

NEWRY, MOURNE AND DOWN DISTRICT COUNCIL

RTS/M

Minutes of the Regulatory and Technical Services Committee Meeting held on Wednesday 21st February 2018 at 6.00 pm in the Boardroom, District Council Offices, Monaghan Row, Newry

Chairperson: Councillor J Trainor

Members:

Councillor T Andrews	Councillor S Burns
Councillor C Casey	Councillor W Clarke
Councillor G Craig	Councillor D Curran
Councillor G Fitzpatrick	Councillor V Harte
Councillor L Kimmins	Councillor J Macauley
Councillor M Ruane	Councillor G Stokes
Councillor D Taylor	Councillor J Tinnelly

Officials in Attendance: Mr L Hannaway, Chief Executive
Mr A Wilkinson, Interim Director Regulatory & Technical Services
Ms M Ward, Director of Enterprise, Regeneration and Tourism
Mr R Moore, Acting Neighbourhood Services Director
Mr L Dinsmore, Head of Waste Processing, Enforcement and Business Support
Mr C Jackson, Assistant Director of Building Control and Regulations
Mr A McKay, Chief Planning Officer
Mr K Scullion, Assistant Director Facilities Management and Maintenance
Ms C McAteer, Democratic Services Officer

RTS/013/2018: APOLOGIES AND CHAIRPERSON'S REMARKS

No apologies were received.

RTS/014/2018: DECLARATIONS OF "CONFLICTS OF INTEREST"

There were no declarations of "Conflicts of Interest".

RTS/015/2018: ACTION SHEET OF THE REGULATORY AND TECHNICAL SERVICES COMMITTEE MEETING HELD ON WEDNESDAY 24 JANUARY 2018

Read: Action Sheet of the Regulatory and Technical Services Committee Meeting held on Wednesday 24 January 2018. *(Circulated)*.

Agreed: It was unanimously agreed to note the Action Sheet.

In response to queries from Councillors Andrews and Casey in relation to an update on requests for bus shelters at Downpatrick Road, Killyleagh; Old Warrenpoint Road, Newry and Drummond Road, Newry, Mr Scullion advised he would be tabling a report at the March RTS

Committee Meeting giving an update on bus shelter requests and these would be included in the report.

In response to a query from Councillor Curran regarding the date of the Community Planning Partnership Meeting at which the issue of the maintenance of grass verges at the entrances to towns and villages would be discussed at, Mr Wilkinson said he would get the relevant officer to contact Councillor Curran.

In response to a query from Councillor Andrews regarding the launch of the Anti-Litter and Dog Fouling Strategies, Mr Dinsmore confirmed the first meeting of Enforcement Officers would be held on 1 March 2018 and an update provided after that meeting.

RTS/016/2018: REGULATORY & TECHNICAL SERVICES BUSINESS PLAN UPDATE Q3

Read: Regulatory and Technical Services Business Plan Update Q3. *(Circulated)*.

Agreed: **It was unanimously agreed to note the R&TS Business Plan Update for Q3.**

FOR CONSIDERATION AND/OR DECISION – BUILDING CONTROL

RTS/017/2018: PROPOSED DEVELOPMENT NAMING FOR NEW HOUSING DEVELOPMENT AT CLONTAFLEECE ROAD, BURREN

Read: Report dated 21 February 2018 from Mr Colm Jackson, Assistant Director of Enterprise, Regeneration and Tourism (Building Control & Regulation) regarding the proposed development naming for new Housing Development at Clontafleece Road, Burren. *(Circulated)*.

Councillor Tinnelly proposed that the Committee approve the name for the new housing development at Clontafleece Road, Burren as proposed by the Developer. There was no seconder for this proposal.

Councillor Stokes proposed and Councillor Craig seconded to recommend rejection of the proposed name "Carrick Court" and request the Developer to submit an alternative name that does not conflict with the criteria within the Street Naming Policy.

The proposal was put to a vote by a show of hands and voting was as follows:-

FOR:	13
AGAINST:	1
ABSTENTIONS:	Nil

The proposal was declared carried.

AGREED: **On the proposal of Councillor Stokes, seconded by Councillor Craig it was agreed to recommend rejection of the proposed name "Carrick Court" and request the Developer to submit an alternative name that does not conflict with the criteria within the Street Naming Policy.**

FOR CONSIDERATION AND/OR DECISION – PLANNING

RTS/018/2018: JANUARY 2018 - PLANNING COMMITTEE PERFORMANCE REPORT

Read: Report on Planning Committee Performance for January 2018 *(Circulated)*.

Agreed: **It was unanimously agreed to note the above report.**

In response to a query from Councillor Craig, Mr McKay said that the average number of live applications per Case Officer in Newry, Mourne and Down was substantially higher than in most of the other Councils. However he was content that by this time next year the backlog of applications would be processed and added that 3 new suitably qualified officers had recently been recruited to fill vacant posts.

Councillor Ruane said it was essential that planning performance did not stagnate and said all measures which needed to be put in place should be done so, including overtime for staff and additional meetings of the Planning Committee, if required.

RTS/019/2018: RECORD OF MEETINGS BETWEEN PLANNING OFFICERS AND PUBLIC REPRESENTATIVES 2017-2018

Read: Report of meetings between Planning Officers and Public Representatives. *(Circulated)*.

Agreed: **It was unanimously agreed to note the above report.**

RTS/020/2018: CURRENT APPEALS – DECEMBER 2017

Read: Report of current appeals in December 2017 *(Circulated)*.

Agreed: **It was unanimously agreed to note the above report.**

FOR CONSIDERATION AND/OR DECISION **– FACILITIES MANAGEMENT & MAINTENANCE**

RTS/021/2018: APPOINTMENT OF CONTRACTOR RE: EXTENSION AT LOUGH INCH CEMETERY

Read: Report dated 21 February 2018 from Mr Kevin Scullion, Assistant Director Facilities Management and Maintenance, regarding the appointment of Contractor re: extension at Lough Inch Cemetery. *(Circulated)*

Agreed: **On the proposal of Councillor Andrews, seconded by Councillor Burns, it was agreed to recommend approval of the appointment of Whitemountain Quarries to complete the works to extend Lough Inch Cemetery at an estimated cost of £170,000, which was within the capital budget for this project**

FOR CONSIDERATION AND/OR DECISION – WASTE MANAGEMENT

RTS/022/2018: ATTENDANCE AT ARC 21 CONFERENCE – ADVANCING A MUNICIPAL WASTE SERVICE

Read: Report dated 21 February 2018 from Mr L Dinsmore, Head of Waste Processing, regarding the appointment of Councillors and Officers to attendance an Arc 21 Conference. ***(Circulated)***

Agreed: **On the proposal of Councillor Craig, seconded by Councillor Stokes, it was agreed to recommend that the following attend be invited to attend: -**

- **All 41 Councillors**
- **Interested Officers to be nominated by the Director, from Waste Services**

RTS/023/2018: GLASS COLLECTION ASSESSMENT

Mr Wilkinson advised a report on glass collection was previously considered by the R&TS Committee and following this there was a recommendation that an Options Appraisal be undertaken to review all options relating to blue bins and the collection of glass. As part of this updated assessment WDR & RT Taggart would be giving a presentation which included TEEP outcomes.

Mr Adrian Thompson, WDR and RT Taggart, then gave a presentation on options appraisal for glass in blue bins. ***(Presentation attached)***.

A question and answer session followed during which Members welcomed the detailed presentation and raised the following issues:-

- The option being proposed now was very similar to an option previously proposed by a Member of the Committee 6 months ago – why did officers feel there was a need to revisit the situation?
- £3m had been allocated in the capital budget for new bespoke refuse collection vehicles which would not now be needed.
- Nowhere in the original TEEP report did it state that glass had to be removed from the collection service.
- The report presented by Taggart made it abundantly clear which service option should be implemented – was there any downside to the mingling of glass and paper?
- Some Members had expressed concerns about the proposals in the previous report to Committee and felt the figures were not very clear. The use of caddies had health and safety implications for staff who had to lift and empty them and there was also the potential that glass would be put in black bins and thereby reduce recycling rates.
- A lot had changed in the recycling industry since the report on glass collection had previously been before Committee and there was now a strong recommendation from the Director on the preferred option, following further assessment and a second TEEP report.
- It was important to note that it would be at least one year before a co-mingled collection was implemented in the former legacy Down Council area as the current

contract did not allow for glass collection in blue bins for this area. An implementation plan for the co-mingled collection needed to be drawn up.

In response Mr Wilkinson said there had been a lot of changes in processing of waste. He said 5 months ago the Council would have been advised by the Department and arc21 that glass had to be separated but in the intervening period the way waste was being processed had changed considerably and co-mingled collections could now go through high quality processing to get a high quality end material.

Mr Wilkinson said an in-house Project Team had been set up which involved talks with staff on the ground and also consultations with the Waste Strategy Group. Taggart had been appointed to examine costs and options in relation to various collection models and as a result the position was now very clear that co-mingling of recyclables should be continued and extended.

Mr Wilkinson confirmed the Capital Programme contained funding for the replacement vehicles that were needed for the service.

Read: Report dated 21 February 2018 from Mr L Dinsmore, Head of Waste Purchasing, regarding Options Appraisal and glass collection assessment for Newry, Mourne and Down District Council.
(Circulated).

Agreed: **On the proposal of Councillor Stokes, seconded by Councillor Fitzpatrick, it was unanimously agreed to recommend , following consideration of the Report submitted by WDR and RT Taggart's Review by the Project Team and discussion with the Waste Strategy Group, that Newry, Mourne and Down Council, extend a co-mingled collection service across its District for the collection of paper, card, metals and glass, as soon as possible and targeted for implementation by 1 April 2019.**

It was also recommended that the Director of Neighbourhood Services arrange for the preparation of a Report, to be submitted to the March Meeting of the Regulatory and Technical Services Committee, which clearly details a Project Plan, with timelines to achieve an implementation of a co-mingled collection service, for MDR Wastes, across the Council District by 1 April 2019, at latest.

Report to address issues such as: -

- **Route Optimisation**
- **Procurement issues relating to tendering for disposal of Co-Mingled Mixed Dry Recyclates, as collected by Council's collection services, across the Council District.**
- **Relevant timelines and reporting dates to achieve state objectives.**

It was recommended that collection method as is proposed, be reviewed should the MDR contract be renewed or changed

again at some time in the future, to reappraise market conditions and recycle rates achieved at that point in time.

The Chairperson of the Committee and Members thanked Mr Wilkinson and his staff for the work they had done on this issue and extended their best wishes to Adam in his new role.

RTS/023/2018: REPORT OF WASTE STRATEGY WORKING GROUP

Read: Report of Waste Strategy Working Group Meeting held on 8 February 2018. *(Circulated)*

Agreed: **It was unanimously agreed to note the above report.**

RTS/024/2018: WRAP LETTER –PLASTIC WASTE & RECYCLING STRATEGY

Read: Letter dated 9 February 2018 from Wrap regarding the Plastic Waste & Recycling Strategy. *(Circulated)*

Agreed: **It was unanimously agreed to note the above correspondence.**

RTS/025/2018: HISTORIC ACTION SHEET

Read: Historic Action Sheet *(Circulated)*.

Agreed: **It was agreed to note the Historic Action Sheet.**

RTS/026/2018: CONGRATULATIONS

Councillor Fitzpatrick congratulated five year old Charlie Hamilton-Cooper and his family who had won the Newry, Mourne and Down Litter Heroes Award at the Live Here Love Here Community Awards Ceremony. She said this was a great achievement for Charlie who regularly took part in beach clean-ups.

There being no further business the meeting ended at 7.10 pm.

For adoption at the Council Meeting to be held on Monday 5 March 2018.

**Signed: Councillor John Trainor
Chairperson of Regulatory & Technical Services Committee**

**Signed: Mr A Wilkinson
Interim Director Regulatory & Technical Services**



WDR & RT TAGGART

ARCHITECTURE

CIVIL ENGINEERING

STRUCTURAL ENGINEERING

WASTE AND ENERGY

MASTERPLANNING

TOWN PLANNING

LANDSCAPE

HEALTH AND SAFETY

PROJECT MANAGEMENT

BIM CONSULTANTS




Adrian Thompson

MDR – Glass Collection Options Assessment



Comhairle Ceantair
**an Iúir, Mhúrn
agus an Dúin**
**Newry, Mourne
and Down**
District Council

Wednesday 21st February 2018

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WDR & RT TAGGART

ARCHITECTURE

CIVIL ENGINEERING

STRUCTURAL ENGINEERING

WASTE AND ENERGY

MASTERPLANNING

TOWN PLANNING

LANDSCAPE

HEALTH AND SAFETY

PROJECT MANAGEMENT

BIM CONSULTANTS

PROGRAMME

- Councils Legal Requirements
- Terms of Reference
- TEEP Route Map
- Glass Collection Options Assessed
- Assessment of Options
- Quality of Recyclate
- Cost of Service
- Impact on Recycling Rates
- Glass Capture Rate
- Public Perception
- TEEP Outcomes
- Preferred Option

Councils Legal Requirements



WDR & RT TAGGART

- **Regulation 18 of the Waste Regulations (Northern Ireland) 2011**
- **Requires the separate collection of:**
 - **Paper**
 - **Plastic**
 - **Metal**
 - **Glass**
- **Unless it is not Technically, Environmentally and Economically Practicable (TEEP)**
- **Must pass all 3 tests**



Assessment of options associated with glass collection

- Review current systems and quantity of glass collected
- Determine a preferred option based on costs, quantity and quality of recyclate

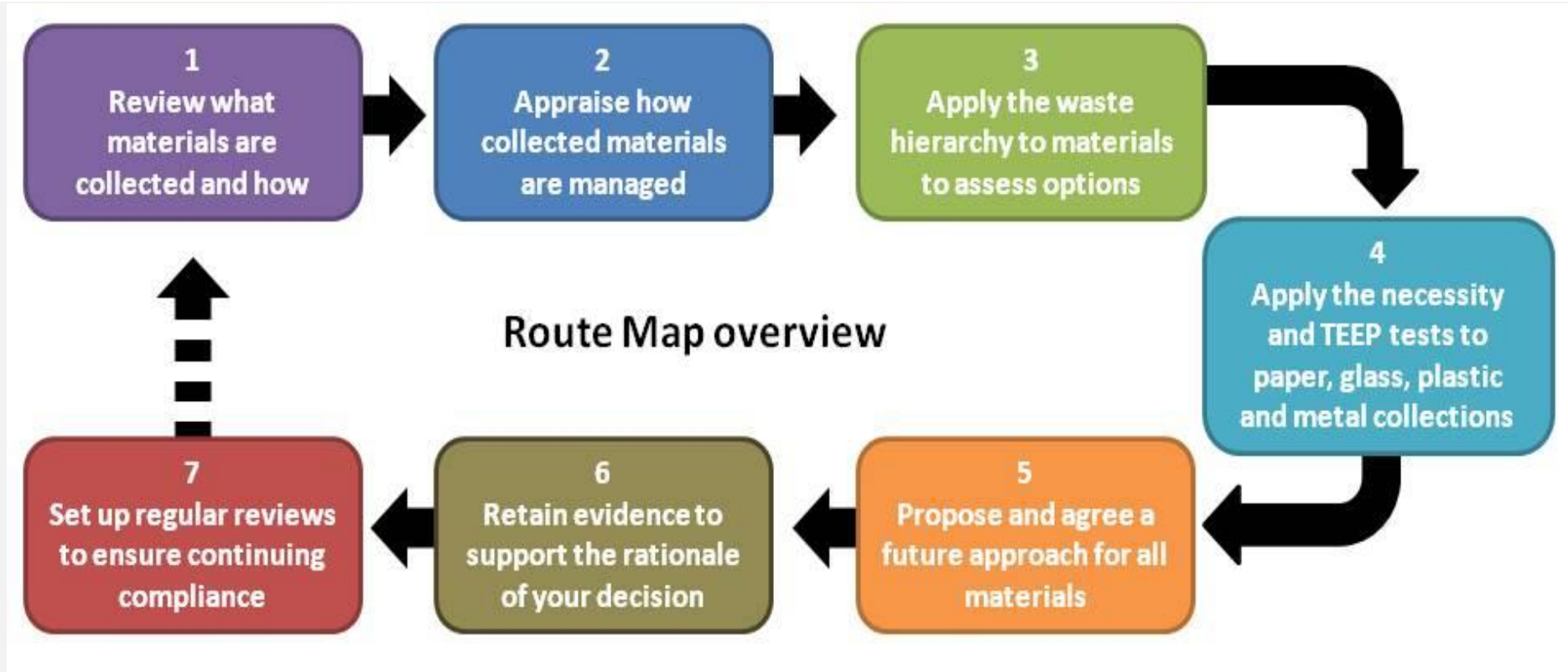
Source separated kerbside collection system was previously discounted by the Council



TEEP Route Map



WDR & RT TAGGART



Steps 1 and 2 - Background information

Step 3 - Covers regulation 17 for the waste hierarchy, therefore not included in the assessment.

Step 4 - Covers regulation 18 for source segregation tests (necessity / practicability tests).

Steps 5 to 7 - Post assessment, involving sign off, evidence retention and re-evaluation.

Glass Collection Options Assessed



WDR & RT TAGGART

To ascertain the most preferable option for the collection of mixed dry recyclables, the following options were assessed:

- Glass collected in bottle banks
- Glass not included in co-mingled collection but in a separate kerbside collection:
 - Either with separate vehicles
 - Or via a RCV with a glass pod
- Glass included in fully co-mingled collection along with other mixed dry recyclables



Assessment of Options



WDR & RT TAGGART

Each of the above options were scored against six criteria, each with equal weighting. The scoring for the options under each criteria is as below:

- 1 – Least Preferable
- 2 – Neutral Impact
- 3 – Most Preferable

As no option scored better than the fully co-mingled collection of glass, the most preferable option would be to operate the co-mingled collection of MDR including glass across the entirety of the Council

*Assumed bottle banks would result in glass in the (Newry) blue bin under a contract where this cannot be processed

Criteria	Fully Co-Mingled Collection	Separate Kerbside Collection	Bottle Bank Collection
Ability to divert further glass from the black bin	3	2	1
Contamination in co-mingled collection	3	2	1
Cost of collection service	2	1	3
Potential negative impact on recycling rates	3	2	1
Public perception and participation in the service	3	2	1
Quality of paper and card*	2	3	1
Total Score (/ 18)	16	12	8

Detailed Assessment – Quality of Recyclate



WDR & RT TAGGART

At present co-mingled MDR, including glass, approximately 57% of Council area

Evidence suggests that co-mingled recyclables are subject to a higher processing costs

WRAP Case Study ‘Aldridge plant’ Birmingham:

- **MRF which accepts glass co-mingled**
- **Produces marketable materials to paper mills in UK and Europe**
- **75% of the glass processed to ensure the glass cullet acceptable by re-processors**

www.letsrecycle.com, Re-Gen Waste Ltd:

- **Contract with High 5 Recycling Group**
- **95% of the glass processed by Re-Gen back to bottle**



Detailed Assessment – Cost of Service



WDR & RT TAGGART

Costs of Bottle Bank Operation

Item	Cost
Transition Costs	
Education	£30,000
Vehicles for attendants of bottle banks for cleaning / maintenance (2 Vehicles)	£60,000
Total Transition Cost	£90,000
Operational Costs	
Bottle bank contract	£0
Saving on MDR processing contract ¹	-£215,100
Staff for cleaning/maintenance of bottle banks (2No.)	£61,600
Potential additional costs due to increased residual waste ²	£223,700
Additional operating cost over and above existing service	£70,200

*Figure rounded to the nearest £100.

¹MDR processing cost based on contract for MDR without glass.

²Potential increase in residual tonnage in Newry and Mourne area equivalent to current Down composition (26%) glass. Therefore, 1,904 tonnes

Detailed Assessment – Cost of Service



WDR & RT TAGGART

Co-Mingled Collection with Separate Glass Collection

Item	Cost
Transition Costs	
Education	£30,000
5 glass collection vehicles (4 operational + 1 spare)	£550,000
1 glass box and lid per household ¹	£257,300
Total Transition Cost	£837,300
Annual Operational Costs	
Saving on MDR processing contract ²	-£215,100
Glass processing contract ³	£0
4 Vehicle drivers for separate collection vehicle ⁴	£123,300
8 Loaders , 2 per vehicle ⁵	£222,000
Vehicle maintenance ⁶	£12,000
Savings on residual waste disposal of glass ⁷	-£342,600
Additional operating cost over and above existing service	-£200,400

*Figure rounded to nearest £100

¹Based on 68,606 households

²MDR processing cost

³Assumed as zero value and zero processing costs.

⁴Council net cost of employee £30,836.

⁵Council net cost of employee £27,747.

⁶Council estimate of £3,000/year/vehicle.

⁷Based on the potential to divert 3,195 tonnes of glass from Down

Detailed Assessment – Cost of Service



WDR & RT TAGGART

Co-Mingled Collection with Separate Glass Collection Via Pod Vehicle (Implemented over Vehicle Replacement)

Item	Cost
Transition Costs	
Education	£30,000
Additional cost of glass pod when purchasing vehicles (13)	£325,000
Additional vehicles due to increased collection round time ¹ (4)	£740,000
Additional 7.5t vehicle for assisted lift collections (3)	£330,000
1 glass pod per household ²	£205,800
Total Transition Cost	£1,630,800
Annual Operational Costs	
Savings on MDR processing contract ³	-£215,100
Glass processing contract ⁴	£0
Additional staff costs due to increased collection round time ⁵	£280,600
Driver for assisted lift collections	£92,400
Vehicle maintenance ⁶	£57,000
Savings on residual waste disposal of glass ⁷	-£342,600
Additional operating cost over and above existing service	-£127,700

*Figure rounded to the nearest £100.

¹Collection round will take 25% longer due to two containers to empty, glass pod and bin. Based on 50% of crew time spent collecting bins. Therefore, a 25% increase in collection time is estimated to require 4 additional vehicles at a cost of £185,000.

²Based on 68,606 households.

³MDR processing cost based on contract for MDR without glass.

⁴Assumed as zero value and zero processing costs.

⁵Council net cost of driver £30,836. Council net cost of collection crew employee £27,747. Currently 13 rounds with 1 driver and 2 collection crew. Collection round will take 25% longer due to two containers to empty, glass pod and bin. Based on 50% of crew time spent collecting bins.

⁶Council estimate of £3k/year per vehicle for 7.5t and £12k for RCV

⁷Based on the potential to divert 3,195 tonnes of glass from Down

Detailed Assessment – Cost of Service



WDR & RT TAGGART

Co-Mingled Collection with Separate Glass Collection Via Pod Vehicle (Implemented Year 1)

Item	Cost
Transition Costs	
Education	£30,000
Additional cost of glass pod when purchasing vehicles ¹ (17)	£3,145,000
Additional 7.5t vehicle for assisted lift collections (3)	£330,000
1 glass pod per household ²	£205,800
Total Transition Cost	£3,710,800
Annual Operational Costs	
Savings on MDR processing contract ³	-£215,100
Glass processing contract ⁴	£0
Additional staff costs due to increased collection round time ⁵	£280,600
Drivers for assisted lift collections	£92,400
Vehicle maintenance ⁶	£57,000
Savings on residual waste disposal of glass ⁷	-£342,600
Additional operating cost over and above existing service	-£127,700

*Figure rounded to the nearest £100.

¹Collection round will take 25% longer due to two containers to empty, glass pod and bin. Based on 50% of crew time spent collecting bins. Therefore, a 25% increase in collection time is estimated to require 17 vehicles at a cost of £185,000.

²Based on 68,606 households.

³MDR processing cost based on contract for MDR without glass.

⁴Assumed as zero value and zero processing costs.

⁵Council net cost of driver £30,836. Council net cost of collection crew employee £27,747. Currently 13 rounds with 1 driver and 2 collection crew. It is considered that the collection round will take 25% longer due to two containers to empty, glass pod and bin. Based on 50% of crew time spent collecting bins.

⁶Council estimate of £3k/year per vehicle for 7.5t and £12k for RCV.

⁷Based on the potential to divert 3,195 tonnes of glass from Down.

Detailed Assessment – Cost of Service

Co-Mingled Collection Including Glass

Item	Cost
Transition Costs	
Education ¹	£15,000
Total Transition Cost	£15,000
Annual Operational Costs	
Increase in MDR processing contract ²	£79,000
Savings on residual waste disposal of glass ³	-£342,600
Additional operating cost over and above existing service	-£263,600

*Figure rounded to the nearest £100

¹Based on 68,606 households.

²Potential MDR contract rate of £55/t)

³Based on the potential to divert 3,195 tonnes of glass from Down

Detailed Assessment – Cost of Service



WDR & RT TAGGART

Comparison of Collection Options Transition and Operational Costs

Option	Bottle Banks	Co-Mingled with Separate Glass Vehicle	Co-Mingled with Separate Glass Via Pod Vehicle - Over 7 Years	Co-Mingled with Separate Glass Via Pod – Year 1	Co-Mingled Including Glass
Transition Costs	£90,000	£837,300	£1,630,800	£3,710,800	£15,000
Additional Operating Cost	£70,200	-£200,400	-£127,700	-£127,700	-£263,600*

*A reduction in the current co-mingled MDR including glass processing cost, due to economies of scale and greater tonnage, would result in significant annual savings. Savings could be in the order of £10/t+

Detailed Assessment – Impact on Recycling Rates



WDR & RT TAGGART

- **Increased effort to segregate waste is likely to result in poorer participation or miss-use of service**
- **Removal of glass from the blue bin in Newry & Mourne could result in glass in the black bin, reducing recycling rate**
- **WRAP Report ‘Household Waste Recycling Centre Guide’ 2012, areas of social deprivation, increased economic pressure results in recycling receiving a low priority. Therefore, greater efforts are required to change the public’s participation of kerbside segregation**
- **26.7% of the waste analysed for the legacy Down area was glass**
- **Glass volume in Down black bin potentially due to not having a kerbside collection of glass**
- **Potential that 4,500 tonnes of glass in legacy Down black bin**
- **By comparison 7.8% of the black bin in Newry & Mourne was glass**
- **Potential to significantly increase recycling rates**

Detailed Assessment – Glass Capture Rate



WDR & RT TAGGART

2016/17 Validated Figures

Newry, Mourne and Down District Council glass capture rate 34%

Northern Ireland average 39%

Mid Ulster District Council glass capture rate 53% (co-mingled collection including glass)

2014/15 Validated Figures

Magherafelt District Council 57%

Newry and Mourne District Council 51%

Dungannon and South Tyrone Borough Council 44%

Cookstown District Council 44%

Northern Ireland Average 41%

All the above had co-mingled collections including glass



Detailed Assessment – Public Perception



WDR & RT TAGGART

- The convenience of a recycling service is key to the success of diverting recyclables from the black bin
- Cambridge City Council, Cambridge Council (2012) - fully co-mingled MDR collection service
 - Overall participation rate of 91%
 - Most common materials recycled were paper (36%), glass (31%) and card (15%)
 - Co-mingled collection of glass allowed a capture rate of 89%
- NM&D District Council currently have a co-mingled collection including glass to 57% of households
- This presents the Council with an issue as a greater kerbside service provided to the majority of households
- If glass was removed from the blue bin in Newry & Mourne this could receive resistance from householders and could ultimately have a negative impact on participation in the recycling scheme
- This could result in glass not being presented for separate collection, either ending up in the black bin or being deposited in the blue bin, due to historic behaviours. The latter would result in non-contract material in the blue bin with associated additional treatment costs

TEEP Outcomes



WDR & RT TAGGART

Collection System	Technical Practicability	Environmental Practicability	Economic Practicability
Household kerbside collection system			
Co-mingled with bottle banks	✓	X	X
Co-mingled collection with separate glass collection	X	X	X
Co-mingled collection with separate glass collection via pod vehicle	X	✓	X
Fully co-mingled kerbside collection	✓	✓	✓

Preferred Option



WDR & RT TAGGART

Co-mingled collection of MDR including glass

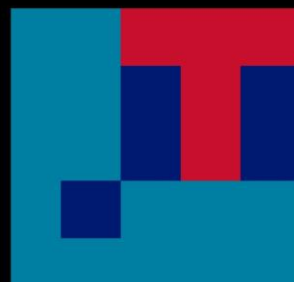
Assessed as having:

- Little to no transition costs
- Low operational cost
- Ensures consistency of service to the majority of households
- Has the potential to increase recycling rates
- Potential for reduced contract rate therefore annual saving
- Unsure if separate glass collection would deliver annual savings due to
 - Limited container capacity
 - Large transition costs in year 1
 - Potential vehicle reliability issues – additional hydraulics





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