Permit Number: EPR/VP3095FS Operator: Neal Soils

Facility: Neal Soils Form Number: Surfacewater1

Reporting of surface water monitoring for quarterly monitoring in May 2019

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result(1)	Unit	Test Method(2)	Sample Date and Time(3)	Uncertainty (4)
SW01	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	<0.2	mg/l	TM099	22/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW01	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	37	mg/l	TM045	22/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW01	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	22/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW01	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	110	mg/l	TM152	22/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW01	Chloride	>300 mg/l	Monthly	74.2	mg/l	TM184	22/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW01	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.812	mS/cm	TM120	22/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW01	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	22/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW01	Lead (diss.filt)	>0.25 mg/l	Monthly	0.349	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW01	Nickel (diss.filt)	>0.1 mg/l	Monthly	3.97	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW01	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	22/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW01	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	22/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW01	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive	Monthly	2.06	mg/l	TM187	22/05/2019	Lab Precision: N/A, Sampling Immeasureable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
		occasions)						
SW01	pH	6.8 – 8.5	Monthly	8.02	pH Units	TM256	22/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW01	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.051	mg/l	TM184	22/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW01	Sulphate	>300 mg/l	Monthly	120	mg/l	TM184	22/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW01	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	35.3	mg/l	TM022	22/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW01	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	94	ug/l	TM174	22/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW01	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	22/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW01	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	22/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW01	Zinc (tot.unfilt)	>1 mg/l	Monthly	18.6	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW02	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.557	mg/l	TM099	22/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW02	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	11.4	mg/l	TM045	22/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW02	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	22/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW02	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	95.6	mg/l	TM152	22/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW02	Chloride	>300 mg/l	Monthly	63.3	mg/l	TM184	22/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW02	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.656	mS/cm	TM120	22/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW02	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	22/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW02	Lead (diss.filt)	>0.25 mg/l	Monthly	0.524	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW02	Nickel (diss.filt)	>0.1 mg/l	Monthly	2.08	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW02	Nitrate as N	>1 mg/l	Monthly	0.666	mg/l	TM184	22/05/2019	Lab Precision: N/A, Sampling Immeasureable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW02	Nitrite as N	>1 mg/l	Monthly	0.147	mg/l	TM184	22/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW02	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	2.93	mg/l	TM187	22/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW02	pH	6.8 – 8.5	Monthly	8.11	pH Units	TM256	22/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW02	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	1.82	mg/l	TM184	22/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW02	Sulphate	>300 mg/l	Monthly	90.1	mg/l	TM184	22/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW02	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	26.7	mg/l	TM022	22/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW02	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	22/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW02	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	166	ug/l	TM174	22/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW02	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.814	mg/l	TM184	22/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW02	Zinc (tot.unfilt)	>1 mg/l	Monthly	18.3	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW18	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.474	mg/l	TM099	24/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW18	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1	mg/l	TM045	24/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW18	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	24/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW18	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	95.9	mg/l	TM152	24/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW18	Chloride	>300 mg/l	Monthly	89.7	mg/l	TM184	24/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW18	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.816	mS/cm	TM120	24/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW18	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	24/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW18	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW18	Nickel (diss.filt)	>0.1 mg/l	Monthly	2.11	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW18	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	24/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW18	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	24/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW18	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	<0.3	mg/l	TM187	24/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW18	pH	6.8 – 8.5	Monthly	8.1	pH Units	TM256	24/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW18	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.485	mg/l	TM184	24/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW18	Sulphate	>300 mg/l	Monthly	102	mg/l	TM184	24/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW18	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	17	mg/l	TM022	24/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW18	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW18	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW18	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	24/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW18	Zinc (tot.unfilt)	>1 mg/l	Monthly	8.88	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW19	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	<0.2	mg/l	TM099	24/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW19	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	5.53	mg/l	TM045	24/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW19	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	24/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW19	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	157	mg/l	TM152	24/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW19	Chloride	>300 mg/l	Monthly	73.2	mg/l	TM184	24/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW19	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	1.14	mS/cm	TM120	24/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW19	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	24/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW19	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW19	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.37	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW19	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	24/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW19	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	24/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW19	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	1.57	mg/l	TM187	24/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW19	pH	6.8 – 8.5	Monthly	7.65	pH Units	TM256	24/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW19	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	<0.05	mg/l	TM184	24/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW19	Sulphate	>300 mg/l	Monthly	306	mg/l	TM184	24/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW19	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	21.5	mg/l	TM022	24/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW19	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW19	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW19	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	24/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW19	Zinc (tot.unfilt)	>1 mg/l	Monthly	7.52	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW20	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.256	mg/l	TM099	24/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW20	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1	mg/l	TM045	24/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW20	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	24/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW20	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	84.8	mg/l	TM152	24/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW20	Chloride	>300 mg/l	Monthly	80.7	mg/l	TM184	24/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW20	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.741	mS/cm	TM120	24/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW20	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	24/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW20	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW20	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.76	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW20	Nitrate as N	>1 mg/l	Monthly	0.0822	mg/l	TM184	24/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW20	Nitrite as N	>1 mg/l	Monthly	0.0183	mg/l	TM184	24/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW20	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive	Monthly	2.96	mg/l	TM187	24/05/2019	Lab Precision: N/A, Sampling Immeasureable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
		occasions)						
SW20	pH	6.8 – 8.5	Monthly	7.77	pH Units	TM256	24/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW20	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.462	mg/l	TM184	24/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW20	Sulphate	>300 mg/l	Monthly	81.2	mg/l	TM184	24/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW20	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	10	mg/l	TM022	24/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW20	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW20	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW20	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.101	mg/l	TM184	24/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW20	Zinc (tot.unfilt)	>1 mg/l	Monthly	7.09	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW21	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.455	mg/l	TM099	23/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW21	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1	mg/l	TM045	23/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW21	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	23/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW21	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	82.6	mg/l	TM152	23/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW21	Chloride	>300 mg/l	Monthly	68.4	mg/l	TM184	23/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW21	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.675	mS/cm	TM120	23/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW21	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	23/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW21	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW21	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.56	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW21	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	23/05/2019	Lab Precision: N/A, Sampling Immeasureable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW21	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	23/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW21	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	4.87	mg/l	TM187	23/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW21	pH	6.8 – 8.5	Monthly	8.04	pH Units	TM256	23/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW21	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.271	mg/l	TM184	23/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW21	Sulphate	>300 mg/l	Monthly	65.7	mg/l	TM184	23/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW21	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	10.5	mg/l	TM022	23/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW21	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW21	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW21	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	23/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW21	Zinc (tot.unfilt)	>1 mg/l	Monthly	11.9	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW22	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	<0.2	mg/l	TM099	22/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW22	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	2.59	mg/l	TM045	22/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW22	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	22/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW22	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	62.7	mg/l	TM152	22/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW22	Chloride	>300 mg/l	Monthly	41.4	mg/l	TM184	22/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW22	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.544	mS/cm	TM120	22/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW22	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	22/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW22	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW22	Nickel (diss.filt)	>0.1 mg/l	Monthly	0.977	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW22	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	22/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW22	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	22/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW22	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	5.85	mg/l	TM187	22/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW22	pH	6.8 – 8.5	Monthly	7.8	pH Units	TM256	22/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW22	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.184	mg/l	TM184	22/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW22	Sulphate	>300 mg/l	Monthly	29.6	mg/l	TM184	22/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW22	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	8.67	mg/l	TM022	22/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW22	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	22/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW22	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	22/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW22	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	22/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW22	Zinc (tot.unfilt)	>1 mg/l	Monthly	<5	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW23	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	<0.2	mg/l	TM099	23/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW23	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1	mg/l	TM045	23/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW23	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	23/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW23	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	72.7	mg/l	TM152	23/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW23	Chloride	>300 mg/l	Monthly	46.4	mg/l	TM184	23/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW23	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.53	mS/cm	TM120	23/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW23	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	23/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW23	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW23	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.11	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW23	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	23/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW23	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	23/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW23	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	3.2	mg/l	TM187	23/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW23	pH	6.8 – 8.5	Monthly	8.09	pH Units	TM256	23/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW23	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.218	mg/l	TM184	23/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW23	Sulphate	>300 mg/l	Monthly	40.8	mg/l	TM184	23/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW23	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	<2	mg/l	TM022	23/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW23	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW23	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW23	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	23/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW23	Zinc (tot.unfilt)	>1 mg/l	Monthly	8.57	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW24	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.304	mg/l	TM099	24/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW24	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1	mg/l	TM045	24/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW24	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	24/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW24	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	94.4	mg/l	TM152	24/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW24	Chloride	>300 mg/l	Monthly	90.3	mg/l	TM184	24/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW24	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.787	mS/cm	TM120	24/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW24	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	24/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW24	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW24	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.84	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW24	Nitrate as N	>1 mg/l	Monthly	0.104	mg/l	TM184	24/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW24	Nitrite as N	>1 mg/l	Monthly	0.025	mg/l	TM184	24/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW24	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive	Monthly	3.82	mg/l	TM187	24/05/2019	Lab Precision: N/A, Sampling Immeasureable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
		occasions)						
SW24	pH	6.8 – 8.5	Monthly	7.83	pH Units	TM256	24/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW24	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.469	mg/l	TM184	24/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW24	Sulphate	>300 mg/l	Monthly	108	mg/l	TM184	24/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW24	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	4	mg/l	TM022	24/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW24	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW24	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	24/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW24	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.129	mg/l	TM184	24/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW24	Zinc (tot.unfilt)	>1 mg/l	Monthly	<5	ug/l	TM152	24/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW25	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.347	mg/l	TM099	23/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW25	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	2.19	mg/l	TM045	23/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW25	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	23/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW25	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	70.6	mg/l	TM152	23/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW25	Chloride	>300 mg/l	Monthly	58.7	mg/l	TM184	23/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW25	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.618	mS/cm	TM120	23/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW25	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	23/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW25	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW25	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.44	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW25	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	23/05/2019	Lab Precision: N/A, Sampling Immeasureable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW25	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	23/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW25	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	4	mg/l	TM187	23/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW25	pH	6.8 – 8.5	Monthly	7.93	pH Units	TM256	23/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW25	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.219	mg/l	TM184	23/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW25	Sulphate	>300 mg/l	Monthly	52.8	mg/l	TM184	23/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW25	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	9.5	mg/l	TM022	23/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW25	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW25	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW25	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	23/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW25	Zinc (tot.unfilt)	>1 mg/l	Monthly	5.37	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW26	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	<0.2	mg/l	TM099	23/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW26	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	2.13	mg/l	TM045	23/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW26	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	23/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW26	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	76.8	mg/l	TM152	23/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW26	Chloride	>300 mg/l	Monthly	46.1	mg/l	TM184	23/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW26	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.504	mS/cm	TM120	23/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW26	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	23/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable
SW26	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW26	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.02	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW26	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	23/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW26	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	23/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW26	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	2.11	mg/l	TM187	23/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW26	pH	6.8 – 8.5	Monthly	7.99	pH Units	TM256	23/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable
SW26	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.141	mg/l	TM184	23/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW26	Sulphate	>300 mg/l	Monthly	35.7	mg/l	TM184	23/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW26	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	3.5	mg/l	TM022	23/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW26	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW26	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	23/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW26	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	23/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable
SW26	Zinc (tot.unfilt)	>1 mg/l	Monthly	44.6	ug/l	TM152	23/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, Sampling Immeasurable
SW27	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	<0.2	mg/l	TM099	22/05/2019	Lab Precision: 1.5%, Bias: 1.6%, Expanded Uncertainty: 4.6%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW27	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	<1	mg/l	TM045	22/05/2019	Lab Precision: 6%, Bias: 5.1%, Expanded Uncertainty: 17.1%, Sampling Immeasurable
SW27	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	22/05/2019	Lab Precision: 2.7%, Bias: 3.1%, Expanded Uncertainty: 8.6%, Sampling Immeasurable
SW27	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	67.4	mg/l	TM152	22/05/2019	Lab Precision: 2.8%, Bias: 1%, Expanded Uncertainty: 6.6%, Sampling Immeasurable
SW27	Chloride	>300 mg/l	Monthly	45.9	mg/l	TM184	22/05/2019	Lab Precision: 2.7%, Bias: 4.2%, Expanded Uncertainty: 9.6%, Sampling Immeasurable
SW27	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.569	mS/cm	TM120	22/05/2019	Lab Precision: 0.7%, Bias: 3.3%, Expanded Uncertainty: 4.6%, Sampling Immeasurable
SW27	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	22/05/2019	Lab Precision: 9.8%, Bias: 3.8%, Expanded Uncertainty: 23.4%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW27	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.7%, Expanded Uncertainty: 7.9%, Sampling Immeasurable
SW27	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.1	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 1.1%, Expanded Uncertainty: 7.2%, Sampling Immeasurable
SW27	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	22/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW27	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	22/05/2019	Lab Precision: 1.1%, Bias: 0%, Expanded Uncertainty: 2.3%, Sampling Immeasurable
SW27	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	3.94	mg/l	TM187	22/05/2019	Lab Precision: N/A, Sampling Immeasureable
SW27	pH	6.8 – 8.5	Monthly	7.85	pH Units	TM256	22/05/2019	Lab Precision: 0%, Bias: 0.1%, Expanded Uncertainty: 0.2%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW27	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.407	mg/l	TM184	22/05/2019	Lab Precision: 1.2%, Bias: 2.6%, Expanded Uncertainty: 5%, Sampling Immeasurable
SW27	Sulphate	>300 mg/l	Monthly	34.6	mg/l	TM184	22/05/2019	Lab Precision: 3.2%, Bias: 2.1%, Expanded Uncertainty: 8.4%, Sampling Immeasurable
SW27	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	12.7	mg/l	TM022	22/05/2019	Lab Precision: 0.9%, Bias: -0.9%, Expanded Uncertainty: 2.8%, Sampling Immeasurable
SW27	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	22/05/2019	Lab Precision: 8.3%, Bias: -1.2%, Expanded Uncertainty: 17.8%, Sampling Immeasurable
SW27	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	22/05/2019	Lab Precision: 7.6%, Bias: -8.9%, Expanded Uncertainty: 24.2%, Sampling Immeasurable
SW27	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	22/05/2019	Lab Precision: 2.6%, Bias: 5.1%, Expanded Uncertainty: 10.3%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Unit	Test Method[2]	Sample Date and Time[3]	Uncertainty [4]
SW27	Zinc (tot.unfilt)	>1 mg/l	Monthly	9.06	ug/l	TM152	22/05/2019	Lab Precision: 3.1%, Bias: 2.8%, Expanded Uncertainty: 8.9%, 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: June 2019

(Authorised to sign as representative of Operator)

Ahlim Hashm on behalf of Neal Soils
Permit Number EPR/VP3095FS