Permit Number:	DP3832EF	Operator:	Biotage GB Limited
Facility:	Unit C IST House	Form Number:	WaterUsage1 / 30/01/2025

Reporting of Water Usage for the year 2025

Water Source	Usage (m^3/year	Specific Usage (m^3/unit output)
Mains water	621.0 m^3 / year	1423.7 m^3 / tonne
Site borehole	0.0 m^3 / year	
River abstraction	0.0 m^3 / year	
TOTAL WATER USAGE	621.0 m^3 / year	1423.7 m^3 / tonne

Operator's comments :

Signed [redacted] Date.....30/01/25 .....

(authorised to sign as representative of Operator)

Permit Number:	DP3832EF	Operator:	Biotage GB Limited
Facility:	Unit C IST House	Form Number:	Energy1 / 30/01/25

Reporting of Energy Usage for the year 2024

Energy Source	Energy Usage Quantity	Primary Energy (MWh)	Specific Usage (MWh/unit output)
Electricity *	514.26 MWh	1,234.23 MWh	1,178.96 MWh / tonne
Natural Gas	211.51 MWh		484.89 MWh / tonne
Gas Oil	0.0 tonnes		
Recovered Fuel Oil	0.0 tonnes		
TOTAL	725.77 MWh		1663.85 MWh / tonne

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :

Signed [redacted] ..... Date.....30/01/25.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/DP3832EF Operator: Biotage GB Limited

Facility: Unit C IST House, Distribution Way. Form Number: Performance1 / 31/01/25

Reporting of other performance indicators for the period 01/01/2024 **to** 31/12/2024

Parameter	Units	
Polystyrene polymer	0.0125	tonnes/year for activity A1
Bromine	0.0078	tonnes/year for activity A1
Iron (III) chloride	0.0002	tonnes/year for activity A1
Dichloromethane	0.5896	tonnes/year for activity A1
Methanol	0.1444	tonnes/year for activity A1
Amorphous synthetic silica	0.2793	tonnes/year for activity A2
Ethylbenzene	0.7136	tonnes/year for activity A2
Imidazole	0.0783	tonnes/year for activity A2
Trichlorosilanes (various)	0.1560	tonnes/year for activity A2
Hexane	1.4202	tonnes/year for activity A2
Acetone	2.1863	tonnes/year for activity A2
Methanol	1.4024	tonnes/year for activity A2
Si – Thiol	0.1427	tonnes/year for activity A3
Nitric Acid	0.1766	tonnes/year for activity A3
Methanol	1.7800	tonnes/year for activity A3
Bonded silica sorbents	0.0169	tonnes/year for activity A4
Dichloromethane	0.1315	tonnes/year for activity A4
Chlorosulfonic acid	0.0210	tonnes/year for activity A4
Methanol	0.7321	tonnes/year for activity A4
Total amount of product produced – Activity A1	0.0165	tonnes
Total amount of product produced – Activity A2	0.2958	tonnes
Total amount of product produced – Activity A3	0.1087	tonnes
Total amount of product produced – Activity A4	0.0152	tonnes
Total amount of product produced	**0.4362**	tonnes

Parameter	Units	
Total amount of hazardous waste produced	364.752	tonnes
Total amount of non-hazardous waste produced	49.268	tonnes
Total amount of mixed recycling waste produced	51.59	tonnes

Operator's comments :

NB Waste quantities added to this form as there was nowhere else to report them.

Signed [redacted] Date 31/01/25

(Authorised to sign as representative of Operator)

Permit Number: EPR/DP3832EF Operator: Biotage GB Limited

Facility: Unit C IST House, Distribution Way. Form Number: Air1 / 27/01/25

Reporting of emissions to air for the period from 01/01/2024 to 31/12/2024

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1 Main building EP1	Hydrogen chloride	15.12 g/hr	Duration of batch reaction	197.89 g/hr (88.32 g/hr)	BS EN 16911-1:2013 & MID	07/02/24; 08:15 – 16:00	13
A1 Main building EP1	VOC - Methanol	4.0824 g/hr	Duration of batch reaction	6.6 g/hr (3.2 g/hr)	CEN/TS 13649:2014	07/02/24; 08:40 – 16:00	20
A2 Main building EP1	Hydrogen chloride	49.068 g/hr	Duration of batch reaction	47.53 g/hr (18.78 g/hr)	BS EN 1911:2010	08/02/24; 08:35 – 13:35 09/02/24: 08:45 – 11:10	13
A2 Main building EP1	VOC - Methanol	45.684 g/hr	Duration of batch reaction	1.7542 g/hr (0.9905 g/hr)	CEN/TS 13649:2014	08/02/24; 08:30 – 13:35 09/02/24: 08:45 – 11:10	40
A3 Main building EP1	Oxides of nitrogen (as NO_2)	48.84 g/hr	Duration of batch reaction	68.79 g/hr	BS EN 14792:2017	07/02/24 08:40 – 14:40	2
A3 Main building EP1	VOC - Methanol	355.68 g/hr	Duration of batch reaction	38.42 g/hr (10.69 g/hr)	CEN/TS 13649:2014	07/02/24 08:40 – 15:15	20
A4 Resin shed EP2	Hydrogen Bromide	0.6264 g/hr	Duration of batch reaction	0.23 g/hr (0.063 g/hr)	US EPA Method 26	05/02/24: 10:45 – 15:30 06/02/24: 07:320 – 12:15	13

Comment: re figures in Results column in brackets represent average emissions over the batch process.
Values from monitoring last year are higher than expected, investigation showed the monitoring time was much shorter than previous tests and did not cover the duration of the reaction. Monitoring has been repeated in November 2024, but the report and results are not available at the time of writing

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed [redacted] Date 27/01/25

(Authorised to sign as representative of Operator)