

Permit Number: EPR/PP3993VS

Operator: Atlantic Recycling Limited

Facility: Atlantic Recycling

Form Number: Surfacewater1

Reporting of surface water monitoring for quarterly monitoring in July 2019

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
OF	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.82	mg/l	TM099	15/07/2019	Lab Precision: 1.75%, Bias: 1.28%, Expanded Uncertainty: 4.79%, Sampling Immeasurable
OF	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	5.02	mg/l	TM045	15/07/2019	Lab Precision: 5.09%, Bias: 7.97%, Expanded Uncertainty: 18.14%, Sampling Immeasurable
OF	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	15/07/2019	Lab Precision: 2%, Bias: 2.57%, Expanded Uncertainty: 6.58%, Sampling Immeasurable
OF	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	181	mg/l	TM152	15/07/2019	Lab Precision: 2.34%, Bias: 0.86%, Expanded Uncertainty: 5.54%, Sampling Immeasurable
OF	Chloride	>300 mg/l	Monthly	90.1	mg/l	TM184	15/07/2019	Lab Precision: 3.17%, Bias: 4.73%, Expanded Uncertainty: 11.07%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
OF	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	1.17	mS/cm	TM120	15/07/2019	Lab Precision: 0.52%, Bias: 3.32%, Expanded Uncertainty: 4.36%, Sampling Immeasurable
OF	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	15/07/2019	Lab Precision: 10.03%, Bias: -2.14%, Expanded Uncertainty: 22.2%, Sampling Immeasurable
OF	Lead (diss.filt)	>0.25 mg/l	Monthly	0.329	ug/l	TM152	15/07/2019	Lab Precision: 2.98%, Bias: 1.57%, Expanded Uncertainty: 7.53%, Sampling Immeasurable
OF	Nickel (diss.filt)	>0.1 mg/l	Monthly	3.18	ug/l	TM152	15/07/2019	Lab Precision: 2.9%, Bias: 0.31%, Expanded Uncertainty: 6.11%, Sampling Immeasurable
OF	Nitrate as N	>1 mg/l	Monthly	0.447	mg/l	TM184	15/07/2019	Lab Precision: N/A, Sampling Immeasurable
OF	Nitrite as N	>1 mg/l	Monthly	0.021	mg/l	TM184	15/07/2019	Lab Precision: 1.26%, Bias: -0.01%, Expanded Uncertainty: 2.53%, Sampling Immeasurable
OF	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	2.69	mg/l	TM187	15/07/2019	Lab Precision: N/A, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
OF	pH	6.8 – 8.5	Monthly	8.09	pH Units	TM256	15/07/2019	Lab Precision: 0.03%, Bias: 0.09%, Expanded Uncertainty: 0.15%, Sampling Immeasurable
OF	Phosphate (Ortho as PO ₄)	>1 mg/l	Monthly	0.294	mg/l	TM184	15/07/2019	Lab Precision: 1.29%, Bias: 2.01%, Expanded Uncertainty: 4.59%, Sampling Immeasurable
OF	Sulphate	>300 mg/l	Monthly	271	mg/l	TM184	15/07/2019	Lab Precision: 2.94%, Bias: 1.5%, Expanded Uncertainty: 7.39%, Sampling Immeasurable
OF	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	26	mg/l	TM022	15/07/2019	Lab Precision: 0.98%, Bias: -1.01%, Expanded Uncertainty: 2.97%, Sampling Immeasurable
OF	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	15/07/2019	Lab Precision: 9.38%, Bias: 4.58%, Expanded Uncertainty: 23.33%, Sampling Immeasurable
OF	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	15/07/2019	Lab Precision: 8.57%, Bias: -11.11%, Expanded Uncertainty: 28.26%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
OF	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.469	mg/l	TM184	15/07/2019	Lab Precision: 2.95%, Bias: 4.07%, Expanded Uncertainty: 9.96%, Sampling Immeasurable
OF	Zinc (tot.unfilt)	>1 mg/l	Monthly	39.9	ug/l	TM152	15/07/2019	Lab Precision: 2.61%, Bias: 2.65%, Expanded Uncertainty: 7.87%, Sampling Immeasurable
SW09	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	<0.2	mg/l	TM099	15/07/2019	Lab Precision: 1.75%, Bias: 1.28%, Expanded Uncertainty: 4.79%, Sampling Immeasurable
SW09	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	3.32	mg/l	TM045	15/07/2019	Lab Precision: 5.09%, Bias: 7.97%, Expanded Uncertainty: 18.14%, Sampling Immeasurable
SW09	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	15/07/2019	Lab Precision: 2%, Bias: 2.57%, Expanded Uncertainty: 6.58%, Sampling Immeasurable
SW09	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	151	mg/l	TM152	15/07/2019	Lab Precision: 2.34%, Bias: 0.86%, Expanded Uncertainty: 5.54%, Sampling Immeasurable
SW09	Chloride	>300 mg/l	Monthly	73	mg/l	TM184	15/07/2019	Lab Precision: 3.17%, Bias: 4.73%, Expanded Uncertainty: 11.07%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
SW09	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.987	mS/cm	TM120	15/07/2019	Lab Precision: 0.52%, Bias: 3.32%, Expanded Uncertainty: 4.36%, Sampling Immeasurable
SW09	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	15/07/2019	Lab Precision: 10.03%, Bias: -2.14%, Expanded Uncertainty: 22.2%, Sampling Immeasurable
SW09	Lead (diss.filt)	>0.25 mg/l	Monthly	0.472	ug/l	TM152	15/07/2019	Lab Precision: 2.98%, Bias: 1.57%, Expanded Uncertainty: 7.53%, Sampling Immeasurable
SW09	Nickel (diss.filt)	>0.1 mg/l	Monthly	2.31	ug/l	TM152	15/07/2019	Lab Precision: 2.9%, Bias: 0.31%, Expanded Uncertainty: 6.11%, Sampling Immeasurable
SW09	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	15/07/2019	Lab Precision: N/A, Sampling Immeasurable
SW09	Nitrite as N	>1 mg/l	Monthly	0.0779	mg/l	TM184	15/07/2019	Lab Precision: 1.26%, Bias: -0.01%, Expanded Uncertainty: 2.53%, Sampling Immeasurable
SW09	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	5.78	mg/l	TM187	15/07/2019	Lab Precision: N/A, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
SW09	pH	6.8 – 8.5	Monthly	7.91	pH Units	TM256	15/07/2019	Lab Precision: 0.03%, Bias: 0.09%, Expanded Uncertainty: 0.15%, Sampling Immeasurable
SW09	Phosphate (Ortho as PO ₄)	>1 mg/l	Monthly	0.1	mg/l	TM184	15/07/2019	Lab Precision: 1.29%, Bias: 2.01%, Expanded Uncertainty: 4.59%, Sampling Immeasurable
SW09	Sulphate	>300 mg/l	Monthly	209	mg/l	TM184	15/07/2019	Lab Precision: 2.94%, Bias: 1.5%, Expanded Uncertainty: 7.39%, Sampling Immeasurable
SW09	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	28.5	mg/l	TM022	15/07/2019	Lab Precision: 0.98%, Bias: -1.01%, Expanded Uncertainty: 2.97%, Sampling Immeasurable
SW09	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	15/07/2019	Lab Precision: 9.38%, Bias: 4.58%, Expanded Uncertainty: 23.33%, Sampling Immeasurable
SW09	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	15/07/2019	Lab Precision: 8.57%, Bias: -11.11%, Expanded Uncertainty: 28.26%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Time ⁽³⁾	Uncertainty ⁽⁴⁾
SW09	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	15/07/2019	Lab Precision: 2.95%, Bias: 4.07%, Expanded Uncertainty: 9.96%, Sampling Immeasurable
SW09	Zinc (tot.unfilt)	>1 mg/l	Monthly	10.3	ug/l	TM152	15/07/2019	Lab Precision: 2.61%, Bias: 2.65%, Expanded Uncertainty: 7.87%, Sampling Immeasurable

- [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 the Environment Agency 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.....

Date: August 2019

(Authorised to sign as representative of Operator)

Ahlim Hashm on behalf of Atlantic Recycling
Permit Number: EPR/PP3993VS