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ANNUAL ENVIRONMENTAL REPORT
RILTA ENVIRONMENTAL LTD.
SITE 14-A1 GREENOGUE BUSINESS PARK
LICENCE NO. W0185-01
JANUARY 2015 – DECEMBER 2015

Prepared For: -

Rilta Environmental Ltd,
Greenogue Business Park,
Rathcoole,
County Dublin.

Prepared By: -

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

24th March 2015

Project	Annual Environmental Report 2015			
Client	Rilta Environmental Ltd W0185-01			
Report No	Date	Status	Prepared By	Reviewed By
151850209	23/03/2015	Draft	Mr Neil Sandes PGeo EurGeol	Mr Jim O'Callaghan MSc
	24/03/2015	Final		

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1. INTRODUCTION

This is the 2015 Annual Environmental Report (AER) for the Rilta Environmental Limited (Rilta) Materials Recovery Facility (MRF) located at Unit 14-A1 Greenogue Business Park, Rathcoole, County Dublin. The report covers the period from the 1st January 2015 to the 31st December 2015. The content of the AER is based on Schedule E of the Waste Licence (W0185-01).

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility is located within an industrial estate approximately 2km east of Newcastle village and approximately 2.5km west of Rathcoole village. Rilta have been operating at the facility since 2009.

2.2 Waste Management Activities

During the reporting period the licence allowed Rilta to accept and process up to 60,000 tonnes of waste per annum, as set out in Appendix A and summarised below:

2.2.1 Waste Types & Processes

During the reporting period, the facility was licensed to accept the following waste categories and maximum quantities, as specified in Schedule A of the Licence: -

- Household Waste (7,000 tonnes)
- Commercial & Industrial Waste (15,000 tonnes)
- Construction & Demolition Waste (1,000 tonnes)
- Sewage Sludge (2,000 tonnes)
- Industrial Sludge (2,000 tonnes)
- Hazardous Waste (as listed in Table E.2.2 entitled 'Hazardous waste Types and Quantities' of the application (33,000 tonnes)

Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Act, 1996:

Class 7: Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination), which results in final compounds or mixtures, which are disposed of by means of any activity referred to in paragraphs 1 to 10 of this Schedule (including evaporation, drying and calcination);

This activity relates to the shredding of waste materials, including, household hazardous waste containers and metals, plastics, card and paper. Physico-chemical treatment may be carried out on effluents to meet discharge criteria.

Class 11: Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule;

This activity relates to bulking-up of waste on-site prior to shipment of waste for disposal offsite.

Class 12: Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule;

This activity relates to the baling and repackaging of various waste types prior to disposal off-site.

Class 13: Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced;

This activity relates to the storage of hazardous and non-hazardous waste at the facility prior to disposal off-site.

Licensed Waste Disposal Activities, Fourth Schedule of the Waste Management Act, 1996.

Class 2: Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processes);

This activity relates to the recycling of various organic substances including, wood, paper/cardboard, textile materials and vegetable oils.

Class 3: Recycling or reclamation of metals and metal compounds;

This activity relates to the dismantling, shredding, baling and recycling of various metal wastes.

Class 4: Recycling or reclamation of other inorganic materials;

This activity is limited to the reclamation of refrigerator gasses.

Class 11: Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:

This activity is to make provision for the acceptance on-site for transfer to an appropriate facility of waste that has been obtained from any activity referred to previously in the Schedule.

Class 12: Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule;

This activity refers to the exchange of certain waste types and their packaging for further processing off-site

Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced;

This activity is limited to the storage of waste at the facility prior to off-site recovery.

3. EMISSION MONITORING

Rilta implements the environmental monitoring programme specified in the licence to assess the significance of emissions from the site activities. The programme includes surface water, wastewater, groundwater, noise and dust monitoring. The monitoring locations are shown on the plan in Appendix A. The monitoring results are submitted to the Agency at quarterly intervals. An overview of the results is presented in this Section.

3.1 Surface Water Monitoring

Surface water monitoring was carried out quarterly at one location (SW1). There are no emission limit values (ELVs) or trigger levels set in the Licence. Following a request from the Agency, trigger levels were developed in September 2015 in accordance with the Agency's guidance on setting of trigger levels for storm water discharges to off-site surface waters at EPA licensed IPPC & Waste facilities based on data from Q-1 2009 to Q-3 2015.

Table 3.1 presents the surface water monitoring results in 2015. All parameters are below their respective warning levels.

Table 3.1 Surface water Monitoring Results 2015: SW1

Parameter	Units	Q1	Q2	Q3	Q4	Warning Level	Action Level
pH	pH units	7.07	6.79	6.42	7.48	8.78	9.34
Conductivity	mS/cm	237	175	187	92	573	715
COD	mg/l	26	17	23	13	57	76

3.2 Groundwater Monitoring

There are two groundwater monitoring wells on site (GW1 and GW2). The locations are shown on the plan in Appendix 1. GW1 is in the southern section of the site and is upgradient of GW2, which is in the northern end of the site.

Monitoring is carried out quarterly. The parameters analysed quarterly are pH, electrical conductivity, temperature, dissolved oxygen, chloride, sulphate, Total Organic Carbon. Annual monitoring of List I/II Organic Substances and dissolved metals are carried out annually.

Table 3.2 and Table 3.3 include the Q1 and Q2 groundwater analytical results for GW1 and GW2. The tables included for comparison purposes the Interim Guideline Values (IGV) prepared by the Agency and the groundwater Threshold Values (TV) from the Groundwater Regulations 2010.

Table 3.2 Q1 Groundwater Monitoring Results

Parameter	Unit	GW1	GW2	IGV	GTV
pH	pH Units	7.40	7.20	6.5-9.5	NE
EC	µS/cm	705	906	1,000	800 – 1,875
Dissolved Oxygen	mg/l	4	5	NAC	NE
Chloride	mg/l	17.6	30.5	30	24 – 187.5
Sulphate	mg/l	81.80	96.92	200	187.5
TOC	mg/l	<2	<2	NAC	NE

Table 3.3 Q2 Groundwater Monitoring Results

Parameter	Unit	GW1	GW2	IGV	GTV
Boron	µg/l	<12	29	1,000	750
Cadmium	µg/l	<0.5	<0.5	5	3.75
Calcium	mg/l	138.3	176.2	200	-
Copper	µg/l	<7	<7	30	1,500
Iron	µg/l	<20	<20	200	-
Lead	µg/l	<5	<5	10	18.75
Magnesium	mg/l	10.0	13.3	50	-
Manganese	µg/l	257	9	50	-
Nickel	µg/l	3	<2	20	15
Potassium	mg/l	0.5	2.6	5	-
Zinc	µg/l	<3	<3	100	-
Sulphate	mg/l	97.55	132.83	200	187.5
Chloride	mg/l	18.1	38.2	30	187.5
Dissolved Oxygen	mg/l	5	5	NAC	-
Electrical Conductivity	µS/cm	753	942	1,000	875 – 1,875
pH	pH units	7.35	7.16	6.5-9.5	-
Total Organic Carbon	mg/l	<2	<2	NAC	-
VOC	µg/l	ND	ND	-	-
sVOC	µg/l	ND	ND	-	-

NAC – no abnormal change

ND – None Detected

There was a slight exceedance of the IGV for chloride in GW2 in Q1, but GTV was not exceeded. There were exceedances of the IGV for manganese in GW1 and chloride in GW2 in Q2.

Following a request from the Agency proposed groundwater trigger levels were developed for each well in September 2015 based on guidance presented in the ‘Methodology for the Determination of Natural Background Quality of Groundwater, 2004’ . The results of the Q3 and Q4 groundwater monitoring are shown in Tables 3.4 and 3.5, which includes the proposed trigger levels.

Table 3.4 Groundwater Monitoring Results Q3 and Q4 2015: W1

Parameter	Units	Q3	Q4	Trigger Level Lower Limit	Trigger Level Upper Limit
pH	pH units	7.43	7.45	6.8	8.4
Conductivity	mS/cm	713	660	379	954
Dissolved Oxygen	mg/l	4	5	1.69	13.66
Chloride	mg/l	19.5	16.8	7.6	39.75
Sulphate	mg/l	81.8	94.24	38.14	170.44
TOC	mg/l	<2	<2	0.68	8.58

Table 3.5 Groundwater Monitoring Results Q3 and Q4 2015: W2

Parameter	Units	Q3	Q4	Trigger Level Lower Limit	Trigger Level Upper Limit
pH	pH units	7.42	7.27	6.57	8.35
Conductivity	mS/cm	627	707	576	1,126
Dissolved Oxygen	mg/l	6	5	1.74	13.44
Chloride	mg/l	15.7	16.5	15.50	45.71
Sulphate	mg/l	79.61	81.29	74.55	207.64
TOC	mg/l	<2	<2	1.11	12.46

All parameters were within the trigger level. There is no significant change in water quality between the upgradient and downgradient wells.

3.3 Wastewater Monitoring

The facility is designed to collect wastewater (foul) from floor wash downs in the warehouse building and discharge to it to the municipal sewer that serves the industrial estate. However, as putrescible wastes are not accepted at the facility and floor wash downs are not required, there is no wastewater discharge to sewer and no requirement for monitoring to be carried out.

3.4 Noise Survey

An annual noise survey is carried out. Due to an oversight this was not carried out in 2015, but was conducted in March 2016. Daytime noise monitoring was carried out at approved noise monitoring locations as shown on the site plan in Appendix 1 and the results are summaries in Tabl3 3.6. Site operations were not audible at any of the stations and were therefore lower than the 55dB daytime limit as specified in the licence.

Table 3.6 Day-time Noise Survey Results

Station	N1	N2	N3
Period	Daytime	Daytime	Daytime
Ambient $L_{Aeq\ 30\ min}$ (dB)	64	61	54
Facility specific $L_{Aeq\ 30\ min}$ (dB)	<<48	<<44	<<48
Tone objectively detected	x	x	x
Tone attributable to facility	x	x	x
Facility audibly tonal	x	x	x
Facility audibly impulsive	x	x	x
Facility rated $L_{Req\ 30\ min}$ (dB)	<<48	<<44	<<48
Limit (dB)	55	55	55
Compliance	✓	✓	✓

3.5 Dust Monitoring

Dust monitoring was carried out in August, September and October and the results are in Table 3.7. There were no exceedances of the dust deposition limit ($350\ mg/m^2/day$) set in the Licence.

Table 3.7 Dust Monitoring Results 2015

	August $mg/m^2/day$	September $mg/m^2/day$	October $mg/m^2/day$	Deposition Limit $mg/m^2/day$
D-1	9.2	16.16	13.58	350
D-2	25.5	7.29	140.42	350
D-3	26.4	5.67	21.77	350
D-4	21.8	15.15	40.90	350

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

There was no engineering works completed in 2015 and none are proposed for 2016.

4.2 Summary of Resource & Energy Consumption

Table 4.1 is a summary of the resource and energy consumption during the reporting period and a comparison with the consumption in 2014..

Table 4.1 Resources Used On-Site in 2014 & 2015

Resources	Quantities 2014	Quantities 2015
Road Diesel	920 Litres	1,220 Litres
Electricity	53,160 KwH	56,100 KwH
Water	360m ³	480m ³

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and Table 5.2 shows the total quantities of waste consigned from the facility in 2015. Table 5.3 shows the quantities of waste received and consigned in previous years. A breakdown of the waste types is provided in accordance with the List of Waste. A more detailed description of the wastes consigned and the waste destinations are provided in the PRTR submission in Appendix 2.

The total amount received in 2015 was 1,332 tonnes. The total amount consigned was 1,403.5 tonnes. The difference in waste received into and consigned is 71.533 tonnes. This relates to waste that was on-site at the end of 2014 and which was consigned in 2015. All the wastes consigned from the site went to authorised recovery and disposal facilities.

Table 5.1 Waste Received 2015

EWC	Description	Waste In
16 02 11*	WEEE	97.74
16 02 13*	Transformers	1062.508
16 02 14	Redundant Equipment	171.76

Table 5.2 Waste Consigned 2015

EWC	Description	Waste Out
13 03 07*	Mineral Based non-chlorinated insulating and heat transmission oils	208
13 05 07*	Oily Water from oil/water interceptors	4.88
16 02 11*	Discarded equipment containing chlorofluorocarbons, HCFC, HFC	97.74
16 02 14	Discarded Equipment other than those mentioned in 16 02 09 to 16 02 13	171.76
19 12 02	Ferrous Metal	790.34
19 12 03	Non-ferrous Metal	108.061
16 07 99	Wastes not otherwise specified	4.98
16 07 08*	Wastes containing oil	17.78
	Total Received	
	Total Consigned	1,403.541
	Recovered	1375.901
	Disposed	27.64
	Recovery Rate (%)	98.03%

Table 5.3 Waste Received & Consigned in Recent Years

	2014	2013	2012	2011	2010
Total Received	2615.18	2614.40	2714	2617.5	3143.15
Total Consigned	2,546.67	2478.48	2788.20	2339.69	2972.75
Total Recovered	2,528.81	2474.98	2753.30	2339.69	2972.75
Total Disposed	17.86	3.5	34.9	0	0
Recovery Rate	99.30%	99.86%	98.75%	100%	100%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no environmental incidents at the site in 2015.

6.2 Register of Complaints

Rilta maintains a register of complaints received in accordance with Condition 10.4 of the waste licence. There were no complaints during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

Rilta 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. Rilta 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 facility was recertified in February 2015.

The schedule of the EMS Objectives and Targets, including their status for 2015 is included in Appendix 3. A schedule of proposed Objectives and Targets for 2016 is included in Appendix 4.

7.2 Site Management Structure

Details of the site management structure are provided in Appendix 5.

7.3 Environmental Management Programme

The objectives that were achieved during this reporting period are outlined in Appendix 3.

7.4 Communications Programme

Rilta maintains a 'Public File' which contains all correspondence between Rilta and the Agency, all waste data and monitoring data as required by the licence. 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 01 401 8000

7.5 Nuisance Controls

Rilta has contracted an external vermin control company to carry out nuisance control at the facility.

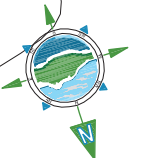
8. OTHER REPORTS

8.1 European Pollutant Release and Transfer Register

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 Rilta 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 in Appendix 2.

APPENDIX 1

Site Plan showing Environmental Monitoring Locations



- LEGEND:**
- SURFACE WATER DISCHARGE POINT
 - GROUNDWATER MONITORING WELL
 - NOISE MONITORING POINT
 - FLOOD WATER MONITORING POINT
 - DUST MONITORING POINT

Rev	Date	Description	By	Check
001	18.04.11	ISSUE FOR TENDER	MM	ST
002	19.04.11	REVISED FOR TENDER	MM	ST

Client: **RILTA Environmental Limited**

Project: **RILTA WASTE FACILITY AT GREENOGUE BUSINESS PARK**

Title: **ENVIRONMENTAL MONITORING LOCATIONS**

Scale @ A1: **1:125**

Prepared by: **M. Nolan** Checked: **April 2011** Date:

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 Unit 15 Melbourn Business Park,
 Mabel Farm Road,
 Carrick.

APPENDIX 2

European Pollutant Release and Transfer Register



Environmental Protection Agency

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.18

REFERENCE YEAR	2015
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1. FACILITY IDENTIFICATION

Parent Company Name	Rilta Environmental Limited
Facility Name	Rilta Environmental
PRTR Identification Number	W0185
Licence Number	W0185-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Block 402, Grant Drive
Address 2	Greenogue Business Park
Address 3	Rathcoole
Address 4	
	Dublin
Country	Ireland
Coordinates of Location	-6.47708 53.2999
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Colm Hussey
AER Returns Contact Email Address	colm.hussey@rilta.ie
AER Returns Contact Position	Site Manager
AER Returns Contact Telephone Number	01 401 8000
AER Returns Contact Mobile Phone Number	087 9176264
AER Returns Contact Fax Number	01 401 8080
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	www.rilta.ie

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(a)	Installations for the recovery or disposal of hazardous waste
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?	No
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 on-site treatment (either recovery or disposal activities) ?	Yes
------------------------------------------------------------------------------------------------------------	-----

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0185 | Facility Name : Riita Environmental | Filename : W0185_2015 PRTR.XLS | Return Year : 2015 |

15/03/2016 12:28

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			QUANTITY			
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

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			QUANTITY			
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

* 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)

POLLUTANT		METHOD			QUANTITY			
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

* 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:		Riita Environmental			
Please enter summary data on the quantities of methane flared and / or utilised		M/C/E	Method Used		Facility Total Capacity m3 per hour
	T (Total) kg/Year		Method Code	Designation or Description	
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# : W0185 | Facility Name : Riita Environmental | Filename : W0185_2015 PRTR.XLS | Return Year : 2015 |

15/03/2016 12:31

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 t

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
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

* 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			
POLLUTANT		Method Used			QUANTITY			
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

* 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			
POLLUTANT		Method Used			QUANTITY			
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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0185 | Facility Name : Rilta Environmental | Filename : W0185_2015 PRTR.XLS | Retu

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SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

* 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)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0185 | Facility Name : Rilta Environmental | Filename : W0185_2015 PRTR.XLS | Return Year : 2015 |

15/03/2016 12:32

SECTION A : PRTR POLLUTANTS

POLLUTANT		RELEASES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
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

* 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)

POLLUTANT		RELEASES TO LAND			Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
Pollutant No.	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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0185 | Facility Name : Riita Environmental | Filename : W0185_2015 PRTR.XLS | Return Year : 2015 |

15/03/2016 12:33

Please enter all quantities on this sheet in Tonnes

9

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Haz Waste : Address of Next Destination Facility	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)
						M/C/E	Method Used		Non-	Non Haz Waste: Address of Recover/Disposer		
Within the Country	13 03 07	Yes	208.0	mineral-based non-chlorinated insulating and heat transmission oils	R9	M	Weighed	Offsite in Ireland	Riita Environmental Ltd,w0192-3	402 Greenogue Business Park,,Rathcoole,Co. Dublin,Ireland	Riita Environmental Ltd,W192-3,402 Greenogue Business Park, ,Rathcoole,Co. ,Rathcoole,Co. Dublin,Ireland	402 Greenogue Business Park, ,Rathcoole,Co. Dublin,Ireland
Within the Country	13 05 07	Yes	4.88	oily water from oil/water separators discarded equipment containing	D9	M	Weighed	Offsite in Ireland	Riita Environmental Ltd,w0192-3	402 Greenogue Business Park,,Rathcoole,Co. Dublin,Ireland	Riita Environmental Ltd,W192-3,402 Greenogue Business Park, ,Rathcoole,Co. ,Rathcoole,Co. Dublin,Ireland	402 Greenogue Business Park, ,Rathcoole,Co. Dublin,Ireland
To Other Countries	16 02 11	Yes	97.74	chlorofluorocarbons, HCFC, HFC discarded equipment other than those	R4	M	Weighed	Abroad	Tech Rec NI.,	Dungannon, ,. Co. Tyrone,Ireland	Tech Rec NI.,,Dungannon, ,.Co. Tyrone,Ireland	Dungannon,.,Co. Tyrone,Ireland
Within the Country	16 02 14	No	171.76	mentioned in 16 02 09 to 16 02 13	R4	M	Weighed	Offsite in Ireland	WP 05/04	Dock Road,, Limerick,,Ireland	Hegarty Metals,Permit No. Dock Road,, Limerick,,Ireland	
Within the Country	19 12 02	No	790.34	ferrous metal	R4	M	Weighed	Offsite in Ireland	WP 05/04	Dock Road,, Limerick,,Ireland	Hegarty Metals,Permit No. Dock Road,, Limerick,,Ireland	
Within the Country	19 12 03	No	108.061	non-ferrous metal	R4	M	Weighed	Offsite in Ireland	WP 05/04	Dock Road,, Limerick,,Ireland	Hegarty Metals,Permit No. Dock Road,, Limerick,,Ireland	
Within the Country	16 07 99	No	4.98	wastes not otherwise specified	D9	M	Weighed	Offsite in Ireland	Riita Environmental Ltd,w0192-3	402 Greenogue Business Park,,Rathcoole,Co. Dublin,Ireland	Riita Environmental Ltd,W192-3,402 Greenogue Business Park, ,Rathcoole,Co. ,Rathcoole,Co. Dublin,Ireland	
Within the Country	16 07 08	Yes	17.78	wastes containing oil	D9	M	Weighed	Offsite in Ireland	Riita Environmental Ltd,w0192-3	402 Greenogue Business Park,,Rathcoole,Co. Dublin,Ireland	Riita Environmental Ltd,W192-3,402 Greenogue Business Park, ,Rathcoole,Co. ,Rathcoole,Co. Dublin,Ireland	

APPENDIX 3

Schedule of 2015 Targets and Objectives

RILTA ENVIRONMENTAL Ltd.

ENVIRONMENTAL MANAGEMENT SYSTEM

RILTA
Environmental
Limited



ENVIRONMENTAL MANAGEMENT PLAN

In accordance with
ISO 14001

ENVIRONMENTAL MANAGEMENT PROGRAMME FOR THE ACHIEVEMENT OF OBJECTIVES AND TARGETS

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
1	Increase environmental awareness among RILTA staff.	Conduct site tours for all staff before end 2015	Inform office staff/sales reps of intentions	CH	Apr 15	N
			Collate staff into groups of no more than 5 persons per site tour	CH	Apr 15	No
			Complete site walks on non month-end Fridays		Dec 15	N
2	Optimize waste tracking from cradle to grave	Install suitable waste tracking system for all waste	Chose vendor	CH/DM	Feb 15	Yes
			Test System	CH/DM	Apr 15	N
			Install system	CH/DM	June 15	N
			Snag system	CH/DM	July 15	N

<i>Issue No.</i>	011	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2015	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
3	Ensure quality drainage system	No leaks	Assess 3 no. pipe 'falls' and replace if possible	CH	Dec 15	Yes
			Fix all cracks on hard-standing areas	CH	June 15	Y
			Re-coat the settlement tanks	CH/TMc	Dec 15	N
4	Ensure only clean water released to the river	No ELV breaches	Implement thorough cleaning of attenuation tank and repeat on a yearly basis	CH/SH	June 15	Y
			Skim storm water interceptor on a monthly basis	CH/SH	Ongoing	Y
			Replace/Repair damaged concrete on a rota basis to ensure no damaged areas by 2016	CH/SH	Dec 15	Y
			Develop rota for both monthly and annual events	CH/SH	Apr 15	N

<i>Issue No.</i>	011	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2015	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
5	Reduce use of hazardous raw materials used on site.	Implement the 'treat waste with waste' best practice method on an ongoing basis	Source suitable waste streams for treatment	RS	Ongoing	Y
			Laboratory approval for the usage of wastes for treatment	TMc	Ongoing	Yes
6	Optimize the quality of trade effluent	No ELV breaches	Clean 'wet wells' twice a year	TMc	Dec 15	Y
			Clean DAF system twice a year	TMc	Dec 15	Y

<i>Issue No.</i>	011	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2015	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
7	To be a good and considerate neighbour.	No complaints	Complete noise monitoring.	CH	Ongoing	Yes
			Monitor adjoining river on a quarterly basis.	CH	Ongoing	Y
			Implement 'closed door' policy system when unloading liquid waste tankers where possible	CM/DG	Ongoing	Y
			Cold cutting at the cedar site to take place inside with doors close	DG	Ongoing	Y
			Inform neighbours when bulk soil/sludge are being moved off site	CH	Ongoing	Yes
			Make contact with Fortunes and Bailey care on a quarterly basis			Y

<i>Issue No.</i>	011	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2015	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
8	To Be Energy Efficient	Reduce electricity usage by 5%	Complete targeted energy audit at both 402 and 14A1 sites. Assess findings of audit. Implement findings of audit if economically and practically feasible.	CH CH/EI CH/EI	Aug 15 Sept 15 Dec 15	No N N

<i>Issue No.</i>	011	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2015	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

APPENDIX 4

Schedule proposed Targets and Objectives 2016

RILTA ENVIRONMENTAL Ltd.

EHS MANAGEMENT SYSTEM

RILTA
Environmental
Limited



EHS MANAGEMENT PLAN

In accordance with
ISO 14001 & OHSAS18001

ENVIRONMENTAL MANAGEMENT PROGRAMME FOR THE ACHIEVEMENT OF OBJECTIVES AND TARGETS

<i>EMP Ref.</i>	<i>Objective</i>	<i>Target</i>	<i>Environmental Management Programme for the implementation of objectives.</i>	<i>Responsible Person</i>	<i>Completion Date</i>	<i>Completed (Y/N)</i>
1	Increase environmental awareness among RILTA staff.	Conduct site tours for all staff before end 2016	Collate staff into groups of no more than 5 persons per site tour	CH	Apr 16	
			Complete site walks on non month-end Fridays	CH	Oct 16	
		Complete Staff Environmental Training Package	Andy Wood and CH to develop training package	CH	Jan 16	Yes
			AW and CH to start delivering training package	CH	Feb 16	Yes
			Further training to be developed on foot of original Training findings.	CH	June 16	Yes

<i>Issue No.</i>	012	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2016	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

2	Optimize waste tracking from cradle to grave	Install suitable waste tracking system for all waste	Install system	CH/DM	Jan 16	Yes
			Snag system	CH/DM	Feb 16	
			Track asbestos	CH/DM	March 16	
			Switch Off Old System	CH/DM	Aug 16	

<i>Issue No.</i>	012	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2016	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
3	Ensure quality drainage system	No leaks	Re-coat the settlement tank (1)	CH	June 16	
			Re-coat the settlement tank (2)	CH	August 16	
			Re-coat the settlement tank (3)	CH	October 16	
4	Ensure only clean water released to the river	No ELV breaches	Empty and clean attenuation tank	CH/SH	June 16	Y
			Skim storm water interceptor on a monthly basis	CH/SH	Ongoing	Y
			Replace/Repair damaged concrete on a rota basis to ensure no damaged areas by 2016	CH/SH	Dec 16	Y

<i>Issue No.</i>	012	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2016	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
5	Reduce use of hazardous raw materials used on site.	Implement the 'treat waste with waste' best practice method on an ongoing basis	Source suitable waste streams for treatment	RS	Ongoing	Y
			Laboratory approval for the usage of wastes for treatment	TMc	Ongoing	Yes
6	Optimize the quality of trade effluent	No ELV breaches	Clean 'wet wells' twice a year	TMc	Dec 16	Y
			Clean DAF system twice a year	TMc	Dec 16	Y

<i>Issue No.</i>	012	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2016	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
7	To be a good and considerate neighbour.	No complaints	<p>Complete noise monitoring.</p> <p>Monitor adjoining river on a quarterly basis.</p> <p>Implement 'closed door' policy system when unloading liquid waste tankers where possible</p> <p>Cold cutting at the cedar site to take place inside with doors close</p> <p>Inform neighbours when bulk soil/sludge are being moved off site</p> <p>Make contact with Fortunes and Bailey care on a quarterly basis</p>	<p>CH</p> <p>CH</p> <p>CM/DG</p> <p>DG</p> <p>CH</p> <p>CH</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	

<i>Issue No.</i>	012	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2016	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

<i>EMP Ref.</i>	<i>Objective</i>	<i>Target</i>	<i>Environmental Management Programme for the implementation of objectives.</i>	<i>Responsible Person</i>	<i>Completion Date</i>	<i>Completed (Y/N)</i>
8	To Be Energy Efficient	Reduce electricity usage by 5%	<p>Complete targeted energy audit at both 402 and 14A1 sites.</p> <p>Assess findings of audit.</p> <p>Implement findings of audit if economically and practically feasible.</p>	<p>CH</p> <p>CH/SC</p> <p>CH/SC</p>	<p>Aug 16</p> <p>Sept 16</p> <p>Dec 16</p>	

<i>Issue No.</i>	012	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2016	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

EMP Ref.	Objective	Target	Environmental Management Programme for the implementation of objectives.	Responsible Person	Completion Date	Completed (Y/N)
9	Reduce Process Waste	Reduce filtercake volumes	Install and commission sludge drying plant Investigate alternative uses for the new dried waste	CH CH	May 16 Sept 16	
10	Reduce The Number of Lost Time Accidents	Aim for Zero Lost Time Accidents	Tailor Manual Handling Training to emphasize the need to cut out 'reaching and lifting' Aim for 100% Manual and Chemical handling	CH CH	May 16 Dec 16	
11						

<i>Issue No.</i>	012	<i>Compiled by: Name/Position</i>	Colm Hussey Facility & Environmental Manager
<i>Date:</i>	Feb 2016	<i>Reviewed by: Name/Position</i>	Sean Cotter General manager

APPENDIX 5

Management Structure

Rilta Environmental Management Structure

