



INFORMATION BULLETIN

**Issue No. 39
January 2018**

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RESOURCE RECOVERY FACILITY UPDATE REPORT	
File No:	WST/13-07
Attachment/s:	Nil
Date:	8 January 2018
Prepared by:	Acting Director Corporate Services

This report presents a summary of activities that have taken place in the reporting period covering 28 November 2017 to 8 January 2018.

OPERATIONAL MATTERS

OPERATIONAL INFORMATION

On Monday 13th November the RRF commenced a one-week scheduled shutdown to undertake maintenance activities and housekeeping across the plant.

Waste Delivery

Waste Delivery Summary for Reporting Period

MONTH	SCHEDULED TONNES	DELIVERED TONNES	DIFFERENCE TONNES
November 2017	6,800	6,928	124
December 2017	8,400	8,504	104

For the 9th Contract Year, for the period to 31 December 2018, the RRF was 4,258 tonnes ahead of schedule as a result of additional throughput at the plant.

The RRF is operating as anticipated in the Resource Recovery Facility Agreement (RRFA), with average availability of 106% over the past 12 months.

On a monthly basis, Additional Tonnes (those tonnes greater than the monthly scheduled tonnes) only incur the Variable Operating Cost charge, but not the Capital Cost or Fixed Operating Cost charges.

Unavailable Tonnes (those tonnes less than the monthly scheduled tonnes) are not paid for unless:

- Within the Contract Year there is a positive balance of Additional Tonnes, these Additional Tonnes can be off-set against the Unavailable Tonnes. In this case, the off-set Additional Tonnes incur the full gate fee cost less the Variable Operating Cost (which has already been paid on the Additional Tonnes); or
- If the RRF Availability for a month is less than 92% of the monthly Scheduled Tonnes and there are no accumulated Additional Tonnes remaining to be off-set, then the MRC is required to pay the Capital Cost on all Unavailable Tonnes up to 92% of the monthly Scheduled Tonnes.

At the end of the Contract Year, if 100,000 tonnes of waste have been delivered to the RRF then the above “overs and unders” system should balance out.

The exception to the above is the tonnes not processed during the composter replacement.

The MRC entered into a standstill deed with BioVision which deals with the operations of the plant during this period. The tonnes scheduled for processing but not processed during the shutdown have been recorded as Accrued Tonnes. The MRC has already paid the capital cost component of the RRF Gate Fee in relation to these tonnes and so the Accrued Tonnes will be processed for the MRC at the end of the RRFA contract with the MRC only have to pay the fixed and variable components of the RRF Gate Fee.

Waste Diversion

Waste Diversion for the past six months (July 2017 to December 2017) was 54.2% with a Waste Diversion Target of 51.3%.

Community Complaints

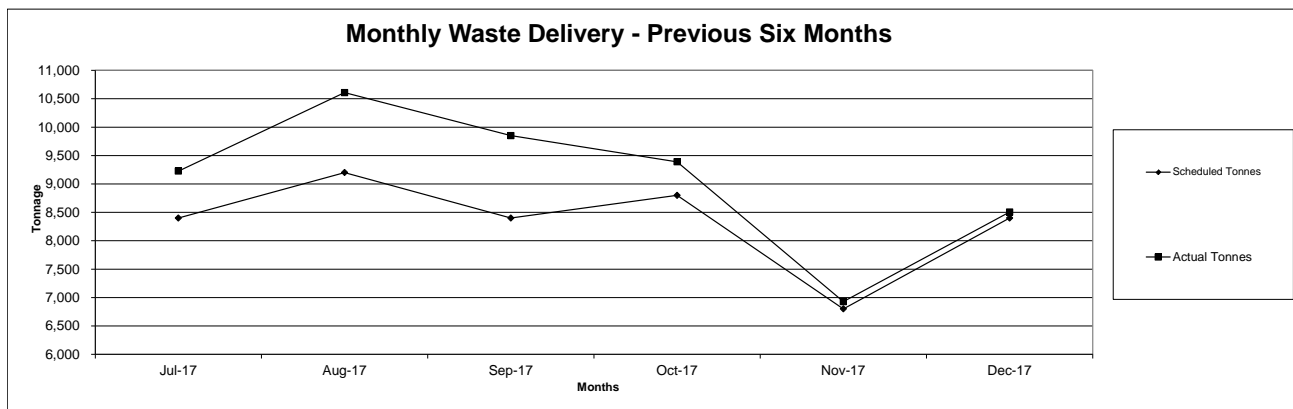
BioVision last met with its community stakeholder group on 30 November 2015 and no serious issues were raised. BioVision is continuing engagement with the selected key stakeholders, in particular the Banksia Grove development and the Wanneroo Golf Course.

COMMUNITY COMPLAINTS SUMMARY FOR THE REPORTING PERIOD

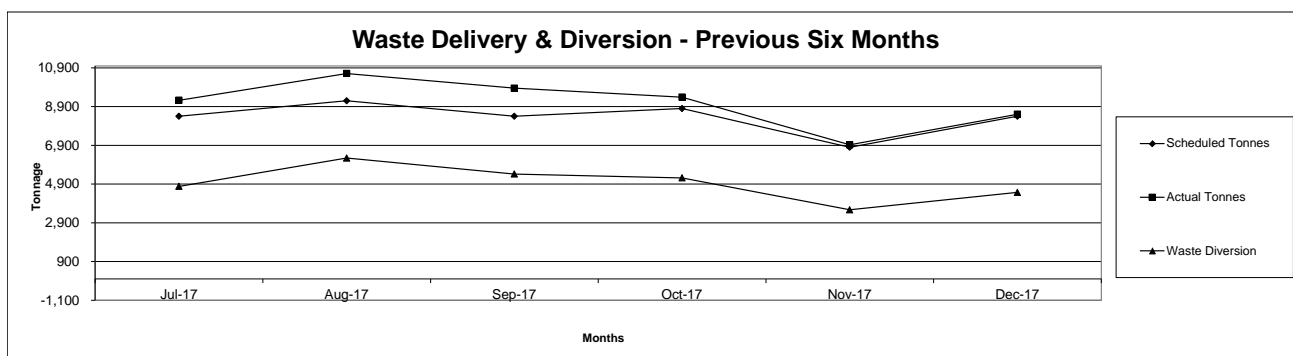
Date	Complaint	From	Outcome
Nil	No complaints were received.	Nil	Nil

The graphs below provide data up to **31 December 2017**.

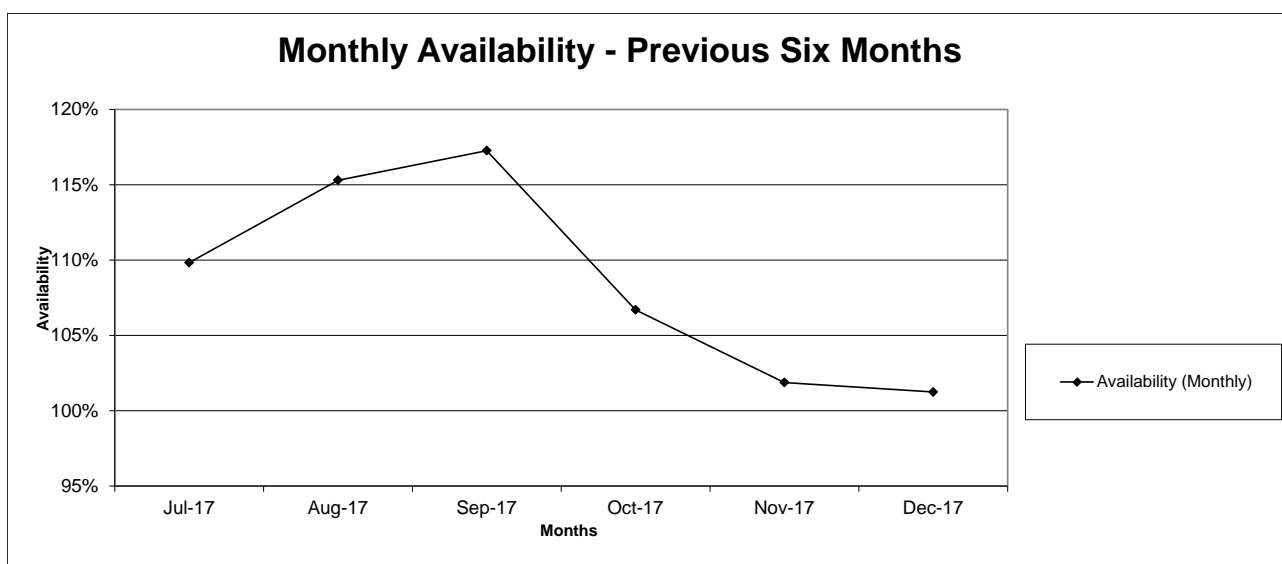
Graph No. 1 – Monthly Waste Delivery – Previous Six Months

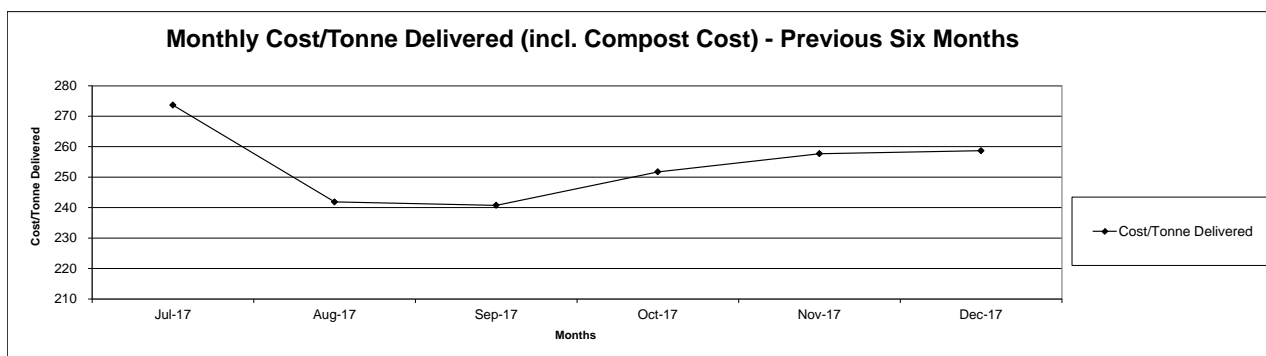
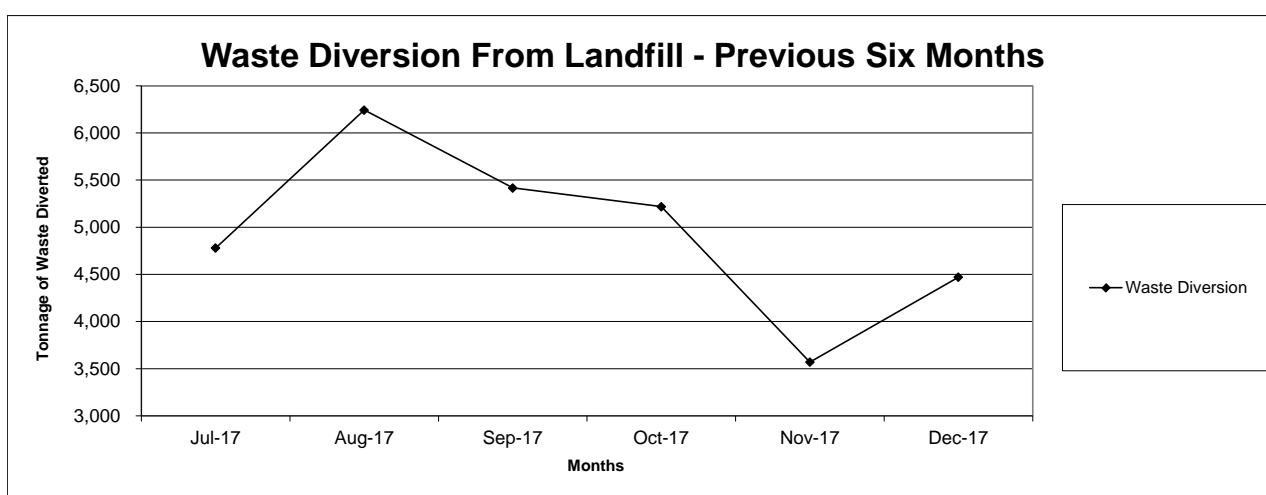


Graph No. 2 – Waste Delivery & Diversion – Previous Six Months



Graph No. 3 – Monthly Availability – Previous Six Months



Graph No. 4 – Monthly Cost/tonne Delivered (incl. Compost Cost) – Previous Six Months**Graph No. 5 – Waste Diversion from Landfill – Previous Six Months**

Performance Indicators

KPI's as per the RRFA are as follows:

Table No. 1 – KPI Summary (to 31 December 2017)

KPI	Target	Previous 6 Months	Nov	Dec
Availability*	95%	108.7%	102%	101%
Environmental Standard - Number of Breaches	0	0	0	0
Waste Diversion	51.3%	54.2%	51.5%	52.6%
Quality of Compost - Number of Breaches**	0	2	1	0
Quantity of Recyclable Packaging ***	1.2%	1.1%	0.9%	1.0%
Health and Safety - Number of LTI's	0	0	0	0
Community Acceptance - Number of Complaints ****	0	0	0	0
Project Culture - PAG Chairperson Score	100%	100%	100%	100%

* The Target Availability during the Initial Operating Period is to achieve an Availability of greater than 95% over a six-month period.

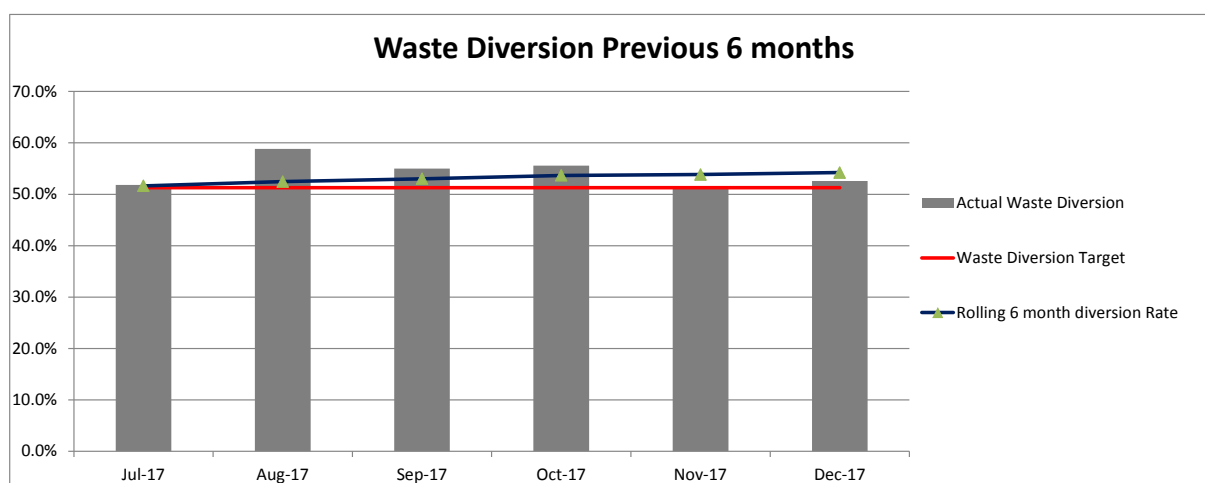
** The compost standard within the RRFA was amended by the revisions to the RRFA approved by Council at its meeting of 6 December 2012 and signed under common seal in May 2013.

*** Financial impacts of the KPI were removed by the revisions to the RRFA approved by Council at its meeting of 6 December 2012 and signed under common seal in May 2013. Ferrous diversion has recommenced.

**** Numerous complaints relating to a single event are treated as a single complaint. Biofilter odour is not registered as a complaint as this is seen as a normal operating odour condition.

Waste Diversion

The average waste diversion for the past six months (July 2017 to December 2017) has been 54.2%.



Project Advisory Group (PAG) as at 20 December 2017

MRC Representatives:

Cr Frank Cvitan
 Brian Callander (CEO)
 Gunther Hoppe
 Cr Russel Driver (alternative)

BioVision Representatives:

Craig Barker
 Nial Stock
 Frank Sciarrone (apology)
 Alan Turner
 Emmanuel Vincent (apology)

Chairperson:

Ian Watkins

The PAG last met on 20 December 2017.

Items dealt with by the group included:

- Summary of achievements and improvements for 2017
- The possibility of an amendment to the Deed of Guarantee to address member council exposure
- BioVision Monthly Report/Update
- Compost stockpiling

Copies of the meeting minutes are distributed to the Strategic Working Group members and all MRC Councillors following the meetings.

FINANCIAL IMPLICATIONS

Operational Expenditure

The Project Operational Summary below sets out the 2017/18 facility operating budget against which operational costs are tracked throughout the year. The variance over budget is as a result of the additional tonnes put through the facility during the year.

Project Operational Costs Summary for 2017/18 Financial Year – for the period ended 30 November 2017

OPERATING STATEMENT For the month ended 30 November 2017

Description	Adopted Budget	YTD Budget	YTD Actual	\$ Remaining Bal of Budget	% Balance	Note
Resource Recovery Facility						
Operating Expenditure						
Employee Costs						
Salaries	-	-	-	-		
Allowances	-	-	-	-		
Workers Compensation Premium	-	-	-	-		
	-	-	-	-		
Consultants and Contract Labour						
Consultancy	15,000	6,110	4,985	10,015	66.77%	
Contract Labour External	-	-	-	-		
	15,000	6,110	4,985	10,015	66.77%	
Office Expenses						
Cleaning of Buildings						
General cleaning (Enviro Care)	8,000	3,331	3,669	4,331	54.14%	
Window cleaning	3,500	1,456	1,105	2,395	68.44%	
	11,500	4,787	4,773	6,727	58.49%	
Information System Expenses						
Computer System Maintenance						
ICT contractors costs	2,000	-	-	2,000	100.00%	
Newcastle Weighing Services-Gen Maintenance	6,000	2,500	4,344	1,656	27.60%	
Vertical Telecom P/L-Maint of Microwave Ant	6,000	2,500	2,135	3,865	64.42%	
	14,000	5,000	6,479	7,521	53.72%	
Building Maintenance						
Building Maintenance						
Airconditioning Maintenance	3,000	1,250	129	2,871	95.70%	
Community Education Centre	2,000	525	525	1,475	73.77%	
Weighbridge and Calibration	7,500	-	-	7,500	100.00%	
Building Security						
Security - Monitoring	-	-	258	(258)		
Security - Alarm maintenance	-	-	-	-		
Security - call out	-	-	-	-		
	12,500	1,775	912	11,588	92.71%	
RRF Operation Expenses						
Fencing and Gate Maintenance						
Fencing and Gate Maintenance	9,000	9,000	10,057	(1,057)	(11.74%)	
Repair of Boom Gate	-	-	-	-		
Road Maintenance	5,000	-	-	5,000	100.00%	
Bores and Pipework						
Bore maint/calibration/electronics	4,500	3,100	3,091	1,409	31.30%	
Groundwater sampling	2,500	-	-	2,500	100.00%	
Bacteria sampling	1,000	-	-	1,000	100.00%	
Vermin control	500	-	-	500	100.00%	
Spills/leaks/incident management	500	-	-	500	100.00%	
Vehicle Wash Facility Operations	-	-	-	-		
Landscaping and Gardens	6,000	3,135	3,674	2,326	38.77%	
Compost Disposal	489,000	203,750	174,063	314,937	64.40%	
Contractor's Fees	26,325,000	10,951,200	11,595,691	14,729,309	55.95%	
RRF Maintenance Funding	250,000	-	-	250,000	100.00%	
	27,093,000	11,170,185	11,786,577	15,306,423	56.50%	
Utilities						
Electricity	10,500	4,375	9,240	1,260	12.00%	
Rates	108,000	45,000	43,212	64,788	59.99%	
	118,500	49,375	52,452	66,048	55.74%	
Insurance						
Municipal Property Insurance	3,500	1,456	1,325	2,175	62.13%	
Public Liability Insurance	5,650	2,353	1,990	3,660	64.78%	
	9,150	3,809	3,315	5,835	63.77%	
Cost of Borrowings						
Interest on Loans						
Loan 10A	62,976	27,105	27,105	35,871	56.96%	
Loan 10B	-	-	-	-		
Loan 10C	-	-	-	-		
Loan 11	471	471	471	-	0.00%	
Loan Expenses	-	-	-	-		
	63,447	27,576	27,576	35,871	56.54%	
Amortisations						
Amortisation Pre-operating Costs	104,700	43,625	43,625	61,075	58.33%	
Amortisation Costs	386,648	161,101	161,101	225,547	58.33%	
	491,348	204,726	204,726	286,622	58.33%	
Depreciation						
Depreciation on Building	23,604	9,835	10,468	13,136	55.65%	
Depreciation on Infrastructure	27,600	11,500	11,124	16,477	59.70%	
	51,204	21,335	21,592	29,612	57.83%	
Total Operating Expenditure	27,879,649	11,494,678	12,113,386	15,749,786	56.49%	
Net Total	(27,879,649)	(11,494,678)	(12,113,386)	(15,749,786)	56.49%	

COMMUNICATIONS AND EDUCATION REPORT	
File No:	WST/178-02
Attachment(s):	Nil
Date:	9 January 2018
Responsible Officer:	Education Manager

Communication and Education Report – November 2017

The Mindarie Regional Council's (MRC) Education Team's focus is on Winning Back Waste through community engagement within the region. The main objectives are to:

- act as an advocate for change at all levels,
- improve community awareness and understanding of waste issues,
- encourage a reduce, reuse, recycle and dispose wisely ethos and behaviours associated with this,
- encourage engagement on many levels to have waste dealt with as high on the waste hierarchy as is practicable,
- promote infrastructure solutions as integral to the aim of diverting waste from landfill.

This is largely done through the provision of:

- the Earth Carer community outreach program ,
- facility tours,
- visits to schools and community groups to deliver workshops and talks,
- displays within the community (including shopping centres, libraries, fairs and events),
- messaging through a broad range of communications and advertising channels, and
- special projects/programs to facilitate greater community participation in recycling and waste disposal initiatives.

The Team works closely with:

- the Member Councils through the region's Waste Education Strategic Steering Group (WESSG) to support the councils by assisting them in delivering their waste messages and in providing programs to enable improved recycling and waste disposal outcomes to the community, and,
- the State and National Waste Educator Groups (WMAA-WA WEWG / WENG and NWED) which include representatives from the other Regional Councils, Local Governments, WALGA, Waste Wise Schools, KABWA, Waste Authority and a variety of other members (government/community/business) interested in waste issues.



The MRC recognises that waste has a value as a resource and is committed to managing waste in line with the waste hierarchy and diverting waste from landfill.

This report will look to summarise the education activity for the month of November 2017.



Regional Education Campaign to improve the community's awareness of waste and waste issues and drive behavioural change.

The MRC has long had an education focus on the waste hierarchy, particularly the higher levels of reduce, reuse and recycle, encouraging people to think first before they dispose to ensure they put their waste in the best place for it to be efficiently dealt with.



With diverting waste from landfill being a State driven priority and waste minimisation being seen as an important community goal, an understanding of the Waste Hierarchy (Reduce, Reuse, Recycle) is seen by the Region's Waste Education Strategic Steering Group (WESSG) as important to educate the community about, to use it to explain waste initiatives being implemented.

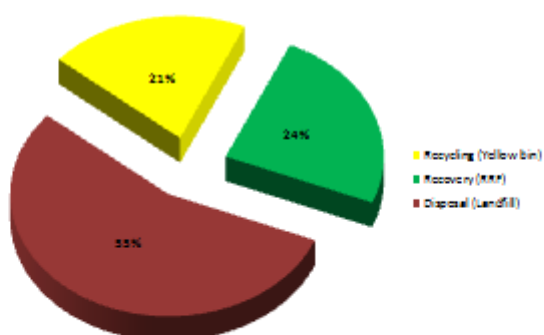
The following are a few slides of a presentation made to Council that were used to explain how the waste hierarchy is working in the Region.



3. Waste Hierarchy



MRC Regional Waste Profile (2016/2017)



Diversion 45%



3. Waste Hierarchy



As a Region what does the Waste Hierarchy look like?





3. Waste Hierarchy



This can be improved by:

- Reducing the amount of waste produced
- Increasing recycling rates
- Increasing recovery of waste bound materials and energy
- Diverting waste from landfill



3. Waste Hierarchy

Need to shift waste management to higher levels in the hierarchy, ideally turn the hierarchy upside down.



The MRC is developing a new campaign to highlight the importance of the **waste hierarchy** and use it to explain to residents why they are seeing all these changes to the way waste is being dealt with by their councils. This use of the waste hierarchy is also being seen as a way to socialise the use of waste infrastructure and possible Energy from Waste (EfW) solutions as a future option.

Taking the old waste hierarchy, explaining that the lower levels are the least preferred levels of waste management and the higher levels most preferred. Our efforts should be focused on the top levels, minimising the waste coming through to the lower levels, to landfill (dispose) in particular.



How do we get people engaged with waste?

So we started thinking...

**What makes it so easy
for us to produce so much
waste without caring?**

**The problem is that people
put things in the bin...**





Consumer insight:

**It's out of sight
and out of mind.**

Unless we can see it we won't do anything about it.
This insight led us to the campaign line...



The WESSG group is developing ideas as to what is needed in each of the Councils to create greater engagement in the community about waste issues. It is anticipated that this new Regional education campaign will be launched early in 2018.



A clear bin anyone?

A City of Wanneroo truck testing a clear
'Face Your Waste' bin

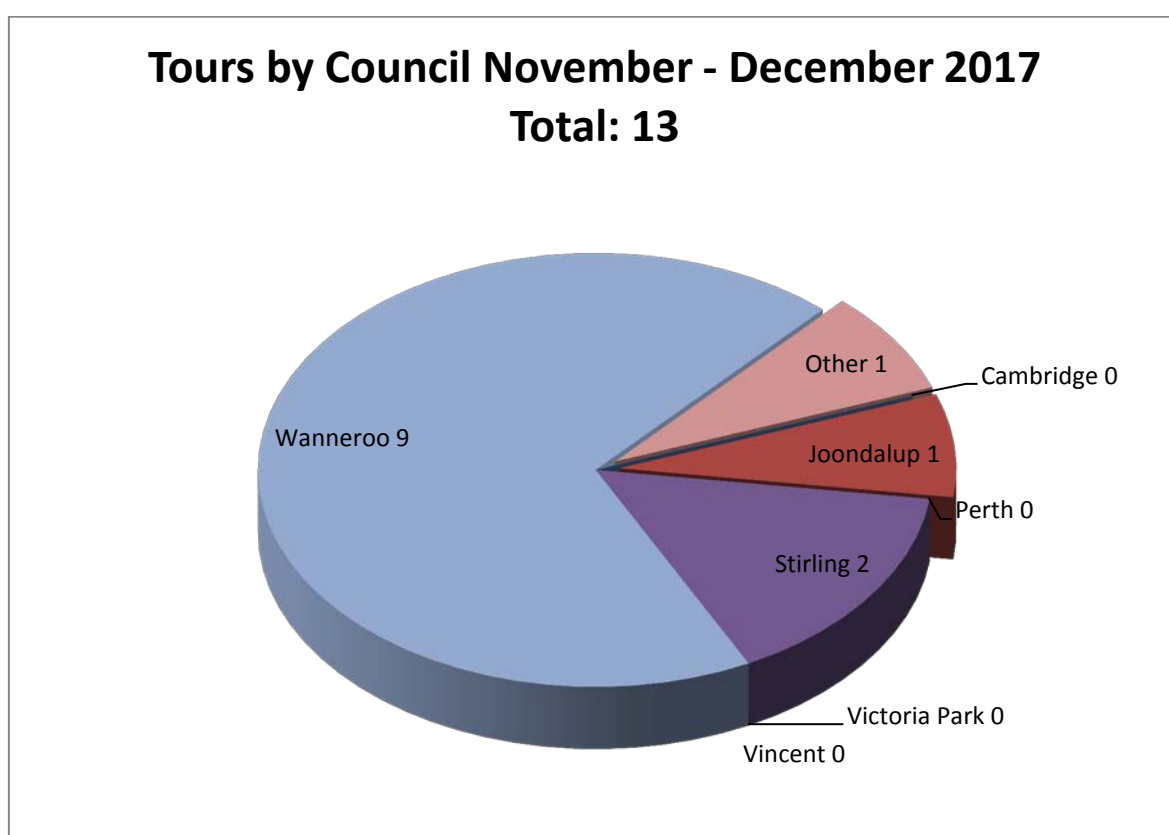
Community Engagement

Tours

The tours of the MRC facilities (Tamala Park and Resource Recovery Facility) are run on request Monday to Saturday and are popular with people of all age groups and from all walks of life. The duration of each tour ranges from one to three hours depending on the requirement of the group attending.

During November **13 tours** took place with **220 people** viewing the facilities and learning about how we deal with waste.

Of the tours all 13 in this reporting period took in Tamala Park with 2 of them also visiting the RRF.



TOURS BY GROUP	
	Number
Business	3
Community	3
Schools	7
Out of School	0
Tertiary	0
TOTAL	13

Name of schools on tour: Wanneroo Primary School and Hocking Primary School

The feedback given about these tours continues to report a high level of participant satisfaction with them being described as very informative. The tours don't just point out operational aspects of the sites but discuss the 'story of waste', engaging people in how the Waste Hierarchy works and discuss behaviours that create the best outcomes. People are continually amazed at how a 'trip to the tip' can be such an eye opener and be very enjoyable.



Roaming Recycler Waste Education Display

Spring marks the start of the event season in the Region with numerous activity going on in all council areas. The MRC attends a number of these events, both council and community run, creating the opportunity to engage with the community about waste related issues. Here we are often explaining waste services available to them from their council, disposal advice and ways which they can reduce the amount of waste produced.

In addition to attending these events with a waste display, the MRC provides practical advice and assistance to the event organisers on how to minimise waste produced at events and improve recycling outcomes.

As a part of the displays, information and 'how to' sheets are available for visitors to read and take. QR codes are now being printed on these flyers directing people to the MRC website where all of this information can be accessed. This to reducing waste (minimise printing and paper costs) and also providing the information in an alternative form.

The following is an example.



Frequently Asked Questions



- Q.** My worm farm seems to be infested by a very small red mite like insect. Is there any way to get rid of these without harming the worms?
- A.** The red mite are not a problem. They will not harm the worms, they will also help to break down the food. Red mites tend to come & go, appearing when particular types of food are used, (like yeast products). If you want to get rid of them, try sprinkling on some dolomite (garden lime).
- Q.** When I check my worm farm, there are worms on the inside of the lid and trays, are they trying to escape?
- A.** If there are masses of worms congregated together in the corners or up the sides of the farm, then this could indicate a problem with their bedding.
if there is the odd worm here and there, they are probably just having a wander around, especially if the trays and lid are moist from condensation.
- Q.** I have had my farm operating for a while now, but it seems to be taking a long time to fill up with castings.
- A.** If you are feeding mostly food scraps, your farm will not produce a lot of solid castings, as most food scraps are 80-90% moisture. Rectify, by feeding bulky types of food to your worms, like shredded paper, manures, compost or straw.
- Q.** How do I keep ants out of my worm farm?
- A.** Stand the worm farm legs in containers of water
& add a few drops of metho or kerosene. To prevent attracting ants bury food scraps completely in the bedding.



For more information visit our website: www.mrc.wa.gov.au

Email : wasteed@mrc.wa.gov.au

Contact: 9306 6303



ROAMING RECYCLER EVENTS	
	No Days Out
Cambridge	3
Joondalup	0
Perth	1
Stirling	3
Victoria Park	1
Vincent	1
Wanneroo	3
TOTAL	12

The Events being: Spring Eco-Fest CCWA, Spring in the Grove, Stirling Growers Market, Victoria Park Street Festival, Wanneroo Show, Bunning's – Innaloo, artMarket@Deanmore, Light up Leederville, Catalina Christmas Mixer, Lake Monger Christmas Lights and Scarborough Sunset Markets.

Visits, Talks and Workshops

Talks and visits to schools and community groups remains a focus of the MRC education team. The topics of these talks and visits vary according to the group but the sessions mainly focus on three main areas:

- Organics – composting and worm farming
- The bin system – what goes in what bin
- Waste Hierarchy – reduce, reuse, recycle and dispose wisely.

The duration of the sessions range from an hour through to a full day and, in the case of schools, may be for single classes or for the whole school.

VISITS/TALKS	
	Number
Cambridge	3
Joondalup	7
Perth	0
Stirling	9
Victoria Park	2
Vincent	0
Wanneroo	7
Other	0
TOTAL	28

TYPES OF TALKS	
	Number
Battery assembly	1
Composting, worms & gardens	16
Nude Your Food	0
Waste & recycling	10
Waste Audit	1
TOTAL	28

Workshops for the community held at the Henderson Environment Centre on how to deal with their organic waste at home through composting, worm farming and bokashi. These workshops were attended by about 50 people from 30 households.

Schools

The MRC provides a number of services to enhance a school's curriculum, these include: tours talks, workshops and activities can be tailored to meet the individual requirements of the school.

The MRC Education Team have continued to developing a closer working relationship with Waste Wise Schools with the purpose of delivering a broader and more consistent waste education program into schools throughout the region.

In 2017 the MRC is delivering the **Waste Wise Schools** program into MRC schools and advise how schools can become waste wise schools and access funds to assist with development of waste related projects. Through this partnership the Region's schools are being offered a superior waste education program with ongoing local support.

MRC are also assisting the City of Stirling to promote their 3 bin system by targeting schools within the city and presenting talks/workshops to students, teachers and parents on 'what goes into what bin?' Students are all given take home material describing the 3 bin system in an effort to spread the message.

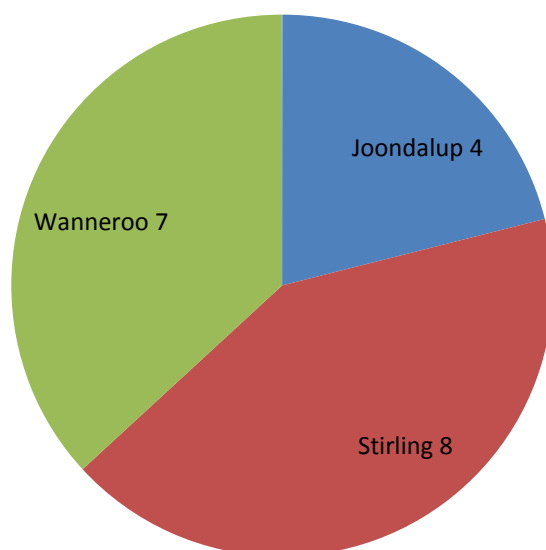


Please sort your waste correctly and help us to achieve our target of 65% waste diversion from landfill by 2020.

Visits to Child Care centres have increased in the last year with the Centres looking to enhance the environmental and sustainability education programs they do with the children.

These visits aim to not only foster an interest in waste for the youngsters but also to connect with educators and to a different parent group.

Visits to Schools and Day Care Centres by Council (November - December 2017)



Name of schools visited: Joondalup Education Support Centre, St Kieran Catholic Primary School, Yokine Primary School, St Anthony's School, St Denis Catholic Primary School, Alkimos Primary School, Creaney Primary School, Sutherland Primary School, Ocean Reef Senior High School, Westminster Primary School, Padbury Catholic Primary School and Connolly Primary School.

Earth Carers

The MRC community outreach program, Earth Carers, has been an integral part of the education program. Earth Carers are seen as long term valued people interested in waste and spreading a 'Waste Less' message. Since 2008 over 400 people have completed the MRC Earth Carer training courses and of them 345 are still active, a good retention rate. Two training courses are held each year, one in March and the other in August.

On completion of the course the MRC Earth Carers continue to meet and engage with the community. A number of Earth Carers link in with Community Garden groups, Transition Towns and other groups of like minded people. These provide very fertile grounds for information exchange and promoting waste wise messages.

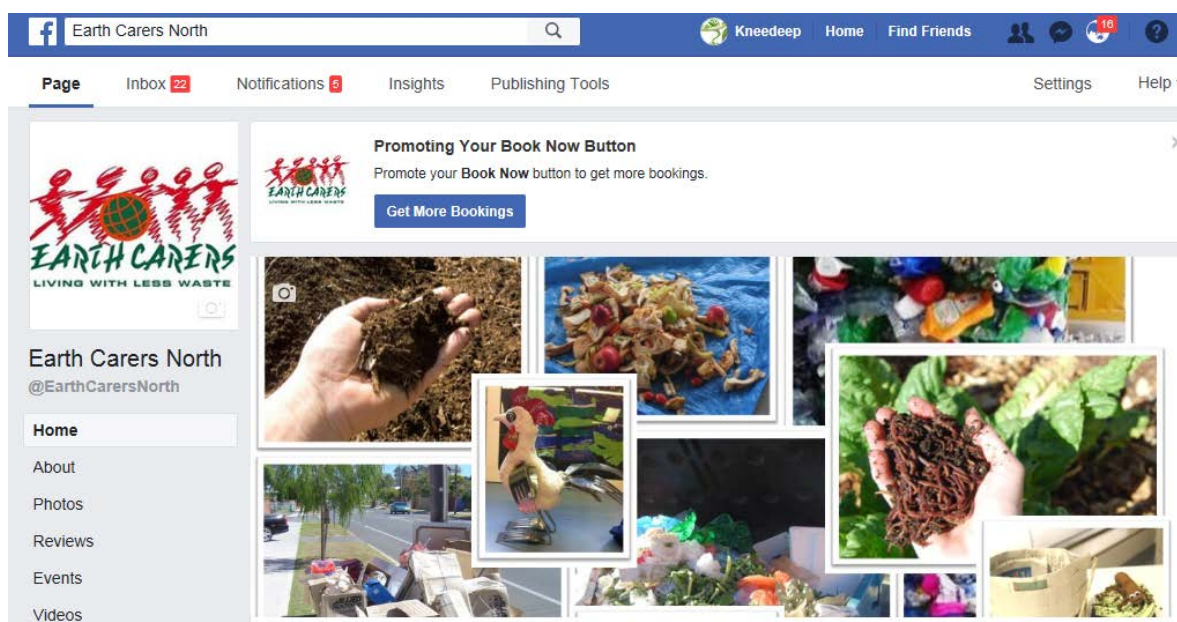


The MRC maintains contact after the course, with Earth Carers assisting at events on an MRC stall, in schools, and through on going workshops we offer.

Every second year, of which 2017 is one, an **Advanced Earth Carers** course is to enable keen Earth Carers to refresh their knowledge and to upskill themselves on the world of waste. This year 29 Earth Carers enrolled. The Advanced course requiring the participants to complete a waste related project, this to encourage them to be actively involved in promoting waste reduction messages. During September and October these Advanced Earth Carers worked on their nonminated projects with support from the MRC Education Team.

November saw most complete their projects and graduate as an Advanced Earth Carer. At the graduation each participant presented their project to the group. These ranged from setting up recycling stations in schools and the community through to establishing a pop up 'repair café' and making a submission to the DWER on the upcoming container deposit scheme in the State.

A Facebook Page, Earth Carers North, provides a convenient forum for Earth Carers and others to exchange ideas and discuss the wonderful world of waste. This page was originally set up as an Advanced Earth Carer project.



Earth Carers are very important ambassadors for a responsible waste message as they have credibility with friends and neighbours we could not hope to maintain.

Some MRC Earth Carers are involved in producing **Boomerang Bags**. They regularly attended the Education Centre at Tamala Park and using material from the shop at Recycling produced bags to distribute into the community.

The idea behind these bags is to reduce the use of single use plastic shopping bags. Five sewing sessions have occurred during this period.



Reduce, Reuse, Recycle and Dispose Wisely

There are many items that the MRC and the Member Councils no longer want residents to put in any of the verge collection bins (green, yellow or red). A number of programs have been set up in the Region to help dispose of these items effectively.



As a new initiative, in order to promote the Reuse Shop at Tamala Park select items are now advertised on Gumtree, an online sales site. These items may be things that are of outstanding quality, in abundant supply or have significant value. Just another way to help people find the bargain they are looking for and to keep items from going into landfill. By encouraging people to visit the Shop for the advertised items, people may see other goods and services available at Tamala Park.

The **pylon advertising sign** out the front of Tamala Park has also been very effective in conveying messages to those driving by. A range of services and disposal advice were added during November, these ranging from whitegoods, e-waste, cardboard and asbestos. Increases in the drop offs of products have been seen as a result of messages being displayed on the sign.

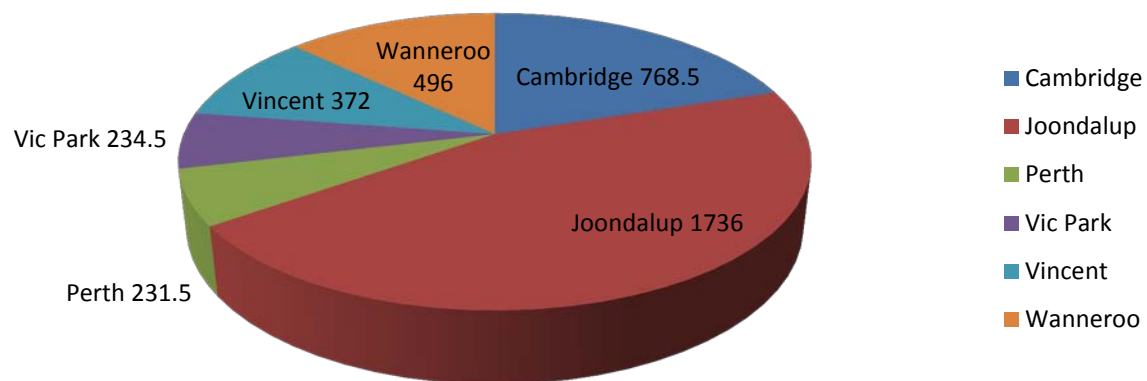


Battery Program

Batteries from school and community bins continued to be collected in large numbers. Importantly most of these batteries previously would have gone into the household green top wheelie-bin then to the RRF and the chemicals contained within ultimately into the compost. However large quantities of batteries are bought and disposed of and although the MRC is collecting and recycling tonnes of batteries it is only the tip of the iceberg.

The battery program is particularly important to MRC operations in that batteries have shown themselves to be the cause of many of the landfill fires at Tamala Park and they are still a significant problem at the RRF – providing a source of metals contamination.

**Batteries Collected from Community
Collection Bins by Council July - November
2017
(Total No = 3838.5kg)**



The schools battery program continues to grow. The schools find it is a good way to engage students in a meaningful recycling program. From an MRC point of view it offers collection sites throughout the community and unlike the public battery collection bins the school ones are generally free of contamination.

The MRC has 86 schools in the program.

Suburb	Number
Joondalup	36
Wanneroo	33
Perth	1
Cambridge	7
Vic Park	3
Vincent	6

At the time of this report final totals for the 2017 school year were not available, these will be published on the MRC website in the near future and in the next report.

The Term 3 2017 School league table showed the top 30 schools to be:

MRC School Battery Program Total Batteries collected by Schools (kgs), Term 1, 2 & 3, 2017					
Rank	Place	Term 1	Term 2	Term 3	Total
1	Sorrento Primary School	138	81	79	298
2	Carramar Primary School	32	110	27	169
3	East Butler Primary School	32	69	63	164
4	Hillarys Primary School	77	68	16	161
5	Kinross Primary School	64	68	26	158
6	Mullaloo Beach Primary School	42	37	72	151
7	Greenwood Primary School	51	35	24	110
8	Mercy College	40	13	48	101
9	Duncraig Primary School	36	46	17	99
10	Marmion Primary School	25	32	42	99
11	Halidon Primary School	41	32	18	91
12	St Marks Anglican Community School	32	7	28	67
13	Pearsall Primary School	20	16	29	65
14	Padbury Catholic Primary School	14	11	27	52
15	Glengarry Primary School	12	12	25	49
16	Lake Joondalup Baptist College	22	11	15	48
17	Edgewater Primary School	27	10	10	47
18	North Woodvale Primary School2	19	14	14	47
19	Peter Moyes Anglican Community College	7	3	34	44
20	Mount Hawthorn Primary School	19	10	13	42
21	Quinns Rocks Primary School	9	20	12	41
22	Al-Hidayah Islamic School	16	7	15	38
23	Irene McCormack Catholic College		36	2	38
24	Poynter Primary School	13	19	5	37
25	Wanneroo Primary School	0.5	34	1	35.5
26	Quinns Baptist College	10	11	13	34
27	School of Special Educational Needs Disability (SSEND)	15	8	10	33
28	Craigie Heights Primary School	10	17	5	32
29	Landsdale Primary School	17	8	7	32
30	St Anthony's School	14	8	7	29

City of Stirling operates its own schools battery program and their figures are not included here.

Recycling Stations

In addition to the batteries some of member councils have collection stations for other problematic waste streams.

The City of Joondalup have installed a number of new recycling stations (shown right) into their libraries to provide convenient disposal options for residents.



CFL's			
Council	North	South	Grand Total
Cambridge		167	167
Joondalup	208		208
Perth		172	172
Vic Park		23	23
Vincent		92	92
Wanneroo	91		91
Grand Total	299	454	753

Mobile Phone			
Council	North	South	Grand Total
Cambridge		47	47
Joondalup	46		46
Perth		7	7
Vic Park		10	10
Vincent			
Wanneroo	9		9
Grand Total	55	64	119

Ink Cartridge			
Council	North	South	Grand Total
Cambridge		98.5	98.5
Joondalup	68		68
Perth		14	14
Vic Park		11	11
Vincent			
Wanneroo	16.5		16.5
Grand Total	84.5	123.5	208

The Town of Victoria Park partnered MRC to hold a Household Hazardous Waste collection day at the ToVP Depot during Novemeber. These days have proven to be very well supported by residents helping them dispose of hazardous wastes that build up in people homes over time and are not easily disposed of.

Recycling Week

Recycling Week is an opportunity to draw on media attention and promote recycling activity. The City of Wanneroo held a competition between the City's libraries. Each of the libraries were given a theme based around reuse and recycling and were required to create a display for interest for residents. The picture below is from Clarkson Library and is courtesy of the wonderful treasures sourced from the Tamala Park Recycling Centre.



Does anyone look at and take notice of these library displays?

MRC was at an event in Banksia Grove (Spring in the Grove) and a mother came up and was talking about how they don't have much stuff in their house they don't use. Then she talked about her 8yr old who had gone into a library (COJ at Joondalup) and seen a Garage Sale Trail (GST) display and wanted to have a garage sale. Mum said they didn't have much but her daughter was persistent and found things of her own. They registered to be a part of GST and made \$70.

She is now collecting unwanted items for the next one and has got her friends into it as well! Library displays are looked out and acted on.

No Glass in Green top bin

The campaign to divert glass from the green top bin to reduce glass contamination in the organic soil conditioner produce at the RRF continued through these months with messaging on the CoW waste trucks and in various community publications.



NO GLASS

IN YOUR GREEN TOP BIN

An illustration of a green top bin with a 'NO GLASS IN THIS BIN' sign. A hand is shown holding a glass bottle with a red prohibition sign over it, indicating that glass is not allowed in the bin.

PUT GLASS IN THE YELLOW TOP RECYCLING BIN

The organic waste (kitchen scraps, paper, lawn clippings, leaves, prunings etc.) from your green top bin is used to make compost. It's really important to keep glass out of this bin.

If there's glass in this bin, it can contaminate the compost.

WASTE AUTHORITY
WAL...TODD GOES TO WASTE

Waste Management Services provided by the Waste Authority
through the Waste Reduction and Resource Recovery Program

www.mrc.wa.gov.au

MANDURAH REGIONAL COUNCIL

The suburbs of Edgewater and Heathridge in the City of Joondalup were identified by the City as ones that needed further effort

The Green lid bins were checked and those bins without stickers had stickers applied as with those that had heavily degraded stickers, Information flyers supporting this were also placed into all letterboxes within these suburbs.



To further reinforce the message the yellow top recycling bins in these suburbs were then stickered with recycling information, which included glass disposal, An additional flyer was then deposited in the letterbox with further recycling information and tips.

WESSG

The Waste Education Strategic Steering Group (WESSG) meets at the end of each month. These meetings continue to be an important forum for exchanging ideas and keeping everyone updated on happenings associated with waste within the Member Councils. The Group has been invaluable in providing networking opportunity for its participants. People aren't confined to council boundaries so being aware of what is happening elsewhere is important in delivering messages to the community

The importance of **Regional messaging** remains on the agenda as does the Groups role in dealing with regional waste issues. Many events and activities within the Region occur regularly with WESSG playing an important role in streamlining communications, messaging and coordination between both the MRC and the Member Councils and the Member Councils themselves. This to share the load and get best value for the Region, including looking at ways to improve waste diversion figures for the Region.

Event planning, Compost in May, Plastic Free July, Garage Sale Trail, e-waste and HHW events, public place recycling initiatives and clothes drop off days have all been discussed at the meetings. Current issues of common interest have been multi-unit developments, illegal dumping and public place recycling.

WESSG has been discussing and developing the 'Face Your Waste' campaign, especially looking at what elements all of the individual councils needed to align with their waste management/minimisation plans.



4. Marketing and Branding



Not just another brand and campaign.

- Bigger than just bins
- Looks at all levels of the Waste Hierarchy
- Targeting the issues
- Creating an awareness of waste
- Embraces other brands/campaigns



4. Marketing and Branding



only engages.

All the education sits behind this.

Need to engage the community with:

- Information (what)
- Education (how and why)
- Behavioural change options (do)

With this in mind significant work has still to be done by the WESSG group to successfully role out this campaign to the community over the next three years.