

Permit Reference Number: BR97151B

Operator: Solutia UK Ltd

Installation: Newport Chemical Complex

Form Number: A1

Reporting of Emissions to Air for the period from: 01/01/2024 to 31/12/2024

Emission Point	Substance / Parameter	Emission Limit Value	Result	Test Method	Sample Date and Times	Accreditation / Certification	Uncertainty
A2	Oxides of Nitrogen (Gas)	150 mg/m ³	---	---	Not in service as of 2023	---	---
	Oxides of Nitrogen (Kerosene)	300 mg/m ³	---	---	Not in service as of 2021	---	---
A4	Oxides of Nitrogen	75 mg/m ³	32.0	BS EN 14792	26/06/24 10:52 – 13:20	MCerts Lvl 2 + TE	1.9
			3.4		17/12/24 12:30 – 13:30		0.45
	Carbon Monoxide	•	70.5	BS EN 15058	26/06/24 10:52 – 13:20	MCerts Lvl 2 + TE	2.8
			8.8		17/12/24 12:30 – 13:30		0.68
A6	HCl	•	0.026	EN 1911	14/08/24 10:44 – 11:44	MCerts Lvl 2 + TE	0.0012
	Chloromethane	•	409.0	CEN/TS 13649	21/03/24 11:50 – 12:50	MCerts Lvl 2 + TE	225.0
			61.6		12/06/24 10:25 – 11:25		34.0
			68.6		14/08/24 10:44 – 11:44		19.2
			0.68		18/12/24 10:18 – 11:18		0.14
A30/A16	Benzene [Day Tank]	•	---	---	Not in service as of 2021	---	---

Signed *:



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	Benzene [Bulk Tank]	•	53.7	---	Annual Calculation	N/A	N/A
A23	Oxides of Nitrogen	•	---	BS EN 14792	Unit did not run in 2024	MCerts Lvl 2 + TE	---
			---		Unit did not run in 2024		---
	Benzene	•	---	CEN/TS 13649	Unit did not run in 2024	MCerts Lvl 2 + TE	---
			---		Unit did not run in 2024		---
A26	Oxides of Nitrogen	•	186	BS EN 14792	11/06/24 13:20 – 14:20	MCerts Lvl 2 + TE	8.3
			81.9		19/12/24 11:32 – 12:32		3.7
	Benzene	•	1.1	CEN/TS 13649	11/06/24 13:20 – 14:20	MCerts Lvl 2 + TE	0.31
			2.1		19/12/24 11:30 – 12:30		0.82

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A27	Oxides of Nitrogen	•	149	BS EN 14792	11/06/24 10:32 – 11:32	MCerts Lvl 2 + TE	6.96
			84.7		19/12/24 13:00 – 14:00		3.9
	Benzene	•	0.76	CEN/TS 13649	11/06/24 11:08 – 12:08	MCerts Lvl 2 + TE	0.21
			1.3		19/12/24 13:00 – 14:00		0.51
A28	Oxides of Nitrogen	•	99.3	BS EN 14792	20/03/24 10:00 – 11:00	MCerts Lvl 2 + TE	4.8
			82.7		15/08/24 09:56 – 10:56		4.8
A29	Oxides of Nitrogen	•	93.0	BS EN 14792	20/03/24 11:10 – 12:10	MCerts Lvl 2 + TE	4.5
			78.5		15/08/24 11:15 – 12:15		4.9
A31	Oxides of Nitrogen	•	57.0	BS EN 14792	21/03/24 09:40 – 10:40	MCerts Lvl 2 + TE	2.9
			45.7		16/08/24 10:15 – 11:15		2.2

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		•	115.0 ^[1]		21/03/24 09:40 – 10:40		4.9
	Carbon Monoxide		40.5	BS EN 15058	16/08/24 10:15 – 11:15	MCerts Lvl 2 + TE	1.8

^[1] Unauthorised Release Notification(s) Submitted

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Permit Reference Number: BR97151B
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Installation: Newport Chemical Complex

Form Number: A2

Reporting of Annual Emissions to Air for the year: 2024

Emission Point	Substance / Parameter	Annual Limit Kgs	Result
A2-A4	Oxides of Nitrogen	20000	9806
A2-A4 ^[*1]	Oxides of Sulphur	6000	---
A6	Chloromethane	• 42 00 0	2777
A15-17, A30	Benzene	• 80 0	471

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

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Permit Reference Number: BR97151B
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 Installation: Newport Chemical Complex

Form Number: R1

Reporting of Waste Disposal and Recovery for the year: 2024

Waste Description	Disposal			Recovery	
	Landfill D1	Treatment D9	Incineration D10, D15	Cemfuel® R1	Material R2,R3,R4,R5
1) Hazardous Wastes					
Named haz. Waste	---	---	---	---	---
Other hazardous wastes	---	---	---	---	---
Total hazardous waste	0	174.6	83.0	806.4	1.6
2) Non-Hazardous Wastes					
Named non-haz. Waste	---	---	---	---	---
Other non-hazardous wastes	---	---	---	---	---
Total non-hazardous waste	104.6	0	30.2	35.6	99.9
TOTAL WASTE	104.6	174.6	113.2	842	101.5

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
2018	---	2068	0.021
2019	---	2291	0.022
2020	---	2141	0.023
2021	---	2928	0.028
2022	---	2563	0.029
2023	---	2917	0.046
2024	---	1336	0.019

Operator's comments:

- Site Tonnage = 69362t

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Form Number: WU1

Reporting of Water Usage for the year: 2024

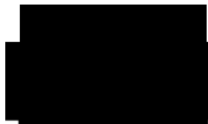
Water Source	Usage (m3)	Specific Usage (m3/t)
Main's water	796347	11.48
Potable / Non-Potable	---	---
TOTAL WATER USAGE	796347	11.48

Trends in Water Usage	
Year	Total Water Usage
2010	1173469
2011	1166776
2012	988596
2013	1000672
2014	1032333
2015	943807
2016	782628
2017	844234
2018	878218
2019	639368
2020	894000
2021	918249
2022	825209
2023	723042
2024	796347

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- Site Tonnage = 69362t

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Form Number: E1

Reporting of Energy Usage for the year: 2024

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Delivered Energy MWh	Primary Energy (MWh)	
Electricity Imported	-3513	-8431	-1400
Site - Generated by CHP	13482	32356	---
Site - Generated by Wind Turbine	5856	5856	---
Gas	152143	152143	25256
Oil	0	0	0
TOTAL	167968	181924	23856

Year	Trends in Energy Usage		
	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	217,669	38,998	0.44
2016	178,200	36,827	0.44
2017	208,451	39,741	0.47
2018	248,922	35,286	0.36
2019	249,489	35,746	0.35
2020	273,701	36,399	0.39
2021	273,836	36,199	0.35
2022	239,580	32,775	0.37
2023	214,693	28,015	0.44
2024	181,924	23,856	0.34

Operator's comments:

- Conversion factor for delivered electricity to primary energy = 2.4
- CO₂ factor CO₂/MWh = 0.166
- Site Tonnage = 69362t
- There is a net export of electricity to other site tenants (hence the negative number on import)
- CHP CO₂ not provided, as it is accounted for in the Gas usage

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Form Number: P1

Reporting of Performance Indicators for the year: 2024

Environmental Performance Indicators

Parameter	Annual Emission	Units
Effluent COD	1481955	kg
VOCs ^[1]	2713	kg
Ozone Creation (POCP)	18.2	t
CHP by-pass stack usage	98	hrs
Boiler 16 aux mode	3096	hrs
CHP thermal efficiency	^[3]	%

Trends in Environmental Performance							
Year	Parameter						
	COD kg/t	DTA (mean NOEC)	VOCs kg/t	POCP Score	Bypass hrs	Auxiliary hrs	Efficiency CHP %
2010	8.9	19.8	<0.1	58	NA	NA	---
2011	10.2	11.8	<0.1	74	114	177	---
2012	9.1	15.8	<0.1	61	7	161	---
2013	10.5	16.1	<0.1	62	7	460	---
2014	9.0	25.9	<0.1	63	10	1608	---
2015	9.4	^[2]	0.08	62	2	6688	---
2016	9.6	---	0.06	26	NA	8417	---
2017	15.1	---	0.07	31	NA	8414	---
2018	16.3	---	0.05	28	NA	1520	86.0
2019	17.2	---	0.05	30	NA	438	69.6
2020	19.1	---	0.05	25	NA	437	69.5
2021	18.9	---	0.04	24	NA	188	73.3
2022	15.1	---	0.05	24	NA	1879	65.0
2023	15.8	---	0.04	21	NA	587	68.5
2024	21.4	---	0.04	18	98	3096	^[3]

Operator's comments:

- [1] Expressed as C
- [2] End of monitoring campaign in 2014
- [3] Pending annual CHPQA assessment
- Site Tonnage = 69362t

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