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<b>Report To</b>	<b>Policy and Resources Executive Sub Committee</b>	<b>Date</b> 16.12.13
<b>Report By</b>	<b>Acting Corporate Director Environment, Regeneration and Resources</b>	<b>Report No</b> ERC/ENV/IM/13.176
<b>Contact Officer</b>	<b>Kenny Lang</b>	<b>Contact No</b> 5906
<b>Subject</b>	<b>Kerbside Glass Collection Service</b>	

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## **1.0 Purpose**

- 1.1 The purpose of this report is to advise the Sub Committee of the updated position in respect of kerbside glass collections and to seek approval for the resultant funding implications.

## **2.0 Summary**

- 2.1 A report highlighting options available to the Council in order to comply with the Waste Scotland Regulations 2012 was presented to the Environment and Regeneration Committee on 31st October 2013.

- 2.2 The report outlined the Capital funding which may be made available through Zero Waste Scotland through a bid process and compared 3 schemes :

- An expanded glass bring site collection scheme.
- Underground collection systemKerbside glass collections

A copy of the Environment and Regeneration Committee is included as Appendix 1.

- 2.3 At the meeting on 31<sup>st</sup> October the Committee agreed the following recommendations

1. That the Committee note the contents of the report and the need to comply with the Waste Scotland Regulations 2012.
2. That officers submit a funding bid in respect of Option C, Kerbside collection to Zero Waste Scotland in accordance with the Council's policy on external funding and in liaison with Finance Services.
3. That it be remitted to the Head of Environmental & Commercial Services to consult on the scheme and ;
4. That the financial implications be clarified once the level of funding from Zero Waste Scotland is known and be considered as part of the 2014/16 Budget approval process in February 2014.

- 2.4 Discussions have been held with Zero Waste Scotland regarding the optimum level of Capital Funding which may be made available. The levels of funding were based on a first come first served basis, Zero Waste Scotland have confirmed the funding protocol and

details of this are included in this report. It is likely that funding will be available in 2013/14 and 2014/15 however there is no guarantee given by Zero Waste Scotland on all or any part of the funding applied for.

2.5 A funding bid has been submitted for consideration by Zero Waste Scotland based on costs for a kerbside collection scheme. The Council have not committed to any spend at this time in respect of such a scheme.

### **3.0 Recommendations**

3.1 That the Sub-Committee note that the detail on the implementation of a Kerbside Glass Collection Scheme to be rolled out to households in 2014 will be reported to the Environment & Regeneration Committee by the summer recess.

3.2 That the Sub-Committee note that the Head of Environmental & Commercial Services will consult with communities and householders on the implementation of the Kerbside Glass Collection.

3.3 That the Sub-Committee agree to allocate funding to Kerbside Glass Collection as detailed in section 7.1.

Alan Puckrin  
Acting Corporate Director Environment, Regeneration & Resources

## **4.0 Background**

4.1 A report was submitted to the Corporate Management Team which highlighted the options available to the Council in order to comply with the Waste Scotland Regulations 2012.

4.2 A report detailing the options was presented to the Environment and Regeneration Committee on 31st October 2013, the options identified were :

- An expanded glass bring site collection scheme.
- Underground collection system
- Kerbside glass collections

4.3 Zero Waste Scotland (ZWS) have identified funding for Capital items in respect of the introduction of new colour-separated glass collections. Funding is limited to £250 per tonne of glass collected based on a bid process. There is no guaranteed level of funding per bid , the allocation of funding is subject to bids being assessed on a first come first served basis subject to available budget from ZWS.

4.4 At the Environment and Regeneration Committee on the 31<sup>st</sup> October 2013, officers were asked to develop costings for a Kerbside Collection service with a view to implementing such a scheme subject to a detailed report on funding. This report fulfils that remit.

4.5 Officers were also requested to make an application for funding based on a Kerbside collection scheme and a bid for capital funding has now been submitted to Zero Waste Scotland on the basis of the consultant's report. The Council have made no firm commitment at this stage to any project in relation to glass recycling services.

## **5.0 Zero Waste Scotland Glass Collection Options Appraisal**

5.1 Zero Waste Scotland's options appraisal identified a segregated kerbside glass collection scheme as their preferred option which would qualify for funding from Zero Waste Scotland and would comply with the Zero Waste Regulations.

5.2 This option would see householders receiving a 40ltr kerbside box for the collection of glass including bottles and jars, collected every two weeks from the kerbside. Flatted properties would receive a mix of kerbside and communal collections dependent on accessibility and suitability. In total the service would be rolled out to around 28,000 properties. This is in line with the existing levels of households on our food waste service.

5.3 As part of the funding Inverclyde Council would look to purchase specialist vehicles for the collection of the glass in three colour streams: clear, brown and green.

5.4 With the introduction of a kerbside glass collection it is anticipated the demand for the current quantity and location of neighbourhood glass recycling points will reduce and as a consequence some may be removed. This will impact on the amount of glass collected from the points, however the introduction of kerbside glass collection will more than compensate for this loss.

5.5 Officers have met with Zero Waste Scotland and have been advised that ZWS have included funding in their budget for Inverclyde as a provisional sum to support segregated glass recycling schemes. There is no guarantee of the level of funding that Zero Waste Scotland will be able to fund, assuming our application is approved by their evaluation panel.

5.6 It is a requirement of the Zero Waste Scotland Funding that all capital investment that is

funded in 2013/14 is purchased before 31<sup>st</sup> March 2014. It is not possible that vehicles will be procured within such a timescale and ZWS will not accept an order for vehicles as sufficient evidence to release funding.

5.7 Zero Waste Scotland are carrying forward a sum of £350,000 into 2014/15 to continue support for Local Authorities glass recycling schemes. Officers have requested that ZWS consider carrying forward any under allocation of the provisional budget into 2014/15 or allow the Council to access the sums carried forward. Zero Waste Scotland will consider doing so in principle, again this is subject to the bid approval process.

5.8 It is considered likely that Zero Waste Scotland will approve the Capital allocation in respect of containers and communication plans and this equates to around £150,000 of capital spend in 2013/14. The exact level of funding allocation will not be known until late December 2013, however officers consider that a total grant award in the region of £250,000 could be met through the Zero Waste Scotland's glass funding budget.

## 6.0 Timeline

6.1 A high level timeline showing indicative timescales for the roll out of the kerbside glass collection service is shown in Appendix 2. It is a requirement of the Zero Waste Scotland Funding that all capital investment that is funded in 2013/14 is purchased before the 31<sup>st</sup> March 2014.

## 7.0 Implications

7.1 Finance

Detailed financial analysis of the estimated cost of introducing a kerbside glass collection scheme is included in appendix 3. The figures are estimates and will be reviewed in 2015/16 with any funding not required returned to the corporate budget.

### Financial Implications – One off Costs

Cost Centre	Budget Heading	Budget Year	Proposed spend This Report	Virement From	Other Comments
Waste Strategy	Capital/ One-off Expenditure	2013/14 -2014/15	£468,000		Capital expenditure including purchase of 4 specialist vehicles, glass containers, bays and preparation and launch promotion
Waste Strategy	Grant Income	2013/14 -2014/15	(£250,000) estimated		Grant Income from Zero Waste Scotland – total allocation subject to bidding process.

## Financial Implications – Annually Recurring Costs/ (Savings)

Cost Centre	Budget Heading	With Effect from	Annual Net Impact	Virement From	Other Comments
Waste Strategy	Various	2014/15	£69,000		Revenue expenditure offset by landfill savings. Revenue expenditure includes loan charges with a Part Year Effect in 2014/15 assumes a July implementation.
Waste Strategy	Various	2015/16	£140,000		
Waste Strategy	Various	2016/17	£140,000		

If the Sub-Committee approve this expenditure, then from 2015/16 it will come from the unallocated Pressures Budget. In 2014/15 it is proposed that the cost be contained from the unallocated contingency Earmarked Reserve.

### Human Resources

The introduction of a glass recycling scheme will create 6 new posts within the Refuse Collection service.

### Legal

The proposals outlined in this report will enable Inverclyde Council to comply with the Waste (Scotland) Regulations 2012.

## **8.0 Repopulation Statement**

8.1 The creation of extra employment will contribute to stabilising the areas population whilst providing an environmentally friendly method of glass collection.

## **9.0 Equalities Statement**

9.1 The introduction of a kerbside glass collection scheme will not adversely impact on the Council's equalities agenda.

## **10.0 Consultation**

10.1 Consultation has been held with Zero Waste Scotland in relation to funding and best practice.

10.2 The CMT have been consulted on the contents of this report.

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<b>Report To:</b>	<b>Environment and Regeneration Committee</b>	<b>Date:</b> 31 <sup>st</sup> October 2013
<b>Report By:</b>	<b>Acting Corporate Director Environment, Regeneration &amp; Resources</b>	<b>Report No:</b> ERC/ENV/13/174
<b>Contact Officer:</b>	<b>Kenny Lang</b>	<b>Contact No:</b> 5906
<b>Subject:</b>	<b>Waste Strategy Update</b>	

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**1.0 PURPOSE**

1.1 The purpose of this report is to advise Committee of the current position in respect of glass collections.

**2.0 SUMMARY**

- 2.1 The Waste (Scotland) Regulations 2012 place an obligation on all Councils to provide a glass collection service to all households by 1<sup>st</sup> January 2014. Min Ref 2012 Para 317
- 2.2 A report highlighting the funding available from Zero Waste Scotland and the requirement for the Council to have implemented a glass collection service by 1<sup>st</sup> January 2014 was submitted to Committee in October 2012. Min Ref 2012 Para 619
- 2.3 Zero Waste Scotland appointed consultants to produce a business case detailing the options available to the Council which would define the optimum service for the Council taking into consideration the requirements for the end processing of glass.
- 2.4 A total of 5 options were initially considered in the report with the option of a fortnightly segregated kerbside collection being identified as the preferred option by the consultants. Zero Waste Scotland invited Inverclyde Council to submit a bid in respect of Capital funding for the collection of segregated glass from households. The funding for the segregated glass scheme must be spent by 31<sup>st</sup> March 2014.
- 2.5 Unlike the recent funding for food waste no revenue support will be made available for the implementation of a glass collection service. The ongoing revenue costs for a segregated kerbside collection are considered prohibitively expensive at a time of severe pressure on the Council's budget and is the primary reason for considering an alternative more cost effective option.
- 2.6 Zero Waste Scotland have funded an expansion of bring sites throughout West Lothian. Officers have met with Zero Waste Scotland who have agreed that a similar funding bid from Inverclyde Council would be considered. West Dunbartonshire are also proposing a similar approach of developing a more intensive infrastructure of bring sites to generate sufficient yield of glass to ensure they comply with the current Waste (Scotland) Regulations 2012. The Funding is allocated on a first come first served basis.
- 2.7 Having considered the options the CMT have recommended Option A as a pragmatic

interim step to allow the Council to meet its obligations whilst retaining flexibility once further clarity is received on the Government's application of the Regulations.

### **3.0 RECOMMENDATIONS**

- 3.1 It is recommended that Committee note the content of the report in relation to funding for Glass Collection and agree to Option A to meet the obligations of the Waste Scotland Regulations 2012.
- 3.2 That it be remitted to the Head of Environmental and Commercial Services to submit a funding bid for a multi glass recycling point scheme, on behalf of Inverclyde Council in accordance with the Council's policy on external funding, in liaison with Finance Services.
- 3.3 That it be remitted to the Head of Environmental and Commercial Services to consult on the scheme and thereafter proceed with the roll out of multi glass recycling points throughout Inverclyde on a phased basis.

Ian Moffat

Head of Environmental and Commercial Services

## **4.0 BACKGROUND**

- 4.1 The Waste (Scotland) Regulations 2012 place an obligation on all Councils to provide a separate glass collection service to all households by the 1<sup>st</sup> January 2014.
- 4.2 Zero Waste Scotland appointed consultants to carry out a detailed business case on behalf of Inverclyde Council in respect of options for glass collections.
- 4.3 The detailed business case was required to allow Inverclyde Council to access funding made available to Zero Waste Scotland to help Authorities meet their obligation to provide separate collections under the Waste (Scotland) Regulations 2012.
- 4.4 The Business Case was developed on the basis of a kerbside collection. Zero Waste Scotland will not fund revenue costs for glass collections. The business case identified 5 scenarios for segregated kerbside collections from households. Detailed financial analysis of these scenarios was reported to the CMT and was considered to be unaffordable. A copy of the consultant's business case can be made available to Members on request.
- 4.5 Zero Waste Scotland have agreed that a bring site scheme would meet the requirements of their funding application so long as a sufficient yield is generated. The funding would allow the Council to purchase new containers, however no ongoing revenue support is available. Zero Waste Scotland will fund up to £250 per tonne of additional glass diverted over three years. This will enable the Council to meet their obligations under The Waste (Scotland) Regulations 2012.

## **5.0 OPTIONS**

- 5.1 Following a series of meetings with Zero Waste Scotland, three separate collection methods were identified and further analysis was conducted by Inverclyde Council officers.
- Option A: Multiple Glass Recycling Points
  - Option B: Underground Glass Recycling Points
  - Option C: Kerbside Collection
- 5.2 Option A: Multiple Glass Recycling Points
- 5.3 While the expansion of our bring sites would not provide Inverclyde with a kerbside glass collection service, it does allow the Council to comply with the Waste (Scotland) Regulations so long as there are sufficient sites in proximity to households which generate comparative yields as kerbside collections. As a benchmark a yield of 31.4kg/hh/yr is taken as a reasonable performance, this is based on WRAP Best Practice Guidance. This option provides an appropriate interim measure at a time of increasing budget pressures and whilst clarity is sought at a national level as to what is acceptable under the Regulations. Should the Council wish to implement a kerbside scheme in future, the bring sites could be easily removed.

Details of costs are shown below.



	<b>Annual tonnage</b>	<b>Capital (yr1 only)</b>	<b>Revenue (3yrs)</b>	<b>Income (3 yrs)</b>	<b>Net Revenue (3 yrs)</b>
Multiple Glass Recycling Points	867	£217,000	£19,000	£0	£19,000

5.4 The deliverables from the recycling point expansion are listed below.

Colour sort collection from predominately 240ltr/360ltr wheeled bins.  
 Around 60 to 70 new sites including improvements to a number of existing facilities.  
 Secured in housing units.  
 Capital intensive.  
 Complies with regulations.  
 Eligible for Zero Waste Scotland Funding

5.5 A similar scheme has been proposed by West Dunbartonshire Council who are currently finalising their expanded bring site bid, while West Lothian Council were recently awarded funding for expanding their glass recycling points.

5.6 Appendix 1 details 103 potential locations identified by officers conducting a scoping exercise. A feasibility study would be conducted into the suitability of each site in terms of public acceptance and use. Officers would consult with Members, community councils and members of the public to assess the suitability of these sites. It is anticipated that around 60 additional glass collection points would be required. Appendix 2 provides an image of how these collection points would look.

5.7 In addition to the expansion of the Glass Recycling Points, the service would allow the Council to employ two additional members of staff whose remit would be to maintain the recycling points, ensuring they are kept clean, tidy and safe for use by members of the public. These posts would be funded through savings generated from the additional glass diverted from landfill.

5.8 Officers would ensure that the new glass collection points are rolled out in a phased and systematic manner. This would ensure any known issues are dealt with and not replicated.

5.9 Officers would work with Procurement to ensure the infrastructure is in place to ensure the successful roll out of the service. A tender would be prepared to appoint a glass collection provider who would uplift from all of the Council's glass recycling points and commercial recycling customers. A report on the MRF is elsewhere on the agenda recommending the Council retender the MRF contract. The glass tender would be included within the MRF retender with the costs again funded from the projected landfill diversion savings.

5.10 Option B: Underground Recycling Points

5.11 An additional underground solution was also identified; the average cost per site, for a small unit, is approximately £18,650. Similar points are operating at East Dunbartonshire Council and Edinburgh City Council.

5.12 To achieve a similar level of recycling performance as option A would require Inverclyde Council identifying an additional 18 sites at a cost of £335,700 along with additional one off costs of £85,182 as detailed in 5.13 below. This would generate an additional yield of 867 tonnes cost at a cost of around £485 per tonne and would not qualify for the full amount of funding based on the Zero Waste Scotland allocation of £250/tonne. It is unlikely that 18 additional sites would sufficiently cover Inverclyde to provide the level of coverage required to meet the Scottish Government's Waste Scotland Regulations.

5.13 Indicative costs for installing underground recycling units

Item	Capital Cost	Qty	Cost
Underground Recycling Point	£18,650	18	£335,700
One off costs (householder bags, communication campaign van)	£85,182	1	£85,182
<b>Total one off costs</b>			<b>£420,882</b>

A tender would be developed for the collection of Glass from these sites. The points would generate similar savings to regular recycling points.

Appendix 3 provides an image of the underground recycling point in East Dunbartonshire Council.

5.14 Option C: Kerbside Collection

5.15 Consultants commissioned by Zero Waste Scotland produced a business case identifying a number of options for kerbside glass recycling. Of the options identified only the Separate Colours Collection would be compliant with The Waste (Scotland) Regulations 2012 and eligible for funding. Costs provided by Zero Waste's Consultants are detailed below and are consistent with other Business Cases for glass commissioned through Zero Waste Scotland.

Collection Type	Collection Frequency	Capital Cost	Revenue (3 years)	Income (3 Years)	Net Revenue (3 Years)
Separate Colours (40ltr box with lid)	2-weekly	£468,367	£828,000	£513,000	£315,000

5.16 Members should note that should note that the annual yield for a kerbside collection is higher than that of bring sites and that the consultants identified a potential yield of 1,368 tonnes for separate kerbside collections.

5.17 The Council would be required to find the additional revenue required to operate the service identified above. Appendix 4 provides indicative images of a kerbside, colour sort, glass collection service.

**6.0 COMPARATIVE COSTS**

6.1 The table below shows the comparative costs for each of the options detailed above.

Option	Capital (yr1 only)	Revenue (3yrs)	Income (3 yrs)	Net Revenue (3 yrs)
A- Multiple Glass Recycling Points	£217,000	£19,000	£0	£19,000
B – Underground Glass Recycling Points	£421,000	£39,000	£0	£39,000
C – Kerbside Glass Collection	£468,000	£828,000	£513,000	£315,000

6.2 The savings and income for options A and B would offset the site servicing costs including site maintenance. Loan charges are not included within the revenue costs. Based on Zero Waste Scotland £250 per tonne funding guidance all of Option A would be funded, only £217,000 of Option B would be funded and Option C would be eligible for £342,000 of capital funding.

6.3 Revenue costs are higher for the underground units due to maintenance costs and the higher Capital repair costs.

## 7.0 CONSULTATION

7.1 Consultation has been held with Zero Waste Scotland in relation to the funding bid.

## 8.0 FINANCIAL IMPLICATIONS

8.1 The above costings have been reviewed by Finance Services and the funding bid to Zero Waste Scotland will be assessed prior to submission. The financial implications included below are for Option A:

### Financial Implications One off Costs

Cost Centre	Budget Heading	Budget Year	Proposed spend This Report	Virement From	Other Comments
Waste Strategy	Grant Funded Expenditure	2013/14	£216,750		Grant funded expenditure including purchase of bins and bin housing units, householder bags, a communication campaign and a van for Clean Up Squad.
Waste Strategy	Grant Income	2013/14	(£216,750)		Grant Income from Zero Waste Scotland

8.2 Financial Implications – Annually Recurring Costs/ (Savings)

Cost Centre	Budget Heading	With Effect from	Annual Net Impact	Virement From	Other Comments
Waste Strategy	Various	2014/15	£17,300		Expenditure includes costs for a Clean Up Squad including employee costs and vehicle maintenance and costs of uplift of glass from collection points; partially offset in years one and two and fully in year three by landfill/residual waste treatment savings. The net cost in years one
Waste Strategy	Various	2015/16	£3,900		
Waste Strategy	Various	2016/17	(£2,300)		

					and two will be contained within the overall Service budget
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The figures above are based on diverting an additional 867 tonnes of glass from the residual waste stream. A sensitivity analysis at Appendix 5 shows the impact of variations to the collection cost or volume of glass collected.

## **9.0 LEGAL IMPLICATIONS**

9.1 The proposals outlined above will enable Inverclyde Council to comply with the Waste (Scotland) Regulations 2012.

## **10.0 HR AND EQUALITIES IMPLICATIONS**

10.1 There are no HR or equalities implications arising from this report.

## **11.0 REPOPULATION IMPLICATIONS**

11.1 The creation of extra employment will contribute to stabilising the areas population.

### Appendix 1 – Proposed New Glass Collection Points

ADDRESS	OWNERSHIP
<b>KILMACOLM</b>	
Birkmyre Park	Council / Inverclyde Leisure
Leperstone Road	Being confirmed
Path next to Pullman Bar	Being confirmed
Springwood / Quarry Drive	Being confirmed
Victoria Gardens	Being confirmed
West Glen Park	Being confirmed
<b>PORT GLASGOW</b>	
Ardmore Road	Council
Arran Avenue Shops	Park Farm Post Office
Bay Street Flats	Council
Broadstone Avenue shop - next to park fence	Council
Brookfield Road	Being confirmed
Bute Avenue Shop	Being confirmed
Cardross Road carpark next to St Michaels PS	RCH
Castlebank - pavement at entrance	RCH
Cromdale Road Shops	Council
Crosshill Road UPGSC	Being confirmed
Dougliehill Road carpark	Being confirmed
Higholm Avenue carpark park & ride	Council
Huntly Terrace carpark	Being confirmed
Kelburn Terrace	Council
Kingston Housing Estate option 1 - Scott Way	Private
Kingston Housing Estate option 2 - Scott Way	Private
Mid Auchinleck Car Parks: 2 - 3 sites	RCH
Moorfield Avenue Shop	Being confirmed
Moss Road Shops	Private
Oronsay Avenue Shops	Being confirmed
Southfield Avenue St Stephens School	Council
Station Road carpark	Being confirmed
<b>GREENOCK</b>	
Aberfoyle Road	RCH
Ann Street Depot	Council
Ann Street (Prospecthill Court)	RCH
Ann Street (Whinhill Court)	RCH
Ardgowan Square - pavement next to bowling club entrance	Council
Auchmead Road Shops	Council
Auchneagh Farm Road / Grieve Road Shops at wall of shop	RCH

Bawhirley Road Library	Being confirmed
Bellville Street / Kilmacolm Road Flats	RCH
Broomhill St / P'hill St grass bank to football pitch	Being confirmed
Campbell Street Public Toilets	Council
Cathcart Street	Council
Crawfurdsburn CC carpark or pavement next to Salvation Army on Bawhirley Road	Being confirmed
Custom House Way	West of Scotland College
Drumfrochar Road next to Tandoori Shack	RCH
Drumfrochar Station	Being confirmed
Entrance to Gateside Gardens next to grit bin	Being confirmed
Entrance to Murdieston St off Dempster St	Being confirmed
Entrance to park on Pappermill Road	Being confirmed
Fancy Farm Road Shops	Private
Fairrie Street Shop	RCH
Glenbrae Road - circular paved area next to Glenburn Childrens Centre	Council
James Watt Way - Brewers Fayre Car Park	Brewers Fayre
Kelly Street Spar - next to litter bin	Council
Kenmore Drive cut-in next to litter bin	Being confirmed
Kilblain Court Carpark	RCH
Kincaid Court at visitors carpark	Hacking & Paterson Factors
Lady Octavia Sports Centre	Inverclyde Leisure
Ladyburn Street	Council
Larkfield Community Centre car park	Council
Leven Road opp. Playpark	Council
Loretto Club Carpark	Loretto Club
Mallard Crescent / Merlin Lane junction	Council
Maple Road - Geo's Food & Wine	Council
Meadowlark Tenants Hall Glencairn Road	Council
Nairn Road Shops	Council
Next to bus stop next to Stewart Stores Braeside Road	Council
Opp corner of Jura St/Rankin St next to stairs	Council
Outside Gibshill Nursery	Council
Pavement of carpark next to Corlic Road shop	Private
Peat Road car park next to textile bank	RCH
RCH High Flats (Rankin Court)	RCH
Roxburgh St / Holmscroft Ave	RCH
S&D Shop on Wren Road - opp entrance to St Josephs	Being confirmed
St Josephs Primary School	Being confirmed
Top of Mars Road	Council
Trafalgar Street off Dempster St next to litter bin	Being confirmed
West Stewart Street	Council
Westfield Stores Gleninver Road	Being confirmed
Westmorland Road / Cumberland junction against wall of shops	Council
<b>GOUROCK</b>	

A & D Stores Larkfield Road	RCH
Adelaide Street	Council
Battery Park carpark next to textile bank	Council
Bute Road shop/Iona Crescent	Private
Cloch Caravan Park	Cloch Caravan Park
Cloch Road bus stop at ferry terminal - between litter bin & grey box	Being confirmed
Council carpark in front of Gourock Train Station off Shore Street	Council
Cowal View shops carpark	Private
Dunvegan Avenue	Council
Finbraken Drive option 1	Council
Finbraken Drive option 2	Council
Fort Matilda station next to bus stop	Council
Golf Club car park	Being confirmed
St Ninians Catholic Church carpark	Being confirmed
Victoria Road Park between benches	Being confirmed
<b>INVERKIP</b>	
Ardgowan Housing Estate:	Being confirmed
Gravel carpark	Being confirmed
Inverkip Main Street	Being confirmed
Millhouse Road option 1	Being confirmed
Millhouse Road option 2	Being confirmed
path between Lairds Dyke & Cullen Crescent	Being confirmed
Stewart Milne carpark	Being confirmed
<b>WEMYSS BAY</b>	
Station carpark	Council
Wemyss Bay Caravan park	Wemyss Bay Caravan Park
Wemyss Bay Hotel car park	Being confirmed

## Appendix 2: Option A – Multiple Glass Recycling Points



Glasdon Modus 1280 unit (also available with flat roof – same as modus 240).



Glasdon Modus 240 Unit



For the purpose of this report the costing have been based on the units above (Glasdon Modus 1280 and 240 units).



Taylor Street Unit (1280ltr unit)

Taylor Mini Street Unit (240ltr Unit)



Recyclo 1100ltr

Recyclo 240ltr





### Appendix 3: Option B – Underground Recycling Point



Underground Recycling Point in East Dunbartonshire Council



#### Appendix 4: Option C – Kerbside Recycling Collection (Colour Sort)



Example of a kerbside glass collection vehicle.



Example of a kerbside glass collection box.

## Sensitivity Analysis

## Appendix 5

Total Cost/(Saving) of Option A: Multiple Glass Recycling Points at differing glass collection and disposal rates per tonne

	Collection & Disposal Cost per tonne			
	<u>£20</u>	<u>£25</u>	<u>£30</u>	<u>£50</u>
2014/15	£14,500	<b>£17,300</b>	£20,000	£31,000
2015/16	(£200)	<b>£3,900</b>	£8,000	£24,300
2016/17	(£6,600)	<b>(£2,300)</b>	£2,100	£19,400
3 Year Total	£7,700	<b>£18,900</b>	£30,100	£74,700

It can be seen from the sensitivity analysis that a 20% movement in the anticipated price per tonne would affect the total cost over the 3 years by £11,200. For reference, if the anticipated £25 per tonne rate doubled to £50, the total cost would increase by £55,800.

The table above assumes additional tonnes diverted, as follows:

Year	Add'l Tonnes
2014/15	550
2015/16	815
2016/17	867

If tonnages were to drop, the impact on the Total Cost/(Saving) of Option A would be as follows:

Total Cost/(Saving) of Option A: Multiple Glass Recycling Points at differing glass collection and disposal rates per tonne allowing for variances in tonnage diverted:

	10% Drop in Additional Tonnage Diverted				20% Drop in Additional Tonnage Diverted				10% Increase in Additional Tonnage Diverted			
	Collection & Disposal Cost per tonne				Collection & Disposal Cost per tonne				Collection & Disposal Cost per tonne			
	<u>£20</u>	<u>£25</u>	<u>£30</u>	<u>£50</u>	<u>£20</u>	<u>£25</u>	<u>£30</u>	<u>£50</u>	<u>£20</u>	<u>£25</u>	<u>£30</u>	<u>£50</u>
2014/15	£18,500	<b>£21,000</b>	£23,500	£33,400	£22,500	<b>£24,700</b>	£26,900	£35,700	£10,500	<b>£13,500</b>	£16,600	£28,700
2015/16	£6,100	<b>£9,800</b>	£13,400	£28,100	£12,400	<b>£15,700</b>	£18,900	£32,000	(£6,500)	<b>(£2,000)</b>	£2,500	£20,400
2016/17	£400	<b>£4,300</b>	£8,200	£23,800	£7,400	<b>£10,800</b>	£14,300	£28,200	(£13,600)	<b>(£8,800)</b>	(£4,100)	£15,000
3 Year Total	£25,000	<b>£35,100</b>	£45,100	£85,300	£42,300	<b>£51,200</b>	£60,100	£95,900	(£9,600)	<b>£2,700</b>	£15,000	£64,100

**Glass Project Timeline**

**Appendix 2**

	<b>Task</b>	<b>Dependants</b>	<b>Start</b>	<b>Finish</b>	<b>Duration (working days)</b>
<b>1</b>	<b>Glass Recycling Vehicles Tender</b>	<b>Scotland Excel</b>	<b>02/12/2013</b>	<b>28/07/2014</b>	<b>171</b>
<b>2</b>	<b>Glass Recycling Container Tender</b>	<b>Scotland Excel</b>	<b>09/12/2013</b>	<b>14/04/2014</b>	<b>91</b>
<b>3</b>	<b>Policy and Resources Sub Committee</b>	<b>Inverclyde Council</b>	<b>16/12/2013</b>	<b>16/12/2013</b>	<b>1</b>
<b>4</b>	<b>Promotion Campaign</b>	<b>Inverclyde Council Zero Waste Scotland</b>	<b>03/03/2014</b>	<b>05/09/2014</b>	<b>135</b>
<b>5</b>	<b>Glass Treatment Tender</b>	<b>Scotland Excel</b>	<b>31/03/2014</b>	<b>23/06/2014</b>	<b>61</b>
<b>6</b>	<b>Recruitment</b>	<b>Inverclyde Council</b>	<b>16/05/2014</b>	<b>21/07/2014</b>	<b>47</b>
<b>7</b>	<b>Service Roll Out</b>	<b>Inverclyde Council</b>	<b>21/07/2014</b>	<b>05/09/2014</b>	<b>35</b>
<b>8</b>	<b>1st Collection Week</b>	<b>Inverclyde Council</b>	<b>04/08/2014</b>	<b>08/08/2014</b>	<b>5</b>

**Analysis of Cost of Kerbside Glass Collection Scheme**

Appendix 3

**Capital/One-off Expenditure**

	<u>2013/14 -</u> <u>2014/15</u> <u>£000</u>
Vehicle Purchase	300
Containers	100
Premises/Bays	20
Launch Promotion	48
	<hr/> 468
<u>Estimated Capital Grant</u>	<hr/> (250)
<b><u>Net One-off Expenditure</u></b>	<b><u><hr/>218</u></b>

**Revenue Expenditure**

	<u>2014/15</u> <u>£000</u>	<u>2015/16</u> <u>£000</u>	<u>2016/17</u> <u>£000</u>
Employee Costs	113	170	170
Transport & Plant Costs	32	48	48
Handling & Haulage Costs	17	26	26
Container Replacement	0	3	6
Promotion & Publicity	0	4	6
Contingency (Note 1)	11	17	17
Loans Charges (Note 2)	1	35	35
	<hr/> 174	<hr/> 303	<hr/> 308
<u>Waste Disposal Savings/Income from Recyclate</u>	<hr/> (105)	<hr/> (163)	<hr/> (168)
<b><u>Net Revenue Expenditure</u></b>	<b><u><hr/>69</u></b>	<b><u><hr/>140</u></b>	<b><u><hr/>140</u></b>

Note 1: Contingency allows for unforeseen costs and small reductions in tonnage or income from recyclate.

**Note 2: Loans Charges/Write Off Capital Grant**

	<u>2014/15</u> <u>£000</u>	<u>2015/16</u> <u>£000</u>	<u>2016/17</u> <u>£000</u>
Vehicles (7 years)		51	51
Containers (10 years)	13	13	13
Premises/Bays (25 years)	1	1	1
Launch Promotion (1 year)	48		
	<hr/> 62	<hr/> 65	<hr/> 65
Write off Vehicle Grant Income		(17)	(17)
Write off Containers Grant Income	(13)	(13)	(13)
Write off Launch Promotion Grant Income	(48)		
	<hr/> (61)	<hr/> (30)	<hr/> (30)
<u>Net Loan Charges</u>	<hr/> 1	<hr/> 35	<hr/> 35