

Permit Number: EPR/PP3993VS

Operator: Atlantic Recycling

Facility: Atlantic Recycling

Form Number: Surfacewater1

Reporting of surface water monitoring for monthly monitoring in April 2017

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	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	10.4 mg/l	TM022	23/04/2017 09:00	Lab: Precision 1.1%, Bias -1.5%, Expanded Uncertainty 3.6%. Sampling: Immeasurable
Outfall	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	4.86 mg/l	TM045	23/04/2017 09:00	Lab: Precision 11.1%, Bias -5.5%, Expanded Uncertainty 27.6%. Sampling: Immeasurable
Outfall	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.163 mg/l	TM099	23/04/2017 09:00	Lab: Precision 1.9%, Bias 2.8%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
Outfall	Conductivity	>2000 µS/cm	Monthly	0.885 mS/cm	TM120	23/04/2017 09:00	Lab: Precision 1.2%, Bias 2.9%, Expanded Uncertainty 5.3%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.1 µg/l	TM152	23/04/2017 09:00	Lab: Precision 4.1%, Bias 1.0%, Expanded Uncertainty 9.1%. Sampling: Immeasurable
Outfall	Nickel (diss.filt)	>0.1 mg/l	Monthly	2.59 µg/l	TM152	23/04/2017 09:00	Lab: Precision 4.1%, Bias 2.4%, Expanded Uncertainty 10.6%. 1Sampling: Immeasurable
Outfall	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	<46 µg/l	TM172	23/04/2017 09:00	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	23/04/2017 09:00	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	23/04/2017 09:00	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	17.5 µg/l	TM172	23/04/2017 09:00	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Sulphate	>300 mg/l	Monthly	167 mg/l	TM184	23/04/2017 09:00	Lab: Precision 2.6%, Bias 3.2%, Expanded Uncertainty 8.3%. Sampling: Immeasurable
Outfall	Chloride	>300 mg/l	Monthly	74.3 mg/l	TM184	23/04/2017 09:00	Lab: Precision 2.6%, Bias 5.3%, Expanded Uncertainty 10.6%. Sampling: Immeasurable
Outfall	Nitrite as N	>1 mg/l	Monthly	<0.0152 mg/l	TM184	23/04/2017 09:00	Lab: Precision 1.9%, Bias 0.7%, Expanded Uncertainty 4.5%. Sampling: Immeasurable
Outfall	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	<0.05 mg/l	TM184	23/04/2017 09:00	Lab: Precision 1.8%, Bias 2.1%, Expanded Uncertainty 5.8%. Sampling: Immeasurable
Outfall	Nitrate as N	>1 mg/l	Monthly	0.156 mg/l	TM184	23/04/2017 09:00	Lab: Unknown. Sampling: Immeasurable
Outfall	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.168 mg/l	TM184	23/04/2017 09:00	Lab: Precision 2.4%, Bias 5.0%, Expanded Uncertainty 9.8%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	6.36 mg/l	TM046	23/04/2017 09:00	Lab: Unknown. Sampling: Immeasurable
Outfall	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5 µg/l	TM191	23/04/2017 09:00	Lab: Precision 5.5%, Bias -6.8%, Expanded Uncertainty 17.8%. Sampling: Immeasurable
Outfall	Zinc (tot.unfilt)	>1 mg/l	Monthly	6.96 µg/l	TM191	23/04/2017 09:00	Lab: Precision 6.1%, Bias -6.2%, Expanded Uncertainty 18.4%. Sampling: Immeasurable
Outfall	Calcium (tot.unfilt)	>300 mg/l	Monthly	94 mg/l	TM228	23/04/2017 09:00	Lab: Precision 4.8%, Bias -2.6%, Expanded Uncertainty 12.2%. Sampling: Immeasurable
Outfall	pH	6.8 ñ 8.5	Monthly	7.97 pH Units	TM256	23/04/2017 09:00	Lab: Precision 0.4%, Bias 1.0%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
Outfall	GRO >C5-C12	>2 mg/l	Monthly	<50 µg/l	TM245	23/04/2017 09:00	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	GRO >C7-C8	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:00	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	GRO >C5-C6	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:00	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	GRO >C6-C7	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:00	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	GRO >C8-C10	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:00	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	GRO >C10-C12	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:00	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	GRO >C5-C10	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:00	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	5.3 mg/l	TM022	23/04/2017 09:15	Lab: Precision 1.1%, Bias -1.5%, Expanded Uncertainty 3.6%. Sampling: Immeasurable
SW 9	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	4.62 mg/l	TM045	23/04/2017 09:15	Lab: Precision 11.1%, Bias -5.5%, Expanded Uncertainty 27.6%. Sampling: Immeasurable
SW 9	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.145 mg/l	TM099	23/04/2017 09:15	Lab: Precision 1.9%, Bias 2.8%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
SW 9	Conductivity	>2000 µS/cm	Monthly	0.773 mS/cm	TM120	23/04/2017 09:15	Lab: Precision 1.2%, Bias 2.9%, Expanded Uncertainty 5.3%. Sampling: Immeasurable
SW 9	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.1 µg/l	TM152	23/04/2017 09:15	Lab: Precision 4.1%, Bias 1.0%, Expanded Uncertainty 9.1%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.67 µg/l	TM152	23/04/2017 09:15	Lab: Precision 4.1%, Bias 2.4%, Expanded Uncertainty 10.6%. 1Sampling: Immeasurable
SW 9	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	<46 µg/l	TM172	23/04/2017 09:15	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	23/04/2017 09:15	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	23/04/2017 09:15	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	13.7 µg/l	TM172	23/04/2017 09:15	Lab: Precision 6.7%, Bias -10.2%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	Sulphate	>300 mg/l	Monthly	104 mg/l	TM184	23/04/2017 09:15	Lab: Precision 2.6%, Bias 3.2%, Expanded Uncertainty 8.3%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Chloride	>300 mg/l	Monthly	58.3 mg/l	TM184	23/04/2017 09:15	Lab: Precision 2.6%, Bias 5.3%, Expanded Uncertainty 10.6%. Sampling: Immeasurable
SW 9	Nitrite as N	>1 mg/l	Monthly	<0.0152 mg/l	TM184	23/04/2017 09:15	Lab: Precision 1.9%, Bias 0.7%, Expanded Uncertainty 4.5%. Sampling: Immeasurable
SW 9	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	<0.05 mg/l	TM184	23/04/2017 09:15	Lab: Precision 1.8%, Bias 2.1%, Expanded Uncertainty 5.8%. Sampling: Immeasurable
SW 9	Nitrate as N	>1 mg/l	Monthly	0.0806 mg/l	TM184	23/04/2017 09:15	Lab: Unknown. Sampling: Immeasurable
SW 9	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1 mg/l	TM184	23/04/2017 09:15	Lab: Precision 2.4%, Bias 5.0%, Expanded Uncertainty 9.8%. Sampling: Immeasurable
SW 9	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	6.4 mg/l	TM046	23/04/2017 09:15	Lab: Unknown. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5 µg/l	TM191	23/04/2017 09:15	Lab: Precision 5.5%, Bias -6.8%, Expanded Uncertainty 17.8%. Sampling: Immeasurable
SW 9	Zinc (tot.unfilt)	>1 mg/l	Monthly	10.6 µg/l	TM191	23/04/2017 09:15	Lab: Precision 6.1%, Bias -6.2%, Expanded Uncertainty 18.4%. Sampling: Immeasurable
SW 9	Calcium (tot.unfilt)	>300 mg/l	Monthly	85.1 mg/l	TM228	23/04/2017 09:15	Lab: Precision 4.8%, Bias -2.6%, Expanded Uncertainty 12.2%. Sampling: Immeasurable
SW 9	pH	6.8 ñ 8.5	Monthly	7.95 pH Units	TM256	23/04/2017 09:15	Lab: Precision 0.4%, Bias 1.0%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
SW 9	GRO>C5-12	>2 mg/l	Monthly	<50 µg/l	TM245	23/04/2017 09:15	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	GRO >C7-C8	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:15	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	GRO >C5-C6	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:15	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	GRO >C6-C7	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:15	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	GRO >C8-C10	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:15	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	GRO >C10-C12	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:15	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	GRO >C5-C10	>2 mg/l	Monthly	<10 µg/l	TM245	23/04/2017 09:15	Lab: Precision 9.3%, Bias -5.1%, Expanded Uncertainty 23.7%. 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.



Signedë ë ë ë ë ë ë ë ë ë ë ë ë ë ë ë ë

Date: May 2017

(Authorised to sign as representative of Operator)

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