

**TO: JOINT WASTE DISPOSAL BOARD**  
**12<sup>th</sup> October 2018**

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**PROGRESS REPORT**  
**Report of the re3 Strategic Waste Manager**

**1 INTRODUCTION**

- 1.1 The purpose of this report is to brief the re3 Joint Waste Disposal Board on progress in the delivery of the re3 Joint Waste PFI Contract.

**2 RECOMMENDATION**

- 2.1 That Members note the contents of this report
- 2.2 That Members support the planned paint hardening trial and seek a further report to the JWDB in January 2018 as described at 5.14.
- 2.3 That Members agree for the second batch of 6,000 bags of re3Grow compost to be produced using the same method as utilised for the first.
- 2.4 That Members receive a further report on research into the requirements and potential benefits of a reuse shop as described at 6.18.
- 2.5 That Members agree the proposed times of closure for the Household Waste Recycling Centres over Christmas and New Year 2018/19 as described at 6.30.

**3 ALTERNATIVE OPTIONS CONSIDERED**

- 3.1 The changes in service contained within this report describe, and represent, alternative options to existing systems.

**4 REASONS FOR RECOMMENDATION**

- 4.1 The purpose of this report is to brief Members in relation to progress in delivery of the re3 Joint Waste PFI Contract.

**5 PROGRESS IN RELATION TO WASTE MANAGEMENT**

**Wood Recycling**

- 5.1 Objective G of the re3 strategy 2018-20 states that the re3 partnership will focus on forms of collection and treatment that will have most positive impact on performance.
- 5.2 At the re3 Board Meeting of July 2018 Officers undertook to complete an assessment of key HWRC wastes to assess whether there are more cost effective recycling options available.
- 5.3 Although it had been recycled in the past, increased costs meant that wood from the re3 recycling centres has more recently been sent to a biomass plant and does not contribute to the Councils' overall recycling rate. Officers reported to the JWDB in July 2017 that a break clause had been incorporated in the contract with our current wood reprocessor, to enable the Partnership to once again consider a recycling option. Officers asked FCC to review the costs involved in recycling this material.

- 5.4 We have identified two principal options. The additional cost and the impact on the Partnership recycling rate is set out in Appendix One. Based on forecast tonnages for 2018/19, the preferred option (Option 2 in Appendix One) would see an increase in recycling rate for the full year of c3.69% based on a 90% wood recycling process.
- 5.5 In order to take full advantage of the break clause, Officers previously advised that a decision was required before 1<sup>st</sup> October 2018. The Contractor now assures us that this is not necessary, and at the time of writing this report, Officers are working with the Contractor and the prospective reprocessors to finalise and validate potential outcomes including likely haulage implications and overall impact on recycling.
- 5.6 Each option entails an increase in the current cost of processing of either £11,000 or £26,000 over a full year. However, as discussed from 5.7 onwards, below, savings in relation to the treatment of paint are expected to offset either cost increase. As a result, officers propose to approve the change on behalf of the re3 partnership.

### **Paint Reuse**

- 5.7 The re3 Partnership currently uses two separate approaches for the treatment of waste paint received at its recycling centres.
- 5.8 Paint delivered to re3 by residents is currently managed as follows:
1. Firstly, Green Machine, a local Community Interest Company in Bracknell, takes away water-based paint and remixes it. Remixing paints, of the same colour and constitution, produces a perfectly good substitute to new paint. Green Machine makes remixed paint available at a competitive cost of £1.50 per litre, principally to local residents, community groups and other Community RePaint Schemes.
  2. Secondly, all other paint is sent to our Contractor's facility at Blackburn Meadows in Sheffield where it is treated according to type. Waterbased paint is hardened and disposed of while other paints (including stains and wood treatments) are treated in accordance with legislative requirements.
- 5.9 In order to seek reductions in the cost of managing waste paint, re3 Officers have undertaken a review of the practices and approaches of other local authorities. This reveals that some Councils ask residents to pre-solidify their unwanted water-based paints so that it can be disposed of directly, rather than being treated off-site.
- 5.10 The cost for re3 to landfill all water based paint directly in 2018/19 would be £47,000. This would therefore result in a significant saving of just over £100,000 against the total current cost of managing waste paint.
- 5.11 However, sending all waste paint to landfill would undermine the local reuse of remixed paint by Green Machine. In order to enable the Partnership to continue to support the Green Machine Repaint scheme, Officers have proposed that the Contractor could harden the paints at the recycling centres, once Green Machine have taken any paints they can reuse. This would allow both a financial saving and the continuation of the local reuse contribution of Green Machine.
- 5.12 Following the submission of a Contract Notice of Change, FCC have agreed a six month trial with the Environment Agency (EA) enabling them to harden paint as described at 5.11. During this trial, FCC will establish the most effective process for hardening paints and confirm the costs of this operation.

- 5.13 At the end of the six month trial, the Partnership is likely to be required to apply for a permit amendment to one or both of the site licences in order to enable the practice to continue.
- 5.14 It is recommended that Members support the planned trial and seek a further report to the JWDB in January 2018, on the initial findings from the trial. It is proposed that this update could provide further detail regarding two main options. The first would relate to the continued use of Green Machine and the hardening of remaining water based paints by FCC. The second could look to maximise savings by asking residents to harden their water-based paints before bringing them to the recycling centres. This second report may be unnecessary if Green Machine can operate effectively in relation to the first.
- 5.15 As a result, Officers have also begun exploring the possibility of selling remixed paint at the re3 Recycling Centres. Members will recall that Officers drafted a Service Level Agreement (SLA) in 2017, setting out the working relationship between the re3 Partnership and Green Machine. The SLA was designed to help maximise local paint reuse.
- 5.16 Unfortunately, paint sales have not increased as was hoped, and Green Machine have not noticeably found new demand for the remixed paint they produce. Through selling paint at the re3 Recycling Centres, it may be possible to increase turnover of re-mixed paint.
- 5.17 Within the report proposed at 5.14 officers will keep Members informed in relation to any progress made in discussions with Green Machine and Trading Standards on this subject.

### **re3Grow Compost**

- 5.18 At the July 2018 Board Meeting, Officers advised that sales of re3Grow compost had gone well and that they would liaise with the Contractor about the sale of a larger batch in 2019.
- 5.19 Members will recall that the FCC Sutton Courtenay site only held a PAS100 certificate for 40mm compost when compost was ordered in 2018. In order to produce compost suitable for household use, the re3 material was therefore sent to a site in Peterborough for further processing into a 10mm product.
- 5.20 Officers have recently been advised that Sutton Courtenay has now obtained PAS100 status for a 10mm product. As such the process could be completed more locally in 2019 if an appropriate shredder was hired.
- 5.21 Prices for each of the options has been received. In order to maintain a similar price for the public as was offered in 2018, it is recommended that the former option be utilised again in 2019.

### **Plastics**

- 5.22 In 2017 the re3 Partnership approved and invested in changes to the re3 facilities to enable a wider range of plastics to be processed.
- 5.23 The new arrangements commenced in February 2018 and
- 5.24 Overall performance of the re3 MRF is detailed below in a year-on-year comparison based on the changes commencing in February 2018. The comparison is as follows:

Material	Mar-Aug 2017	Mar-Aug 2018	Movement
News & Pams	1,847	2,193	19%
Mixed Paper	4,985	3,882	-22%
Card	1,216	1,650	36%
Aluminium Cans	158	191	21%
Steel Cans	509	533	5%
PTT/ PET Jazz	135	116	-15%
PET Clear	394	717	82%
HDPE Jazz	54	89	63%
HDPE Clear	234	256	9%

- 5.25 Fibre-based packaging and consumables (such as paper and card) generally appear to be declining in use. While that explains some of the reduction in the 'Mixed Paper' category, it is also partly caused by improvements in MRF performance for 'News & Pams' and 'Card'. This is as a direct result of the changes to the re3 MRF undertaken last year.
- 5.26 Plastics are another source of good news, following the amendments to the MRF and the commencement of the new processing arrangements in February 2018. Peculiarly, it looks like the 'PTT/PET Jazz' category has fallen year on year. However, it is actually that the MRF is better placed to sort each type of plastic into its correct category. As an example, we are able to recycle 'PET Clear' bottles and trays into the correct category rather than into the mixed 'PTT/PET Jazz' category.
- 5.27 For clarity, 'Jazz' is the industry term used for the wide variety of other colours of plastic used in packaging.
- 5.28 All in all, it is really good news that the sorting capacity of the MRF is improving over time. That helps the re3 Partnership to comply with exacting quality standards.

## 6 HOUSEHOLD WASTE RECYCLING CENTRES

### User Satisfaction

- 6.1 The annual User Satisfaction Survey for the re3 Recycling Centres was conducted, as in previous years, in September 2018.
- 6.2 For Longshot Lane in Bracknell, overall satisfaction with the site rose by 1% from 97% in 2017 to 98% in 2018. In other categories: 91% of those surveyed said meet and greet staff were good or very good, 74% said they were satisfied with levels of queuing and 81% said they were satisfied with the level of site cleanliness.
- 6.3 For Smallmead in Reading, overall satisfaction fell with the site rose by 1% from 98% in 2017 to 99% in 2018. In other categories: 95% of those surveyed said meet and greet staff were good or very good, 85% were satisfied with levels of queuing and 98% said they were satisfied with the level of site cleanliness.
- 6.4 The patronage analysis indicates that 96% of users at Longshot Lane were resident in the re3 area, with the remaining 4% giving illegitimate or unknown postcodes. Only four residents (<1%) gave postcodes outside the re3 area. At Smallmead, 94% of users were re3 residents, with 8 users (1%) coming from outside the re3 area. All

other users gave unknown or illegitimate postcodes. These results illustrate the relative success with which residency checks continue to be implemented at the sites.

### **HWRC Project**

- 6.5 At the Board meeting of July 2018, Officers undertook to prepare options for the further development of the services at the two Recycling Centres. One part of the project related to the capacity and utilisation of the sites. The purpose of this section was to identify options to manage potential under or over utilisation of the facilities in line with Objectives F and L of the re3 Strategy.
- 6.6 Members will recall that although total waste arisings are below expected, the balance of waste management has been moved towards waste being received at the Recycling Centres. In addition actual numbers of households in the re3 area exceed those originally expected at the time of contract negotiation.
- 6.7 Members requested that data and demographic information be reported to the Board in October and population data taken from the Office of National Statistics is presented in Appendix Two.
- 6.8 Advice was sought from colleagues in the Bracknell Forest planning and transport team regarding assessment of when the sites might reach capacity, taking into account the increasing population and waste growth and it was recommended that that advice be sought from Consultants.
- 6.9 A local consultancy subsequently instructed that it would be possible to calculate the capacity of roads junctions in close proximity to the recycling centres. However it was recommended that the capacity of the sites themselves would be best assessed through traffic count data and site observations of queues.
- 6.10 A traffic counter installed at both re3 recycling centres has allowed daily traffic count to be monitored over the last few years. Prior to this, traffic count data was collected during the course of each annual User Satisfaction Survey. This data has been adjusted based on the results of the annual patronage analysis to reflect numbers of re3 users and scaled up to represent a full year where appropriate.
- 6.11 The data (shown in Graph 2, below) shows that number of visitors from re3 residents has fallen over the last few years, despite an increase in population. As such the re3 facilities are not currently believed to be at capacity.
- 6.12 Officers will continue to monitor visitor numbers to the HWRC facilities and keep Members informed.

### **Reuse Shops**

- 6.13 Objective F of the re3 Strategy 2018-2020 states that “The re3 partnership will continue to work with its waste management Contractor to maximise utilisation of the re3 facilities where that has a positive financial or performance outcome and no detriment to re3 residents or re3 services”. Included within this objective was the potential, where capacity is available, for more re-use activities at the re3 Household Waste Recycling Centres.
- 6.14 A number of Recycling Centres feed materials into a reuse shop, either located at the HWRC itself, or elsewhere.

- 6.15 Officers visited a small number of reuse shops (across three authority areas) to see how they operate and investigate the benefits to the authorities and the local community.
- 6.16 In each case the impact on recycling rate was stated to be small or unknown. It is believed that this is because many of the items sold, are also capable of being recycled. Each of the reuse shops visited was operated by a charity. None of the Councils involved were benefiting from any income. It was advised that the benefits to the Councils relate to reduced disposal costs and corporate social responsibility reasons.
- 6.17 The re3 Contractor, however, believes that a three way split of profit may be possible. As such, it may be possible to operate a re-use outlet in a manner which helps to reduce the net cost of waste for the re3 Partnership and residents.
- 6.18 Members are recommended to receive a further report on research into the requirements and potential benefits of a reuse shop. This would include the advice of internal legal advisors as well as consideration of the space and access conditions required.

#### **Commercial Vehicle Permit Webform**

- 6.19 Members will recall that a commercial and commercial-type vehicle permit scheme was introduced at the re3 recycling centres in September 2016. Residents wishing to use a vehicle such as a van, pick-up or sign-written vehicle to access the recycling centres must apply for a permit before every visit to the re3 recycling centres.
- 6.20 The purpose of the permit scheme is to limit the ability of businesses to illegally deposit trades waste at the taxpayers' expense through identifying where high level of usage may indicate activity more like that of a trader than a householder.
- 6.21 At the Board Meeting of October 2017, Members were advised that Officers were working with IT colleagues to add an address look-up function to the re3 commercial vehicle permit Webform.
- 6.22 The addition of the address look-up function will ensure that non-residents are unable to apply for permits using their genuine address. It will also ensure that addresses are entered in a consistent format, making it easier to identify regular users.
- 6.23 An address look-up function has now been developed using Ordnance Survey data and is currently being tested and finalised by IT Colleagues. It is anticipated that the addition will be complete and live during the first half of October.
- 6.24 The Ordnance Survey data will update every six weeks. Arrangements have been made with FCC to ensure that residents living in new addresses (which have not yet added to the database), can have their address checked manually. In these cases, residents will be asked to complete an application form over the phone, and check and sign it when they arrive at the recycling centre with their waste.
- 6.25 Additional improvements are also being progressed and are detailed below.
- 6.26 In October 2017, Officers reported that a significant proportion of commercial vehicle users are utilising permits on the same day as they apply; rather than at least 24 hours in advance. This can have impacts on site including slowing access for other users. The preferred response to this unforeseen pattern of usage was to increase the frequency at which data from commercial vehicle permit applications is uploaded

to the FCC database. Colleagues involved in Information Technology (IT) at FCC identified a potential solution via which the Contractor's database would be populated directly with the application details supplied to the Webform. Officers are continuing to work with IT colleagues to implement the proposed amendment.

- 6.27 Letters reminding householders that the Recycling Centres are for the deposit of waste from their household have been sent to frequent users. Some users continue to utilise permits after the letters have been sent and the follow up process requires a significant amount of Officer time. Officers are subsequently investigating ways in which the process could become less labour intensive whilst continuing to deliver the expected savings.

### **Household Waste Recycling Centres (HWRC) Opening Hours (Christmas and New Year 2018/19)**

- 6.28 It is proposed that the re3 HWRCs adopt the same opening hours over the Christmas and New Year period as in previous years.
- 6.29 Confirming the opening hours now helps the re3 Project Team, the Contractor and the individual re3 Councils communicate the service arrangements to residents.
- 6.30 Subject to the agreement of the re3 Board, the opening hours would therefore be as follows:

Christmas Eve (24<sup>th</sup> December) – 8am to 4pm

Christmas Day (25<sup>th</sup> December) – CLOSED

Boxing Day (26<sup>th</sup> December) – CLOSED

New Year's Day (1<sup>st</sup> January ) – CLOSED

On all other days, throughout December and January, the sites will be open as normal for the time of year – 8am to 6pm.

## **7 RESOURCES AND WASTE STRATEGY 2018 UPDATE**

- 7.1 Members received an update on Government's forthcoming Resources and Waste Strategy (RWS) at the last re3 Board meeting in July 2018. That information remains relevant. While the precise content of the RWS remains confidential, this further update builds on the earlier briefing in some specific areas, based on commentary from colleagues at the Waste Infrastructure Delivery Programme (WIDP) within Defra. The RWS is still expected before the end of 2018.
- 7.2 The EU Circular Economy Package (CEP) is likely to be adopted and retained within the UK. The package includes a target to recycle and reuse 55% of waste by 2025. Officers were told that there is potential for the target to be set on a graduated basis in order that the average UK recycling and reuse rate reached 55%.
- 7.3 The theme of extended producer responsibility is expected to feature in the RWS. Many people will see a logic, or fairness, in some obligations residing with those entities that play a key role in the creation of products which ultimately become 'waste'. At present, household waste is funded through Council Tax with some marginal costs (such as the management of soil and rubble, or the collection of green waste) paid for directly.
- 7.4 It is believed that the concept of 'full cost recovery' is a key element of Government

thinking. This also follows-on from similar directions included within the CEP. It is reported that at present, UK producers bear 10-20% of the cost of dealing with the packaging they place in the market. The CEP targets a level of 80% cost recovery from producers.

- 7.5 For local government, it will be important to understand how existing facilities, and associated legal commitments, will play a role if some waste streams are diverted through new, producer-directed, channels. Equally, how will existing statutory performance continue to be measured in future if local government is not held responsible for some types of waste.
- 7.6 Taxation, alongside extended producer responsibility, may also feature within the RWS. It is no surprise that HM Treasury is apparently considering the merits of an incineration tax. It will be important for Government to be quite precise in setting the conditions of such a tax if, as is being reported over recent weeks, it is truly a response to concerns over plastics.
- 7.7 There is likely to be some encouragement, but not a specific requirement, for local government in relation to food waste. Indeed there may be no 'hard' targets at all.

## **8 COMMUNICATIONS**

- 8.1 The re3 Strategy objective to achieve 50% recycling and reuse rate, through raising awareness of recycling with a focus on improving recycling of plastic materials was reflected in the media relations activity with the local press ahead of Recycle Week. The re3 Partnership invited local media for a briefing and tour of the Material Recycling Facility on 18<sup>th</sup> September. The visit aimed to increase resident's knowledge and interest in recycling, to provide insights into the recycling process and dispel myths. Following this activity, recycling in re3 area received incredibly positive coverage through BBC Radio Berkshire, ITV News Meridian, The Wokingham Paper and the Whitley Pump blog.
- 8.2 Alongside working with local media, the re3 Councils and Contractor agreed to work with David Shukman, BBC Science Editor and offered access to the Material Recycling Facility, providing insights into sorting process and plastic recycling, placing a particular focus on the enhancement of the kerbside recycling across re3. The re3 Partnership also recruited three residents who agreed to share their experience of plastic recycling. The programme received national coverage; the video reports were shown multiple times including during BBC Breakfast, BBC News at One, and BBC News at Six and social media on 21<sup>st</sup> October. The interviews with residents, re3 Strategic Manager and Contractor were additionally aired on BBC Radio 4. This widespread coverage placed the re3 Councils, its services and Material Recycling Facility in very favourable position in comparison to other local authorities and hopefully had a direct impact on reassuring re3 residents about the importance of plastic recycling locally.
- 8.3 The re3 Strategy objective to achieve 50% recycling and reuse rate, through raising awareness and bringing to the residents' attention the recycling process was further reflected in the organised public tours to the Material Recycling Facility (MRF). Public tours were organised during Recycle Week, 24<sup>th</sup> – 30<sup>th</sup> September and facilitated by re3 Officers with the valuable support of the Contractor. In total five guided tours were organised, across two weekday evenings, two days and a Saturday morning, allowing 75 people to attend. Residents visiting the MRF facility were shown a presentation that helped them to understand the importance of recycling and the

sorting process. Visitors were provided with a practical knowledge about items that can be recycled at the mixed recycling containers, were given access to range of literature. All tours also included Q&A part. Tours received a very high interest and all spaces were fully booked. On top of registered residents, over 60 people have expressed their interests and joined waiting lists. Social media insights allow us to conclude that over 11,000 people were aware of the event with 500 registration page views noted. Following the tours, feedback was very positive, with residents expressing their gratitude for offering such visits and explaining that the tours helped them to understand recycling process even more and gave them further reassurance about recycling in the re3 area. Introducing public tours as a regular activity may be considered.

- 8.4 During Recycle Week, re3 has launched a new App called re3cyclopedia. The app aims to help re3 residents to recycle more and should contribute to reducing contamination and confusion. The app provides information about the nearest bottle and textiles banks as well as information about the re3 households recycling centres. Residents can use the app to apply for the commercial vehicle permits or to easily access Councils services such as: renewal of garden waste collection scheme, order bulky waste collection, incentive scheme (when applicable), check collection dates for their bins or report missed bins. re3cyclopedia can be downloaded by all residents from App Store or Google Play Store. Within the first day the app was downloaded by almost 300 residents and 1,700 waste items searches were made.
- 8.5 In addition to the direct engagement with residents during Recycle Week, re3 took part and supported WRAP's national 'Recycle Now' campaign - "*Recycle. We Do. Because it matters*" on social media. All campaign assets were redesigned by the re3 Marketing and Communications Officer to ensure they were locally relevant for the respective re3 Councils. This provided the respective teams of re3 Councils additional exposure on social media. Messages focused on making recycling a social norm and included practical tips on how to recycle more from around the home. The Social media campaign during Recycle Week was also used to promote the new re3cyclopedia app.
- 8.6 re3 Marketing and Communications Officer has planned an advertising campaign on digital screens available in Reading buses. Adverts will focus on increasing awareness of recycling and promoting the re3cyclopedia app. Similar adverts will be displayed on the digital screens within Reading Borough Councils' premises, on the digital screen near Reading Station as well as used in the Council magazines issued by Bracknell Forest and Wokingham Borough during winter edition.
- 8.7 The re3 Strategy objective to increase the glass recycling rate and usage of bottle banks is reflected in the glass vehicle livery displayed on the new glass recycling vehicles. Livery promotes accessibility of bottle banks and reinforcing "Keep the cap on" message. The livery also features new names of re3 glass recycling vehicles: 'Jar Jar Clinks' and 'Kate Binslet'. The information about delivery of glass recycling trucks was shared via social media and covered by the local media. TV footage including interview with Lead Councillors was featured in the BBC South TV and BBC Radio Berkshire.
- 8.8 The re3 Marketing and Communications Officer is preparing to evaluate the Lotta Bottle Campaign that is due to be completed by mid-October and winners should be notified by mid-November. Bottle bank data shows 4.35% increase in tonnages of collected glass bottles and jars across re3 from the previous year.

- 8.9 The re3 Strategy objective to reduce food waste in the re3 area was featured in the advertising campaign “Back to School” included in the Primary Times magazine that is being delivered to each school in the Berkshire area. The message to residents was built using data that highlights the scale of food currently being wasted by re3 households.
- 8.10 The re3 Marketing and Communications Officer has attended meetings with Wokingham Borough Council team and WRAP to provide communications support that will help effectively introduce a food waste collection in Wokingham Borough.
- 8.11 Increased social media activity has resulted in a 260% increase of followers on Facebook page since 1st January 2018 (from 460 to 1220). The re3 engagement rate is higher than comparable social media pages. Although Facebook reach varies, last month re3 effectively reached 16,000 residents.
- 8.12 The re3 Marketing and Communications Officer and Contractor are working together to deliver changes to the re3 website. A new development team has been chosen by Contractor and a new, refreshed, website should be completed by the end of Q1 of 2019.
- 8.13 The re3 team are now preparing communications activities for the upcoming months. This includes: Love Food Hate Waste, “Chill the Fridge Out” campaign that focuses on helping people set the right temperature of their fridge to reduce food waste; re3 is also planning festive communications activities, that will focus on foil recycling. This campaign is planned to be co-founded and delivered in cooperation with Alupro organisation.

## **9 ADVICE RECEIVED FROM ADMINISTERING AUTHORITY**

### Head of Legal Services

- 9.1 None for this report.

### Corporate Finance Business Partner

- 9.2 None for this report.

### Equalities Impact Assessment

- 9.3 None.

### Strategic Risk Management Issues

- 9.4.1 None

## **10 CONSULTATION**

### 10.1 Principal Groups Consulted

Not applicable.

### 10.2 Method of Consultation

Not applicable.

10.3 Representations Received

Not applicable.

Background Papers

None

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Appendix One – Wood Prices

Wood is currently sent to a Biomass (energy generation) process as a preferable treatment to landfill. As part of the strategic development of re3 services, officers have worked with the Contractor to identify potential alternative outlets for wood, ideally recycling. This was initially reported as likely to entail additional costs. That has proved to be the case, though not to the extent originally thought. Furthermore, it is certainly still far cheaper, and more environmentally preferable, to sending the wood to be disposed of via landfill.

<b>Key Headings</b>	<b>Option 1</b>	<b>Option 2</b>
Tonnage (2018/19 prediction)	7,662	7,662
Disposal Route	50% to 75% Recycling	90% Recycling
Disposal Cost p/t	-£59.19	-£57.86
Annual Costs	-£453,513	-£443,301
Variance to current cost (-Additional)	-£53,653	-£43,440

Estimated rate of recycling (%):	<b>50%</b>	<b>90%</b>
Half year Impact on re3 (Oct-March)	0.78	1.41
Full year Impact on re3	2.05	3.69
Cost per 1% increase in recycling rate	-£26,172.27	-£11,772

Appendix Two – re3 Population and HWRC Usage



