Unit 15
Melbourne Business Park
Model Farm Road
Cork

O'Callaghan Moran & Associates
ENVIRONMENTAL MANAGEMENT FOR BUSINESS

E:info@ocallaghanmoran.com
www.ocallaghanmoran.com
T: 021 434 5366

ANNUAL ENVIRONMENTAL REPORT

RILTA ENVIRONMENTAL LTD.

BLOCK 402 GREENOGUE BUSINESS PARK

LICENCE NO. W0192-03

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,
Model Farm Road,
Cork.

8th April 2016

Project	Annual Environmental Report 2015			
Client	Rilta Environmental Ltd W0192-03			
Report No	Date	Status	Prepared By	Reviewed By
151850109	08/04/2016	Draft	Mr Neil Sandes PGeo EurGeol	Mr Jim O'Callaghan MSc
	08/04/2016	Final		

TABLE OF CONTENTS

PAGE

1. INTRODUCTION 1

2. SITE DESCRIPTION 2

2.1 SITE LOCATION AND LAYOUT 2
2.2 WASTE MANAGEMENT ACTIVITIES 2

3. EMISSION MONITORING 4

3.1 SURFACE WATER MONITORING 4
3.2 GROUNDWATER MONITORING 5
3.3 WASTEWATER MONITORING 9
3.4 NOISE SURVEY 12
3.5 DUST MONITORING 13
3.6 AIR QUALITY 13
3.7 NUISANCE CONTROL REVIEW 13

4. SITE DEVELOPMENT WORKS 14

4.1 ENGINEERING WORKS 14
4.2 SUMMARY OF RESOURCE & ENERGY CONSUMPTION 14

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY 15

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS 18

6.1 INCIDENTS 18
6.2 REGISTER OF COMPLAINTS 18

7. ENVIRONMENTAL DEVELOPMENT 19

7.1 ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT 19
7.2 SITE MANAGEMENT STRUCTURE 19
7.3 ENVIRONMENTAL MANAGEMENT PROGRAMME 19
7.3.1 Schedule of Objectives 2015 19
7.4 COMMUNICATIONS PROGRAMME 19
7.5 REPORT FINANCIAL PROVISION 20
7.6 NUISANCE CONTROLS 20
7.7 TANK AND PIPELINE TESTING 20
7.8 WATER DEMAND AND TRADE EFFLUENT DISCHARGE 20
7.9 EFFICIENCY OF USE OF RAW MATERIALS / REDUCTION IN WASTE GENERATED 20

8. OTHER REPORTS 21

8.1 EUROPEAN POLLUTANT RELEASE AND TRANSFER REGISTER 21

APPENDIX 1 - Site Plan with Environmental Monitoring Locations
APPENDIX 2 - European Pollutant Release and Transfer Register
APPENDIX 3 - Schedule of Targets and Objectives 2015
APPENDIX 4 - Proposed Schedule of Targets & Objectives 2016
APPENDIX 5 - Rilta Environmental Management Structure

1. INTRODUCTION

This is the 2015 Annual Environmental Report (AER) for Rilta Environmental Limited's (Rilta) Materials Recovery Facility (MRF) located at Block 402, 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 Condition 10.1 and Schedule E of the Industrial Emissions Licence (W0192-03) and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Environmental Protection Agency (Agency)[1]. Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in December 2013[2].

[1] EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency
[2] EPA (Environmental Protection Agency) 2013 AER Draft Guidance Document

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. A site layout plan is in Appendix 1.

2.2 Waste Management Activities

The current licence allows Rilta to accept and process up to 111,000 tonnes of non-hazardous and hazardous waste per annum, as set out in Appendix A and Table 2.1 below:

Table 2.1 Waste Types and Quantities (W0192-03)

Waste Type			Maximum Allowable Annual Tonnage Note 3
Non-Hazardous Waste Notes 1,2		**Description**	
		Commercial Waste	500
		C & D Waste	500
		Industrial Sludges	1,000
		Other Industrial Waste	3,000
Non-Hazardous Waste Total			**5,000**
Hazardous Waste	**EWC Code**	**Description**	Maximum Allowable Annual Tonnage Note 3
	13 05 03*	Interceptor Sludges	10,000
	16 07 08*	Waste containing Oil	2,000
	16 10 01*	Aqueous Liquid waste containing Dangerous Substances	1,500
	17 05 03*	Soil and Stones containing Dangerous Substances	60,000
	17 06 01*	Insulation Materials and Construction Materials containing Asbestos	8,000
	17 06 05*		
	Other Note 4		24,500
Hazardous Waste Total			**106,000**
Total Tonnage per Annum			**111,000**

Note 1: Any proposals to accept other compatible non-hazardous waste types must be agreed in advance with the Agency.
Note 2: Excluding putrescible waste.
Note 3: The limitations on individual hazardous and non-hazardous waste types may be varied with the agreement of the Agency subject to the **total annual waste quantity remaining the same.**
Note 4: Hazardous waste types as detailed in Attachment H.1 of the review application for this licence Reg No: 192-03 or may be otherwise agreed in advance with the Agency.

Waste activities at are restricted to those listed in *Part 1 – Schedule of Activities Licensed.*

Licensed Waste Disposal Activities, in accordance with the 3rd Schedule of the Waste Management Act, 1996 to 2010:

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);

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

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

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.

Licensed Waste Disposal Activities, 4th Schedule of the Waste Management Acts 1996 to 2010:
Class 2: Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processes);

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

Class 4: Recycling or reclamation of other inorganic materials;

Class 6: Recovery of components used for pollution abatement;

Class 8: Oil re-refining or other re-uses of oil; and

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.

3. EMISSION MONITORING

Rilta implements the environmental monitoring programme specified in the licence to assess the significance of emissions from site activities. The programme includes surface water, wastewater, groundwater, noise, air and dust monitoring.

The monitoring locations are shown on the site layout plan in Appendix 1. The results are submitted in reports to the Agency at quarterly intervals. An overview of the results is presented in this Section, which includes tabulated data.

3.1 Surface Water Monitoring

The rainwater run-off from the hard standing and building roofs discharges to a tributary of the River Grifeen, which flow along the northern site boundary. The tributary flows from east to west towards the River Grifeen. Surface water samples were collected at the discharge point (SW-3) and in the stream at SW-1, which is upstream and SW-2, which is downstream of SW-3. Tables 3.1 to 3.3 present the results for 2015. Table 3.3 includes the Emission Limit Values (ELV) specified in the licence. The emission complied with the ELVs

Table 3.1 Surface water Monitoring Results 2015: SW-1

Parameter	Units	Q1	Q2	Q3	Q4
pH	pH units	8.21	7.99	8.36	8.20
COD	mg/l	<7	<7	10	7
Total Suspended Solids	mg/l	11	<10	<10	<10
Mineral Oil	mg/l	<0.01	<0.001	<0.01	<0.01

Table 3.2 Surface water Monitoring Results 2015: SW-2

Parameter	Units	Q1	Q2	Q3	Q4
pH	pH units	8.20	7.85	8.37	8.14
COD	mg/l	<7	<7	17	8
Total Suspended Solids	mg/l	<10	23	10	<10
Mineral Oil	mg/l	<0.01	<0.001	<0.01	<0.01

Table 3.3 Surface water Monitoring Results 2015: SW-3

Parameter	Units	Q1	Q2	Q3	Q4	ELV
pH	pH units	6.84	7.55	7.34	6.76	-
COD	mg/l	39	<7	52	29	-
Total Suspended Solids	mg/l	<10	<10	13	<10	35
Mineral Oil	mg/l	0.316	<0.001	<0.01	<0.01	5

3.2 Groundwater Monitoring

There are three on-site groundwater monitoring wells (BH-1, BH-2 and BH-3) at the locations shown on the plan in Appendix 1. BH-1 is in the southern (upgradient) section of the site. BH-2 and BH-3 are located in the northern (downgradient) section of the site.

The monitoring includes monthly measurement of groundwater levels and the collection and analysis of samples for pH, electrical conductivity and temperature, quarterly monitoring for pH, electrical conductivity, volatile organic compounds (VOCs), semi volatile organics (sVOC), pesticides, mineral oil, benzene, toluene, ethylbenzene, xylene, arsenic and mercury. and annually for dissolved oxygen, alkalinity, sulphate, total cyanide, chloride, boron, cadmium, calcium, total chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

There are no trigger levels set in the Licence, but for comparative purposes the Table includes the EPA Interim Guideline Values (IGVs) on groundwater quality and the Groundwater Regulations Threshold Value (TV) which were introduced in 2010 (S.I. 9 of 2010)

Table 3.4 includes the monthly field reading results for the three wells. There were no exceedances of the IGV / TVs.

Tables 3.5 to 3.8 include the quarterly groundwater results, with the annual results included in Table 3.6.

Table 3.5 Q1 Groundwater Monitoring Results

Parameter	Units	BH-1	BH-2	BH-3	IGV	TV
pH	pH Units	7.93	9.14	7.05	6.5-9.5	-
E.C.	µS/cm	812	262	402		875 – 1,875
Mercury	mg/l	<0.001	<0.001	<0.001		0.00075
Arsenic	mg/l	<0.0025	0.0036	0.0066		0.0075
Benzene	µg/l	<0.5	<0.5	<0.5		0.75
Toluene	µg/l	<0.5	<0.5	<0.5	10	-
Ethylbenzene	µg/l	<0.5	<0.5	<0.5	10	-
o-Xylene	µg/l	<0.5	<0.5	<0.5	10	-
m-Xylene	µg/l	<1	<1	<1	10	-
MTBE	µg/l	<0.1	4.8	16.1	30	-
Mineral Oil	mg/l	<0.01	<0.01	<0.01	0.01	-
VOC (Excluding BTEX)	µg/l	ND	ND	ND	*	-
SVOC	µg/l	ND	ND	ND	*	-
Pesticides	µg/l	ND	ND	ND	*	-

* - various IGVs in place for individual VOCs.
ND – not detected

In Q1, the pH and electrical conductivity were within the IGV range. Mercury, pesticides, mineral oil, SVOCs and BTEX compounds were not detected in any of the samples. VOCs were not detected with the exception of MTBE, which was present at levels below the IGV in BH-2 and BH-3. Arsenic was also detected in BH-2 and BH-3, but the levels were lower than the TV.

Table 3.4 Monthly Monitoring Results

BH-1	**Unit**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**IGV**	**TV**
Water Level	mBTOC	2.3	2.36	2.41	2.38	2.34	2.41	2.59	2.62	2.68	2.50	2.34	2.30		
pH	pH Units	7.76	7.83	7.36	8.65	8.97	8.90	7.43	7.56	7.59	7.25	6.72	6.98	6.5-9.5	
Electrical Conductivity	µS/cm	896	810	823	440	449	456	642	612	609	726	816	798	1,000	800 – 1,875
Temperature	ºC	10.9	11.3	11.2	11.1	11.2	11.4	11.9	11.8	11.8	12.0	12.4	12.2	25	
BH-2	**Unit**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**		
Water Level	mBTOC	2.68	2.85	2.95	2.80	2.86	2.93	2.98	2.99	3.10	3.17	2.96	2.92		
pH	pH Units	9.16	9.05	9.51	7.98	8.03	7.88	8.34	8.56	8.26	8.03	7.27	7.59	6.5-9.5	
Electrical Conductivity	µS/cm	286	278	265	354	320	354	355	341	389	423	477	485	1,000	800 – 1,875
Temperature	ºC	10.8	11.1	11.6	10.4	10.3	10.5	11.3	11.6	11.8	11.7	11.6	11.5	25	
BH-3	**Unit**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**		
Water Level	mBTOC	1.35	1.46	1.58	1.56	1.59	1.68	1.65	1.72	1.74	1.70	1.57	1.62		
pH	pH Units	7.0	7.19	7.26	8.03	8.55	8.69	9.05	9.26	8.99	8.56	8.04	8.89	6.5-9.5	
Electrical Conductivity	µS/cm	401	416	386	368	350	385	388	426	432	406	392	416	1,000	800 – 1,875
Temperature	ºC	11.1	11.2	10.8	11.2	11.2	11.4	11.7	11.6	11.8	11.5	11.2	11.3	25	

Table 3.6 Q2 Groundwater Monitoring Results

Parameter	Units	BH-1	BH-2	BH-3	IGV	TV
pH	pH Units	7.79	8.05	8.97	6.5-9.5	-
E.C.	µS/cm	449	320	350	1,000	875 –
Mercury	µg/l	<1	<1	<1	1	0.75
Arsenic	µg/l	<2.5	<2.5	<2.5	10	7.5
Boron	µg/l	24	30	37	1,000	750
Cadmium	µg/l	<0.5	<0.5	<0.5	5	3.75
Calcium	mg/l	101.1	32.7	26.9	200	-
Copper	µg/l	<7	<7	<7	30	1,500
Total Iron	µg/l	<20	<20	<20	200	-
Lead	µg/l	<5	<5	6	10	18.75
Magnesium	mg/l	18.4	3.4	1.3	50	-
Manganese	µg/l	<2	20	15	50	-
Nickel	µg/l	<2	3	12	20	15
Potassium	mg/l	4.1	2	4.8	5	-
Sodium	mg/l	54	26.1	33.6	150	150
Zinc	µg/l	<3	8	<3	100	-
Total Chromium	µg/l	2.8	1.6	<1.5	30	37.5
Sulphate	mg/l	63.24	43.28	30.76	200	187.5
Chloride	mg/l	79.9	17.1	39.5	30	187.5
Total Cyanide	mg/l	<0.01	<0.01	<0.01	0.01	0.0375
Total Alkalinity as CaCO3	mg/l	268	102	88	NAC	-
Dissolved Oxygen	mg/l	9	5	5	NAC	-
Benzene	µg/l	<0.5	<0.5	1.4	1	0.75
Toluene	µg/l	<0.5	<0.5	<0.5	10	-
Ethylbenzene	µg/l	<0.5	<0.5	<0.5	10	-
o-Xylene	µg/l	<0.5	<0.5	<0.5	10	-
p/m-Xylene	µg/l	<1	<1	<1	10	-
MTBE	µg/l	<0.1	5.6	12.1	30	-
Mineral Oil	mg/l	0.060	0.598	0.102	0.01	-
VOC (Excluding BTEX)	µg/l	ND	ND	ND	*	*
SVOC	µg/l	ND	ND	ND	*	*

* - various IGVs in place for individual VOCs.
ND – not detected
NAC – no abnormal change

In Q2 the pH and electrical conductivity were within the IGV range. Mercury, arsenic, cadmium, copper, iron, cyanide and SVOCs were not detected in any of the samples. VOCs were not detected, with the exception of benzene which was present in BH-3 at a concentration that exceeded the IGV and TV and MTBE which was detected in BH-2 and BH-3 but at concentrations that were lower than the IGV. Mineral Oil was detected in BH-1, BH-2 and BH-3 at concentrations greater than the IGV of 0.01mg/l, with the highest concentration in BH-2.

Table 3.7 Q3 Groundwater Monitoring Results

Parameter	Units	BH-1	BH-2	BH-3	IGV	TV
pH	pH Units	7.55	8.12	8.48	6.5-9.5	-
E.C.	µS/cm	588	338	371		875 – 1,875
Mercury	mg/l	<0.001	<0.001	<0.001		0.00075
Arsenic	mg/l	<0.0025	<0.0025	0.0033		0.0075
Benzene	µg/l	ND	ND	ND		0.75
Toluene	µg/l	7.2	4.9	5.6	10	-
Ethylbenzene	µg/l	ND	ND	ND	10	-
o-Xylene	µg/l	ND	ND	ND	10	-
m-Xylene	µg/l	ND	ND	ND	10	-
MTBE	µg/l	<0.1	4.4	13.3	30	-
Mineral Oil	mg/l	<0.01	0.27	<0.01	0.01	-
VOC (Excluding BTEX)	µg/l	ND	ND	ND	*	-
SVOC	µg/l	ND	ND	ND	*	-
Pesticides	µg/l	ND	ND	ND	*	-

* - various IGVs in place for individual VOCs.
ND – not detected

In Q3, the pH and electrical conductivity were within the IGV range. Mercury, SVOCs and pesticides were not detected in any of the groundwater wells. VOCs were not detected, with the exception of Toluene which was detected in all wells and MTBE which was detected in BH-2 and BH-3 but at concentrations that were lower than the IGV. Mineral Oil was detected in BH-2 at a concentration that exceeded the IGV, but significantly lower than detected in Q2. Arsenic was detected in BH-3, but at a concentration lower that the TV.

Table 3.8 Q4 Groundwater Monitoring Results

Parameter	Units	BH-1	BH-2	BH-3	IGV	TV
pH	pH Units	7.57	7.99	8.54	6.5-9.5	-
E.C.	µS/cm	734	453	381		875 – 1,875
Mercury	mg/l	<0.001	<0.001	<0.001		0.00075
Arsenic	mg/l	0.0047	0.0091	0.011	0.01	0.0075
Benzene	µg/l	ND	ND	ND		0.75
Toluene	µg/l	ND	ND	ND	10	-
Ethylbenzene	µg/l	ND	ND	ND	10	-
o-Xylene	µg/l	ND	ND	ND	10	-
m-Xylene	µg/l	ND	ND	ND	10	-
MTBE	µg/l	<0.1	1.9	8.0	30	-
Mineral Oil	mg/l	<0.01	<0.01	<0.01	0.01	-
VOC (Excluding BTEX)	µg/l	ND	ND	ND	*	-
sVOC	µg/l	ND	ND	ND	*	-
Pesticides	µg/l	ND	ND	ND	*	-

* - various IGVs in place for individual VOCs.
ND – not detected

In Q4, the pH and electrical conductivity was within the IGV range. Mercury, Mineral Oil, SVOCs and Pesticides were not detected in any of the groundwater wells. VOCs, including BTEX were not detected, with the exception of MTBE which was present in BH-2 and BH-3 but at concentrations lower than the IGV. Arsenic was detected in all three groundwater samples and the levels in BH-2 and BH-3 exceeded the TV. The arsenic concentration in BH-2 was below the relevant IGV and only marginally above in BH-3. .

3.3 Wastewater Monitoring

The Licence requires the monitoring of the wastewater discharge from the site to the municipal sewer on a monthly basis at SE-1. A grab sample and a composite sample are collected and sent to an accredited laboratory and analysed for the parameters listed Tables 3.9 and 3.10. The January samples were collected in early February and the March samples were collected in early April.

All of the results were below the ELV with the exception of the COD in the composite sample collected in early April. RILTA also analyse samples of the wastewater in their on-site laboratory. The COD result from the in house analysis for the April composite sample was 1,446mg/l, which is below the ELV. The reason for the discrepancy between the two laboratory results is not known

The daily and hourly maximum volumes of waste water to be discharged from the facility are $180m^3$ and $40m^3$ respectively (as set out in Schedule B.3 of the licence). The total volume of wastewater discharged during 2015 was 57,879m³. The maximum daily and hourly waste water discharges recorded were $175m^3$ and $24m^3$ respectively.

Table 3.9 Wastewater Monitoring Results Q1 – Q2

Parameter	Units	Comp 5-6 Feb	Grab 6 Feb	Comp 22 – 23 Feb	Grab 23 Feb	Comp 9-10 April	Grab 10 April	Comp 28-29 April	Grab 29 April	Comp 28-29 May	Grab 29 May	Comp 24-25 June	Grab 25 June	ELV Composite Sample	ELV Grab Sample
Temperature	°C		11.5		12.1		11.1		10.9		10.6		11.1		42
pH	Units		7.83		7.75		7.90	7.76	7.76		7.69		7.87	6 – 10	6 - 10
BOD	mg/l	278		236		43		139	204	63		214		800	2,000
COD	mg/l	1,350		943		1,810		644	1,070	533		1,190		1,600	4,000
Sulphate	mg/l	1.79		42.43		54.50		48.21	12.36	137.4		9.51		1,000	1,000
Surfactants	mg/l		1.6		2.9		1.6	2.2	2.5		0.9		1.5	100	100
Zinc	mg/l	0.009		0.073		0.0446		0.0661	0.0455	0.033		0.069		3	3
Copper	mg/l	0.013		0.041		0.005		0.029	0.031	0.063		0.068		1	1
Chromium	mg/l	0.1085		0.0625		0.1391		0.0738	0.1035	0.0565		0.0936		1	1
Lead	mg/l	<0.005		0.008		0.01		0.0014	0.0009	0.008		0.005		0.2	0.2
Nickel	mg/l	0.039		0.037		0.037		0.0441	0.064	0.038		0.053		1	1
Arsenic	mg/l	0.081		0.0302		0.112		0.0429	0.0712	0.0302		0.0692		0.5	0.5
Benzene	mg/l		<0.005		0.016		<0.0005	0.0016	0.0029		<0.005		<0.005	1	1
Toluene	mg/l		<0.005		0.259		0.0037	0.016	0.029		<0.005		<0.005	1	1
Ethylbenzene	mg/l		<0.005		0.091		0.0011	<0.0005	0.0024		<0.005		<0.005	1	1
Xylenes	mg/l		<0.005		0.591		0.0048	0.007	0.012		<0.010		0.007	1	1
TSS	mg/l	44		79		52		4.5	6.7	22		11		400	500
Ammonia	mg/l	391.48		230.85		660.62		250.07	372.49	357.99		392.92			
Mineral Oil	mg/l		<0.01		7.466		<0.01	0.230	2.619		<0.01		<0.01	10	10

Table 3.10 Wastewater Monitoring Results Q3 – Q4

Parameter	Units	Comp 29–30 July	Grab 30 July	Comp 26-27 Aug	Grab 27 Aug	Comp 16-17 Sept	Grab 17 Sept	Comp 6-7 Oct	Grab 7 Oct	Comp 24-25 Nov	Grab 25 Nov	Comp 21-22 Dec	Grab 22 Dec	ELV Composite Sample	ELV Grab Sample
Temperature	°C		11.2		10.2		13.1		12.2		10.0		10.4		42
pH	Units		7.90		7.78		7.37		7.78		7.26		7.62	6 – 10	6 - 10
BOD	mg/l	8		37		183		50		217		173		800	2,000
COD	mg/l	185		426		487		379		543		1,070		1,600	4,000
Sulphate	mg/l	54.90		59.57		29.95		62.85		193.58		85.74		1,000	1,000
Surfactants	mg/l		0.4		0.5		1.7		1		1.1		2.0	100	100
Zinc	mg/l	0.042		0.072		0.093		0.063		0.041		0.047		3	3
Copper	mg/l	0.052		0.153		0.046		0.121		<0.007		<0.007		1	1
Chromium	mg/l	0.0218		0.0515		0.0199		0.0582		0.085		0.1156		1	1
Lead	mg/l	<0.005		<0.005		0.005		<0.005		0.01		0.006		0.2	0.2
Nickel	mg/l	0.023		0.034		0.031		0.034		0.047		0.057		1	1
Arsenic	mg/l	<0.0025		0.0218		0.012		0.029		0.0806		0.0176		0.5	0.5
Benzene	mg/l		<0.0005		<0.005		0.006		<0.0005		<0.005		<0.005	1	1
Toluene	mg/l		0.0071		<0.005		0.073		0.011		0.015		<0.005	1	1
Ethylbenzene	mg/l		0.0035		<0.005		0.023		0.0023		0.006		<0.005	1	1
Xylenes	mg/l		0.0075		<0.005		0.168		0.0073		0.019		<0.01	1	1
TSS	mg/l	12		11		38		13		22		22		400	500
Ammonia	mg/l	154.26		230.67		51.27		162.89		110.27		362.8			
Mineral Oil	mg/l		<0.01		<0.01		1.383		<0.01		<0.01		<0.01	10	10

3.4 Noise Survey

A noise survey is carried out annually at the facility. Due to a scheduling omission this was not carried out in 2015 but was conducted in March 2016. Day time noise monitoring was carried out at approved noise monitoring locations as shown in the site plan with the monitoring locations in Appendix 1 and the results are presented in Table 3.11

Site specific $L_{Aeq\ 30\ min}$ levels were calculated at 50 dB at one station, <50 dB at a second, and <52 dB at a third. At station N4, located in immediate proximity to an onsite noise source, the specific $L_{Aeq\ 30\ min}$ level was 64 dB. The 55 dB daytime limit specified in waste licence W0192-03 is not considered relevant to any of the four noise stations due to the absence of nearby sensitive receptors. The limit is considered more appropriate to NSLs. An inspection at the nearest NSLs following the survey indicated that facility operations were not audible, and thus lower than the 55 dB daytime noise limit. No tones or impulses were noted at offsite NSLs, thus complying with schedule B.4 of the licence.

Table 3.11 Noise Data

Station	Date	Time	Wind vector	$L_{Aeq\ 30\ min}$ dB	$L_{AF10\ 30\ min}$ dB	$L_{AF90\ 30\ min}$ dB	Specific $L_{Aeq\ 30\ min}$ dB
N1	07.03.16	1201-1231	0	60	64	52	50
	Facility: Air management system in drum centre building audible at low level continuously through open roller shutter door. L90 not representative due to continuous extraneous noise. Sporadic truck movements through site entrance clearly audible. **Extraneous**: Regular vehicle movements on adjacent industrial estate roadway dominant when present. During lulls, distant traffic and commercial noise continuously audible. Regular activity at adjacent premises, including truck and plant movements, significant when present. Aircraft movement x1 at nearby aerodrome significant at 1213.						
N2	07.03.16	1005-1035	0	58	60	52	<52
	Facility: No emissions audible due to screening by adjacent building. Separation distance to building façade: 1.5 m (no space available). **Extraneous**: Operations at adjacent premises continuously dominant. During lulls in same, road traffic audible to N and W. Aircraft movements related to Dublin Airport regularly clearly audible.						
N3	07.03.16	1042-1112	0	55	56	50	<50
	Facility: No clear emissions audible due to screening by adjacent building, and masking by offsite sources. However, several truck movements at N end of yard slightly audible, in addition to liquid flow in pipes in adjacent bunded tank farm. **Extraneous**: Activity at several distant commercial premises audible at low level. Traffic to N and W, in addition to traffic on industrial estate roadways, audible at low level. Nearby watercourse continuously slightly audible. Birdsong. Dublin Airport aircraft movements regularly clearly audible.						
N4	07.03.16	1116-1146	0	69	71	67	64
	Facility: Air extraction system noise emissions at adjacent drum centre building continuously clearly audible and dominant, L90 representative. No other site emissions audible. Separation distance to building façade: 1.5 m (no space available), and 3 dB near field factor incorporated in specific calculation. **Extraneous**: None audible other than regular traffic movements on adjacent industrial estate roadway.						

Wind vector: See final appendix. **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. **Audibility scale**: Inaudible; faintly audible; slightly audible; audible at low level; quite audible; clearly audible; dominant; intrusive; excessive.

3.5 Dust Monitoring

The facility conducted dust monitoring in August, September and October and the results are in Table 3.9. There were no exceedances of the dust deposition limit (350 mg/m^2/day) set in the Licence at any of the monitoring locations.

Table 3.12 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	9.5	8.3	39.10	350
D-2	21.7	6.84	17.22	350
D-3	10.3	5.27	40.45	350
D-4	19.5	14.03	77.31	350

3.6 Air Quality

Volatile Organic Compound monitoring was completed at three monitoring points (A1, A2 and A3) shown on the site layout plan in Appendix 1 on two occasions. With the exception of volume flow rate at A2, all the results complied with the limits. The volumetric airflow rate at A2 was 6,422Nm^3/hr and 6,367 Nm^3/hr, which exceeded the ELV of 5,292 Nm^3/hr.

3.7 Nuisance Control Review

Rilta use masking agents in the treatment of waste as required along with a closed door policy when required. Rilta outsource vermin control to an external contractor.

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

There was no engineering works scheduled for the site in 2015 and none are proposed for 2016.

4.2 Summary of Resource & Energy Consumption

Table 4.1 is summary of the resources used on-site during the reporting period.

Table 4.1 Resources Used On-Site in 2014 & 2015

Resources	Quantities 2014	Quantities 2015
Natural Gas	110,816 KwH	117,769 KwH
Road Diesel	74,880 Litres	68,460 Litres
Electricity	501,194 KwH	468,000 KwH
Water	23,646 m^3	26,768 m^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 European Waste Catalogue and Hazardous Waste (EWC/HWL) list. A more detailed description of the wastes consigned and the waste destinations are provided in the PRTR Return in Appendix 2.

Table 5.1 Waste Received 2015

Waste Type			Maximum Allowable Annual Tonnage Note 3	**Waste Received 2015**
Non-Hazardous Waste Notes 1,2		**Description**		
		Commercial Waste	500	0.000
		C & D Waste	500	787.588
		Industrial Sludges	1,000	2.124
		Other Industrial Waste	3,000	44,229.256
Non-Hazardous Waste Total			**5,000**	**45,018.968**
Hazardous Waste	**EWC Code**	**Description**	Maximum Allowable Annual Tonnage Note 3	**Waste Received 2015**
	13 05 03*	Interceptor Sludges	10,000	1,120.431
	16 07 08*	Waste containing Oil	2,000	923.111
	16 10 01*	Aqueous Liquid waste containing Dangerous Substances	1,500	3,676.522
	17 05 03*	Soil and Stones containing Dangerous Substances	60,000	12,672.335
	17 06 01*	Insulation Materials and Construction Materials containing Asbestos	8,000	138.242
	17 06 05*			5,434.269
	Other Note 4		24,500	23,828.543
Hazardous Waste Total			**106,000**	**47,793.453**
Total Tonnage per Annum			**111,000**	**92,812.421**

Note 1: Any proposals to accept other compatible non-hazardous waste types must be agreed in advance with the Agency.
Note 2: Excluding putrescible waste.
Note 3: The limitations on individual hazardous and non-hazardous waste types may be varied with the agreement of the Agency subject to the **total annual waste quantity remaining the same.**
Note 4: Hazardous waste types as detailed in Attachment H.1 of the review application for this licence Reg No: 192-03 or may be otherwise agreed in advance with the Agency.

The total amount of non-hazardous waste received was 45,018.986 tonnes and the total amount of hazardous waste received was 47,793.453 tonnes giving a total amount of waste received as 92,812.421 tonnes. The total amount consigned was 82,725.058 tonnes.

The difference in waste received into and consigned from the facility in 2015 is 10,087.363 tonnes. This is related to waste which was kept on site at the end of 2015 which was consigned from the site in Q1 2016.

All the wastes consigned from the site went to recovery and disposal facilities agreed with the Agency.

Table 5.2 Waste Consigned 2015

EWC	Description	Waste Out
02 07 04	Materials unsuitable for consumption or processing	81.679
03 02 05*	Other wood preservatives containing dangerous substances	431.84
05 01 03*	Tank bottom sludges	10.08
06 01 01*	Sulphuric acid and sulphurous acid	24.58
06 01 06*	Other acids	501.14
06 02 04*	Sodium & potassium hydroxide	146.35
06 02 05*	Other bases	24.48
06 05 02*	Sludges from on-site effluent treatment containing dangerous solutions	194.58
07 05 13*	Solid wastes containing dangerous substances	23.762
07 06 99	Wastes not otherwise specified	74.894
08 01 01*	Waste paint and varnish containing organic solvents or other dangerous substances	88.53
09 01 05*	Bleach solutions and bleach fixer solutions	23.05
11 01 09*	Sludges and filter cakes containing dangerous substances	95.86
12 01 09*	Machining emulsions and solutions free of halogens	833.86
13 03 01*	Insulating or heat transmission oils containing PCBs	1.468
13 07 01*	Fuel oil & diesel	51.18
13 07 03*	Other fuels (including mixtures)	98
14 06 05*	Sludges or solid wastes containing other solvents	24
15 01 02	Plastic packaging	93.10
15 01 03	Wooden packaging	18.282
15 01 10*	Packaging containing residues of or contaminated by dangerous substances	22.36
15 02 02*	Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	21.627
16 01 07*	Oil filters	40.30
16 02 09*	Transformers & capacitors containing PCBs	8.22
16 05 04*	Gases in pressure containers (including halons) containing dangerous substances	15.5
16 05 06*	Laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	150.55
16 05 08*	Discarded organic chemicals consisting of or containing dangerous substances	138.93
16 06 01*	Lead batteries	3264.144
16 06 02*	Ni-Cd batteries	11.224
16 06 04	Alkaline batteries (except 16 06 03)	6.915
16 06 05	Other batteries and accumulators	2.577
16 10 01*	Aqueous liquid wastes containing dangerous substances	39.702
17 02 04*	Glass, plastic and wood containing or contaminated with dangerous substances	46.96
17 03 01*	Bituminous mixtures containing coal tar	47.5
17 05 03*	Soil & stones containing dangerous substances	8,932.03
17 05 04	Soil and stones other than those mentioned in 17 05 03	273.72

Table 5.2 Cont'd

EWC	Description	Waste Out
17 06 01*	Insulation material containing asbestos	144.346
17 06 05*	Construction materials containing asbestos	5,335.98
19 02 05*	Sludges from physio/chemical treatment containing dangerous substances	815.27
19 02 08*	Liquid combustible wastes containing dangerous substances	315.326
19 02 11*	Other wastes containing dangerous substances	102.64
19 02 99	Wastes not otherwise specified	57,890
19 10 02	Non-ferrous waste	981.76
19 12 07	Wood other than that mentioned in 19 12 16	2.34
19 12 11*	Other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	148.368
20 01 19*	pesticides	12.32
20 01 27*	Paint, inks, adhesives and resins containing dangerous substances	1,113.734
	Total Consigned	82,725.058
	Recovered	8,892.793
	Disposed	73,832.265
	Recovery Rate (%)	12.04%

Table 5.3 Waste Received & Consigned in recent years

	2014	2013	2012	2011
Total Received	93,787	82,051	90,081	78,964.72
Total Consigned	86,337.171	78,303.94	78,835.38	77,923.39
Total Recovered	13,366.258	17,927.52	15,082.66	20,923.39
Total Disposed	72,970.913	60,376.42	63,752.72	56,606.39
Recovery Rate	15.48%	22.89%	19.13%	26.85%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were 3 notifiable environmental incidents in 2015.

1) 13th April 2015 – Elevated COD on Composite sample of wastewater exceeded the ELV. Agency notified following incident.
2) 30th November 2015 – Volume of air discharged through A2 exceeded the ELV. Agency notified following incident.
3) 7th December 2015 – Volume of air discharged through A2 exceeded the ELV. Agency notified following incident

6.2 Register of Complaints

Rilta 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 no complaints during the reporting period that related to activity at the licensed site.

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 EMS was recertified in February 2015.

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

7.2 Site Management Structure

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

7.3 Environmental Management Programme

7.3.1 Schedule of Objectives 2015

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. The 'Public File' is available to view during normal office hours.

7.5 Report Financial Provision

A Decommissioning Management Plan (DMP) and Environmental Liabilities Risk Assessment (ELRA) including Financial Provision (FP) have been submitted to and approved by the Agency.

7.6 Nuisance Controls

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

7.7 Tank and Pipeline Testing

Bund integrity testing was completed onsite in November 2013 and the next test is scheduled for 2016 as per Condition 6.11 of the Licence.

7.8 Water Demand and Trade Effluent Discharge

The trade effluent discharged in 2015 was 57,890m³.

7.9 Efficiency of use of Raw Materials / Reduction in Waste Generated

The main raw material used on site is paint. Paint use overall increased by 249litrew in 2015 when compared to 2014, while acetone was not used in 2015.

Table 7.1 Raw Material Usage 2012 - 2015

	2012	2013	2014	2015
56% Solids Paint	0	5,500	5,111	5,360
65% Solids Paint	6,800	0	0	0
Xylene	240	180	200	80
Acetone	25	50	0	0

All measurements in litres

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 return submitted to the Agency via the web-based data reporting system is included in Appendix 2.

APPENDIX 1

Site Plan showing Environmental Monitoring Locations

Monitoring Point Locations (to National Grid Reference)

Groundwater Monitoring Points
BH1 E301555, N 228440
BH2 E301600, N228550
BH3 E301630, N228555

Underground Settlement Tank Monitoring Points
GW1 E301630, N228515
GW2 E301650, N228540
GW3 E301625, N228540

Surface Water/Invertebrate Monitoring Points
SW1/KS1 E301670, N228562
SW2/KS2 E301565, N228555
SW3 (Proposed) E301480, N228560

Dust Monitoring Points
D1 E301630, N228450
D2 E301580, N228550
D3 E301670, N228555
D4 E301630, N228420

Noise Monitoring Points
N1 E301630, N228450
N2 E301580, N228550
N3 E301670, N228555
N4 E301630, N228420

Air Monitoring Points
A1 E301620, N228440
A2 E301630, N228445
A3 E301630, N228460

Waste Water Monitoring Point
EFF (Proposed) E301655, N228530

Legend:
- Licence Boundary
- Surface Water Monitoring Points
- Invertebrate Kick Sampling Monitoring Points
- Dust Monitoring Points
- Noise Monitoring Points
- Waste Water Monitoring Point
- Groundwater Monitoring Points
- Underground Settlement Tank Monitoring Points
- Air Monitoring Points

KS1
SW1
D3
N3
BUNDED TANK AREA
BH3
SW3
BH2
VEHICLE WASH AREA
SW2
KS2
D2
N2
DOCK LEVELLER
GW2
GW3
EFF
RACKED STORAGE
GW1
WASTE TREATMENT CENTRE 1858 SQ.M
HAZARDOUS WASTE TRANSFER STATION 1859 SQ.M
A3
CONTAMINATED SOIL STORAGE
A1
DRUM CENTRE 1858 SQ.M
OFFICE BLOCK 400 SQ.M
WEIGHBRIDGE
A2
DOCK LEVELLER
D4
N4
D1
N1
BH1
GATE
ELECTRICAL SWITCHROOM

Notes:
1. Figured Dimensions only to be taken from this drawing
2. All Drawings to be checked by the Contractor on site
3. Engineer to be informed of any discrepancies before any work commences
4. All levels relate to Ordnance Survey Datum at Malin Head

suffix	revisions	date	by

Client

Drawing Title
SITE LAYOUT PLAN

Project
INTEGRATED WASTE MANAGEMENT FACILITY, GREENOGUE, CO. DUBLIN

Scale: 1/500

Drawn by	Checked by	Date
MARKCONROY		January 2007

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

Drawing No.
2.1

Rev.

APPENDIX 2

European Pollutant Release and Transfer Register

Environmental Protection Agency

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2015

1. FACILITY IDENTIFICATION

Parent Company Name	Rilta Environmental Limited
Facility Name	Rilta Environmental Limited
PRTR Identification Number	W0192
Licence Number	W0192-03

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	-8.48281 51.8695
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	Facility Manager
AER Returns Contact Telephone Number	01 401 8024
AER Returns Contact Mobile Phone Number	01 401 8000
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	70
User Feedback/Comments	No particular reason for any variances
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

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
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 (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 AIR					Please enter all quantities in this section in KGs			
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 (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 AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				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

* 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: Rilta Environmental Limited

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 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

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					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

* 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					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

* 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					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

* 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

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			
			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
17	Arsenic and compounds (as As)	M	MAB	Averaged Measured Result multiplied by the discharge volume	2.55	2.55	0.0	0.0
19	Chromium and compounds (as Cr)	M	MAB	Averaged Measured Result multiplied by the discharge volume	4.27	4.27	0.0	0.0
20	Copper and compounds (as Cu)	M	MAB	Averaged Measured Result multiplied by the discharge volume	2.92	2.92	0.0	0.0
23	Lead and compounds (as Pb)	M	MAB	Averaged Measured Result multiplied by the discharge volume	0.354	0.354	0.0	0.0
22	Nickel and compounds (as Ni)	M	MAB	Averaged Measured Result multiplied by the discharge volume	2.27	2.27	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			
			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
238	Ammonia (as N)	M	MAB	Averaged Measured Result multiplied by the discharge volume	16192.99	16192.99	0.0	0.0
303	BOD	M	MAB	Averaged Measured Result multiplied by the discharge volume	7916.46	7916.46	0.0	0.0
306	**COD**	M	MAB	Averaged Measured Result multiplied by the discharge volume	46119.22	46119.22	0.0	0.0
308	Detergents (as MBAS)	M	MAB	Averaged Measured Result multiplied by the discharge volume	83.94	83.94	0.0	0.0
324	Mineral oils	M	MAB	Averaged Measured Result multiplied by the discharge volume	37.56	37.56	0.0	0.0
240	Suspended Solids	M	MAB	Averaged Measured Result multiplied by the discharge volume	1594.29	1594.29	0.0	0.0
343	Sulphate	M	MAB	Averaged Measured Result multiplied by the discharge volume	3764.59	3764.59	0.0	0.0
206	Benzene & toluene & xylene (combined)	M	MAB	Averaged Measured Result multiplied by the discharge volume	0.26	0.26	0.0	0.0

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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
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 (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)

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			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
					0.0	0.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes 0

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 Non 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)
						M/C/E	Method Used					
To Other Countries	02 07 04	No	50.85	materials unsuitable for consumption or processing	R10	M	Weighed	Abroad	Kompostsysteme Nord GmbH,108ZEB026	Industriepark 6,D-27777, Ganderkesee,.,Germany		
To Other Countries	02 07 04	No	8.02	materials unsuitable for consumption or processing	D12	M	Weighed	Abroad	Lindenschmidt KG Umweltservice,.	Krombacher Strabe 42-46,57223,Keruztal - Krombach,.,Germany	REVATECH SA,.,Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium
To Other Countries	05 01 03	Yes	10.08	tank bottom sludges	D10	M	Weighed	Abroad	Sava Gmbh & Co,.	1 Osterweute,Ce25541,Brunsbuttel,.,Germany	Sava Gmbh & Co,.,1 Osterweute,Ce25541,Brunsbuttel,.,Germany	1 Osterweute,Ce25541,Brunsbuttel,.,Germany
To Other Countries	06 01 06	Yes	411.18	other acids	R5	M	Weighed	Abroad	REVATECH SA,.	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium	REVATECH SA,.,Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium
To Other Countries	06 02 04	Yes	146.35	sodium and potassium hydroxide	R5	M	Weighed	Abroad	REVATECH SA,.	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium	REVATECH SA,.,Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium
To Other Countries	06 05 02	Yes	194.58	sludges from on-site effluent treatment containing dangerous solutions	D9	M	Weighed	Abroad	Zimmermann Sonderabfallentsorgung und Verwertung & Co KG Fesstoffkonditionierung,783/240406	3-7+31 Gottlieb-Daimler Strasse,DE 33334, Guterslo,.,Germany	Zimmermann Sonderabfallentsorgung und Verwertung & Co KG Fesstoffkonditionierung,783/240406,3-7+31 Gottlieb-Daimler Strasse,DE 33334,Guterslo,.,Germany	3-7+31 Gottlieb-Daimler Strasse,DE 33334,Guterslo,.,Germany
To Other Countries	07 05 13	Yes	23.762	solid wastes containing dangerous substances	D9	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands
To Other Countries	07 06 99	No	74.894	wastes not otherwise specified	R1	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands
To Other Countries	08 01 11	Yes	88.53	waste paint and varnish containing organic solvents or other dangerous substances	R3	M	Weighed	Abroad	Nehlsen Gmbh & Co.,A-4187HH	Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Nehlsen Gmbh & Co.,A-4187HH,Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany
To Other Countries	11 01 09	Yes	95.86	sludges and filter cakes containing dangerous substances	R5	M	Weighed	Abroad	Zimmermann Sonderabfallentsorgung und Verwertung & Co KG Fesstoffkonditionierung,783/240406	3-7+31 Gottlieb-Daimler Strasse,DE 33334, Guterslo,.,Germany	Zimmermann Sonderabfallentsorgung und Verwertung & Co KG Fesstoffkonditionierung,783/240406,3-7+31 Gottlieb-Daimler Strasse,DE 33334,Guterslo,.,Germany	3-7+31 Gottlieb-Daimler Strasse,DE 33334,Guterslo,.,Germany
To Other Countries	13 03 01	Yes	1.468	insulating or heat transmission oils containing PCBs	D14	M	Weighed	Abroad	SITA Decontamination,D/PMVC/01 F28/33629	Westvaartdijk,97,Grimbergen ,1850,Netherlands	SITA Decontamination,D/PMVC/01 F28/33629,Westvaartdijk,97, Grimbergen,1850,Netherlands	Westvaartdijk,97,Grimbergen ,1850,Netherlands
To Other Countries	13 07 01	Yes	51.18	fuel oil and diesel	R9	M	Weighed	Abroad	Centec International,EA	The Science Park,Brooks Lane ,Middlewich,CW10 0JG,United Kingdom	Centec International,EA,Brooks Lane,.,Middlewich,CW10 0JG,United Kingdom	Brooks Lane,.,Middlewich,CW10 0JG,United Kingdom

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 Non 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)
						M/C/E	Method Used					
To Other Countries	13 07 03	Yes	98.0	other fuels (including mixtures)	R9	M	Weighed	Abroad	Rapier Energy Ltd.,.	New Road Off Haverton Hill Road,Billingham,Teeside,TS 231LE,United Kingdom	Rapier Energy Ltd.,.,New Road Off Haverton Hill Road,Billingham,Teeside,TS 23ILE,United Kingdom	New Road Off Haverton Hill Road,Billingham,Teeside,TS 23ILE,United Kingdom
To Other Countries	15 02 02	Yes	21.627	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	D9	M	Weighed	Abroad	Nehlsen Gmbh & Co.,A-4187HH	Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Nehlsen Gmbh & Co.,A-4187HH,Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany
Within the Country	16 01 07	Yes	19.54	oil filters	R4	M	Weighed	Offsite in Ireland	Felix Gormely,.	Monnery Upper,Crossdonney,.,Co. Cavan,Ireland	Felix Gormley Ltd,.,Monery Upper,Crossdoney,.,Co. Cavan,Ireland	.,.,.,.,Ireland
To Other Countries	16 02 09	Yes	8.22	transformers and capacitors containing PCBs	R4	M	Weighed	Abroad	SITA Decontamination,D/PMVC/01 F28/33629	Westvaartdijk,97,Grimbergen ,1850,Netherlands	SITA Decontamination,D/PMVC/01 F28/33629,Westvaartdijk,97, Grimbergen,1850,Netherlands	Westvaartdijk,97,Grimbergen ,1850,Netherlands
To Other Countries	16 05 04	Yes	15.5	gases in pressure containers (including halons) containing dangerous substances	R3	M	Weighed	Abroad	Greenway,.	20 Redfern Street,Bootle,Liverpool,L208 JB,United Kingdom	Greenway,.,20 Redfern Street,Bootle,Liverpool,L208 JB,United Kingdom	20 Redfern Street,Bootle,Liverpool,L208 JB,United Kingdom
To Other Countries	16 05 06	Yes	7.53	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	D10	M	Weighed	Abroad	AGR mbh - RZR Herten,.	Im Emscherbruch 11,45699,Herten,.,Germany	AGR mbh - RZR Herten,.,Im Emscherbruch 11,45699,Herten,.,Germany	Im Emscherbruch 11,45699,Herten,.,Germany
To Other Countries	16 05 06	Yes	143.02	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	R1	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands
To Other Countries	16 06 01	Yes	3038.681	lead batteries	R4	M	Weighed	Abroad	HJ Enthoven & Sons,BL5598	Darley Dale Smelter,South Darley,Derbyshire,DE4 2LP,United Kingdom	Nehlsen Gmbh & Co.,A-4187HH,Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany
To Other Countries	16 06 01	Yes	225.463	lead batteries	R4	M	Weighed	Abroad	Envirowales Limited,OG1070327	Plateux 1 & 2,Rassau Industrial Estate,Ebbw Vale,NP235SD,United Kingdom	Envirowales Limited,OG1070327,Plateux 1 & 2,Rassau Industrial Estate,Ebbw Vale,NP23 5SD,United Kingdom	Plateux 1 & 2,Rassau Industrial Estate,Ebbw Vale,NP23 5SD,United Kingdom
Within the Country	16 06 02	Yes	1.169	Ni-Cd batteries	R4	M	Weighed	Offsite in Ireland	Electrical Waste Ireland,Permit No. WFP-DS-09-0012-01	Jordanstown drive,Unit 648 Greenogue Business Park,Rathcoole,Co. Dublin,Ireland	Electrical Waste Ireland,WFP-DS-09-0012-01,Jordanstown Drive,Unit 648,Greenogue Business Park,Rathcoole Co Dublin,Ireland	Jordanstown Drive,Unit 648,Greenogue Business Park,Rathcoole Co Dublin,Ireland
Within the Country	16 06 02	Yes	10.055	Ni-Cd batteries	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-04	Cappincur Ind Est,Daingean Road,Tullamore,Co. Offaly,Ireland	KMK Metals,W0113-04,Cappincur Ind Est,Daingean Road,Tullamore,Co. Offaly,Ireland	Cappincur Ind Est,Daingean Road,Tullamore,Co. Offaly,Ireland
Within the Country	16 06 04	No	6.915	alkaline batteries (except 16 06 03)	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-04	Cappincur Ind Est,Daingean Road,Tullamore,Co. Offaly,Ireland	Orion B.V.,18/07/2937,De Steven,25,AX Drachten,9206,Netherlands	De Steven,25,AX Drachten,9206,Netherlands

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 Non 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)
						M/C/E	Method Used					
Within the Country	16 06 05	No	0.145	other batteries and accumulators	R4	M	Weighed	Offsite in Ireland	Electrical Waste Ireland,Permit No. WFP-DS-09-0012-01	Jordanstown drive,Unit 648 Greenogue Business Park,Rathcoole,Co. Dublin,Ireland		
Within the Country	16 06 05	No	2.432	other batteries and accumulators	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-04	Cappincur Ind Est,Daingean Road,Tullamore,Co. Offaly,Ireland		
To Other Countries	16 10 01	Yes	39.702	aqueous liquid wastes containing dangerous substances	D8	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands
To Other Countries	17 03 01	Yes	47.5	bituminous mixtures containing coal tar	R12	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,14/12/4149	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,.,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands
To Other Countries	17 05 03	Yes	1758.64	soil and stones containing dangerous substances	D1	M	Weighed	Abroad	Biffa Waste Management (Cottonmount Landfill),.	140 Mallusk Rd. Mallusk,Newtownabbey,Co.Antrim,GB BT36 4QN,United Kingdom	Biffa Waste Management (Cottonmount Landfill),.,140 Mallusk Road Mallusk,Newtownabbey,Co. Antrim,GB BT36 4QN,United Kingdom	140 Mallusk Road Mallusk,Newtownabbey,Co. Antrim,GB BT36 4QN,United Kingdom
To Other Countries	17 05 03	Yes	4369.26	soil and stones containing dangerous substances	D1	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands
To Other Countries	17 05 03	Yes	2804.13	soil and stones containing dangerous substances	D1	M	Weighed	Abroad	Terracon GmbH ,.	74-76 Hovestrasse,20539 Hamburg,.,.,Germany	Terracon GmbH ,., 74-76 Hovestrasse,20539 Hamburg ,.,., Germany	74-76 Hovestrasse,20539 Hamburg ,.,., Germany
To Other Countries	17 06 01	Yes	13.0	insulation materials containing asbestos	D1	M	Weighed	Abroad	Heiko Neumann Entsorgungfachbetrieb,.	Deponie Reesen GmbH & Co. KG,Johann-Sebastioan-Bach_Strabe 60,39288,Burg,Germany	Heiko Neumann Entsorgungfachbetrieb,.,Deponie Reesen GmbH & Co. KG,Johann - Sebastian - Bach - Strabe 60,39288,Burg,Germany	Deponie Reesen GmbH & Co. KG,Johann - Sebastian - Bach - Strabe 60,39288,Burg,Germany
To Other Countries	17 06 05	Yes	4762.103	construction materials containing asbestos (18)	D1	M	Weighed	Abroad	GEG mbH,EG0108	Bimohler Strasse,57a,Grossenaspe,24623,Germany	GEG mbH,EG0108,Bimohler Strasse,57a,Grossenaspe,24623,Germany	Bimohler Strasse,57a,Grossenaspe,24623,Germany
To Other Countries	17 06 05	Yes	573.877	construction materials containing asbestos (18)	D1	M	Weighed	Abroad	Biffa Waste Management (Cottonmount Landfill),.	140 Mallusk Rd. Mallusk,Newtownabbey,Co.Antrim,GB BT36 4QN,United Kingdom	Biffa Waste Management (Cottonmount Landfill),.,140 Mallusk Road Mallusk,Newtownabbey,Co. Antrim,GB BT36 4QN,United Kingdom	140 Mallusk Road Mallusk,Newtownabbey,Co. Antrim,GB BT36 4QN,United Kingdom
To Other Countries	19 10 02	No	981.76	non-ferrous waste	R4	M	Weighed	Abroad	A1 Metal,WMP007d	Acragar,.,Mountmellick,Co. Laois,Ireland		
Within the Country	19 12 11	Yes	61.648	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	R1	M	Weighed	Offsite in Ireland	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands

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 Non 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)
						M/C/E	Method Used					
To Other Countries	19 12 11	Yes	86.72	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	R5	M	Weighed	Abroad	Delta Containers Direct Ltd,.	Preston Street,Manchester,Manchester,M188DB,United Kingdom	Delta Containers Direct Ltd,.,Preston Street,.,Manchester,M188DB,United Kingdom	Preston Street,.,Manchester,M188DB,United Kingdom
To Other Countries	20 01 19	Yes	12.32	pesticides	D10	M	Weighed	Abroad	AGR mbh - RZR Herten,.	Im Emscherbruch 11,45699,Herten,.,Germany	AGR mbh - RZR Herten,.,Im Emscherbruch 11,45699,Herten,.,Germany	Im Emscherbruch 11,45699,Herten,.,Germany
To Other Countries	20 01 27	Yes	908.5	paint, inks, adhesives and resins containing dangerous substances	R10	M	Weighed	Abroad	Recyfuel,.	Engis,.,.,B4480,Belgium	Recyfuel,.,Engis,.,.,B4480,Belgium	Engis,.,.,B4480,Belgium
To Other Countries	20 01 27	Yes	205.234	paint, inks, adhesives and resins containing dangerous substances	R1	M	Weighed	Abroad	Recyfuel,.	Engis,.,.,B4480,Belgium	Recyfuel,.,Engis,.,.,B4480,Belgium	Engis,.,.,B4480,Belgium
To Other Countries	06 01 01	Yes	24.58	sulphuric acid and sulphurous acid	R5	M	Weighed	Abroad	Lindenschmidt KG Umweltservice,.	Krombacher Strabe 42-46,57223,Keruztal - Krombach,.,Germany		
To Other Countries	06 01 06	Yes	89.96	other acids	R5	M	Weighed	Abroad	Lindenschmidt KG Umweltservice,.	Krombacher Strabe 42-46,57223,Keruztal - Krombach,.,Germany		
To Other Countries	06 02 05	Yes	24.48	other bases	R5	M	Weighed	Abroad	REVATECH SA,.	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium		
To Other Countries	09 01 05	Yes	17.62	bleach solutions and bleach fixer solutions	R4	M	Weighed	Abroad	Remondis UK,.	Scott Lane Industrial Estate,Blackrod,Bolton,BL6 5SL,United Kingdom	Remondis UK Carr Lane Recycling and Treatment Facility,EPR/UP3134HY,Carr Lane,Prescott,Knowsley,LE3 41JZ,United Kingdom	Carr Lane,Prescott,Knowsley,LE3 41JZ,United Kingdom
To Other Countries	09 01 05	Yes	5.43	bleach solutions and bleach fixer solutions	R4	M	Weighed	Abroad	Remondis UK,.	Carr Lane Recycling and Treatment Facility,Carr Lane Prescott,Knowsley,LE341JZ, United Kingdom	Remondis UK Carr Lane Recycling and Treatment Facility,EPR/UP3134HY,Carr Lane,Prescott,Knowsley,LE3 41JZ,United Kingdom	Carr Lane,Prescott,Knowsley,LE3 41JZ,United Kingdom
To Other Countries	12 01 09	Yes	78.88	machining emulsions and solutions free of halogens	R1	M	Weighed	Abroad	REVATECH SA,.	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium	REVATECH SA,.,Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium	Zoning l'Industrial D'Ehein,B 4480 ENGIS,.,.,Belgium
To Other Countries	12 01 09	Yes	754.98	machining emulsions and solutions free of halogens	D10	M	Weighed	Abroad	Sava Gmbh & Co,.	1 Osterweute,Ce25541,Brunsbuttel,.,Germany	Sava Gmbh & Co,.,1 Osterweute,Ce25541,Brunsbuttel,.,Germany	1 Osterweute,Ce25541,Brunsbuttel,.,Germany
To Other Countries	14 06 05	Yes	24.0	sludges or solid wastes containing other solvents	D9	M	Weighed	Abroad	Nehlsen Gmbh & Co.,A-4187HH	Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Nehlsen Gmbh & Co.,A-4187HH,Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany	Neiderlassung Nehlsen-Plimp,Betriebsstatte Bremen,Louis-Krages Strasse 10,Bremen,Germany
To Other Countries	16 05 08	Yes	138.93	discarded organic chemicals consisting of or containing dangerous substances	R1	M	Weighed	Abroad	Recyfuel,.	Engis,.,.,B4480,Belgium	Recyfuel,.,Engis,.,.,B4480,Belgium	Engis,.,.,B4480,Belgium
To Other Countries	17 02 04	Yes	46.96	glass, plastic and wood containing or contaminated with dangerous substances	R1	M	Weighed	Abroad	Trackwork Ltd,.	Kirk Sandall Ind. Estate,Doncaster,South Yorkshire,DN3 1RA,United Kingdom	Trackwork Ltd,.,Kirk Sandall Ind Estate,Doncaster,South Yorkshire,DN3 1RA,United Kingdom	Kirk Sandall Ind Estate,Doncaster,South Yorkshire,DN3 1RA,United Kingdom
To Other Countries	19 02 08	Yes	315.326	liquid combustible wastes containing dangerous substances	R1	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands

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 Non 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)
						M/C/E	Method Used					
To Other Countries	19 02 11	Yes	102.64	other wastes containing dangerous substances	R12	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands
To Other Countries	17 06 01	Yes	103.046	insulation materials containing asbestos	D1	M	Weighed	Abroad	Biffa Waste Management (Cottonmount Landfill),.	140 Mallusk Rd. Mallusk,Newtownabbey,Co.Antrim,GB BT36 4QN,United Kingdom	Biffa Waste Management (Cottonmount Landfill),.,140 Mallusk Road Mallusk,Newtownabbey,Co. Antrim,GB BT36 4QN,United Kingdom	140 Mallusk Road Mallusk,Newtownabbey,Co. Antrim,GB BT36 4QN,United Kingdom
To Other Countries	17 06 01	Yes	28.3	insulation materials containing asbestos	D1	M	Weighed	Abroad	GEG mbH,EG0108	Bimohler Strasse,57a,Grossenaspe,24623,Germany	GEG mbH,EG0108,Bimohler Strasse,57a,Grossenaspe,24623,Germany	Bimohler Strasse,57a,Grossenaspe,24623,Germany
To Other Countries	15 01 02	No	87.66	plastic packaging	R5	M	Weighed	Abroad	Venture Polymers Ltd,.	Cinnamon House Cinnamon Park,Crab Lane,Warrington Cherhire,GB WA2 0XP,United Kingdom		
Within the Country	16 01 07	Yes	20.76	oil filters	R4	M	Weighed	Offsite in Ireland	Hammond Metal Recycling ,.	Pigeon House Road,Ringsend,Dublin 4,.,Ireland	Hammond Metal Recycling,WFP DC 0013-01,Pigeon House Road,Ringsend,Dublin 4,.,Ireland	Pigeon House Road,Ringsend,Dublin 4,.,Ireland
To Other Countries	15 01 10	Yes	21.46	packaging containing residues of or contaminated by dangerous substances	R5	M	Weighed	Abroad	Delta Containers Direct Ltd,.	Preston Street,Manchester,Manchester,M188DB,United Kingdom 1	Delta Containers Direct Ltd,.,Preston Street,.,Manchester,M188DB,United Kingdom 1	Preston Street,.,Manchester,M188DB,United Kingdom 1
To Other Countries	03 02 05	Yes	431.84	other wood preservatives containing dangerous substances	D10	M	Weighed	Abroad	Sava Gmbh & Co,.	Osterweute,Ce25541,Brunsbuttel,.,Germany	Sava Gmbh & Co,.,1 Osterweute,Ce25541,Brunsbuttel,.,Germany	Osterweute,Ce25541,Brunsbuttel,.,Germany
To Other Countries	02 07 04	No	22.809	materials unsuitable for consumption or processing	R1	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands		
Within the Country	17 05 04	No	273.72	soil and stones other than those mentioned in 17 05 03	R5	M	Weighed	Offsite in Ireland	Corranure Landfill,W0077-04	Cootehill Rd,Co. Cavan,.,.,Ireland		
Within the Country	15 01 03	No	11.822	wooden packaging	R3	M	Weighed	Offsite in Ireland	Max Pallets,.	Colemanstown ,Rathcoole,Co.Dublin,.,Ireland		
Within the Country	15 01 03	No	6.46	wooden packaging	R3	M	Weighed	Offsite in Ireland	Thorntons Recycling ,.	C/O PDM,Old Mill ,Kill,Co.Kildare,Ireland		
Within the Country	15 01 02	No	5.44	plastic packaging	R3	M	Weighed	Offsite in Ireland	Thorntons Recycling ,.	C/O PDM,Old Mill ,Kill,Co.Kildare,Ireland		
Within the Country	15 01 10	Yes	0.9	packaging containing residues of or contaminated by dangerous substances	R3	M	Weighed	Offsite in Ireland	Thorntons Recycling ,.	C/O PDM,Old Mill ,Kill,Co.Kildare,Ireland	Thorntons Recycling,.,C/O PDM,Old Mill ,Kill,Co. Kildare,Ireland	C/O PDM,Old Mill ,Kill,Co. Kildare,Ireland
Within the Country	19 12 07	No	2.34	wood other than that mentioned in 19 12 06	R3	M	Weighed	Offsite in Ireland	Greenstar,.	Unit 6,Ballyogan Business Park,Ballyogan Rd,Dublin 18,Ireland		
To Other Countries	19 02 05	Yes	815.27	sludges from physico/chemical treatment containing dangerous substances	R1	M	Weighed	Abroad	Afvalstoffen Terminal Moerdijk B.V.,821780	Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,., The Netherlands	Afvalstoffen Terminal Moerdijk B.V,821780,Industrieterrein - Seaport M152,Vlasweg 12,4782 PW Moerdijk,.,Netherlands	Industrieterrein - Seaport M152,Vlasweg 12,.,4782 PW Moerdijk,Netherlands

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 Non 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)
						M/C/E	Method Used					
Within the Country	19 02 99	No	57890.0	wastes not otherwise specified	D8	M	Weighed	Offsite in Ireland	Ringsend WWTW,.	Pigeon House Road,Ringsend,.,Dublin 4,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

APPENDIX 3

Schedule of 2015 Targets and Objectives

RILTA ENVIRONMENTAL Ltd.

ENVIRONMENTAL MANAGEMENT SYSTEM

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

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

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 Laboratory approval for the usage of wastes for treatment	RS TMc	Ongoing Ongoing	Y Yes
6	Optimize the quality of trade effluent	No ELV breaches	Clean 'wet wells' twice a year Clean DAF system twice a year	TMc TMc	Dec 15 Dec 15	Y Y

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

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

APPENDIX 4

Schedule of 2016 proposed Targets and Objectives

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

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 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

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

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) Re-coat the settlement tank (2) Re-coat the settlement tank (3)	CH CH CH	June 16 August 16 October 16	
4	Ensure only clean water released to the river	No ELV breaches	Empty and clean attenuation tank Skim storm water interceptor on a monthly basis Replace/Repair damaged concrete on a rota basis to ensure no damaged areas by 2016	CH/SH CH/SH CH/SH	June 16 Ongoing Dec 16	Y Y Y

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 Laboratory approval for the usage of wastes for treatment	RS TMc	Ongoing Ongoing	Y Yes
6	Optimize the quality of trade effluent	No ELV breaches	Clean 'wet wells' twice a year Clean DAF system twice a year	TMc TMc	Dec 16 Dec 16	Y Y

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	
			Monitor adjoining river on a quarterly basis.	CH	Ongoing	
			Implement 'closed door' policy system when unloading liquid waste tankers where possible	CM/DG	Ongoing	
			Cold cutting at the cedar site to take place inside with doors close	DG	Ongoing	
			Inform neighbours when bulk soil/sludge are being moved off site	CH	Ongoing	
			Make contact with Fortunes and Bailey care on a quarterly basis	CH	Ongoing	

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/SC CH/SC	Aug 16 Sept 16 Dec 16	

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						

APPENDIX 5

Rilta Environmental Management Structure

Rilta Environmental Management Structure