

Permit Number: EPR/PP3993VS

Operator: Atlantic Recycling

Facility: Atlantic Recycling

Form Number: Surfacewater1

Reporting of surface water monitoring for the period of January 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	11.4 mg/l	TM022	18/01/2017 09:20	Lab: Precision 1.0%, Bias -1.6%, Expanded Uncertainty 3.6%. Sampling: Immeasurable
Outfall	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1 mg/l	TM045	18/01/2017 09:20	Lab: Precision 8.8%, Bias 0.7%, Expanded Uncertainty 18.3%. Sampling: Immeasurable
Outfall	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	3.56 mg/l	TM099	18/01/2017 09:20	Lab: Precision 1.4%, Bias 3.4%, Expanded Uncertainty 6.3%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Conductivity	>2000 µS/cm	Monthly	1.24 mS/cm	TM120	18/01/2017 09:20	Lab: Precision 1.4%, Bias 3.0%, Expanded Uncertainty 5.9%. Sampling: Immeasurable
Outfall	Lead (diss.filt)	>0.25 mg/l	Monthly	1.18 µg/l	TM152	18/01/2017 09:20	Lab: Precision 3.2%, Bias 0.9%, Expanded Uncertainty 7.3%. Sampling: Immeasurable
Outfall	Nickel (diss.filt)	>0.1 mg/l	Monthly	3.88 µg/l	TM152	18/01/2017 09:20	Lab: Precision 3.7%, Bias 1.7%, Expanded Uncertainty 9.2%. Sampling: Immeasurable
Outfall	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	<46 µg/l	TM172	18/01/2017 09:20	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
Outfall	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	18/01/2017 09:20	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
Outfall	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	18/01/2017 09:20	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
Outfall	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	18/01/2017 09:20	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
Outfall	Sulphate	>300 mg/l	Monthly	337 mg/l	TM184	18/01/2017 09:20	Lab: Precision 2.8%, Bias 2.7%, 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⁾
Outfall	Chloride	>300 mg/l	Monthly	104 mg/l	TM184	18/01/2017 09:20	Lab: Precision 2.0%, Bias 6.0%, Expanded Uncertainty 10.0%. Sampling: Immeasurable
Outfall	Nitrite as N	>1 mg/l	Monthly	0.0213 mg/l	TM184	18/01/2017 09:20	Lab: Precision 2.1%, Bias 0.6%, Expanded Uncertainty 4.7%. Sampling: Immeasurable
Outfall	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	0.072 mg/l	TM184	18/01/2017 09:20	Lab: Precision 1.4%, Bias 1.8%, Expanded Uncertainty 4.6%. Sampling: Immeasurable
Outfall	Nitrate as N	>1 mg/l	Monthly	0.205 mg/l	TM184	18/01/2017 09:20	Lab: Precision 1.4%, Bias 1.8%, Expanded Uncertainty 4.6%. Sampling: Immeasurable
Outfall	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.226 mg/l	TM184	18/01/2017 09:20	Lab: Precision 2.1%, Bias 5.0%, Expanded Uncertainty 9.2%. Sampling: Immeasurable
Outfall	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	4.29 mg/l	TM187	18/01/2017 09:20	Lab: Unknown. Sampling: Immeasurable
Outfall	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5 µg/l	TM191	18/01/2017 09:20	Lab: Precision 6.2%, Bias -7.9%, Expanded Uncertainty 20.2%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Zinc (tot.unfilt)	>1 mg/l	Monthly	6.3 µg/l	TM191	18/01/2017 09:20	Lab: Precision 6.4%, Bias -6.8%, Expanded Uncertainty 19.6%. Sampling: Immeasurable
Outfall	Calcium (tot.unfilt)	>300 mg/l	Monthly	186 mg/l	TM228	18/01/2017 09:20	Lab: Precision 5.3%, Bias -3.4%, Expanded Uncertainty 14.1%. Sampling: Immeasurable
Outfall	pH	6.8 ñ 8.5	Monthly	7.89 pH Units	TM256	18/01/2017 09:20	Lab: Precision 0.4%, Bias 1.1%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
Outfall	GRO >C5-C12	>2 mg/l	Monthly	<50 µg/l	TM245	18/01/2017 09:20	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
Outfall	GRO >C7-C8	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:20	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
Outfall	GRO >C5-C6	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:20	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
Outfall	GRO >C6-C7	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:20	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
Outfall	GRO >C8-C10	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:20	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	GRO >C10-C12	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:20	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
Outfall	GRO >C5-C10	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:20	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
SW9	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	25.7 mg/l	TM022	18/01/2017 09:00	Lab: Precision 1.0%, Bias -1.6%, Expanded Uncertainty 3.6%. Sampling: Immeasurable
SW9	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1 mg/l	TM045	18/01/2017 09:00	Lab: Precision 8.8%, Bias 0.7%, Expanded Uncertainty 18.3%. Sampling: Immeasurable
SW9	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.819 mg/l	TM099	18/01/2017 09:00	Lab: Precision 1.4%, Bias 3.4%, Expanded Uncertainty 6.3%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW9	Conductivity	>2000 µS/cm	Monthly	1.17 mS/cm	TM120	18/01/2017 09:00	Lab: Precision 1.4%, Bias 3.0%, Expanded Uncertainty 5.9%. Sampling: Immeasurable
SW9	Lead (diss.filt)	>0.25 mg/l	Monthly	2.19 µg/l	TM152	18/01/2017 09:00	Lab: Precision 3.2%, Bias 0.9%, Expanded Uncertainty 7.3%. Sampling: Immeasurable
SW9	Nickel (diss.filt)	>0.1 mg/l	Monthly	3.93 µg/l	TM152	18/01/2017 09:00	Lab: Precision 3.7%, Bias 1.7%, Expanded Uncertainty 9.2%. Sampling: Immeasurable
SW9	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	<46 µg/l	TM172	18/01/2017 09:00	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
SW9	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	18/01/2017 09:00	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
SW9	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	18/01/2017 09:00	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
SW9	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	<10 µg/l	TM172	18/01/2017 09:00	Lab: Precision 6.7%, Bias -8.7%, Expanded Uncertainty 22.2%. Sampling: Immeasurable
SW9	Sulphate	>300 mg/l	Monthly	273 mg/l	TM184	18/01/2017 09:00	Lab: Precision 2.8%, Bias 2.7%, 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⁾
SW9	Chloride	>300 mg/l	Monthly	108 mg/l	TM184	18/01/2017 09:00	Lab: Precision 2.0%, Bias 6.0%, Expanded Uncertainty 10.0%. Sampling: Immeasurable
SW9	Nitrite as N	>1 mg/l	Monthly	0.0222 mg/l	TM184	18/01/2017 09:00	Lab: Precision 2.1%, Bias 0.6%, Expanded Uncertainty 4.7%. Sampling: Immeasurable
SW9	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	0.063 mg/l	TM184	18/01/2017 09:00	Lab: Precision 1.4%, Bias 1.8%, Expanded Uncertainty 4.6%. Sampling: Immeasurable
SW9	Nitrate as N	>1 mg/l	Monthly	0.158 mg/l	TM184	18/01/2017 09:00	Lab: Precision 1.4%, Bias 1.8%, Expanded Uncertainty 4.6%. Sampling: Immeasurable
SW9	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.181 mg/l	TM184	18/01/2017 09:00	Lab: Precision 2.1%, Bias 5.0%, Expanded Uncertainty 9.2%. Sampling: Immeasurable
SW9	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	11.8 mg/l	TM187	18/01/2017 09:00	Lab: Unknown. Sampling: Immeasurable
SW9	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5 µg/l	TM191	18/01/2017 09:00	Lab: Precision 6.2%, Bias -7.9%, Expanded Uncertainty 20.2%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW9	Zinc (tot.unfilt)	>1 mg/l	Monthly	8.02 µg/l	TM191	18/01/2017 09:00	Lab: Precision 6.4%, Bias -6.8%, Expanded Uncertainty 19.6%. Sampling: Immeasurable
SW9	Calcium (tot.unfilt)	>300 mg/l	Monthly	175 mg/l	TM228	18/01/2017 09:00	Lab: Precision 5.3%, Bias -3.4%, Expanded Uncertainty 14.1%. Sampling: Immeasurable
SW9	pH	6.8 ñ 8.5	Monthly	7.82 pH Units	TM256	18/01/2017 09:00	Lab: Precision 0.4%, Bias 1.1%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
SW9	GRO >C5-C12	>2 mg/l	Monthly	<50 µg/l	TM245	18/01/2017 09:00	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
SW9	GRO >C7-C8	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:00	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
SW9	GRO >C5-C6	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:00	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
SW9	GRO >C6-C7	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:00	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
SW9	GRO >C8-C10	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:00	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW9	GRO >C10-C12	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:00	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. Sampling: Immeasurable
SW9	GRO >C5-C10	>2 mg/l	Monthly	<10 µg/l	TM245	18/01/2017 09:00	Lab: Precision 10.5%, Bias -7.0%, Expanded Uncertainty 27.9%. 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: February 2017

(Authorised to sign as representative of Operator)

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