

Permit Reference Number: BR9715IB

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: A1

Reporting of Emissions to Air for the period from: 01/01/2017 to 31/12/2017

Emission Point	Substance / Parameter	Emission Limit Value	Result	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty
A1	By-pass hours operated	-	---	---	---	---	---
A2	Oxides of Nitrogen (Gas)	150 mg/m ³	---	---	---	---	---
	Oxides of Nitrogen (Kerosene)	300 mg/m ³	---	---	---	---	---
A3	Oxides of Nitrogen	450 mg/m ³	N/A - Boiler 15 dismantled in 2013				
A4	Oxides of Nitrogen	75 mg/m ³	219	BS EN 14792	05/04/17 14:30 – 15:30	MCerts Lvl 2 + TE	13.4
			184		24/08/17 11:16 – 13:16		12.5
	Carbon Monoxide	100 mg/m ³	7.4	BS EN 15058	05/04/17 14:30 – 15:30	MCerts Lvl 2 + TE	1.4
			4.4		24/08/17 11:16 – 13:16		1.2
A6	HCl	10 mg/m ³	0.04	EN 1911	24/08/17 12:00 – 13:00	MCerts Lvl 2 + TE	0.002
	Chloromethane	---	1423	CEN/TS 13649	07/03/17 12:29 – 13:29	MCerts Lvl 2 + TE	398
			19.7		29/06/17 09:50 – 10:50		7.8
			20.5		24/08/17 13:03 – 14:03		3.2
			1974		22/12/17 09:30 – 10:30		789
A12	Phenol	5 g/hr	---	---	---	---	---
	Iso Decanol	50 g/hr	---	---	---	---	---
	Iso Octanol	50 g/hr	---	---	---	---	---
A30/A16	Benzene [Day Tank]	20 g/hr	2.4	---	2016 - Calculation	N/A	N/A
	Benzene [Bulk Tank]	100 g/hr	54.3	---	2016 - Calculation	N/A	N/A
A26	Oxides of Nitrogen	135 mg/m ³	254.1	BS EN 14792	09/03/17 10:53 – 11:53	MCerts Lvl 2 + TE	11.4
			276.0		21/12/17 12:30 – 13:30		15.7
	Benzene	5 mg/m ³	<0.19	CEN/TS 13649	09/03/17 10:51 – 11:51	MCerts Lvl 2 + TE	0.04
			<0.12		21/12/17 12:30 – 13:30		0.03
A27	Oxides of Nitrogen	135 mg/m ³	---	BS EN 14792	---	'In-house' Tests	---
			292.0		08/08/17 11:32 – 15:00		8.8
	Benzene	5 mg/m ³	---	---	---	MCerts Lvl 2 + TE	---
			---		---		---
A28	Oxides of Nitrogen	135 mg/m ³	147.8	BS EN 14792	08/03/17 12:30 – 13:30	MCerts Lvl 2 + TE	6.9
			83.0		28/08/17 11:45 – 12:45		7.3
A29	Oxides of Nitrogen	135 mg/m ³	162.6	BS EN 14792	08/03/17 13:58 – 14:58	MCerts Lvl 2 + TE	8.1
			89.1		25/08/17 10:30 – 11:30		6.7
A31/A32	Oxides of Nitrogen	75 mg/m ³	---	---	---	---	---

Signed *:



Date: 25/01/2018

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11

Permit Reference Number: BR97151B
Operator: Solutia UK Ltd
Installation: Newport Chemical Complex

Form Number: A2

Reporting of Annual Emissions to Air for the year: 2017

Emission Point	Substance / Parameter	Annual Limit Kgs	Result
A2-A4	Oxides of Nitrogen	20000	19765
A2-A4 [*1]	Oxides of Sulphur	6000	---
A6	Chloromethane	42000	17114
A12 [*2]	Phenol	---	---
A15-17	Benzene	800	623

[*1] Effectively zero since final burning of HFO in 2012

[*2] The process associated with this emission point has ceased operation, and did not run in 2017

Signed *:



Date: 25/01/2018

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11

Permit Reference Number: BR97151B

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: R1

Reporting of Waste Disposal and Recovery for the year: 2017

Waste Description	Disposal			Recovery	
	Landfill D1	Treatment D9	Incineration D10	Cemfuel® R1	Material R2,R3,R4,R5
1) Hazardous Wastes					
Named haz. Waste	---	---	---	---	---
Other hazardous wastes	---	---	---	---	---
Total hazardous waste	0	0	41.0	1137.4	1.4
2) Non-Hazardous Wastes					
Named non-haz. Waste	---	---	---	---	---
Other non-hazardous wastes	---	---	---	---	---
Total non-hazardous waste	217.5	0	0	0	165.9
TOTAL WASTE	217.5	0	41.0	1137.4	167.3

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Named Waste	Total Waste	Waste per unit output
2010	778	1171	0.014
2011	1033	2104	0.022
2012	1122	2488	0.029
2013	1546	2662	0.035
2014	1106	2418	0.029
2015	1850	3019	0.034
2016	---	2148	0.026
2017	---	1563	0.018

Operator's comments:

The 'named & other' categories (greyed out above) are believed to be legacy reporting requirements, which pre-date more recent waste classifications. As such these have been omitted from this report form

Signed *:



Date: 25/01/2018

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11

Permit Reference Number: BR97151B

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: WU1

Reporting of Water Usage for the year: 2017

Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	844234	9.95
Potable / Non-Potable	---	---
TOTAL WATER USAGE	844234	9.95

Trends in Water Usage	
Year	Total Water Usage
2010	1173469
2011	1166776
2012	988596
2013	1000672
2014	1032333
2015	943807
2016	782628
2017	844234

Operator's comments:

Signed *: 

Date: 25/01/2018

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11

Permit Reference Number: BR97151B

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: E1

Reporting of Energy Usage for the year: 2017

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Delivered Energy MWh	Primary Energy (MWh)	
Electricity Imported ¹	12181	29234	4853
Site - Generated by CHP	---	---	---
Site - Generated by Wind Turbine	7796	7796	---
Gas	171421	171421	34888
Oil ²	0.0	0.0	0.0
TOTAL	191398	208451	39741

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage	CO ₂ produced	CO ₂ per tonne product output
2010	197,261	35,666	0.41
2011	212,473	41,674	0.42
2012	249,192	45,375	0.53
2013	238,099	43,267	0.56
2014	225,798	41,161	0.49
2015	217669	38998	0.44
2016	178200	36827	0.44
2017	208451	39741	0.47

Operator's comments:

1. Conversion factor for delivered electricity to primary energy = 2.4
2. CO₂ factor for electricity = 0.166
3. Site Tonnage = 84807t

Signed *:



Date: 25/01/2018

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11

Permit Reference Number: BR97151B
Operator: Solutia UK Ltd
Installation: Newport Chemical Complex

Form Number: P1

Reporting of Performance Indicators for the year: 2017

Environmental Performance Indicators

Parameter	Annual Emission	Units	Trends in Environmental Performance							
			Year	Parameter						
				COD kg/t	DTA (mean NOEC)	VOCs kg/t	POCP Score	Bypass hrs	Auxiliary hrs	Efficiency CHP %
Effluent COD	1279203	kg	2010	8.9	19.8	<0.1	58	NA	NA	---
VOCs ^[1]	5729	kg	2011	10.2	11.8	<0.1	74	114	177	---
Ozone Creation (POCP)	31.0	t	2012	9.1	15.8	<0.1	61	7	161	---
CHP by-pass stack usage	NA	hrs	2013	10.5	16.1	<0.1	62	7	460	---
Boiler 16 aux mode	8414	hrs	2014	9.0	25.9	<0.1	63	9.75	1608	---
CHP thermal efficiency	NA	%	2015	9.4	^[3]	0.08	62	2	6688	---
			2016	9.6	---	0.06	26	NA	8417	---
			2017	15.1	---	0.07	31	NA	8414	---

Operator's comments:

1. Expressed as C
2. GT shut down 01/04/2015, hence NA's
3. End of monitoring campaign in 2014
4. Site Tonnage = 84807t

Signed *: 

Date: 25/01/2018

(* authorised to sign as representative of the Operator)

Date of Form: 31/03/11