓	✓

Mary Immaculate College, South Circular Road	✓	✓	✓	
Montpelier Community Hall	✓	✓	✓	✓
Monagea Community Hall	✓	✓	✓	✓
Monaleen Stores, Castletroy	✓	✓	✓	✓
Mountcollins (beside GAA field)	✓	✓	✓	✓
Moyross Community Centre	✓	✓	✓	✓
Mungret (opposite Irish Cement)	✓	✓	✓	✓
Murroe Community Hall	✓	✓	✓	✓
Newcastle West Recycling Centre, Station Road	✓	✓	✓	
O'Callaghan Strand	✓	✓	✓	
Oola Community Hall	✓	✓	✓	✓
Pallasgreen Community Hall	✓	✓	✓	✓
Pallaskenry Agriculture College	✓	✓	✓	✓
Park Road, Rhebogue	✓	✓	✓	
Parkway Shopping Centre	✓	✓	✓	✓
Patrickswell Service Station	✓	✓	✓	✓
Raheenagh Community Hall	✓	✓	✓	✓
Rathkeale Area Office, New Line	✓	✓	✓	✓
Roxboro Shopping Centre	✓	✓	✓	✓
St. Camillus', Shelbourne Road	✓	✓	✓	
Scoil Ide, Corbally Road	✓	✓	✓	
Shanagolden (adjacent to Community Hall)	✓	✓	✓	✓
Southill Church	✓	✓	✓	✓
Templeglantine Community Hall	✓	✓	✓	✓
Tournafulla Community Hall	✓	✓	✓	
Villiers School, North Circular Road	✓	✓	✓	
Watchhouse Cross	✓	✓	✓	✓
Woodview	✓	✓	✓	

APPENDIX 2

NATIONAL LITTER POLLUTION MONITORING SYSTEM

RESULTS FOR LIMERICK 2016 AND 2017

The National Litter Pollution Monitoring System (NLPMS) is a system for monitoring the extent, severity and causes of litter pollution.

The data produced by NLPMS surveys allows local authorities to gauge the extent and severity of litter pollution in each local authority area; the types, most likely sources and causes of litter pollution; the changes in litter levels from location to location and over time; the location of litter blackspots; and, the impact of new anti-litter measures.

COMPOSITION OF LITTER

Figure 1 – Composition of Litter in Limerick 2017

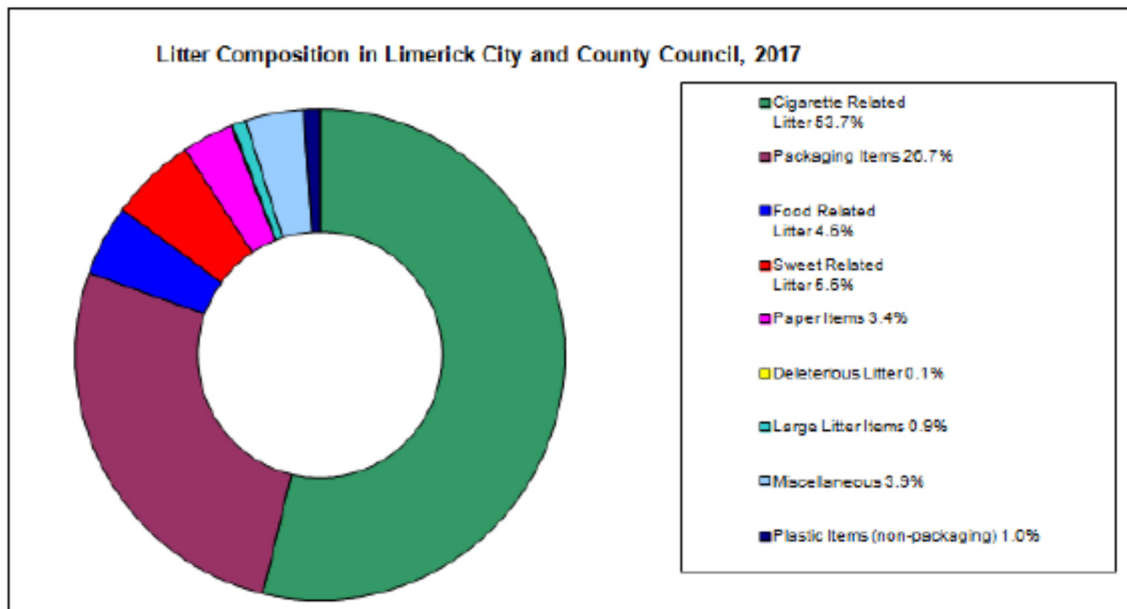


Figure 2 – Litter composition in Limerick 2016 and 2017

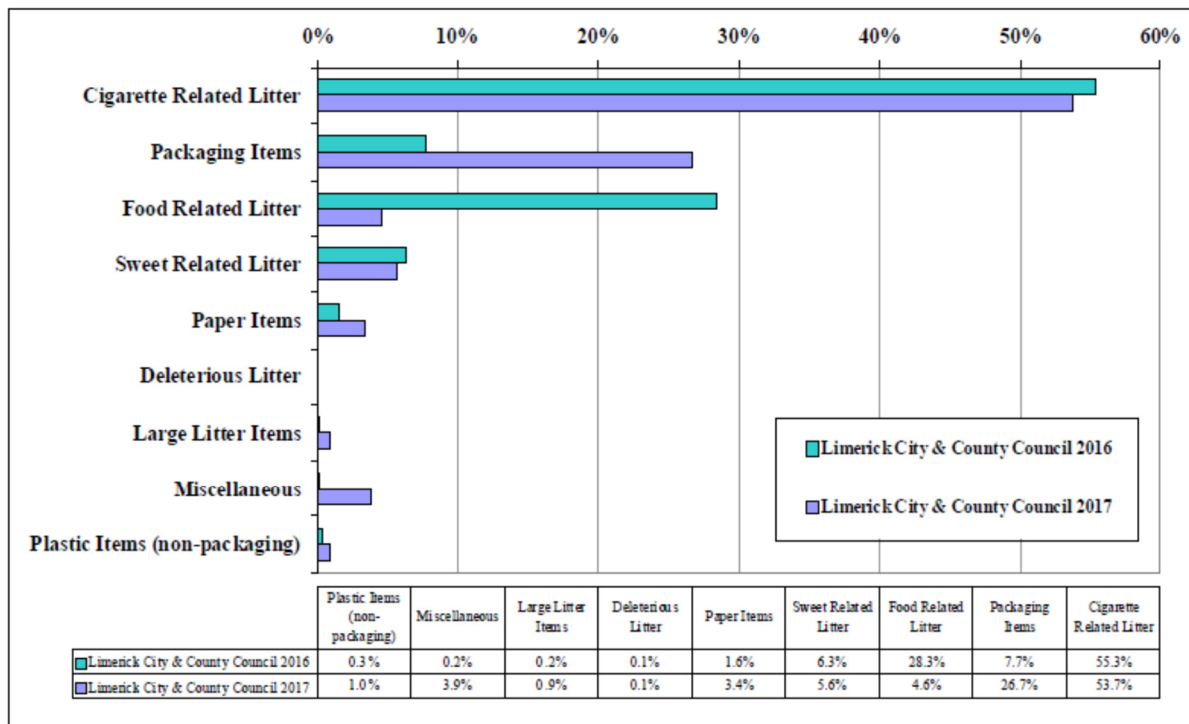


Figure 3 – Comparison of Litter Composition in Limerick City and County with Aggregate Results for City Councils and National Results

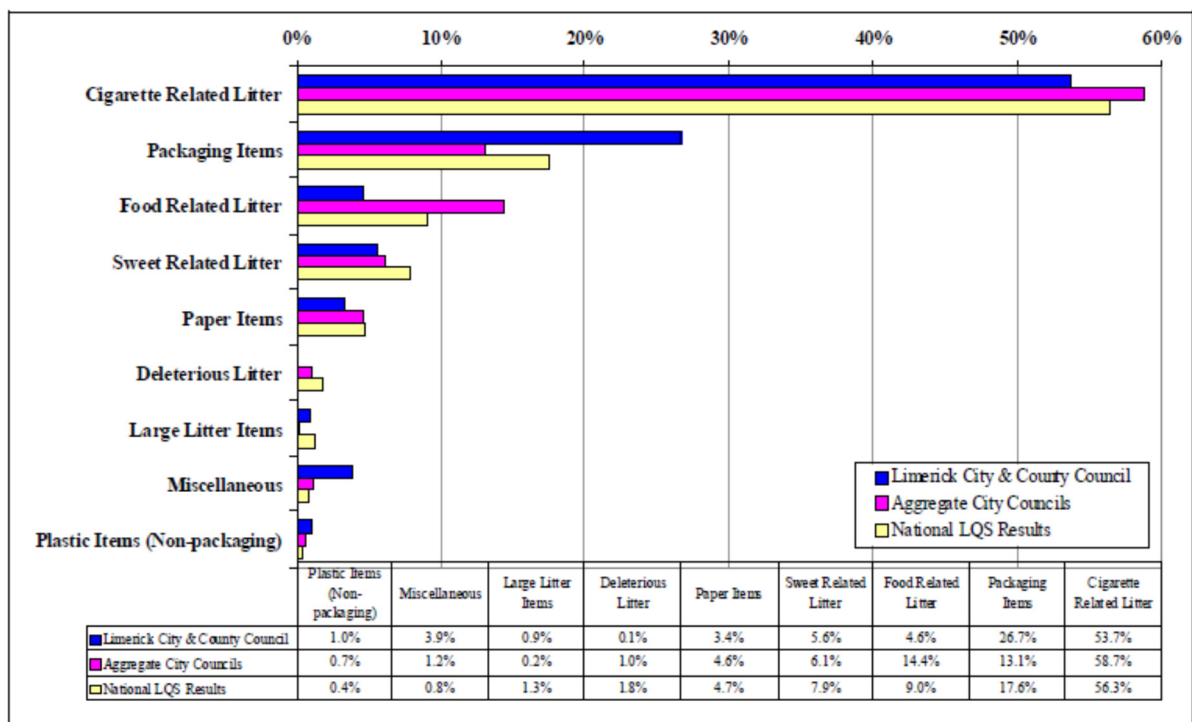


Figure 4 – Detailed analysis of Litter Composition in Limerick 2017

Cigarette Related Litter	Cigarette ends	39.01%
	Cigarette boxes and wrappers	0.31%
	Matches	14.13%
	Matchboxes and lighters	0.29%
Food Related Litter	Chewing Gum	4.06%
	Remnants of confectionery food items	0.11%
	Other food items	0.09%
	Fast-food remnants	0.22%
	Bread/ biscuits	0.07%
	Fruit/ vegetables	0.09%
Packaging Items	Bottle Caps	1.01%
	Bottles	2.48%
	Drink cups	1.36%
	Drink Lids	0.97%
	Bags and wrappers	6.74%
	Beverage Cans - Non-alcoholic	0.72%
	Beverage Cans - Alcoholic	3.53%
	Beverage Bottles - Alcoholic	1.32%
	Other paper packaging	0.29%
	Beverage Bottles - Non-alcoholic	1.21%
	Drinks cartons	1.49%
	Plastic film	0.44%
	Other plastic packaging	0.33%
	Cardboard	0.86%
	Tin foil (not sweet wrappers)	0.00%
	Bags - shopping bags	0.35%
	Other metal litter items	0.07%
	Lids (e.g. from bottles, jars)	0.07%
	Food cans	0.00%
	Aeroboard	0.31%
	Jars and other containers	0.29%
	Metal drums	0.02%
	Bags	2.54%
Boxes	0.37%	
Bags - other (e.g. fertiliser)	0.00%	
Plastic sheeting (e.g. silage)	0.00%	
Bubble-wrap	0.00%	
Sweet Related Litter	Sweet Wrappers (plastic/foil)	3.71%
	Lollipop Sticks (wooden/plastics)	0.64%
	Straws	0.92%
	Crisp Bags	0.37%
Paper Items	Tissues	0.39%
	Receipts	1.05%
	Other paper items	0.00%
	Tickets (e.g. bus, lottery)	0.50%
	Bank slips	0.31%
	Newspapers	0.83%
	Flyers and posters	0.11%
	Letters, envelopes and cards	0.04%
Deleterious Litter	Magazines/ brochures	0.11%
	Dog fouling	0.11%
	Municipal Hazardous Waste (e.g. paint, solvents)	0.00%
	Other deleterious items	0.00%
	Feminine hygiene products	0.00%
	Nappies	0.00%
Large Litter Items	Needles and syringes	0.00%
	Other large items	0.00%
	Household refuse in bags	0.00%
	Appliances (e.g. fridge)	0.00%
	Furniture	0.90%
Miscellaneous	Scrap cars	0.00%
	Miscellaneous Litter Items	3.86%
Plastic Items (Non-packaging)	Plastic items	1.03%

Figure 5(a) – Detailed Analysis of Cigarette Related Litter in Limerick 2016 and 2017

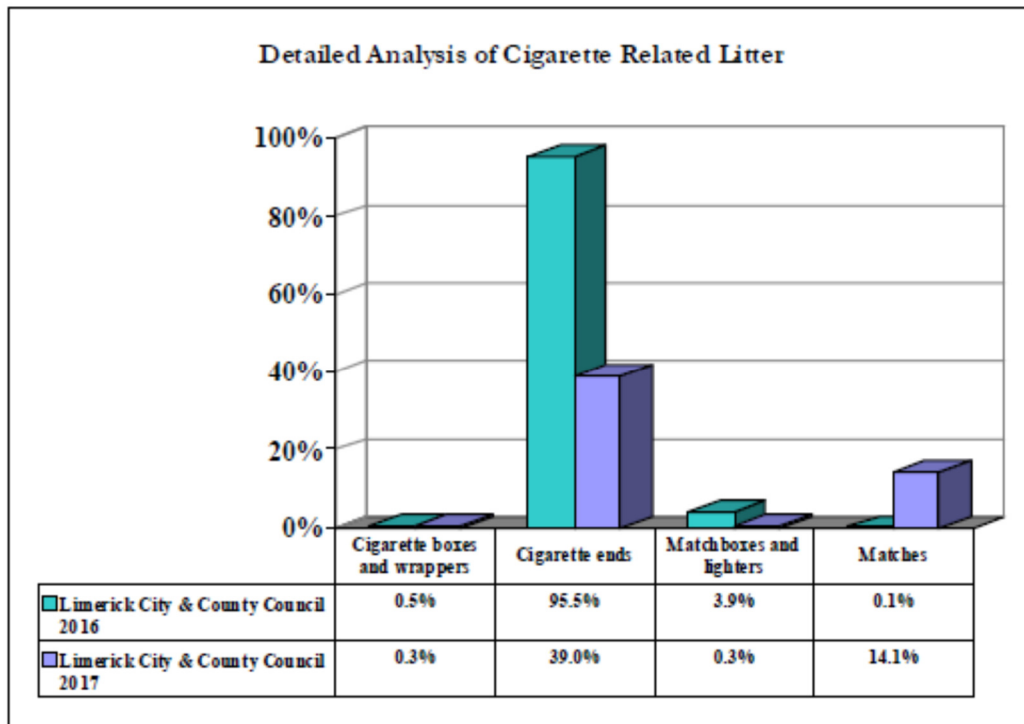


Figure 5(b) – Detailed Analysis of Packaging Litter in Limerick 2016 and 2017

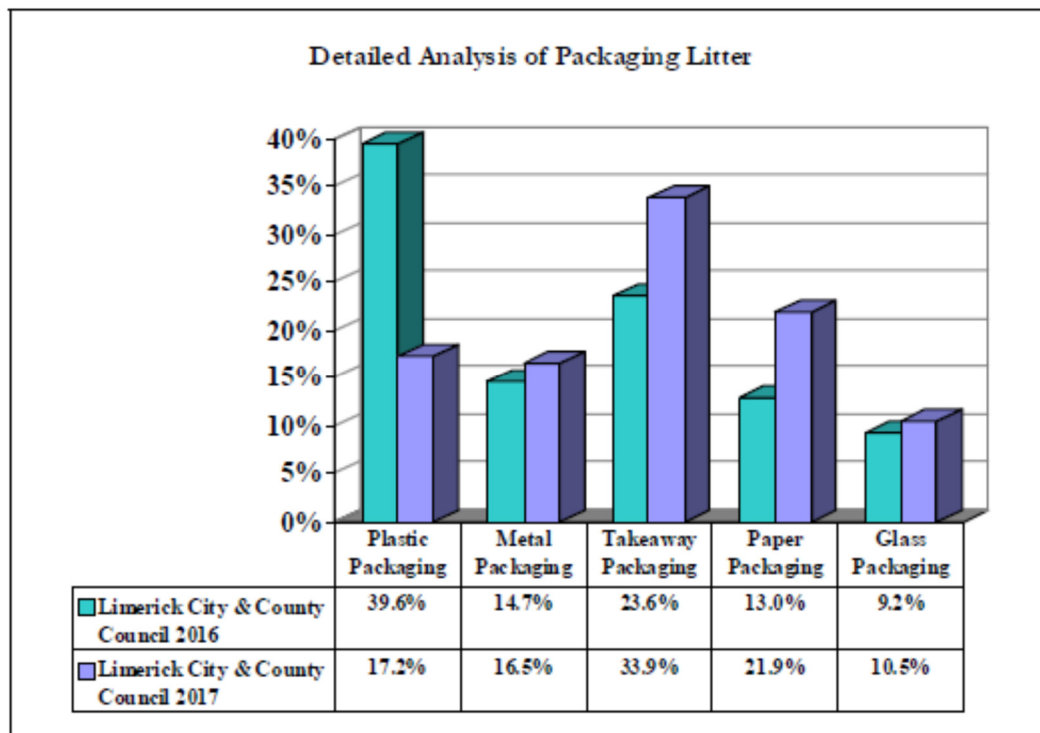
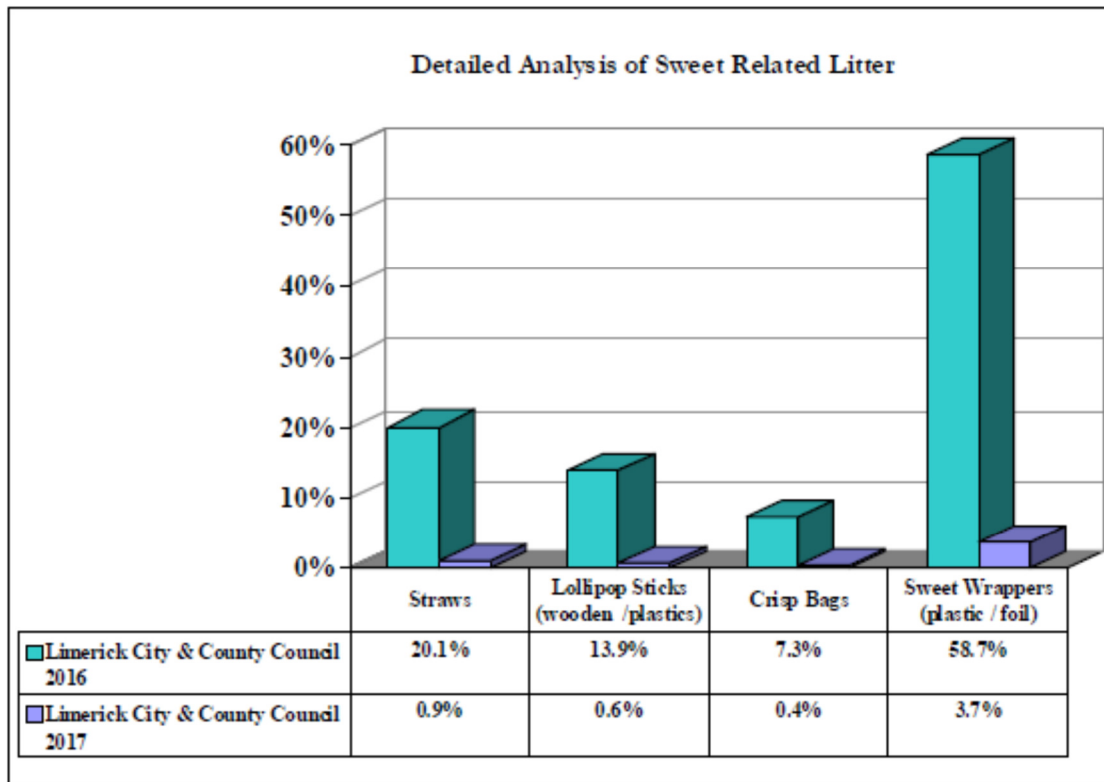


Figure 5(c) – Detailed Analysis of Sweet Related Litter in Limerick 2016 and 2017



LITTER POLLUTION LEVELS

Figure 6 – Litter Pollution Levels in Limerick 2016 and 2017. (For a description of the Litter Pollution Index ratings see Table 3.1 in Section 3 above).

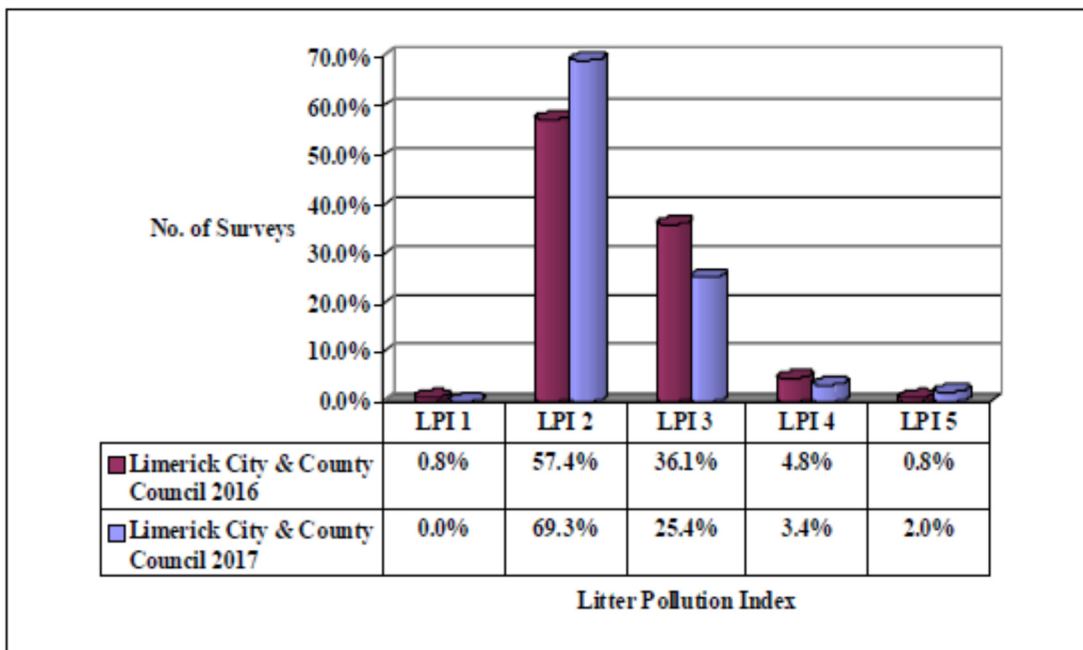
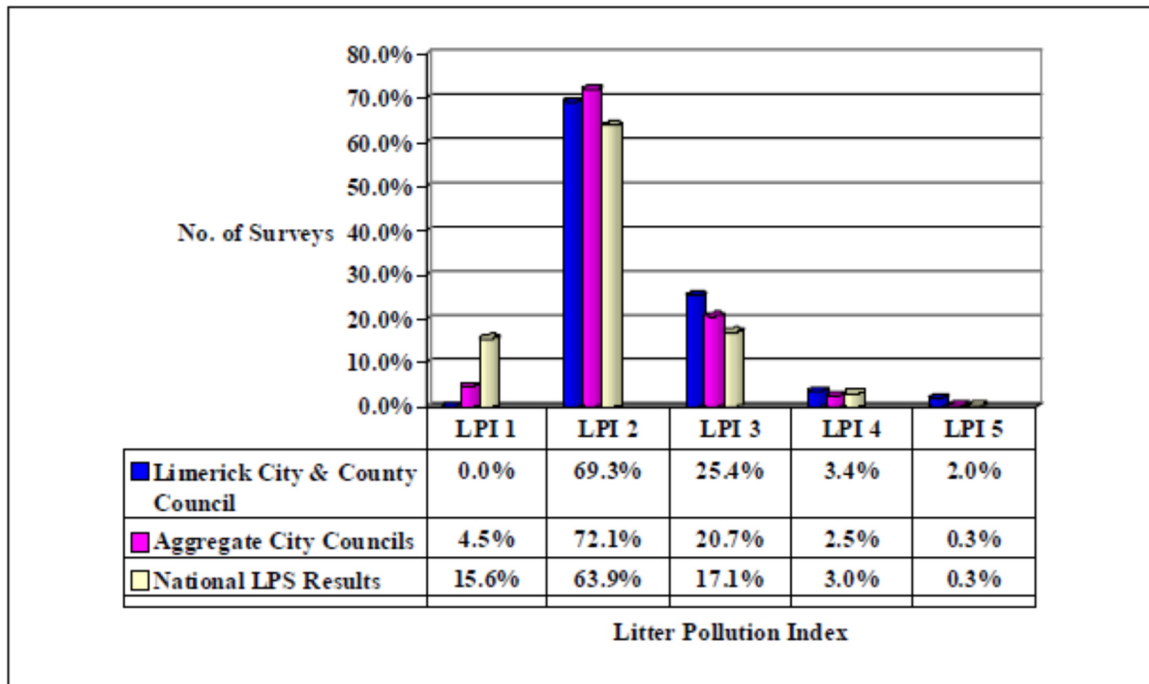


Figure 7 – Comparison of Litter Pollution Indices in Limerick City and County with Aggregate Results for City Councils and National Results 2017



CAUSATIVE FACTORS OF LITTER

Figure 8 – Comparison of Causative Factors of Litter Pollution in Limerick 2016 and 2017

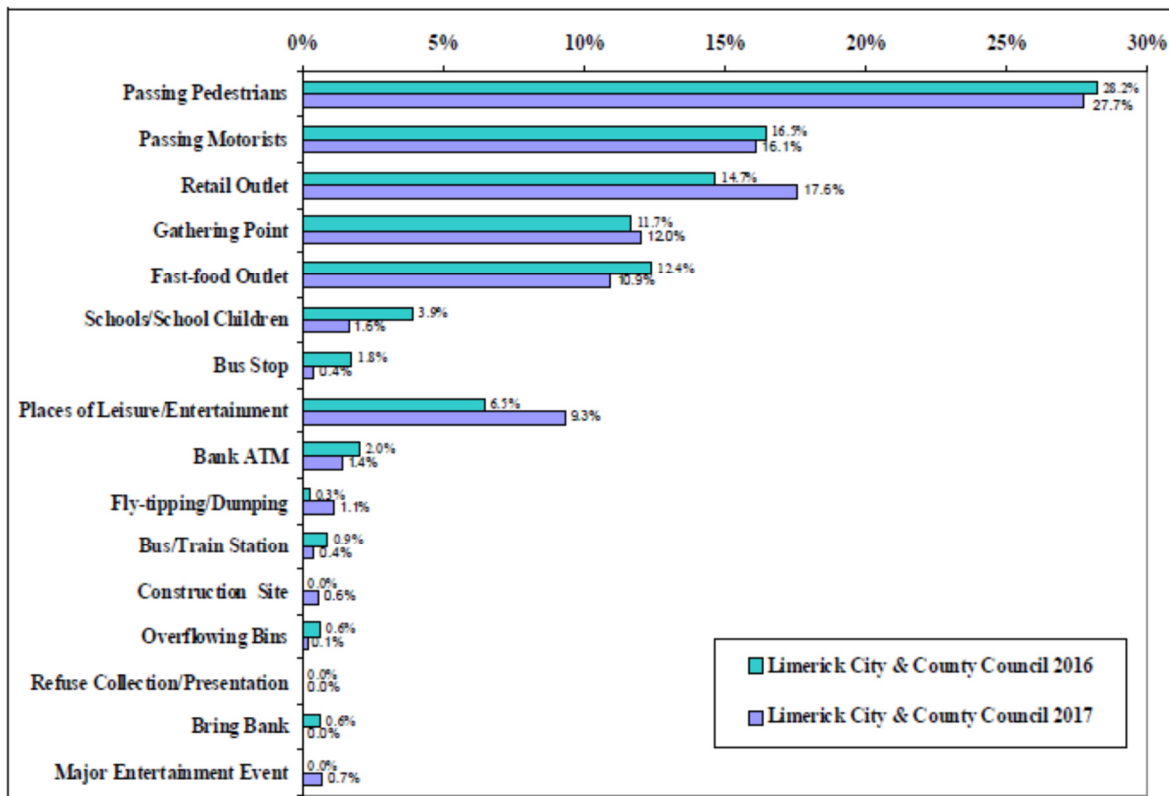


Figure 9 – Comparison of Causative Factors of Litter Pollution in Limerick City and County with Aggregate Results for City Councils and National Results 2017

