

Permit Number: EPR/PP3993VS

Operator: Atlantic Recycling

Facility: Atlantic Recycling

Form Number: Surfacewater1

Reporting of surface water monitoring for monthly monitoring in September 2017

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	39.2	mg/l	TM022	22/09/2017 at 08.10	Lab: precision 0.9%, Bias -0.6%, Expanded Uncertainty 2.5%. Sampling Immeasurable
Outfall	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	22.3	mg/l	TM045	22/09/2017 at 08.10	Lab: precision 6%, Bias -10%, Expanded Uncertainty 22%. Sampling Immeasurable
Outfall	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.859	mg/l	TM099	22/09/2017 at 08.10	Lab: precision 0.5%, Bias -0.4%, Expanded Uncertainty 1.5%. Sampling Immeasurable
Outfall	Conductivity	>2000 µS/cm	Monthly	0.821	mS/cm	TM120	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	µg/l	TM152	22/09/2017 at 08.10	Lab: precision 1.9%, Bias 3.3%, Expanded Uncertainty 7%. Sampling Immeasurable
Outfall	Nickel (diss.filt)	>0.1 mg/l	Monthly	2.7	µg/l	TM152	22/09/2017 at 08.10	Lab: precision 1.2%, Bias 3.8%, Expanded Uncertainty 6.2%. Sampling Immeasurable
Outfall	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	613	µg/l	TM172	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	151	µg/l	TM172	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	395	µg/l	TM172	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	<100	µg/l	TM172	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Sulphate	>300 mg/l	Monthly	198	mg/l	TM184	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Chloride	>300 mg/l	Monthly	66.6	mg/l	TM184	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Nitrite as N	>1 mg/l	Monthly	0.0158	mg/l	TM184	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	0.256	mg/l	TM184	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	5.2	mg/l	TM187	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	µg/l	TM191	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Zinc (tot.unfilt)	>1 mg/l	Monthly	16.5	µg/l	TM191	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	Calcium (tot.unfilt)	>300 mg/l	Monthly	111	mg/l	TM228	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	pH	6.8 ñ 8.5	Monthly	7.76	pH Units	TM256	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	GRO >C5-C12	>2 mg/l	Monthly	<50	µg/l	TM245	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	GRO >C7-C8	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	GRO >C5-C6	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	GRO >C6-C7	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	GRO >C8-C10	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	GRO >C10-C12	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
Outfall	GRO >C5-C10	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.10	Lab: Unknown. Sampling: Immeasurable
SW 9	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions)	Monthly	22.9	mg/l	TM022	22/09/2017 at 08.30	Lab: precision 0.9%, Bias -0.6%, Expanded Uncertainty 2.5%.

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
		>60 mg/l (4 consecutive occasions)						SamplingL Immeasurable
SW 9	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	5.56	mg/l	TM045	22/09/2017 at 08.30	Lab: precision 6%, Bias -10%, Expanded Uncertainty 22%. Sampling Immeasurable
SW 9	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.101	mg/l	TM099	22/09/2017 at 08.30	Lab: precision 0.5%, Bias -0.4%, Expanded Uncertainty 1.5%. Sampling Immeasurable
SW 9	Conductivity	>2000 µS/cm	Monthly	0.651	mS/cm	TM120	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	µg/l	TM152	22/09/2017 at 08.30	Lab: precision 1.9%, Bias 3.3%, Expanded Uncertainty 7%. Sampling Immeasurable
SW 9	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.4	µg/l	TM152	22/09/2017 at 08.30	Lab: precision 1.2%, Bias 3.8%, Expanded Uncertainty 6.2%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	176	µg/l	TM172	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	<100	µg/l	TM172	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	<100	µg/l	TM172	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	<100	µg/l	TM172	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Sulphate	>300 mg/l	Monthly	97.4	mg/l	TM184	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Chloride	>300 mg/l	Monthly	48.2	mg/l	TM184	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	0.229	mg/l	TM184	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	5.49	mg/l	TM187	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	µg/l	TM191	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Zinc (tot.unfilt)	>1 mg/l	Monthly	4.58	µg/l	TM191	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	Calcium (tot.unfilt)	>300 mg/l	Monthly	85.7	mg/l	TM228	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	pH	6.8 ñ 8.5	Monthly	7.87	pH Units	TM256	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	GRO>C5-12	>2 mg/l	Monthly	<50	µg/l	TM245	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	GRO >C7-C8	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	GRO >C5-C6	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	GRO >C6-C7	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	GRO >C8-C10	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	GRO >C10-C12	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.30	Lab: Unknown. Sampling: Immeasurable
SW 9	GRO >C5-C10	>2 mg/l	Monthly	<10	µg/l	TM245	22/09/2017 at 08.30	Lab: Unknown. 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: October 2017

(Authorised to sign as representative of Operator)

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