# ANNUAL ENVIRONMENTAL REPORT FOR STARRUS ECO HOLDINGS LTD. SARSFIELDCOURT, CORK LICENCE NO. W0136-03 JANUARY 2016 – DECEMBER 2016

# Prepared For: -

Starrus Eco Holdings Ltd Fassaroe, Bray, Co. Wicklow

# Prepared By: -

O' Callaghan Moran & Associates, Unit 15 Melbourne Business Park, Model Farm Road, Cork.

31st March 2017

Project	Annual En	vironmental	Report 2016	
Client	Starrus Eco W0136-03	o Holdings I	ıtd	
Report No	Date	Status	Prepared By	Reviewed By
0480704	31/03/2017	Draft	Dr Martina Gleeson PhD	Mr Jim O'Callaghan MSc
	31/03/2017	Final	Dr Martina Gleeson PhD	Mr Jim O'Callaghan MSc

# **TABLE OF CONTENTS**

# **PAGE**

	INTRODUCTION	1
2.	SITE DESCRIPTION	2
	.1 SITE LOCATION AND LAYOUT	2 2
3.	EMISSION MONITORING	5
	.1 SURFACE WATER MONITORING2 GROUNDWATER MONITORING3 NOISE SURVEY	
4.	SITE DEVELOPMENT WORKS	
4	.1 ENGINEERING WORKS	15
5.	WASTE RECEIVED AND CONSIGNED FROM THE FACILITY	16
6.	ENVIRONMENTAL INCIDENTS AND COMPLAINTS	18
	.1 INCIDENTS	
7.	ENVIRONMENTAL DEVELOPMENT	19
,	.1 ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT	
,	.2 Environmental Management Programme 7.2.1 Schedule of Objectives 2016 7.2.2 Schedule of Objectives 2017 .3 Communications Programme .4 Report Financial Provision .5 Nuisance Controls	
,	7.2.1 Schedule of Objectives 2016	
8.	7.2.1 Schedule of Objectives 2016 7.2.2 Schedule of Objectives 2017 3 COMMUNICATIONS PROGRAMME 4 REPORT FINANCIAL PROVISION 5 NUISANCE CONTROLS	

### 1. INTRODUCTION

This is the 2016 Annual Environmental Report (AER) for Starrus Eco Holdings Limited (SEHL) Materials Recovery Facility (MRF) located at Sarsfieldcourt Industrial Estate, Glanmire, County Cork.

The report covers the period from the 1<sup>st</sup> January 2016 to the 31<sup>st</sup> December 2016. The content of the AER is based on Schedule H of the Waste Licence (W0136-03) and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Environmental Protection Agency (Agency)<sup>1</sup>. Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2013<sup>2</sup>.

-

<sup>&</sup>lt;sup>1</sup> EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

<sup>&</sup>lt;sup>2</sup> EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document

# 2. SITE DESCRIPTION

### 2.1 Site Location and Layout

The installation is situated within the Sarsfieldcourt Industrial Estate, approximately 8 km northeast of Cork City and 5 km north of Glanmire in the townland of Sarsfieldcourt. The site occupies 1.56 ha and comprises one MRF building, rebuilt in 2014 following a fire in 2013, and ancillary infrastructure, including administration offices, yard and parking areas and a vehicle wash.

### 2.2 Waste Management Activities

During the reporting period the licence allowed SEHL to accept and process up to 200,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, household waste, source separated biodegradable waste for composting and construction and demolition wastes. All waste processing takes place inside the waste transfer building, as specified in Condition 5.1 of the licence.

### 2.2.1 Waste Types & Processes

During the reporting period, the installation was licensed to accept the following waste categories and maximum quantities<sup>3</sup>, as specified in Schedule A of the Licence: -

- Mixed Household Waste (90,000 tonnes)
- Commercial & Industrial Waste (52,500 tonnes)
- Construction & Demolition Waste (35,000 tonnes)
- Industrial Non-Hazardous Solids (47,490 tonnes)
- Household Hazardous Waste (10 tonnes)<sup>4</sup>

<sup>&</sup>lt;sup>3</sup> The maximum tonnage of each waste type accepted may be altered with the prior agreement of the Agency as long as the total maximum tonnage is not exceeded

<sup>&</sup>lt;sup>4</sup> Hazardous household waste types, and similar waste from other sources, and quantities collected and stored at the civic amenity facility to be agreed in advance by the Agency.

The key processes carried out at the installation include: -

- Segregation of recyclable materials (wood, metals, glass);
- Segregation and bulking of C&D waste;
- Transfer of recovered and residual materials to appropriately licensed recycling, recovery and disposal outlets;
- Separation of organic fines from MSW waste by shredding and trommelling of the waste
- Bulking of material for transfer to appropriately licensed recycling, recovery and disposal outlets.
- Production, baling and storage of refuse derived fuel (RDF)

### Household Waste

Mixed household waste as delivered is processed to remove bulky items, organic fines, metal and wood. The remaining material is baled and wrapped to produce RDF. All recyclable material is segregated, where possible, from the waste and transferred off-site to suitable licensed or permitted recycling facilities. The remaining non-recyclable and residual material not suitable for RDF production is sent to licensed landfills post processing

### Commercial and Industrial Waste

SEHL provides skips of various sizes to a wide range of commercial and industrial premises in the Cork Region. Recyclable material is segregated, where possible, from the waste stream and transferred to suitable recycling facilities. The remaining non-recyclable and residual material is sent to licensed landfills or re-directed to the onsite baler for the production of RDF bales of waste material for export to approved recovery facilities.

In addition SEHL provides a source segregation service for those clients which generate large quantities of commercial and industrial waste. Trained SEHL staff sort and segregate waste at source and the waste is then collected in skips or bulker vehicles and appropriately transported. All material is transported to the Sarsfieldcourt installation and off-loaded in designated areas and stored pending consignment to recycling facilities or to a licensed landfill.

# Construction and Demolition Waste

Construction and demolition material arrives on-site in skips of varying sizes. The loads are inspected and segregated on-site. Recoverable materials are extracted and sent off-site either for re-use or recycling. The non-recyclable materials are transferred to a licensed landfill.

# 2.2.2 Plant List

A list of the plant in use at the installation during the reporting period is given in Table 2.1. The plant provided 100% duty and 50% standby for waste processing.

**Table 2.1** Existing Plant

No.	Plant	Model	Operational Capacity	Standby Capacity
1	Tromel	Generic	80 t/hr	0
8	Conveyor Lines	Generic	80 t/hr	0
1	Baler	Bollegraff HB180	30 t/hr	0
1	Baler	Flexus Bala System	20t/hr	0
1	Articulated Grab	New Holand	100 t/hr	100 t/hr
1	Static Grab	Palfinger	50t/hr	100t/hr
2	Loading Shovel	Volvo L120	70 t/hr	0
1	Wheel Wash	Eurojet	168 hr/wk	0
2	Telescopic Handler	JCB	60hr/wk	60hr/pw
1	Weighbridge – 2 Scales	-	56 hr/wk	56 hr/wk
1	Fork Lift	Linde 3.0 tonnes	60 hr/wk	60 hr/wk
1	Fork Lift	Linde 2.5 tonnes	60 hr/wk	60 hr/wk
1	Shredder/Bag Opener	M&J 4000	80 t/hr	0
1	Bale wrapper	Crosswrap	12 t/hr	0

# 3. EMISSION MONITORING

SEHL implements the comprehensive environmental monitoring programme as specified in the licence to assess the significance of emissions from site activities. The programme includes surface water, wastewater, groundwater, noise and dust monitoring. The monitoring locations are shown on Figure 3.1.

The monitoring results are submitted in reports to the Agency at quarterly intervals. An overview of the results of the monitoring is presented in this Section, with summary data in tables included.

### 3.1 Surface Water Monitoring

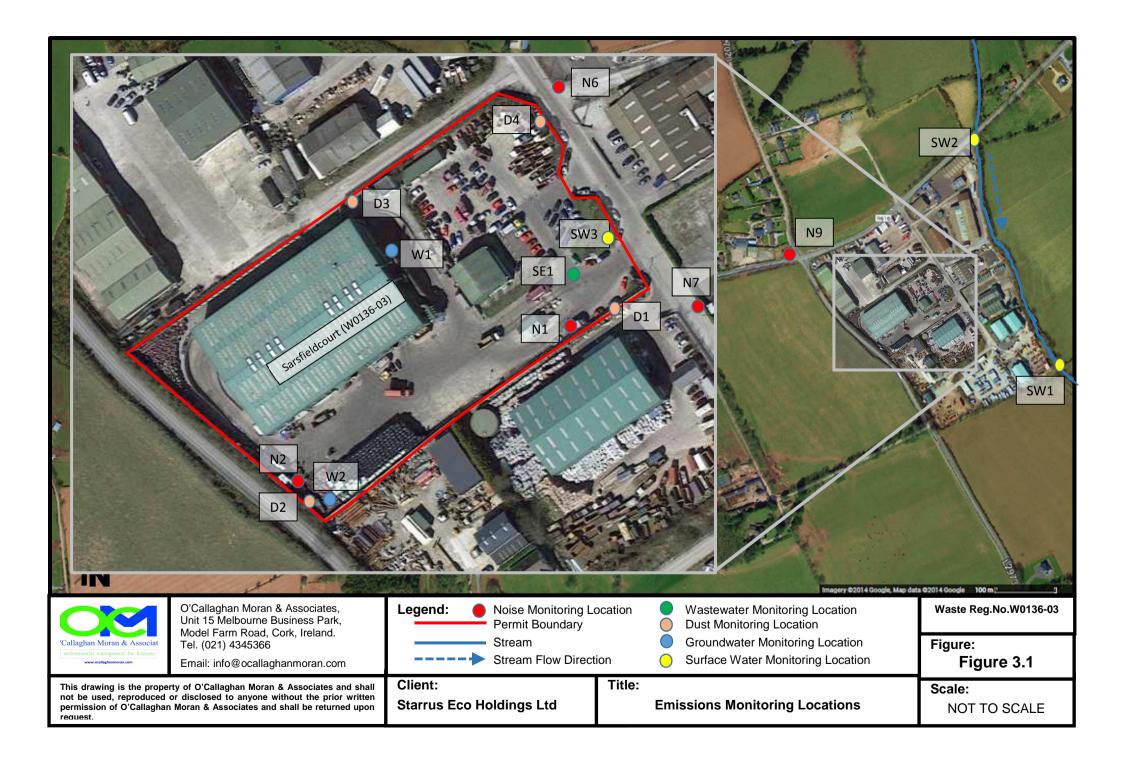
Surface water monitoring was carried out quarterly at three locations (SW-1, SW-2 and SW-3). SW-3 is the discharge point from the installation to a stream approximately 100 metres from the eastern boundary of the site. SW-2 is located to the north and upstream of the discharge point and SW-1 is located to the south and downstream of the outfall.

The range of analysis in the routine monitoring programme included pH, electrical conductivity, Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), total organic carbon (TOC), ammonia, dissolved oxygen, total suspended solids (TSS), mineral oils and oils, fats and greases. The results of the routine monitoring are presented in Tables 3.1 to 3.3.

The Emission Limit Value (ELV) and Trigger Levels apply solely to the discharge from the installation (SW-3). The ELVs and trigger levels were revised in February 2014, which included the addition of a trigger level for ammonia (0.14mg/l as N) and a lowering of the BOD and Suspended Solids trigger levels from 25mg/l and 35mg/l to 5mg/l and 15mg/l respectively.

Prior to the revision there was 100% compliance with the ELVs and Trigger Levels. In 2016, the ammonia exceeded the revised trigger level in each quarter. The BOD and TSS levels exceeded the trigger levels in the fourth quarter. The remaining parameters were below the ELVs. The Agency were notified at the time of the exceedances, along with the Inland Fisheries Ireland and Cork County Council.

The quality of the water in the stream is generally good and is not being impacted by installation activities.



**Table 3.1** Surface water Monitoring Results 2016: SW-1

Parameter	Units	Q1	Q2	Q3	Q4
pН	pH units	7.10	7.20	7.32	7.53
Conductivity	mS/cm	251	277	306	476
BOD	mg/l	1	2	1	2
COD	mg/l	<7	<7	9	<7
Ammoniacal Nitrogen	mg/l	0.02	0.17	0.04	0.1
TSS	mg/l	<10	<10	<10	<10
Nitrate as NO <sub>3</sub>	mg/l	16.4	24.1	21.7	20.8
Nitrite as NO <sub>2</sub>	mg/l	< 0.02	0.05	0.05	0.03
Mineral Oils	mg/l	< 0.010	< 0.010	< 0.010	< 0.01
Total Coliforms	cfu/100ml	240	4,600	430	>100
Faecal Coliforms	cfu/100ml	240	4,600	230	>100

 Table 3.2
 Surface water Monitoring Results 2016: SW-2

Parameter	Units	Q1	Q2	Q3	Q4
pН	pH units	7.25	7.75	7.95	7.75
Conductivity	mS/cm	255	256	272	137
BOD	mg/l	<1	2	<1	<1
COD	mg/l	<7	8	11	<7
Ammoniacal Nitrogen	mg/l	0.02	0.17	0.03	< 0.03
TSS	mg/l	<10	<10	<10	<10
Nitrate as NO <sub>3</sub>	mg/l	20	23.0	19.2	22.2
Nitrite as NO <sub>2</sub>	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
Mineral Oils	mg/l	< 0.010	< 0.010	< 0.010	< 0.01
Total Coliforms	cfu/100ml	75	11,000	430	>100
Faecal Coliforms	cfu/100ml	75	4,600	230	5

**Table 3.3** Surface water Monitoring Results 2016: SW-3

Parameter	Units	Q1	Q2	Q3	Q4	Trigger Levels	Emission Limit
pН	pH units	7.4	7.32	7.37	7.3	N/A	N/A
Conductivity	mS/cm	480	394	474	414	N/A	N/A
BOD	mg/l	3	3	<1	27	5	N/A
COD	mg/l	<7	17	<7	80	N/A	N/A
Ammoniacal Nitrogen	mg/l	0.40	0.66	1.02	1.2	0.14	N/A
TSS	mg/l	<10	<10	<10	109	25	N/A
Nitrate as NO <sub>3</sub>	mg/l	32	18.2	16.8	5.8	N/A	N/A
Nitrite as NO <sub>2</sub>	mg/l	0.21	0.28	0.61	2.34	N/A	N/A
Mineral Oils	mg/l	< 0.010	< 0.010	< 0.010	< 0.01	N/A	5
Total Coliforms	cfu/100ml	11,000	11,000	4,600	>100	N/A	N/A
Faecal Coliforms	cfu/100ml	4,600	4,600	2,400	5	N/A	N/A

# 3.2 Groundwater Monitoring

There are two on-site groundwater monitoring wells (W-1 and W-2). The licence specifies annual groundwater monitoring, however in 2007 the Agency requested SEHL to increase the monitoring frequency to biannually

The monitoring was carried out in Q2 and Q4 2016. The direction of groundwater flow is considered to be from west to east towards the stream, which flows along the eastern side of the Industrial Estate. W-2 is at the upgradient and W-1 is at the downgradient side of the site.

The parameters analysed are those in the licence, pH, Electrical Conductivity, Temperature, COD, BOD, Total Ammonia, Nitrates, Mineral Oil, Total and Faecal Coliforms and the results are presented in Tables 3.4 and 3.5

There are no Emission Limit Value (ELV) nor Trigger Levels set in the licence and for comparison purposes the tables also include the EPA Interim Guideline Values (IGVs) and the Groundwater Regulations Threshold Value (GTV)

There were exceedances of the pH range, nitrate and total coliforms in W-2 in both monitoring rounds, where the pH was slightly below the IGV low value of 6.5. W-2 is an upgradient groundwater monitoring well and any impact identified in this well is likely to have occurred from an off-site upgradient source. The likely source of these elevated parameters is agricultural practices within the catchment.

With the exception of a high nitrate level in Q2, the quality of the groundwater was good in W-1 (beneath the site) and generally consistent with the previous monitoring carried out. The results indicate that the installation had no impact on groundwater.

**Table 3.4** Groundwater Monitoring Results 2016: W-1

Parameter	Units	Q2	Q4	IGV	GTV
рН	pH units	7.18	7.07	6.5-9.5	-
Conductivity	mS/cm	0.403	0.386	-	0.800-1.875
Ammoniacal Nitrogen (N)	mg/l	< 0.01	< 0.03	-	0.065-0.175
Nitrate as NO <sub>3</sub>	mg/l	48.5	13.6	-	37.5
Nitrite as NO <sub>2</sub>	mg/l	< 0.02	< 0.02	-	0.375
Mineral Oils	mg/l	< 0.01	< 0.01	0.01	-
BOD	mg/l	<1	<1	-	-
COD	mg/l	8	10	-	-
Total Coliforms	Counts / 100ml	<3	60	0	-
Faecal Coliforms	Counts / 100ml	<3	60	0	-

Note

Where a GTV exists this replaces the IGV value

**Table 3.5** Groundwater Monitoring Results 2016: W-2

Parameter	Units	Q2	Q4	IGV	GTV
pН	pH units	6.10	6.65	6.5-9.5	-
Conductivity	mS/cm	0.275	0.255	-	0.800-1.875
Ammoniacal Nitrogen (N)	mg/l	< 0.01	< 0.03	-	0.065-0.175
Nitrate as NO <sub>3</sub>	mg/l	57.7	51.1	-	37.5
Nitrite as NO <sub>2</sub>	mg/l	< 0.02	< 0.02	-	0.375
Mineral Oils	mg/l	< 0.01	< 0.01	0.01	-
BOD	mg/l	1	<1	-	-
COD	mg/l	<7	<7	-	-
Total Coliforms	Counts / 100ml	<3	>100	0	-
Faecal Coliforms	Counts / 100ml	<3	0	0	-

Note

Where a GTV exists this replaces the IGV value

### 3.3 Noise Survey

The annual noise survey was carried out in October 2016 and included three off-site noise sensitive locations N-1, N-2 and N-3. Condition 6.11 and Schedule B.2 of the licence specifies the noise conditions applicable for the site which includes a daytime noise emission limit of 55 dB daytime, 50dB evening time and 45 dB night time limits applied to the nearest noise sensitive locations, identified as N-1 to N-3 on Table 3.6 and Figure 3.2 below.

**Table 3.6** Noise Sensitive Locations

Station	ITM NGR	Location	Propagation route terrain
N1	571942	Adjacent to crossroads NW of	Free field; partial line of sight to building N
	579177	site, 35 m from nearest NSL	facade; terrain level; terrain under paved yards
			& roadways with intervening walls & and
			buildings
N2	572323	Roadside verge 420 m NE of	Free field; line of sight to building E façade
	579479	site, 40-60 m from nearest	upper; terrain level; terrain under industrial
		NSLs	estate surfaces & buildings, field & hedgerows
N3	572303	Field 540 m SSE of site, 40 m	Free field; no line of sight; terrain level; terrain
	578519	from nearest NSL	under field & hedgerows

Installation noise emissions were not audible at any of the measurement stations, with two exceptions. During the evening survey, emissions from the air management system became faintly audible at N2 to the northeast, giving rise to a contribution of less than 39 dB. At N1 (northwest) and N2, emissions from the same system were slightly audible during the night-time, resulting in a contribution of less than 33 dB. Emissions thus complied with the 55 dB daytime, 50 dB evening and 45 dB night-time limits specified in licence W0136-03. Site operations did not give rise to tones or impulses at any of the stations. The results are included on Table 3.7.

Figure 3.2 Noise Monitoring Locations



 Table 3.7
 Noise Monitoring Results 20<sup>th</sup> October 2016

 Daytime 0700-1900
 Evening 1900-2300
 Night-time 2300-0700

Station	Date	Time	Wind	L <sub>Aeq 30</sub>	L <sub>AF10 30</sub>	L <sub>AF90 30</sub>	Specific
			vector	min	min	min	L <sub>Aeq 30</sub>
			, , , , ,	dB	dB	dB	min dB
	20.10.16	1243-1313	X	67	70	43	<<41
	Facility: No emis		71	07	70	13	~~11
<b>N1</b>		gular traffic throug	gh adjacent ju	nction domin	ant, and almo	st continuous	sly present on
day 1/3	approaches, mask	ing all other source	es apart from				
		in industrial estate					
		etermination: Det				4.4	4.4
N1	20.10.16	1433-1503	X	68	71	41	<<41
	Facility: No emis						
day 2/3	Extraneous: As p	previous. e <b>termination</b> : Ina	udible thus	<b>√I</b> 00			
	20.10.16	1642-1712	X	70	75	47	<<41
	Facility: No emis		Λ	70	13	47	<b>\\</b> <del>1</del> 1
N1		previous, although	traffic incre	ased Occasio	nal vocalisatio	ons at adiacer	nt sports pitch
day 3/3		). Forklift truck o					
uay 3/3	interval.	,	•		•	C	
	Specific LAeq T do	etermination: Det	ermined from	previous.	_		
	20.10.16	1936-2006	0	66	68	43	<<41
NT1	Facility: No emis						
N1		previous, minus b					
eve 1/1		ited trailers) contii	nuously audib	le at low leve	l from nearest	commercial	premises with
	energy at 63 Hz.	etermination: Det	ermined from	earlier interv	al		
	20/21.10.16	2341-0011	0	58	49	33	<33
N1	Facility: No emis		0	30	17	33	733
			hrough adies		dominant wh	T	
	Extraneous. Inc	ermittent traffic t	mough aujac	ent junction	dominant wn	en present. I	Distant traffic
night	continuously aud	ermittent traffic t ible at low level. N	lo emissions f	rom adjacent	industrial esta	te apart from	
night 1/2	continuously aud movements at app	ible at low level. N prox 100 m, and sp	To emissions for oradic car mo	rom adjacent ovements on in	industrial esta ndustrial estate	te apart from se roadway.	sporadic truck
_	continuously aud movements at app Specific LAeq T de	ible at low level. No prox 100 m, and spetermination: Air	No emissions foradic car mo	rom adjacent ovements on in system contrib	industrial esta ndustrial estate pution estimate	te apart from se roadway. ed from subsec	sporadic truck
1/2	continuously aud movements at app Specific L <sub>Aeq T</sub> do 21.10.16	ible at low level. No prox 100 m, and spetermination: Air 0139-0209	No emissions for oradic car momanagement s	rom adjacent promotes on in system contrib	industrial esta ndustrial estate oution estimate 42	te apart from se roadway. ed from subsection 33	sporadic truck  quent interval.  <33
_	continuously aud movements at app Specific LAeq T do 21.10.16  Facility: Air man	ible at low level. No prox 100 m, and spetermination: Air 0139-0209 agement system fa	No emissions for oradic car momanagements  O  intly discernity	rom adjacent ovements on its system contributes 51 ole, most likely	industrial esta ndustrial estate oution estimate 42 y due to decrea	te apart from se roadway. ed from subsect  33 used traffic noi	quent interval.  <33 se in distance.
1/2 N1	continuously aud movements at app Specific LAeq T do 21.10.16  Facility: Air man Extraneous: Loc	ible at low level. No prox 100 m, and spetermination: Air 0139-0209	No emissions for oradic car momanagements  O  intly discernity	rom adjacent ovements on its system contributes 51 ole, most likely	industrial esta ndustrial estate oution estimate 42 y due to decrea	te apart from se roadway. ed from subsect  33 used traffic noi	quent interval.  <33 se in distance.
1/2 N1 night	continuously aud movements at app Specific LAeq T do 21.10.16  Facility: Air man Extraneous: Loc dog barking.	ible at low level. No prox 100 m, and spetermination: Air 0139-0209 agement system factor and traffic novel.	To emissions for adic car more managements of the control of the c	rom adjacent ovements on in system contrib 51  ole, most likely istant traffic c	industrial estate oution estimate 42  y due to decrea continuously a	te apart from se roadway. ed from subsect  33 used traffic noi	quent interval.  <33 se in distance.
1/2 N1	continuously aud movements at app Specific LAeq T do 21.10.16  Facility: Air man Extraneous: Loc dog barking.	ible at low level. No prox 100 m, and spetermination: Air 0139-0209 agement system fa	To emissions for adic car more managements of the control of the c	rom adjacent ovements on in system contrib 51  ole, most likely istant traffic c	industrial estate oution estimate 42  y due to decrea continuously a	te apart from se roadway. ed from subsect  33 used traffic noi	quent interval.  <33 se in distance.
1/2 N1 night	continuously aud movements at app Specific LAeq T de 21.10.16  Facility: Air man Extraneous: Loc dog barking.  Specific LAeq T de	ible at low level. No prox 100 m, and spetermination: Air 0139-0209 agement system factor and traffic novel.	To emissions for addic car more managements of the control of the	rom adjacent ovements on in system contrib 51  ole, most likely istant traffic c	industrial estate oution estimate 42  y due to decrea continuously a	te apart from se roadway. ed from subsect  33 used traffic noi	sporadic truck quent interval. <33 se in distance. level. Distant
1/2 N1 night 2/2	continuously aud movements at app Specific LAeq T do 21.10.16  Facility: Air man Extraneous: Loc dog barking.	prox 100 m, and spetermination: Air 0139-0209 agement system far al road traffic novetermination: Em	To emissions for adic car more managements of the control of the c	rom adjacent overments on it system contribes 51 ole, most likely istant traffic contrible, the system contrible, the system contribution of the system of t	industrial esta ndustrial estate oution estimate 42 y due to decrea continuously a hus <l90.< td=""><td>te apart from se roadway. ed from subsec  33  sed traffic noi udible at low</td><td>quent interval.  &lt;33 se in distance.</td></l90.<>	te apart from se roadway. ed from subsec  33  sed traffic noi udible at low	quent interval.  <33 se in distance.
1/2 N1 night	continuously aud movements at app Specific Laeq T do 21.10.16  Facility: Air man Extraneous: Loc dog barking. Specific Laeq T do 20.10.16  Facility: No emis	prox 100 m, and spetermination: Air 0139-0209 agement system far al road traffic novetermination: Em	To emissions for a disconnection of the control of	rom adjacent overments on it system contribers of 1 ole, most likely istant traffic of discernible, the 64	industrial estatudition estimate 42  y due to decrea continuously a hus <l90.< td=""><td>te apart from se roadway. ed from subsec  33  sed traffic noi udible at low</td><td>exporadic truck equent interval.  &lt;33 se in distance. level. Distant  &lt;&lt;34</td></l90.<>	te apart from se roadway. ed from subsec  33  sed traffic noi udible at low	exporadic truck equent interval.  <33 se in distance. level. Distant  <<34
N1 night 2/2  N2	continuously aud movements at app Specific Laeq T do 21.10.16  Facility: Air man Extraneous: Loc dog barking. Specific Laeq T do 20.10.16  Facility: No emis Extraneous: Reg distant mower/str	prox 100 m, and spetermination: Air 0139-0209 agement system far al road traffic novetermination: Em 1319-1349 ssions audible. gular passing traffimmer or similar of	To emissions for a diction of the continuously a co	rom adjacent overments on in system contributed of the system contribu	industrial estate description estimated 42 y due to decrea continuously a hus <l90.< td=""><td>te apart from se roadway. ed from subsec 33 used traffic noi udible at low  34 es. During int</td><td>exporadic truck equent interval.  &lt;33 se in distance. level. Distant  &lt;&lt;34 frequent lulls,</td></l90.<>	te apart from se roadway. ed from subsec 33 used traffic noi udible at low  34 es. During int	exporadic truck equent interval.  <33 se in distance. level. Distant  <<34 frequent lulls,
1/2 N1 night 2/2	continuously aud movements at app Specific Laeq T do 21.10.16  Facility: Air man Extraneous: Loc dog barking. Specific Laeq T do 20.10.16  Facility: No emis Extraneous: Reg distant mower/str Industrial estate a	prox 100 m, and spetermination: Air 0139-0209 agement system far al road traffic novetermination: Em 1319-1349 ssions audible. gular passing trafficient or similar of activities masked by	To emissions for a diction of the continuously a practice. Airc and the continuously a practice. Airc are dictional of the continuously a practice. Airc are dictional of the continuously a practice. Airc are dictional of the continuously and the continuously a practice. Airc are discontinuously and the continuously and the continuously are discontinuously as a continuously are discontinuously are discon	rom adjacent overments on in system contributed of the system contribu	industrial estate description estimated 42 y due to decrea continuously a hus <l90.< td=""><td>te apart from se roadway. ed from subsec 33 used traffic noi udible at low  34 es. During int</td><td>exporadic truck equent interval.  &lt;33 se in distance. level. Distant  &lt;&lt;34 frequent lulls,</td></l90.<>	te apart from se roadway. ed from subsec 33 used traffic noi udible at low  34 es. During int	exporadic truck equent interval.  <33 se in distance. level. Distant  <<34 frequent lulls,
N1 night 2/2  N2	continuously aud movements at app Specific Laeq T do 21.10.16  Facility: Air man Extraneous: Loc dog barking. Specific Laeq T do 20.10.16  Facility: No emis Extraneous: Reg distant mower/str Industrial estate a Specific Laeq T do	ible at low level. No prox 100 m, and spetermination: Air 0139-0209 agement system far al road traffic novetermination: Em 1319-1349 ssions audible. gular passing traffirmmer or similar out of the civities masked betermination: Ina	oradic car momanagement so the control of the contr	rom adjacent overments on in system contributed of the system contribu	industrial estate description estimated 42 y due to decrease continuously a hus <l90. 66="" additional="" approachelevel,="" estate="" in="" of="" on="" state="" t<="" td="" the="" to=""><td>te apart from se roadway. ed from subsect 33 seed traffic noi udible at low  34 es. During int tion to local b</td><td>sporadic truck quent interval. &lt;33 se in distance. level. Distant &lt;&lt;34 frequent lulls, ird song/calls.</td></l90.>	te apart from se roadway. ed from subsect 33 seed traffic noi udible at low  34 es. During int tion to local b	sporadic truck quent interval. <33 se in distance. level. Distant <<34 frequent lulls, ird song/calls.
N1 night 2/2  N2 day 1/3	continuously aud movements at app Specific LAeq T de 21.10.16  Facility: Air man Extraneous: Loc dog barking. Specific LAeq T de 20.10.16  Facility: No emis Extraneous: Reg distant mower/str Industrial estate a Specific LAeq T de 20.10.16	ible at low level. No prox 100 m, and spetermination: Air 0139-0209 agement system farial road traffic noverteermination: Em  1319-1349 ssions audible. gular passing traffirmmer or similar of activities masked betermination: Inau 1508-1538	To emissions for a diction of the continuously a practice. Airc and the continuously a practice. Airc are dictional of the continuously a practice. Airc are dictional of the continuously a practice. Airc are dictional of the continuously and the continuously a practice. Airc are discontinuously and the continuously and the continuously are discontinuously as a continuously are discontinuously are discon	rom adjacent overments on in system contributed of the system contribu	industrial estate description estimated 42 y due to decrea continuously a hus <l90.< td=""><td>te apart from se roadway. ed from subsec 33 used traffic noi udible at low  34 es. During int</td><td>sporadic truck quent interval. &lt;33 se in distance. level. Distant &lt;&lt;34 frequent lulls,</td></l90.<>	te apart from se roadway. ed from subsec 33 used traffic noi udible at low  34 es. During int	sporadic truck quent interval. <33 se in distance. level. Distant <<34 frequent lulls,
N1 night 2/2  N2 day 1/3	continuously aud movements at app Specific LAeq T de 21.10.16  Facility: Air man Extraneous: Loc dog barking. Specific LAeq T de 20.10.16  Facility: No emis Extraneous: Reg distant mower/str Industrial estate a Specific LAeq T de 20.10.16  Facility: No emis Facility: No emis Specific LAeq T de 20.10.16	prox 100 m, and spetermination: Air 0139-0209 agement system factal road traffic novetermination: Em  1319-1349 ssions audible. gular passing traffic immer or similar of the cetivities masked betermination: Inat 1508-1538 ssions audible.	do emissions for adic car more management so the formation of the formatio	rom adjacent overments on it system contribe 51 ole, most likely istant traffic conditions of the first of th	industrial estate description estimated 42 y due to decrease continuously a hus <l90. 66="" additional="" approachelevel,="" estate="" in="" of="" on="" state="" t<="" td="" the="" to=""><td>te apart from se roadway. ed from subsect 33 seed traffic noi udible at low  34 es. During int tion to local b</td><td>sporadic truck quent interval. &lt;33 se in distance. level. Distant &lt;&lt;34 frequent lulls, ird song/calls.</td></l90.>	te apart from se roadway. ed from subsect 33 seed traffic noi udible at low  34 es. During int tion to local b	sporadic truck quent interval. <33 se in distance. level. Distant <<34 frequent lulls, ird song/calls.
N1 night 2/2  N2 day 1/3	continuously aud movements at app Specific Laeq T de 21.10.16  Facility: Air man Extraneous: Loc dog barking. Specific Laeq T de 20.10.16  Facility: No emis Extraneous: Reg distant mower/str Industrial estate a Specific Laeq T de 20.10.16  Facility: No emis Extraneous: As pecific Laeq T de 20.10.16	ible at low level. No prox 100 m, and spetermination: Air 0139-0209 agement system farial road traffic noverteermination: Em  1319-1349 ssions audible. gular passing traffirmmer or similar of activities masked betermination: Inau 1508-1538	to emissions for adic car more management so the continuously at t	rom adjacent overments on it system contribe 51 ole, most likely istant traffic conditions of the first of th	industrial estate description estimated 42 y due to decrease continuously a hus <l90. 66="" additional="" approachelevel,="" estate="" in="" of="" on="" state="" t<="" td="" the="" to=""><td>te apart from se roadway. ed from subsect 33 seed traffic noi udible at low  34 es. During int tion to local b</td><td>sporadic truck quent interval. &lt;33 se in distance. level. Distant &lt;&lt;34 frequent lulls, ird song/calls.</td></l90.>	te apart from se roadway. ed from subsect 33 seed traffic noi udible at low  34 es. During int tion to local b	sporadic truck quent interval. <33 se in distance. level. Distant <<34 frequent lulls, ird song/calls.

Audibility scale: Inaudible; faintly audible; slightly audible; audible at low level; quite audible; clearly audible; dominant; intrusive; excessive.

Station	Date	Time	Wind	L <sub>Aeq 30</sub>	L <sub>AF10 30</sub>	L <sub>AF90 30</sub>	Specific
			vector	min	min	min	L <sub>Aeq 30 min</sub>
				dB	dB	dB	dB
	20.10.16	1715-1745	+	64	69	41	<<34
N2 day 3/3	Extraneous: and local bird	emissions audible. Frequent passing tr d calls Aircraft T determination:		During lulls, o	listant traffic c	ontinuously sl	ightly audible,
	20.10.16	2014-2044	0	67	65	39	<39
N2 eve 1/1	Extraneous: slightly audib Specific Laeq	management system Intermittent passin ble continuously. Air T determination: A y character, thus <l <="" td=""><td>g traffic intru rcraft. amplitude of er</td><td>sive when pro</td><td>esent. Distant</td><td>traffic includi</td><td>ng M8 traffic</td></l>	g traffic intru rcraft. amplitude of er	sive when pro	esent. Distant	traffic includi	ng M8 traffic
	21.10.16	0031-0101	0	58	43	31	<31
N2 night 1/2	Extraneous: Distant traffi area, and rep Specific Lae	management system Passing traffic redu c continuously audi eatedly present at 1- traffic redermination: A mible by character, t	uced to sporad ble at low leve 200 m Amplitude of A	lic, although a el in several di	udible for exter rections. Dog	ended period of barking audib	n approaches. le across wide n, as emissions
N2	21.10.16	0101-0131	0	61	44	31	<31
night	Facility: As 1						
2/2		As previous, with d T determination: A		ghtly reduced.			
ZI Z	20.10.16	1357-1427	X previous.	54	58	38	<<37
N3 day 1/3	Facility: No Extraneous: Distant traffi emissions au	emissions audible. Intermittent traffic c continuously sligl dible. Aircraft. T determination: I	on adjacent re htly audible in	oad dominant several direc	when present, tions. Bird sor nterval.	and audible on g/calls. No in	n approaches. dustrial estate
NIO	20.10.16	1556-1626	X	56	60	37	<<37
N3 day 2/3	Extraneous:	emissions audible. As previous. Crows Tr determination: I			es.		
	20.10.16	1752-1822	X	57	61	45	<<37
N3 day 3/3	Extraneous: background s	emissions audible. As previous, with soundscape, possibly at determination:	a result of ons			idible and no	w dominating
	20.10.16	1900-1930	0	53	56	42	<<37
N3 eve 1/1	Facility: No Extraneous:	emissions audible.					1,07
NIO	20.10.16	2301-2331	0	52	51	40	<<36
N3		emissions audible.		•			
night		Traffic frequency					
1/2		traffic continuously <sub>T</sub> T <b>determination</b> : I				cularly M8 tra	inc to SE.
N3	21.10.16	0215-0245	0	57	46	36	<<36
		emissions audible.	<u> </u>		10	- 50	1130
night 2/2	Extraneous:	As previous, althou Tr determination: I			nents.		
		audible; slightly audib			ible: clearly audi	ble: dominant: ir	ntrusive, excessive

Audibility scale: Inaudible; faintly audible; slightly audible; audible at low level; quite audible; clearly audible; dominant; intrusive; excessive. Specific  $L_{Aeq}$ : Level considered attributable to source under consideration, determined using real time assessment, field notes, time history profiles, statistical analysis, frequency spectra, spectral statistics and near field correction if applicable.

### 3.4 Dust Monitoring

Dust monitoring is conducted quarterly. The results of the monitoring carried out in 2016 are included in Table 3.9. The result for D-2 (525 mg/m²/day) in August 2016 exceeded the dust deposition limit, however, the inorganic particulate faction of the sample, which is representative of site activities was 235 mg/m²/day and below the limit. The sample was impacted greatly by the presence of vegetative growth (leaves, algae, etc.), which was not derived from site based activities. The result for D-3 (504 mg/m²/day) in October 2016 exceeded the dust deposition limit, however, the inorganic particulate faction of the sample, which is representative of site activities, was 263 mg/m²/day. Monitoring point D3 is located beside an access road within the estate. The sample was impacted greatly by the presence of vegetative growth (leaves, algae, etc.), which was not derived from site based activities.

<b>Table 3.9</b> Dust Moni	itoring Results 2016
----------------------------	----------------------

	March mg/m²/day	May mg/m²/day	August mg/m²/day	October mg/m²/day	Deposition Limit mg/m²/day
D-1	10.66	47.18	226	125	350
D-2	12.01	46.73	525	134	350
D-3	5.50	16.16	87	504	350
D-4	7.74	15.60	124	134	350

### 3.5 Nuisance Control Review

SEHL installed and commissioned an air emission abatement system in the MRF building in 2006. The system was working well prior to the fire in November 2013 when it was completely destroyed. The system was re-installed when the MRF building was rebuilt in 2014.

The system extracts air from the waste handling area and passes it through a series of filters to remove any dust. The active carbon within the annular vessels acts on the odorous air by binding the odour causing molecules to the carbon thus removing odours from the released air. This technique in conjunction with maintaining the integrity of the extraction area forms the premise for the effective operation of the system and ensures treatment.

Other controls include automatic fast acting doors installed on both the tunnel entrance and exit and the in and out doorway in the main transfer building. This acts in conjunction with a building management system (BMS) which activates an alarm if a door is opened for longer than a pre-defined period.

SEHL implements a detailed Odour Management Plan (OMP) for waste handling operations. The OMP is a core document detailing operational and control measures appropriate to management and control of odours. It provides sufficient detail to allow facility and maintenance staff to clearly understand the odour management operational procedures for both normal and abnormal conditions.

Routine inspections and litter patrols, cleaning of site roads and yard areas and vermin control (Comserv) are maintained. SEHL has introduced an Integrated Management System (IMS) and as part of this has developed a list of environmental management procedures, details of which are outlined in Section 7 and include nuisance control measures.

# 4. SITE DEVELOPMENT WORKS

# 4.1 Engineering Works

No site development works were carried out in 2016. It is proposed to install the electrical substation in 2017.

# **4.2** Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period.

**Table 4.1** Estimates of Resources Used On-Site in 2015 & 2016

Resources	Quantities 2015	Quantities 2016
Road Diesel	902,953 litres	889,752 litres
Gas Oil	312,784 litres	314,118 litres
Gear Oil	30 litres	50 litres
Ad Blue	6000 litres	6,000 litres
Hydraulic, Transmission, Engine Oil	500 litres	800 litres
Anti-Freeze	30 litres	35 litres
Electricity	447,112 kWh	477,161 kwh
Truck Wash Detergent	0 litres	0 litres
Carbon	28 tonnes	32 tonnes

# 4.3 Bund Integrity Test

Bund testing is carried out every three years. Integrity testing of the drainage system was carried out in 2015 which confirmed it was fit for purpose. The bunds are scheduled for integrity testing in 2017.

# 5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the installation in 2016. Table 5.2 shows the quantities of waste received and consigned in previous years. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste (EWC/HWL) list. A more detailed description of the wastes accepted and consigned are provided in the PRTR return in Appendix 1.

The total amount received in 2016 was 108,037 tonnes. The total amount consigned was 111,327 tonnes. The difference (3,291 tonnes) is related to waste which remained on site at the end of 2015 and which was consigned in 2016. All the wastes consigned from the site went to recovery and disposal facilities agreed with the Agency.

 Table 5.1
 Waste Received & Consigned 2016

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard & Paper Packaging	86.19	
15 01 02	Plastic Packaging	39.032	
15 01 06	2 8		2,615.77
15 01 07	Glass Packaging	1,471.76	1,471.36
16 06 01	Lead Batteries – Hazardous Waste		1.865
16 11 06	Ash	0.76	
17 02 03	Plastic	0.18	
17 03 02	Bitmac	88.42	
17 05 04	Soil & Stone	3.08	
17 08 02	Plasterboard	4.68	
17 09 04	Mixed C&D	209	397.08
18 01 04	Solid Recovered Fuel	26.86	
19 08 05	Liquid Waste		2035
19 12 09	C&D Inert Mixed	34.54	
19 12 10	12 10 Solid Recovered Fuel		
19 12 12	Mixed Residual Waste from mechanical	738.16	21,491.65
19 12 12	treatment	/38.10	21,491.03
20 01 01	Paper & Cardboard	93.03	
20 01 02	Glass	53.32	
20 01 08	Compost and Commercial Food Wastes	6,886.794	6,699.34
20 01 35	REC Electronics & Electrics	1.235	2.725
20 01 38	Wood from municipal sources	56.56	148.52
20 01 39	Plastic from municipal sources	175.76	
20 01 40	Metal from municipal sources	9.5	408.6
20 02 01	Cardboard & Paper	250.6	
20 03 01	Mixed Residual Waste	79,847.864	66,930.586
20 03 07	Bulky Waste	17,897.904	9,124.8
	Total Received	108,037.009	
	Total Consigned	Í	111,327.296
	Recovered		109,913.356
	Disposed		1,413.94
	Recovery Rate (%)		98.73%

 Table 5.2
 Waste Received & Consigned in Recent Years

	2015	2014	2013	2012	2011	2010	2009
Total Received	86,136	10,307	71,812	75,619	67,621	68,252	54,697
<b>Total Consigned</b>	85,802	10,851	76,478	74,035	69,848	69,988	46,394
<b>Total Recovered</b>	66,694	7,616	62,452	34,038	27,263	31,807	15,521
Total Disposed	16,109	3,191	14,026	39,996	42,585	38,181	40,872
Recovery Rate	81.22%	70.19%	81.66%	46%	39%	45.45%	27.52%

# 6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

### 6.1 Incidents

There were four exceedances of the surface water trigger levels throughout the year. These were an exceedance of the trigger level for BOD and TSS in Q4 and the ammonia trigger level in each quarter. Each one was reported to the Agency, Cork County Council and the Inland Fisheries Ireland at the time of each incident. The exceedances did not result in any adverse impact on the water quality in the receiving stream:

# **6.2** Register of Complaints

SEHL maintains a register of complaints received in accordance with Condition 10.4 of the waste licence. The complaints register includes the details of all complaints and the actions carried out in response to each complaint. There were 8 complaints in relation to odour during the reporting period.

### 7. ENVIRONMENTAL DEVELOPMENT

### 7.1 Environmental Management Programme Report

SEHL have implemented an Integrated Management System (IMS) in accordance with the requirements of Occupational Health and Safety Assessment Series (OHSAS) 18001:2007 and International Standard Organisation (ISO) 14001:2004 in order to manage the Health, Safety and Environmental performance of their business and to control health and safety risk and to minimise their environmental aspects and impacts.

The IMS has been developed for the achievement of continual improvement taking into account the requirements of the Waste Licence Conditions. SEHL has prepared and effectively implement documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004. The installation passed an external IMS audit in July 2013.

The schedule of Objectives and Targets, including their status for 2016 (Table 7.1), as well as the proposed Objectives and Targets for 2017 (Table 7.2) are presented below. An index of procedures used at the installation is included in Appendix 2.

# 7.1.1 Site Management Structure

Details of the site management structure are given below.

Name: Louise Demir

Responsibility: Operations Manager.

**Experience:** 8 years waste management experience. BSc. Biochemistry (UCC).

FÁS Waste Management Course.

Name: Michael Hannon

**Responsibility:** Support Service Manager / Deputy Operations Manager.

**Experience:** 14 years waste management experience. FÁS Waste Management

Course.

Name: Donal Monahan

**Responsibility:** Director of Resource and Recovery

**Experience:** Over 20 years waste management experience. FÁS Waste Management

Course.

# 7.1.2 Staff Training

Environmental training is carried out for any new staff employed at the installation as required. Copies of all training records are held in the installation office.

# 7.2 Environmental Management Programme

# 7.2.1 Schedule of Objectives 2016

The objectives that were achieved during this reporting period are outlined in Table 7.1.

# 7.2.2 Schedule of Objectives 2017

The schedule of targets and objectives for 2017 are presented in Table 7.2.

 Table 7.1
 Schedule of Objective and Targets 2016

No	Objective	Target	Timescale	Responsibility	Status
1	Increase awareness of Odour Management on site group wide	Specify Odour detection in Site Inspection Database (EF-10A) on a daily basis and generate actions as appropriate	Q1-Q2	Site Management/ EHS	Ongoing
2 Waste storage practices  Emergency response procedures - ER pack update		Review waste storage practices on each site to ensure that they are in line with licence conditions, fire prevention and insurance recommendations	Q2	Site Management/ EHS	Ongoing
		Review the Emergency Response Pack on each site and ensure that all information & equipment required in case of an emergency is available.  Confirm that relevant staff training adequately addresses.		Site Management/ EHS	Ongoing
4	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision to be reviewed	Q2/Q3	EHS team	Q1 2017
5	Waste acceptance, classification & records	EWC training for all weighbridge ops. Centralisation of all licences & permits inc NWCPs for hauliers.	Q2/Q3	EHS team	Ongoing
6	Energy Audit	Completed energy audit as per amended licence conditions	Q4	Site Management/ EHS	Completed
7 Firewater retention report		Complete & submit fire water retention report as per licence requirements and implement findings.	Q2	Site Management /EHS	On-going
8	Review drainage on site and upgrade as required	Review drainage in line with current sites processes & practices and make changes where appropriate.	Q2/Q3	Site Management /EHS	On-going
9	Review Odour Management Plan	Review OMP and implement changes where appropriate.	Q2	Site Management /EHS	Completed

 Table 7.2
 Schedule of Objective and Targets 2017

No	Objective	Target	Responsibility	Timescale
1	Odour management	Ensure odour management plans are followed and potential new sources of odour are identified	Q1 - Q4	Site management
2 Fire prevention  3 Waste storage  4 Waste acceptance, classification & records		Implement recs from Fire Risk Assessments Update ERP & APP Maintain fire detection equipment	Q1 - Q4	Site management/EHS team
		Review waste storage practices on each site to ensure that they are inline with licence conditions, fire prevention and insurance recommendations	Q1 - Q4	Site management/EHS team
		EWC training for all weighbridge ops. Centralisation of all licences & permits inc NWCPs for hauliers.	Q1 - Q4	EHS team
5	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision to be reviewed	Q2	EHS team
6	Lighting in MRF buildings	Clean & upgrade where required all light fittings in MRF buildings	Q3	Site management
7	NWCP exemptions	Implement NWCP exemption declarations	Q1 - Q4	Site management
8	Pipeline integrity Testing	Complete bund and pipeline integrity testing	Q1/Q2	Site management
9	Increase electricity supply	Progress MIC application to increase electricity supply to site	Q2-Q4	EHS team

# 7.3 Communications Programme

SEHL is committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, SEHL's Environmental, Health & Safety Policy makes a specific commitment to ensuring that the policy itself and records are available to the public and interested parties.

SEHL has drawn up a Communications Programme, which details how members of the public are facilitated in accessing environmental information at the installation.

Records available for public inspection on site include:-

- Environmental Health & Safety Policy,
- Waste Licence,
- Licence Application and Review documentation,
- Monitoring Records,
- Complaints File,
- EPA Correspondence File.

Opening Times for Inspection of Records are from 10 am - 4 pm. Visits to the site should be arranged in advance by ringing the Facility Manager at 1890 600 900.

The facility manager meets with any interested other occupants of the Industrial Estate and the representatives of the Glanmire Residence Association to discuss the environmental performance of the installation and address any environmental issues or concerns that may arise.

### 7.4 Report Financial Provision

A Decommissioning Management Plan (DMP) and Environmental Liabilities Risk Assessment (ELRA) including Financial Provision (FP) were submitted to the Agency in 2013 as part of the transfer of the licence which occurred in Q1 2014. Both the DMP and ELRA have been approved by the Agency.

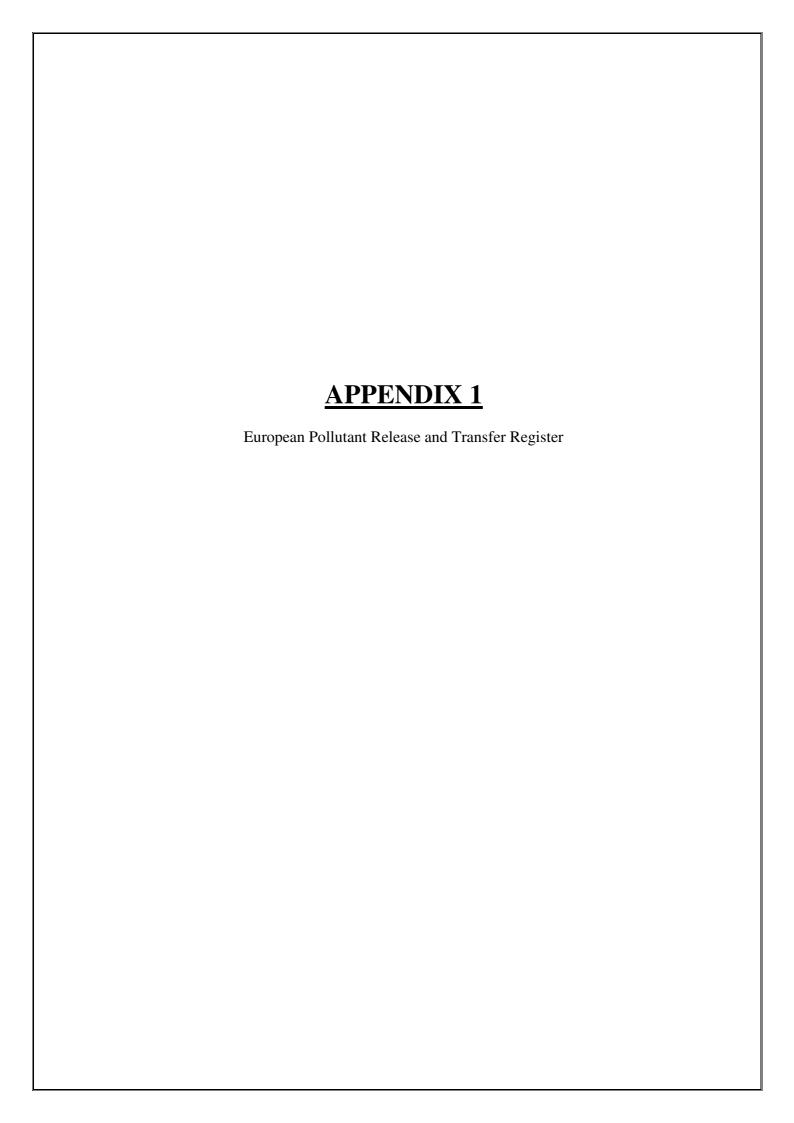
### 7.5 Nuisance Controls

SEHL has contracted a vermin control company Comserv to carry out nuisance control at the installation.

# 8. OTHER REPORTS

# 8.1 European Pollutant Release and Transfer Register

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 SEHL are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 1.





| PRTR# : W0136 | Facility Name : Starrus Eco Holdings Limited (Munster) | Filename : W0136\_2016.xls | Return Year : 2016 |

### **Guidance to completing the PRTR workbook**

# **PRTR Returns Workbook**

Version 1 1 19

### **REFERENCE YEAR** 2016

### 1. FACILITY IDENTIFICATION

Parent Company Name	Starrus Eco Holdings Limited
Facility Name	Starrus Eco Holdings Limited (Munster)
PRTR Identification Number	W0136
Licence Number	W0136-03

### Classes of Activity

Classes of Alexandy	
No.	class_name
-	Refer to PRTR class activities below

Address 1	Sarsfieldcourt Industrial Estate
Address 2	Sarsfieldcourt
Address 3	Glanmire
Address 4	
	Cork
Country	Ireland
Coordinates of Location	
River Basin District	IESW
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	
AER Returns Contact Email Address	sara.smyth@greenstar.ie
AER Returns Contact Position	Environmental Engineer
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	20
User Feedback/Comments	
Web Address	

### 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name		
50.1	General		
5(c)	Installations for the disposal of non-hazardous waste		
50.1	General		

### 3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being	
used ?	

# 4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for onsite treatment (either recovery or disposal activities) ? 4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0136 | Facility Name : Starrus Eco Holdings Limited (Munster) | Filename : W0136\_2016.xls | Return Year : 2016 |

31/03/2017 16:59

### SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR				Please enter all quantities	in this section in KG	S			
POLLUTANT			METHOD			QUANTITY			
		Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Ac	cidental) KG/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0	0.0

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

### **SECTION B: REMAINING PRTR POLLUTANTS**

	RELEASES TO AIR		Please enter all quantities in this section in KGs						
	POLLUTANT		N	IETHOD	QUANTITY				
		Method Used							
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year		A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0	0.0

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

### SECTION C: REMAINING POLLUTANT EMISSIONS (As required in your Licence)

	RELEASES TO AIR	Please enter all quantities in this section in KGs									
PO	LLUTANT		ı	METHOD			QUANTIT	Υ			
				Method Used							
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accider	ntal) KG/Year	F (Fugitive) KG/Year		
					0.0	)	0.0	0.0	0.0		

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

### Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Starrus Eco Holdings Limited (Munster)

Landini.	Starrus Eco Floidings Elimited (Marister)				_	
Please enter summary data on the quantities of methane flared and / or utilised			Meth	od Used		
				Designation or	Facility Total Capacity m3	
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	
Total estimated methane generation (as per						
site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section						
A above)	0.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0136 | Facility Name : Starrus Eco Holdings Limited (Munster) | Filename : W0136\_2016.xls | Return Year : 2016 |

31/03/2017 16:59

### SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as

	RELEASES TO WATERS		Please enter all quantities in this section in KGs							
POI	LLUTANT						QUANTITY			
				Method Used						
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
					0.0	0.0	0.0	0.0		

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

### **SECTION B: REMAINING PRTR POLLUTANTS**

	RELEASES TO WATERS		Please enter all quantities in this section in KGs							
РО	LLUTANT							QU	JANTITY	
			Method Used							
No. Annex II	Name	M/C/E	Method Code Designation or Descrip	tion	Emission Point 1		T (Total) KG/Year	Α (	Accidental) KG/Year	F (Fugitive) KG/Yea
						0.0	0	0.0	0.0	C

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C: REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	RELEASES TO WATERS	Please enter all quantities in this section in KGs						
PO	LLUTANT						QUANTITY	
				Method Used				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

### 4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0136 | Facility Name : Starrus Eco Holdings Limited (Munster) | Filename : W0136\_201

31/03/2017 16:59

### SECTION A: PRTR POLLUTANTS

OF	FSITE TRANSFER OF POLLUTANTS DESTINED FO	Please enter all quantities	in this section in KG	às						
	POLLUTANT		N	METHOD	QUANTITY					
				Method Used						
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year		A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0.0	0	0.0	0.0	0.0	

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

### SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

SECTION B. HEMAINING I SEESTANT EMIS	HOW B. HEMIAINING TO ELECTARY EMISSION (as required in your electice)												
OFFSITE TRAN	SFER OF POLLUTANTS DESTINED FOR WASTE-W	ATER TRE	EATMENT OR SEWER	}	Please enter all quantities i	in this section in KG:	5						
PO	LLUTANT		METH	IOD	QUANTITY								
		Method Used											
Pollutant No.	Name	M/C/E Method Code Designation or Description			Emission Point 1	T (Total) KG/Year		A (Accidental) KG/Year	F (Fugitive) KG/Year				
					0.0		0.0	0.0	0.				

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Link to previous years emissions data Page 1 of 1

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0136 | Facility Name : Starrus Eco Holdings Limited (Munster) | Filename : W0136\_2016.xls | Return Year : 2016 |

31/03/2017 17:00

### **SECTION A: PRTR POLLUTANTS**

	REL	EASES TO LAND			Please enter all quai	ntities in this section in KC	às
	POLLUTANT		MI	THOD			QUANTITY
				Method Used			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
						0.0	0.0 0.0

<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

### SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OLO HOR D. HEMPARAM	DEED PART EMICOIONO (ao required in your	Liouriou					
	REL	EASES TO LAND			Please enter all quantitie	es in this section in KG	is
	POLLUTANT		ME	THOD		QUANTITY	
				Method Used			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Ye
					0	.0	0.0

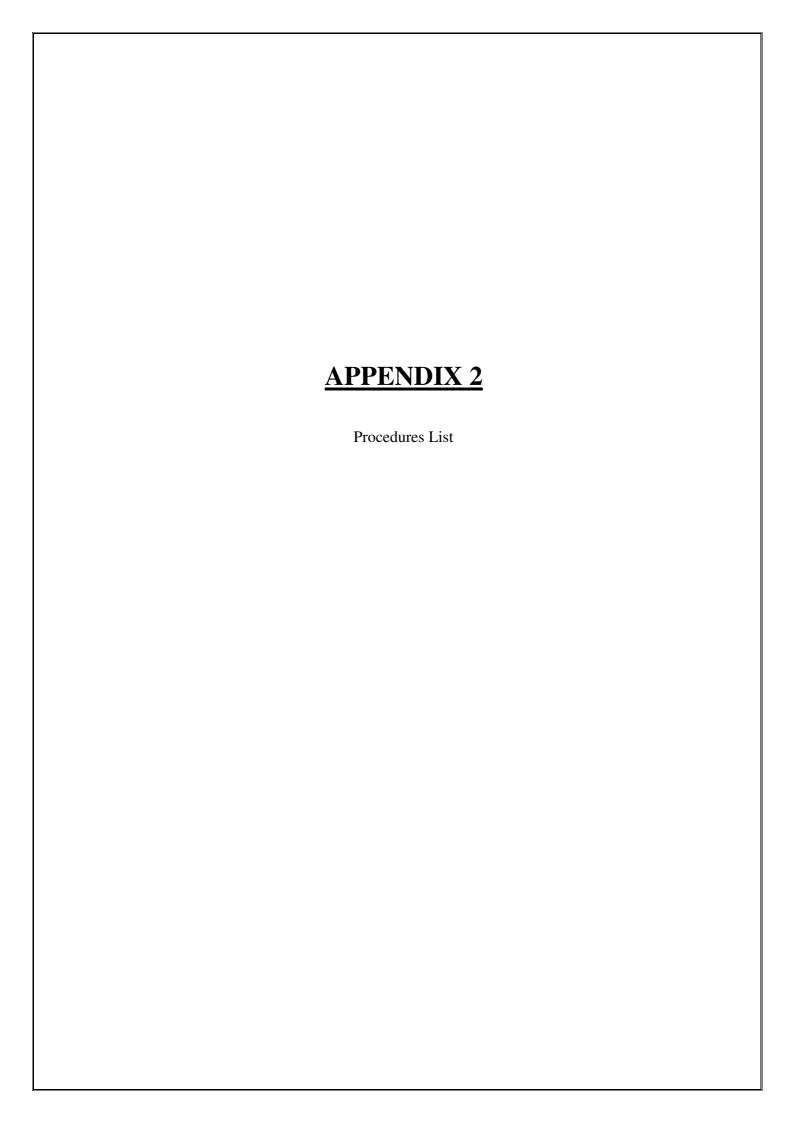
<sup>\*</sup> Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0136 | Facility Name : Starrus Eco Holdings Limited (Munster) | Filename : W0136\_2016.xls | Return Year : 2016 | 31/03/2017 17:00

5. ONSITE TREATM	LIVI & OIT SITE THA			PHTH# : W0136   Facility Name : Starrus Eco Holdings all quantities on this sheet in Tonnes	Lillitea (Waliste	s)   Filerian	ie . W0130_2016.xis   neti	JIII 16ai . 2010				31/03/2017 17:00
			Quantity (Tonnes per Year)		Waste		Method Used	-	Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Transfer Destination	European Waste Code	Hazardous		Description of Waste	Treatment Operation	M/C/E	Method Used	Location of Treatment				
Within the Country	15 01 06	No	1435.54	mixed packaging	R3	М	Weighed	Offsite in Ireland	Forge Hill Recycling Limited,W0291-01 Killarney Waste Disposal	Forge Hill ,Ballycurreen,Cork,.,Ireland Aughacurreen,.,Killarney,Co.		
Within the Country	15 01 06	No	1180.23	mixed packaging	R3	М	Weighed	Offsite in Ireland	Limited,W0217-01 Clonmel Waste Disposal	Kerry,Ireland Lawlesstown,ClonmelCo		
Within the Country	15 01 07	No	1471.36	glass packaging	R5	М	Weighed	Offsite in Ireland		Tipperary, Ireland	KMK Metals, W0113-	
Within the Country	16 06 01	Yes	1.865	lead batteries mixed construction and demolition wastes	R4	М	Weighed	Offsite in Ireland	·	.,.,Tullamore,Co Offaly,Ireland	03,,Tullamore,Co Offaly,Ireland	.,.,Tullamore,Co Offaly,Ireland
Within the Country	17 09 04	No		other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13	М	Weighed	Offsite in Ireland	Mallow Contracts,CK(N)277/5 Lehane Environmental &	,Mournabbey,Co Cork,Ireland Units 1-3,Wallingstown		
Within the Country	19 08 05	No	1501.78		R13	М	Weighed	Offsite in Ireland	Industrial Services,NWCPO- 08-04574-03 McBreen Environmental	Industrial Estate,Little Island,Co. Cork,Ireland		
Within the Country	19 08 05	No		other wastes (including mixtures of	R13	М	Weighed	Offsite in Ireland	Ltd,WFP-CN-16-0001-01	Lismagratty,Cavan,Co. Cavan,.,Ireland		
To Other Countries	19 12 12	No	27.98	materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 other wastes (including mixtures of materials) from mechanical treatment of	R13	М	Weighed	Abroad	EON Varme Sverige AB,556146-1814	Energigatan 5 ,SE-601,71 Norrkoping,.,Sweden		
Within the Country	19 12 12	No	51.82	other wastes (including mixtures of materials) from mechanical treatment of	R3	М	Weighed	Offsite in Ireland	Enrich Environmental Limited,WSP-MG-08-004-02			
Within the Country	19 12 12	No	3183.21	other wastes (including mixtures of materials) from mechanical treatment of	R5	М	Weighed	Offsite in Ireland	Glanway Ltd,WFP-KK-14- 0002-01	.,11 Patrick's Street,Kilkenny,.,Ireland		
Within the Country	19 12 12	No	676.12	other wastes (including mixtures of materials) from mechanical treatment of	R13	М	Weighed	Offsite in Ireland		Rathdrinagh,Beauparc,Nava n,Co. Meath,Ireland		
Within the Country	19 12 12	No		other wastes (including mixtures of materials) from mechanical treatment of	R3	М	Weighed	Offsite in Ireland	McGill Environmental Systems Ltd,W0180-01	Coom, Carrignavar/Glenville, Co. Cork,.,Ireland		
Within the Country	19 12 12	No	2838.7	wastes other than those mentioned in 19 12 11	R13	М	Weighed	Offsite in Ireland	Starrus Eco Holding Limited,W0053-03	.,Fassaroe,Bray ,Co Wicklow ,Ireland		
Within the Country	20 01 08	No		discarded electrical and electronic equipment other than those mentioned in 20	R3	М	Weighed	Offsite in Ireland	Acorn Recycling Ltd,W0249- 01	.,,Littleton,Co Tipperary,Ireland	KMK Metals, W0113-	
Within the Country	20 01 35	Yes		01 21 and and 20 01 23 containing hazardous components	R4	М	Weighed	Offsite in Ireland	KMK Metals, W0113-03	.,.,Tullamore,Co Offaly,Ireland	03,,Tullamore,Co Offaly,Ireland	.,.,Tullamore,Co Offaly,Ireland
Within the Country	20 01 38	No	103.02	wood other than that mentioned in 20 01 37	R13	М	Weighed	Offsite in Ireland	Cork Recycling Company Ltd,WFP-CK-09-0022-02 Cork Metal Company,WFP-	Lehenaghmore, Togher, Cork, ,,Ireland		
Within the Country	20 01 40	No	407.58	metals	R4	М	Weighed	Offsite in Ireland	CK-10-0067-01	Dublin Hill,Cork,.,.,Ireland Ballymount		
Within the Country	20 03 01	No	225.52	mixed municipal waste	R13	М	Weighed	Offsite in Ireland	Nurendale Limited,W0039- 02	Cross, Tallaght, Dublin 24,., Ireland		
Within the Country	20 03 01	No	395.36	mixed municipal waste	R13	М	Weighed	Offsite in Ireland	Dillon Waste,WFP-KY-10- 001	The Kerries,Tralee,Co. Kerry,.,Ireland		

										Licence/Permit No of Next			
										Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	
				Quantity						Haz Waste: Name and	Destination Facility	Address of Final Recoverer /	Actual Address of Final Destination
				(Tonnes per						Licence/Permit No of	Non Haz Waste: Address of	Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
				Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
						Waste							
		European Waste				Treatment			Location of				
	Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
,					•					•	Merrywell Industrial		
											Estate,Ballymount Road		
										Dublin City Council, W0238-	Lower, Ballymount , Dublin		
	Within the Country	20.03.01	No	33 26	mixed municipal waste	R5	М	Weighed	Offsite in Ireland		12.Ireland		
	······································	20 00 01		00.20	mixed memorpal waste			Wolghou	Onono in irolana		Aughacurreen,.,Killarney,Co.		
	Within the Country	20.03.01	No	1600 058	mixed municipal waste	R13	M	Weighed	Offeite in Ireland		Kerry,Ireland		
	Within the Country	20 03 01	140	1030.330	mixed municipal waste	1113	IVI	Weighted	Offsite in freiding	Quality Recycling	Kerry, ireland		
										Limited.NWCPO-12-11065-	.,Ballylynch,Carrick On		
	Attalata da o O accessor	00.00.04	NI-	40040.05	as heard as contained one at-	D40	М	AAT - Color					
	Within the Country	20 03 01	No	12040.65	mixed municipal waste	R13	IVI	Weighed	Offsite in Ireland		Suir,Co Tipperary,Ireland		
				4000 50		D.10			0"" " 1 1 1	Starrus Eco Holding	.,Fassaroe,Bray ,Co		
	Within the Country	20 03 01	No	1292.56	mixed municipal waste	R13	M	Weighed	Offsite in Ireland		Wicklow ,Ireland		
										Forge Hill Recycling	Forge Hill		
	Within the Country	20 03 01	No	111.66	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Limited,W0291-01	,Ballycurreen,Cork,.,Ireland		
										Starrus Eco Holdings	.,Ballykeefe Townland,Dock		
	Within the Country	20 03 01	No	659.76	mixed municipal waste	R13	M	Weighed	Offsite in Ireland		Road,Limerick,Ireland		
										EON Varme Sverige	Energigatan 5 ,SE-601,71		
	To Other Countries	20 03 01	No	37116.608	mixed municipal waste	R13	M	Weighed	Abroad		Norrkoping,,,Sweden		
											Vamweg 7,9418 TM		
	To Other Countries	20 03 01	No	13364.25	mixed municipal waste	R13	M	Weighed	Abroad	Attero BV,6070283	Wijster,,,,Netherlands		
											Churchfield Industrial		
										Ashgrove Recycling,W0147-	Estate, Churchfield, Cork,., Irel		
	Within the Country	20 03 07	No	2.9	bulky waste	R13	M	Weighed	Offsite in Ireland	01	and		
	Within the Country	20 03 07	No	339.94	bulky waste	D5	M	Weighed	Offsite in Ireland	Bord na Mona. ,W0201-03	.,.,.,lreland		
										Knockharley Landfill	.,Knockharley,Navan,Co		
	Within the Country	20 03 07	No	1074.0	bulky waste	D5	М	Weighed	Offsite in Ireland	Ltd.W0146-02	Meath, Ireland		
					,					Starrus Eco Holding	.,Fassaroe,Bray ,Co		
	Within the Country	20.03.07	No	7572 42	bulky waste	R13	М	Weighed	Offsite in Ireland	Limited,W0053-03	Wicklow ,Ireland		
	······································	20 00 07		7072.12	builty muclo			Wolghou	Onono in irolana	2	Pass of		
										Thorntons Recycling Centre	Kilbride, Miltownpass, Co.		
	Within the Country	20.01.38	No	45.5	wood other than that mentioned in 20 01 37	D3	М	Weighed	Offsite in Ireland		Westmeath,,,Ireland		
	Within the Country	20 01 30	140	40.0	wood other than that mentioned in 20 01 07	110	IVI	Weighed	Olisite III II elaliu		10 The Anchorage Business		
										Davis Recycling Ltd,W0134-			
	Mithin the Country	00.01.40	Nie	4.00	metals	D10		Majahad			4Ireland		
	Within the Country	20 01 40	No	1.02	metals	R13	М	Weighed	Offsite in Ireland				
	Attable to the Original	00.00.07	NI	47.00	hullarweete	D4		Matakaal	Official in Inch		Carranstown, Duleek, Co.		
	Within the Country	20 03 07	No	17.08	bulky waste	R1	М	Weighed	Offsite in Ireland		Meath,,,Ireland		
	MIN					D.10			0" "		Rathdrinagh, Beauparc, Nava		
	Within the Country	20 03 07	No	118.46	bulky waste	R13	M	Weighed	Offsite in Ireland	04	n,Co. Meath,Ireland		

<sup>\*</sup> Select a row by double-clicking the Description of Waste then click the delete button







Doc. No.: ControlRevision No.: As ShownIssue Date: As ShownApproved By:Malcolm Dowling - Group Compliance ManagerPage 1 of 5

Integrated Procedures - IP				
IP-01	Document & Record Control Procedure	Rev 01, 28/04/14		
IP-02	Health & Safety Risk Assessment Procedure	Rev 01, 28/04/14		
IP-03	Environmental Aspects & Impacts Procedure	Rev 01, 28/04/14		
IP-04	Legal & Regulatory Requirements Procedure	Rev 01, 28/04/14		
IP-05	Objectives, Targets & Management Programmes Procedure	Rev 02, 21/01/16		
IP-06	Competence, Training & Awareness Procedure	Rev 01, 28/04/14		
IP-07	Communication & Consultation Procedure	Rev 02, 21/01/16		
IP-08	Monitoring, Measurement & Improvement Procedure	Rev 01, 28/04/14		
IP-09	Evaluation of Compliance Procedure	Rev 01, 28/04/14		
IP-10	Non Conformances, Corrective/Preventive Actions Procedure	Rev 01, 28/04/14		
IP-11	Internal Audit Procedure	Rev 01, 28/04/14		
IP-12	Management Review Procedure	Rev 02, 21/01/16		
IP-13	Control of Contractors/Visitors Procedure	Rev 01, 28/04/14		
IP-14	Health & Safety & Environmental Monitoring	Rev 01, 28/04/14		
IP-15	Emergency Preparedness & Response Procedure	Rev 01, 28/04/14		
IP-16	Fire Prevention Procedure	Rev 01, 28/04/14		
IP-17	Bin Washing Procedure	Rev 01, 28/04/14		
IP-18	Accident Prevention Procedure	Rev 02, 14/11/16		
IP-19	Fuel Procedure for Tanks & Mobile Plant	Rev 01, 11/01/17		

Safety Procedures - SP			
SP-01	Permit to Work Procedure	Rev 01, 28/04/14	
SP-02	Maintenance & Calibration Procedure	Rev 01, 28/04/14	
SP-03	Mobile Plant Procedure	Rev 01, 28/04/14	
SP-04	Fork Truck Procedure	Rev 01, 28/04/14	
SP-05	Operation of Fixed Plant Procedure	Rev 01, 28/04/14	
SP-06	Lock Out / Tag Out Procedure	Rev 01, 28/04/14	
SP-07	Health & Safety Notification Procedure	Rev 01, 28/04/14	
SP-08	MSW Shredder routine Maintenance & Clearing of Blockages Procedure (SCGT)	Rev 01, 28/04/14	
SP-09	Weighbridge & Tipping Procedure (SCGT)	Rev 01, 28/04/14	
SP-10	Cleaning of Washing Bay (Greenogue)	Rev 01, 28/04/14	



# **Procedure Listing**

Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Compliance Manager	Page 2 of 5

Environmental Procedures - EP				
EP-01	Office Waste & Energy Management Procedure Rev 01, 28/04/14			
EP-02	Decommissioning and Aftercare Procedure	Rev 01, 28/04/14		
EP-03	Environment Communications Procedure	Rev 01, 28/04/14		
EP-04	Waste Permits & Licences Procedure	Rev 01, 28/04/14		
EP-05	Waste Acceptance Procedure	Rev 01, 28/04/14		
EP-06	Unacceptable Waste Procedure	Rev 01, 28/04/14		
EP-07	Waste & Material Storage Procedure	Rev 01, 28/04/14		
EP-08	Waste Processing Procedure	Rev 01, 28/04/14		
EP-09	Site Infrastructure Procedure	Rev 02, 06/05/15		
EP-10	Nuisance Management Procedure (Site Specific)	(Site Specific)		
		Rev 01, 28/04/14		
EP-11	Civic Amenity Site Procedure	Rev 01, 28/04/14		





Doc. No.: Control Revision No.: As Shown Issue Date: As Shown

Approved By: Malcolm Dowling – Group Compliance Manager Page 3 of 5

# Amendment History

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
05.07.10	01	All	01	Initial Issue	M.D & O.C
13.09.10	02	EP-03	02	Issue of Incident Reports	M.D
20.09.10	03	IP-10	02	Env issues not logged on WIMS Database	M.D
29.10.10	04	IP-13	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	05	IP-14	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	06	SP-02	02	Inclusion of Maintenance Schedule	M.D & O.C
05.11.10	07	IP-04	02	Inclusion of other requirements	S.B & O.C
01.02.11	08	SP-08	01	Inclusion of new procedure	O.C
01.02.11	09	IP-10	03	Inclusion of SP-08	O.C
01.02.11	10	IP-15	02	Removal of SF-022	0.C
01.02.11	11	Contents	As shown	EP-10 Site Specific	M.D & O.C
01.02.11	12	IP-06	02	Addressing Agency Staff needs	M.D & O.C
01.02.11	13	Circ List	02	Amendment to document control	M.D & O.C
04.04.11	14	SP-02	03	Inclusion of Site Specific Maintenance schedules	O.C
07.06.11	15	IP-11	02	Inclusion of H&S & Env Internal Audit Schedules	M.D & O.C
14/09/11	16	EP-02	02	Inclusion of decommissioning of plant/equipment	S.B
15/09/11	17	IP-09	02	Inclusion of Statutory Inspections	O.C
01/12/11	18	SP-09	01	Inclusion of new procedure for SCGT	O.C
01/12/11	19	SP-10	01	Inclusion of new procedure for SCGT	O.C
03/05/12	20	SP-01	02	Amendment to remove SF 028	O.C
05/05/12	21	SP-11	01	Inclusion of a new procedure for Greenogue	O.C
28/05/12	22	IP-11	03	General Amendments to internal audit procedure	M.D & O.C
08/06/12	23	IP-13	03	Grammatical amendment	M.D & O.C
15/04/13	24	IP-06	03	Agency staff – sign-off record sufficient proof of training. TMS optional	M.D & O.C





Doc. No.: ControlRevision No.: As ShownIssue Date: As ShownApproved By:Malcolm Dowling - Group Compliance ManagerPage 4 of 5

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
30/06/13	25	IP-16	01	Inclusion of new procedure	M.D.
09/09/13	26	IP-03	02	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
09/09/13	27	IP-04	30	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
09/09/13	28	IP-05	02	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
16/10/13	29	EP-03	03	Introduction of EPA ALDER Portal	K.B
28/04/14	30	All EP's & IP's	01	Change of Company name and review of all Integrated and Env procedures	M.D & O.C
28/04/14	31	SP's	01	Change of Company name and review of all safety procedures including re- numbering & deletion of Motor Claim Notification Procedure – SP 08	o.c
06/05/15	32	EP-09	02	Ref to new form EF-11 added	SS
21/01/16	33	IP-05/IP- 07/IP-12	02	Meeting frequency refs updated	SS
14/11/16	34	IP-18	02	Amended as per EPA instruction	SS
11/01/17	35	IP-19	01	New addition	SS





setting the standard		
Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Compliance Manager	Page 5 of 5

# **Circulation List**

The Integrated Procedures Manual is a controlled document. Copies of the Procedures Manual are available as follows;

Copy Number	Holder
1 (Master Copy)	Group EHS Manager
2	Greenstar EnviroManager
3	Greenstar Intranet – Electronic Copy