

Permit Number: EPR/VP3095FS

Operator: Neal Soils

Facility: Neal Soil Suppliers

Form Number: Surfacewater1

Reporting of surface water monitoring for quarterly monitoring in November 2019

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW01	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	9	mg/l	TM022	19/11/2019 at 08:30	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW01	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	2.62	mg/l	TM045	19/11/2019 at 08:30	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable
SW01	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	1.33	mg/l	TM099	19/11/2019 at 08:30	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW01	Conductivity	>2000 µS/cm	Quarterly	2.18	mS/cm	TM120	19/11/2019 at 08:30	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW01	Lead (diss.filt)	>0.25 mg/l	Quarterly	<0.2	µg/l	TM152	19/11/2019 at 08:30	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable
SW01	Nickel (diss.filt)	>0.1 mg/l	Quarterly	3.08	µg/l	TM152	19/11/2019 at 08:30	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW01	Sulphate	>300 mg/l	Quarterly	211	mg/l	TM184	19/11/2019 at 08:30	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW01	Chloride	>300 mg/l	Quarterly	511	mg/l	TM184	19/11/2019 at 08:30	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW01	Nitrite as N	>1 mg/l	Quarterly	0.212	mg/l	TM184	19/11/2019 at 08:30	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW01	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	<0.05	mg/l	TM184	19/11/2019 at 08:30	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW01	Nitrate as N	>1 mg/l	Quarterly	0.981	mg/l	TM184	19/11/2019 at 08:30	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW01	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	1.19	mg/l	TM184	19/11/2019 at 08:30	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW01	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	3.48	mg/l	TM187	19/11/2019 at 08:30	Lab: Unknown. Sampling: Immeasurable
SW01	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	19/11/2019 at 08:30	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW01	Zinc (tot.unfilt)	>1 mg/l	Quarterly	31.9	µg/l	TM152	19/11/2019 at 08:30	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable
SW01	Calcium (tot.unfilt)	>300 mg/l	Quarterly	302	mg/l	TM152	19/11/2019 at 08:30	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW01	pH	6.8 – 8.5	Quarterly	7.96	pH Units	TM256	19/11/2019 at 08:30	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW01	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	1,970	µg/l	TM174	19/11/2019 at 08:30	Lab: Unknown. Sampling: Immeasurable
SW02	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	4	mg/l	TM022	19/11/2019 at 08:45	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW02	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	<1	mg/l	TM045	19/11/2019 at 08:45	Lab: precision 5.9%, Bias - 2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable
SW02	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	1.05	mg/l	TM099	19/11/2019 at 08:45	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW02	Conductivity	>2000 µS/cm	Quarterly	1.15	mS/cm	TM120	19/11/2019 at 08:45	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW02	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.553	µg/l	TM152	19/11/2019 at 08:45	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable
SW02	Nickel (diss.filt)	>0.1 mg/l	Quarterly	1.86	µg/l	TM152	19/11/2019 at 08:45	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW02	Sulphate	>300 mg/l	Quarterly	99.3	mg/l	TM184	19/11/2019 at	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
							08:45	8.8%. Sampling Immeasurable
SW02	Chloride	>300 mg/l	Quarterly	213	mg/l	TM184	19/11/2019 at 08:45	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW02	Nitrite as N	>1 mg/l	Quarterly	0.0679	mg/l	TM184	19/11/2019 at 08:45	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW02	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.807	mg/l	TM184	19/11/2019 at 08:45	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW02	Nitrate as N	>1 mg/l	Quarterly	0.871	mg/l	TM184	19/11/2019 at 08:45	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW02	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	0.939	mg/l	TM184	19/11/2019 at 08:45	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW02	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	2.88	mg/l	TM187	19/11/2019 at 08:45	Lab: Unknown. Sampling: Immeasurable
SW02	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	19/11/2019 at 08:45	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW02	Zinc (tot.unfilt)	>1 mg/l	Quarterly	22.7	µg/l	TM152	19/11/2019 at 08:45	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable
SW02	Calcium (tot.unfilt)	>300 mg/l	Quarterly	168	mg/l	TM152	19/11/2019 at 08:45	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW02	pH	6.8 – 8.5	Quarterly	8.27	pH Units	TM256	19/11/2019 at 08:45	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW02	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	19/11/2019 at 08:45	Lab: Unknown. Sampling: Immeasurable
SW18	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	12.5	mg/l	TM022	20/11/2019 at 09:00	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW18	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	4.58	mg/l	TM045	20/11/2019 at 09:00	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable
SW18	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	1.37	mg/l	TM099	20/11/2019 at 09:00	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW18	Conductivity	>2000 µS/cm	Quarterly	1.8	mS/cm	TM120	20/11/2019 at 09:00	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW18	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.522	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
								Immeasurable
SW18	Nickel (diss.filt)	>0.1 mg/l	Quarterly	6.47	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW18	Sulphate	>300 mg/l	Quarterly	362	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW18	Chloride	>300 mg/l	Quarterly	297	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW18	Nitrite as N	>1 mg/l	Quarterly	0.0274	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW18	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.485	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW18	Nitrate as N	>1 mg/l	Quarterly	0.464	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW18	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	0.492	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW18	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	1.73	mg/l	TM187	20/11/2019 at 09:00	Lab: Unknown. Sampling: Immeasurable
SW18	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW18	Zinc (tot.unfilt)	>1 mg/l	Quarterly	102	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW18	Calcium (tot.unfilt)	>300 mg/l	Quarterly	259	mg/l	TM152	20/11/2019 at 09:00	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW18	pH	6.8 – 8.5	Quarterly	7.84	pH Units	TM256	20/11/2019 at 09:00	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW18	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 09:00	Lab: Unknown. Sampling: Immeasurable
SW19	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	2.5	mg/l	TM022	20/11/2019 at 08:30	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW19	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	2.28	mg/l	TM045	20/11/2019 at 08:30	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW19	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	<0.2	mg/l	TM099	20/11/2019 at 08:30	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW19	Conductivity	>2000 µS/cm	Quarterly	0.885	mS/cm	TM120	20/11/2019 at 08:30	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW19	Lead (diss.filt)	>0.25 mg/l	Quarterly	<0.2	µg/l	TM152	20/11/2019 at 08:30	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable
SW19	Nickel (diss.filt)	>0.1 mg/l	Quarterly	2.03	µg/l	TM152	20/11/2019 at 08:30	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW19	Sulphate	>300 mg/l	Quarterly	179	mg/l	TM184	20/11/2019 at 08:30	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW19	Chloride	>300 mg/l	Quarterly	53.3	mg/l	TM184	20/11/2019 at	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
							08:30	11.7%. Sampling Immeasurable
SW19	Nitrite as N	>1 mg/l	Quarterly	<0.0152	mg/l	TM184	20/11/2019 at 08:30	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW19	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.15	mg/l	TM184	20/11/2019 at 08:30	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW19	Nitrate as N	>1 mg/l	Quarterly	<0.0677	mg/l	TM184	20/11/2019 at 08:30	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW19	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	<0.1	mg/l	TM184	20/11/2019 at 08:30	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW19	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	10.4	mg/l	TM187	20/11/2019 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⁾
SW19	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	20/11/2019 at 08:30	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW19	Zinc (tot.unfilt)	>1 mg/l	Quarterly	7.45	µg/l	TM152	20/11/2019 at 08:30	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable
SW19	Calcium (tot.unfilt)	>300 mg/l	Quarterly	128	mg/l	TM152	20/11/2019 at 08:30	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW19	pH	6.8 – 8.5	Quarterly	8.04	pH Units	TM256	20/11/2019 at 08:30	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW19	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 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⁾
SW20	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	8.5	mg/l	TM022	20/11/2019 at 09:00	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW20	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	2.16	mg/l	TM045	20/11/2019 at 09:00	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable
SW20	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	0.801	mg/l	TM099	20/11/2019 at 09:00	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW20	Conductivity	>2000 µS/cm	Quarterly	1.4	mS/cm	TM120	20/11/2019 at 09:00	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW20	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.333	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW20	Nickel (diss.filt)	>0.1 mg/l	Quarterly	6.22	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW20	Sulphate	>300 mg/l	Quarterly	233	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW20	Chloride	>300 mg/l	Quarterly	221	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW20	Nitrite as N	>1 mg/l	Quarterly	<0.0152	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW20	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.459	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW20	Nitrate as N	>1 mg/l	Quarterly	<0.0677	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW20	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	<0.1	mg/l	TM184	20/11/2019 at 09:00	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW20	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	2.69	mg/l	TM187	20/11/2019 at 09:00	Lab: Unknown. Sampling: Immeasurable
SW20	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW20	Zinc (tot.unfilt)	>1 mg/l	Quarterly	<50	µg/l	TM152	20/11/2019 at 09:00	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW20	Calcium (tot.unfilt)	>300 mg/l	Quarterly	200	mg/l	TM152	20/11/2019 at 09:00	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW20	pH	6.8 – 8.5	Quarterly	8.32	pH Units	TM256	20/11/2019 at 09:00	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW20	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 09:00	Lab: Unknown. Sampling: Immeasurable
SW21	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	13	mg/l	TM022	20/11/2019 at 09:30	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW21	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	<1.67	mg/l	TM045	20/11/2019 at 09:30	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW21	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	0.727	mg/l	TM099	20/11/2019 at 09:30	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW21	Conductivity	>2000 µS/cm	Quarterly	1.27	mS/cm	TM120	20/11/2019 at 09:30	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW21	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.524	µg/l	TM152	20/11/2019 at 09:30	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable
SW21	Nickel (diss.filt)	>0.1 mg/l	Quarterly	7.36	µg/l	TM152	20/11/2019 at 09:30	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW21	Sulphate	>300 mg/l	Quarterly	213	mg/l	TM184	20/11/2019 at 09:30	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW21	Chloride	>300 mg/l	Quarterly	187	mg/l	TM184	20/11/2019 at 09:30	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW21	Nitrite as N	>1 mg/l	Quarterly	0.035	mg/l	TM184	20/11/2019 at 09:30	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW21	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.573	mg/l	TM184	20/11/2019 at 09:30	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW21	Nitrate as N	>1 mg/l	Quarterly	<0.0677	mg/l	TM184	20/11/2019 at 09:30	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW21	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	<0.1	mg/l	TM184	20/11/2019 at 09:30	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW21	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	2.57	mg/l	TM187	20/11/2019 at 09:30	Lab: Unknown. Sampling: Immeasurable
SW21	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	179	µg/l	TM152	20/11/2019 at 09:30	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW21	Zinc (tot.unfilt)	>1 mg/l	Quarterly	31.2	µg/l	TM152	20/11/2019 at 09:30	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable
SW21	Calcium (tot.unfilt)	>300 mg/l	Quarterly	179	mg/l	TM152	20/11/2019 at 09:30	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW21	pH	6.8 – 8.5	Quarterly	7.24	pH Units	TM256	20/11/2019 at 09:30	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW21	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 09:30	Lab: Unknown. Sampling: Immeasurable
SW22	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	14.5	mg/l	TM022	20/11/2019 at 12:10	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW22	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	4.81	mg/l	TM045	20/11/2019 at 12:10	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable
SW22	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	<0.2	mg/l	TM099	20/11/2019 at 12:10	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW22	Conductivity	>2000 µS/cm	Quarterly	0.452	mS/cm	TM120	20/11/2019 at 12:10	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW22	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.348	µg/l	TM152	20/11/2019 at 12:10	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
								Immeasurable
SW22	Nickel (diss.filt)	>0.1 mg/l	Quarterly	5.72	µg/l	TM152	20/11/2019 at 12:10	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW22	Sulphate	>300 mg/l	Quarterly	70.5	mg/l	TM184	20/11/2019 at 12:10	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW22	Chloride	>300 mg/l	Quarterly	48.6	mg/l	TM184	20/11/2019 at 12:10	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW22	Nitrite as N	>1 mg/l	Quarterly	<0.0152	152 mg/l	TM184	20/11/2019 at 12:10	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW22	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.337	mg/l	TM184	20/11/2019 at 12:10	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW22	Nitrate as N	>1 mg/l	Quarterly	<0.0677	mg/l	TM184	20/11/2019 at 12:10	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW22	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	<0.1	mg/l	TM184	20/11/2019 at 12:10	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW22	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	3.76	mg/l	TM187	20/11/2019 at 12:10	Lab: Unknown. Sampling: Immeasurable
SW22	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	20/11/2019 at 12:10	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW22	Zinc (tot.unfilt)	>1 mg/l	Quarterly	19.7	µg/l	TM152	20/11/2019 at 12:10	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW22	Calcium (tot.unfilt)	>300 mg/l	Quarterly	63.4	mg/l	TM152	20/11/2019 at 12:10	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW22	pH	6.8 – 8.5	Quarterly	7.16	pH units	TM256	20/11/2019 at 12:10	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW22	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 12:10	Lab: Unknown. Sampling: Immeasurable
SW23	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	14.5	mg/l	TM022	20/11/2019 at 10:10	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW23	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	3.44	mg/l	TM045	20/11/2019 at 10:10	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW23	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	0.344	mg/l	TM099	20/11/2019 at 10:10	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW23	Conductivity	>2000 µS/cm	Quarterly	0.609	mS/cm	TM120	20/11/2019 at 10:10	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW23	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.58	µg/l	TM152	20/11/2019 at 10:10	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable
SW23	Nickel (diss.filt)	>0.1 mg/l	Quarterly	7.28	µg/l	TM152	20/11/2019 at 10:10	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW23	Sulphate	>300 mg/l	Quarterly	81.7	mg/l	TM184	20/11/2019 at 10:10	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW23	Chloride	>300 mg/l	Quarterly	60.9	mg/l	TM184	20/11/2019 at	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
							10:10	11.7%. Sampling Immeasurable
SW23	Nitrite as N	>1 mg/l	Quarterly	<0.0152	mg/l	TM184	20/11/2019 at 10:10	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW23	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.846	mg/l	TM184	20/11/2019 at 10:10	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW23	Nitrate as N	>1 mg/l	Quarterly	<0.0677	mg/l	TM184	20/11/2019 at 10:10	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW23	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	<0.1	mg/l	TM184	20/11/2019 at 10:10	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW23	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	1.66	mg/l	TM187	20/11/2019 at 10:10	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⁾
SW23	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	20/11/2019 at 10:10	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW23	Zinc (tot.unfilt)	>1 mg/l	Quarterly	25.1	µg/l	TM152	20/11/2019 at 10:10	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable
SW23	Calcium (tot.unfilt)	>300 mg/l	Quarterly	79.7	mg/l	TM152	20/11/2019 at 10:10	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW23	pH	6.8 – 8.5	Quarterly	7.88	pH Units	TM256	20/11/2019 at 10:10	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW23	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 10:10	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⁾
SW24	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	4.5	mg/l	TM022	20/11/2019 at 09:15	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW24	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	5.64	mg/l	TM045	20/11/2019 at 09:15	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable
SW24	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	0.915	mg/l	TM099	20/11/2019 at 09:15	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW24	Conductivity	>2000 µS/cm	Quarterly	2.23	mS/cm	TM120	20/11/2019 at 09:15	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW24	Lead (diss.filt)	>0.25 mg/l	Quarterly	<0.2	µg/l	TM152	20/11/2019 at 09:15	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW24	Nickel (diss.filt)	>0.1 mg/l	Quarterly	4.18	µg/l	TM152	20/11/2019 at 09:15	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW24	Sulphate	>300 mg/l	Quarterly	383	mg/l	TM184	20/11/2019 at 09:15	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW24	Chloride	>300 mg/l	Quarterly	440	mg/l	TM184	20/11/2019 at 09:15	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW24	Nitrite as N	>1 mg/l	Quarterly	0.118	mg/l	TM184	20/11/2019 at 09:15	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW24	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.468	mg/l	TM184	20/11/2019 at 09:15	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW24	Nitrate as N	>1 mg/l	Quarterly	0.812	mg/l	TM184	20/11/2019 at 09:15	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW24	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	0.931	mg/l	TM184	20/11/2019 at 09:15	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW24	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	2.52	mg/l	TM187	20/11/2019 at 09:15	Lab: Unknown. Sampling: Immeasurable
SW24	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	20/11/2019 at 09:15	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW24	Zinc (tot.unfilt)	>1 mg/l	Quarterly	12.6	µg/l	TM152	20/11/2019 at 09:15	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW24	Calcium (tot.unfilt)	>300 mg/l	Quarterly	306	mg/l	TM152	20/11/2019 at 09:15	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW24	pH	6.8 – 8.5	Quarterly	7.76	pH Units	TM256	20/11/2019 at 09:15	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW24	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 09:15	Lab: Unknown. Sampling: Immeasurable
SW25	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	12.5	mg/l	TM022	20/11/2019 at 09:40	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW25	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	5.16	mg/l	TM045	20/11/2019 at 09:40	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW25	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	0.588	mg/l	TM099	20/11/2019 at 09:40	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW25	Conductivity	>2000 µS/cm	Quarterly	1.14	mS/cm	TM120	20/11/2019 at 09:40	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW25	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.651	µg/l	TM152	20/11/2019 at 09:40	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable
SW25	Nickel (diss.filt)	>0.1 mg/l	Quarterly	7.78	µg/l	TM152	20/11/2019 at 09:40	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW25	Sulphate	>300 mg/l	Quarterly	189	mg/l	TM184	20/11/2019 at 09:40	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW25	Chloride	>300 mg/l	Quarterly	184	mg/l	TM184	20/11/2019 at 09:40	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
								11.7%. Sampling Immeasurable
SW25	Nitrite as N	>1 mg/l	Quarterly	0.045	mg/l	TM184	20/11/2019 at 09:40	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW25	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	0.64	mg/l	TM184	20/11/2019 at 09:40	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW25	Nitrate as N	>1 mg/l	Quarterly	0.259	mg/l	TM184	20/11/2019 at 09:40	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW25	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	0.304	mg/l	TM184	20/11/2019 at 09:40	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW25	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	2.53	mg/l	TM187	20/11/2019 at 09:40	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⁾
SW25	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<0.5	µg/l	TM152	20/11/2019 at 09:40	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW25	Zinc (tot.unfilt)	>1 mg/l	Quarterly	23.3	µg/l	TM152	20/11/2019 at 09:40	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable
SW25	Calcium (tot.unfilt)	>300 mg/l	Quarterly	163	mg/l	TM152	20/11/2019 at 09:40	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW25	pH	6.8 – 8.5	Quarterly	7.56	pH Units	TM256	20/11/2019 at 09:40	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW25	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 09:40	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⁾
SW26	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Quarterly	9.5	mg/l	TM022	20/11/2019 at 10:30	Lab: precision 1.1%, Bias -0.7%, Expanded Uncertainty 2.9%. Sampling Immeasurable
SW26	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Quarterly	<2.5	mg/l	TM045	20/11/2019 at 10:30	Lab: precision 5.9%, Bias -2.7%, Expanded Uncertainty 14.5%. Sampling Immeasurable
SW26	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Quarterly	<0.2	mg/l	TM099	20/11/2019 at 10:30	Lab: precision 1.5%, Bias 1.7%, Expanded Uncertainty 4.7%. Sampling Immeasurable
SW26	Conductivity	>2000 µS/cm	Quarterly	0.668	mS/cm	TM120	20/11/2019 at 10:30	Lab: precision 0.6%, Bias 3%, Expanded Uncertainty 4.4%. Sampling Immeasurable
SW26	Lead (diss.filt)	>0.25 mg/l	Quarterly	0.663	µg/l	TM152	20/11/2019 at 10:30	Lab: precision 2.8%, Bias 3.9%, Expanded Uncertainty 9.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW26	Nickel (diss.filt)	>0.1 mg/l	Quarterly	7.44	µg/l	TM152	20/11/2019 at 10:30	Lab: precision 2.8%, Bias 1.3%, Expanded Uncertainty 6.9%. Sampling Immeasurable
SW26	Sulphate	>300 mg/l	Quarterly	98.5	mg/l	TM184	20/11/2019 at 10:30	Lab: precision 2.4%, Bias 4.0%, Expanded Uncertainty 8.8%. Sampling Immeasurable
SW26	Chloride	>300 mg/l	Quarterly	71.4	mg/l	TM184	20/11/2019 at 10:30	Lab: precision 3.0%, Bias 5.8%, Expanded Uncertainty 11.7%. Sampling Immeasurable
SW26	Nitrite as N	>1 mg/l	Quarterly	<0.0152	mg/l	TM184	20/11/2019 at 10:30	Lab: precision 1.3%, Bias 0%, Expanded Uncertainty 2.6%. Sampling Immeasurable
SW26	Phosphate (ortho) as PO ₄	>1 mg/l	Quarterly	1.01	mg/l	TM184	20/11/2019 at 10:30	Lab: precision 1.7%, Bias 2.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW26	Nitrate as N	>1 mg/l	Quarterly	<0.0677	mg/l	TM184	20/11/2019 at 10:30	Lab: precision 2.2%, Bias 1.1%, Expanded Uncertainty 5.5%. Sampling Immeasurable
SW26	Total Oxidised Nitrogen as N	>2 mg/l	Quarterly	<0.1	mg/l	TM184	20/11/2019 at 10:30	Lab: precision 3.2%, Bias 4.3%, Expanded Uncertainty 10.6%. Sampling Immeasurable
SW26	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Quarterly	1.67	mg/l	TM187	20/11/2019 at 10:30	Lab: Unknown. Sampling: Immeasurable
SW26	Cadmium (tot.unfilt)	>0.005 mg/l	Quarterly	<5	µg/l	TM152	20/11/2019 at 10:30	Lab: precision 4.2%, Bias -8.7%, Expanded Uncertainty 17.1%. Sampling Immeasurable
SW26	Zinc (tot.unfilt)	>1 mg/l	Quarterly	<50	µg/l	TM152	20/11/2019 at 10:30	Lab: precision 2.8%, Bias -0.7%, Expanded Uncertainty 6.4%. Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Unit	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW26	Calcium (tot.unfilt)	>300 mg/l	Quarterly	82.8	mg/l	TM152	20/11/2019 at 10:30	Lab: precision 3.8%, Bias 3.3%, Expanded Uncertainty 10.8%. Sampling Immeasurable
SW26	pH	6.8 – 8.5	Quarterly	7.93	pH Units	TM256	20/11/2019 at 10:30	Lab: precision 0%, Bias 0.1%, Expanded Uncertainty 0.1%. Sampling Immeasurable
SW26	Total Aliphatics & Aromatics >C5-C35	>2 mg/l	Quarterly	<10	µg/l	TM174	20/11/2019 at 10:30	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:
Adam Parker

Date: December 2019

AP

(Authorised to sign as representative of Operator)

Adam Parker on behalf of Neal Soil Suppliers
Permit Number: EPR/VP3095FS