

Permit Number: YP3937SH

Operator: Mekatek Limited

Facility: Amex Park

Form Number: Water1

Reporting of emissions to water (other than to sewer) and land for the period from 01/01/2023 to 31/01/2023

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
W1	Total suspended solids (TSS)	60 mg/l	Monthly analysis of bulk daily sample.	5 mg/l	As per EN 872 and Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Monthly Composite	11.39%
	Total ammonium as N	20mg/l (winter period) ^[5]	Spot sample	18.70 mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Daily throughout month	13.9%
		15mg/l (summer period) ^[6]				31/01/2023	23.60%
	Biochemical oxygen demand (5 day)	75mg/l (winter period) ^[5] 40 mg/l (summer period) ^[6]	Spot sample	39 mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Daily throughout month	N/A
	Oils and grease	No visible release	Visual inspection	Non visible		Daily throughout month	1 DP
	Temperature	≤24°C	Spot readings	13.3		Monthly data	15.62%
	pH	6 to 8.5	Continuous	6.48-8.40		Monthly data	8%
	Flow	39l/second 2500m³/day	Continuous	30.54 1699.20m³/day	Various EN standards available (e.g. EN ISO 11885).	Monthly Composite	14.31%
	Cadmium and its compounds as Cd	0.05mg	Monthly analysis of bulk daily sample	0.00003mg/l		Monthly Composite	11.89%
	Chromium and its compounds as Cr	0.15mg		0.0059mg/l		Monthly Composite	

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
	Copper and its compounds as Cu	0.5mg		0.047mg/l	EN ISO 17294-2, EN ISO 15586)	Monthly Composite	8.65%
	Lead and its compounds as Pb	0.1mg		0.0036mg/l		Monthly Composite	5.50%
	Nickel and its compounds as Ni	0.5mg		0.0072mg/l		Monthly Composite	9.33%
	Zinc and its compounds as Zn	1mg		0.067mg/l		Monthly Composite	7.98%
	Mercury and its compounds as Hg	5 ug/l	None set	0.18ug/l	Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)	Monthly Composite	14.82%
	Free cyanide (CN-)	0.1mg		<0.008mg/l	Various EN standards available (i.e. EN ISO 14403-1 and -2)	Monthly Composite	13.83%
	Phenol index	0.3mg		<0.10mg/l	EN ISO 14402	Monthly Composite	10.08%
	Total nitrogen (Total N)	25 mg/l		20.6 mg/l	EN 12260, EN ISO 11905-1	Monthly Composite	7.53%
	Total organic carbon (TOC)	60 mg/l	None set	20.3mg/l	EN 1484	Monthly Composite	16.34%
	Total phosphorus (Total P)	2 mg/l	None set	0.75mg/l	Various EN standards available (i.e. EN ISO 15681-1 and -2, EN ISO 6878, EN ISO 11885)	Monthly Composite	10.87

[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.

[5] Winter period is defined as 01 October to 31 March.

[6] summer period is defined as 01 April to 30 September



Signed
(Authorised to sign as representative of Operator)

Date 28/04/2021

Permit Number: YP3937SH Operator: Mekatek Limited

Facility: Amex Park Form Number: Water1 /

Reporting of emissions to water (other than to sewer) and land for the period from 01/02/2023 to 28/02/2023

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
W1	Total suspended solids (TSS)	60 mg/l	Monthly analysis of bulk daily sample.	2 mg/l	As per EN 872 and Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Monthly Composite	11.39%
	Total ammonium as N	20mg/l (winter period) ⁽⁵⁾	Spot sample	13.8 mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Daily throughout month	13.9%
		15mg/l (summer period) ⁽⁶⁾				28/02/2023	
	Biochemical oxygen demand (5 day)	75mg/l (winter period) ⁽⁵⁾	Spot sample	39 mg/l			23.60%
		40 mg/l (summer period) ⁽⁶⁾					
	Oils and grease	No visible release	Visual inspection	Non visible		Daily throughout month	N/A
	Temperature	≤24°C	Spot readings	13.4		Daily throughout month	1 DP
	pH	6 to 8.5	Continuous	6.59-8.45		Monthly data	15.62%
	Flow	39l/second 2500m ³ /day	Continuous	28.42 1368.51m ³ /day		Monthly data	8%
	Cadmium and its compounds as Cd	0.05mg	Monthly analysis of bulk daily sample	0.00003mg/l	Various EN standards available (e.g. EN ISO 11885)	Monthly Composite	14.31%
	Chromium and its compounds as Cr	0.15mg		0.0081mg/l		Monthly Composite	11.89%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
	Copper and its compounds as Cu	0.5mg		0.43mg/l	EN ISO 17294-2, EN ISO 15586)	Monthly Composite	8.65%
	Lead and its compounds as Pb	0.1mg		0.0039mg/l		Monthly Composite	5.50%
	Nickel and its compounds as Ni	0.5mg		0.092mg/l		Monthly Composite	9.33%
	Zinc and its compounds as Zn	1mg		0.056mg/l		Monthly Composite	7.98%
	Mercury and its compounds as Hg	5 ug/l		0.32ug/l	Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)	Monthly Composite	14.82%
	Free cyanide (CN ⁻)	0.1mg	None set	<0.008mg/l	Various EN standards available (i.e. EN ISO 14403-1 and -2)	Monthly Composite	13.83%
	Phenol index	0.3mg	None set	<0.1mg/l	EN ISO 14402	Monthly Composite	10.08%
	Total nitrogen (Total N)	25 mg/l	None set	16.4mg/l	EN 12260, EN ISO 11905-1	Monthly Composite	7.53%
	Total organic carbon (TOC)	60 mg/l	None set	25.7 mg/l	EN 1484	Monthly Composite	16.34%
	Total phosphorus (Total P)	2 mg/l	None set	0.61mg/l	Various EN standards available (i.e. EN ISO 15681-1 and -2, EN ISO 6878, EN ISO 11885)	Monthly Composite	10.87

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- [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.
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- [5] Winter period is defined as 01 October to 31 March.

[6] summer period is defined as 01 April to 30 September



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Date 28/04/2023

Permit Number: YP3937SH

Operator: Mekatek Limited

Facility: Amex Park

Form Number: Water1 /

Reporting of emissions to water (other than to sewer) and land for the period from 01/03/2023 to 31/03/2023

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
W1	Total suspended solids (TSS)	60 mg/l	Monthly analysis of bulk daily sample.	4mg/l	As per EN 872 and Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Monthly Composite	11.39%
	Total ammonium as N	20mg/l (winter period) ^[5]	Spot sample	17.2 mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Daily throughout month	13.9%
		15mg/l (summer period) ^[6]					
	Biochemical oxygen demand (5 day)	75mg/l (winter period) ^[5]	Spot sample	12 mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	31/03/2023	23.60%
		40 mg/l (summer period) ^[6]					
	Oils and grease	No visible release	Visual inspection	Non visible	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Daily throughout month	N/A
	Temperature	≤24°C	Spot readings	13.9		Daily throughout month	1 DP
	pH	6 to 8.5	Continuous	6.75-8.45		Monthly data	15.62%
	Flow	39l/second 2500m ³ /day	Continuous	25.62 1623.29m ³ /day	Various EN standards available (e.g. EN ISO 11885)	Monthly data	8%
	Cadmium and its compounds as Cd	0.05mg	Monthly analysis of bulk daily sample	<0.00007mg/l		Monthly Composite	14.31%
	Chromium and its compounds as Cr	0.15mg		0.013mg/l		Monthly Composite	11.89%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
	Copper and its compounds as Cu	0.5mg		0.285mg/l	EN ISO 17294-2, EN ISO 15586)	Monthly Composite	8.65%
	Lead and its compounds as Pb	0.1mg		0.0043mg/l		Monthly Composite	5.50%
	Nickel and its compounds as Ni	0.5mg		0.014mg/l		Monthly Composite	9.33%
	Zinc and its compounds as Zn	1mg		0.092mg/l		Monthly Composite	7.98%
	Mercury and its compounds as Hg	5 ug/l	None set	0.222ug/l	Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)	Monthly Composite	14.82%
	Free cyanide (CN-)	0.1mg		<0.009 mg/l	Various EN standards available (i.e. EN ISO 14403-1 and -2)	Monthly Composite	13.83%
	Phenol index	0.3mg		<0.1 mg/l	EN ISO 14402	Monthly Composite	10.08%
	Total nitrogen (Total N)	25 mg/l		19.3mg/l	EN 12260, EN ISO 11905-1	Monthly Composite	7.53%
	Total organic carbon (TOC)	60 mg/l	None set	30.4mg/l	EN 1484	Monthly Composite	16.34%
	Total phosphorus (Total P)	2 mg/l	None set	1.2mg/l	Various EN standards available (i.e. EN ISO 15681-1 and -2, EN ISO 6878, EN ISO 11885)	Monthly Composite	10.87

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