

Operator: CWM Environmental Ltd  
 Permit: CP3735PB

Installation: Nantycaws Landfill Site  
 Form: Surface waters Q3 2021

Reporting of surface water monitoring for the period 01-Jul-2021 to 30-Sep-2021

Monitoring location	Substance / parameter <sup>(6)</sup>	Test method <sup>(2)</sup>	Date <sup>(3)</sup>	Compliance limit <sup>(7)</sup>	Result <sup>(1) (4)</sup>	Unit <sup>(5)</sup>
SW201	Ionic balance	Calulation	26-Jul-2021		-0.36	%
	Electrical conductivity (field)	Field	26-Jul-2021		377	µS/cm
			10-Aug-2021		581	µS/cm
			13-Sep-2021		290	µS/cm
	Groundwater level/dip		26-Jul-2021		42mm	mm
			10-Aug-2021		30mm	mm
			13-Sep-2021		32mm	mm
	Water temperature		26-Jul-2021		26	°C
			10-Aug-2021		13.4	°C
			13-Sep-2021		15.5	°C
	Total organic carbon	SUB	26-Jul-2021		1.3	mg/l
	Total Suspended solids	TM022	26-Jul-2021		10.9	mg/l
			10-Aug-2021		17.4	mg/l
			13-Sep-2021		45.6	mg/l
	Bicarbonate alkalinity as CaCO3 (filtered)	TM043	26-Jul-2021		175	mg/l
	Total Alkalinity as CaCO3		26-Jul-2021		182	mg/l
	Total alkalinity as CaCO3 (filtered)		26-Jul-2021		175	mg/l
	Ammoniacal Nitrogen as N	TM099	26-Jul-2021		<0.2	mg/l
			10-Aug-2021		<0.2	mg/l
			13-Sep-2021		<0.2	mg/l

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SW201	Electrical conductivity @20°C (lab)	TM120	26-Jul-2021		359	µS/cm
			10-Aug-2021		552	µS/cm
			13-Sep-2021		301	µS/cm
	Cadmium (filtered)	TM152	26-Jul-2021		<0.00008	mg/l
	Calcium (filtered)		26-Jul-2021		58.2	mg/l
	Chromium (filtered)		26-Jul-2021		<0.001	mg/l
	Iron (filtered)		26-Jul-2021		0.171	mg/l
	Lead (filtered)		26-Jul-2021		0.00119	mg/l
	Magnesium (filtered)		26-Jul-2021		12.5	mg/l
	Manganese (filtered)		26-Jul-2021		0.0588	mg/l
	Nickel (filtered)		26-Jul-2021		<0.0004	mg/l
	Potassium (filtered)		26-Jul-2021		2.87	mg/l
	Sodium (filtered)		26-Jul-2021		9.18	mg/l
	Zinc (filtered)		26-Jul-2021		0.00352	mg/l
	4-Methylphenol	TM176	26-Jul-2021		<0.002	mg/l
	Diethyl phthalate		26-Jul-2021		<0.002	mg/l
	Chloride	TM184	26-Jul-2021		19.5	mg/l
			10-Aug-2021		35.2	mg/l
			13-Sep-2021		10	mg/l
	Nitrate as NO3		26-Jul-2021		9.39	mg/l
	Nitrite as NO2		26-Jul-2021		<0.05	mg/l
	Sulphate		26-Jul-2021		11.2	mg/l
	Total Oxidised Nitrogen as N		26-Jul-2021		2.13	mg/l
	Dichloromethane	TM208	26-Jul-2021		<0.003	mg/l
	pH (lab)	TM256	26-Jul-2021		8.22	pH units
			10-Aug-2021		8.25	pH units
			13-Sep-2021		8.13	pH units

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SW201	Mecoprop	TM411	26-Jul-2021		<0.00008	mg/l
SW202	Ionic balance	Calulation	26-Jul-2021		-0.673	%
	Electrical conductivity (field)	Field	26-Jul-2021		400	µS/cm
			10-Aug-2021		509	µS/cm
			13-Sep-2021		375	µS/cm
	Groundwater level/dip		26-Jul-2021		27mm	mm
			10-Aug-2021		21mm	mm
			13-Sep-2021		21mm	mm
	Water temperature		26-Jul-2021		24.7	°C
			10-Aug-2021		18.9	°C
			13-Sep-2021		15.3	°C
	Total organic carbon	SUB	26-Jul-2021		0.8	mg/l
	Total Suspended solids	TM022	26-Jul-2021		26.2	mg/l
			10-Aug-2021		7.15	mg/l
			13-Sep-2021		9.74	mg/l
	Bicarbonate alkalinity as CaCO3 (filtered)	TM043	26-Jul-2021		185	mg/l
	Total Alkalinity as CaCO3		26-Jul-2021		185	mg/l
	Total alkalinity as CaCO3 (filtered)		26-Jul-2021		185	mg/l
	Ammoniacal Nitrogen as N	TM099	26-Jul-2021		<0.2	mg/l
			10-Aug-2021		<0.2	mg/l
			13-Sep-2021		<0.2	mg/l
	Electrical conductivity @20°C (lab)	TM120	26-Jul-2021		348	µS/cm
			10-Aug-2021		550	µS/cm
			13-Sep-2021		389	µS/cm
	Cadmium (filtered)	TM152	26-Jul-2021		<0.00008	mg/l
	Calcium (filtered)		26-Jul-2021		63.5	mg/l
	Chromium (filtered)		26-Jul-2021		<0.001	mg/l

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SW202	Iron (filtered)	TM152	26-Jul-2021		0.23	mg/l
	Lead (filtered)		26-Jul-2021		0.00171	mg/l
	Magnesium (filtered)		26-Jul-2021		11.6	mg/l
	Manganese (filtered)		26-Jul-2021		0.0673	mg/l
	Nickel (filtered)		26-Jul-2021		0.000452	mg/l
	Potassium (filtered)		26-Jul-2021		2.91	mg/l
	Sodium (filtered)		26-Jul-2021		9.71	mg/l
	Zinc (filtered)		26-Jul-2021		0.00604	mg/l
	4-Methylphenol	TM176	26-Jul-2021		<0.002	mg/l
	Diethyl phthalate		26-Jul-2021		<0.002	mg/l
	Chloride	TM184	26-Jul-2021		21	mg/l
			10-Aug-2021		32.5	mg/l
			13-Sep-2021		20	mg/l
	Nitrate as NO3		26-Jul-2021		9.11	mg/l
	Nitrite as NO2		26-Jul-2021		<0.05	mg/l
	Sulphate		26-Jul-2021		11.7	mg/l
	Total Oxidised Nitrogen as N		26-Jul-2021		2.06	mg/l
	Dichloromethane	TM208	26-Jul-2021		<0.003	mg/l
	pH (lab)	TM256	26-Jul-2021		8.12	pH units
			10-Aug-2021		8.22	pH units
			13-Sep-2021		8.07	pH units
	Mecoprop	TM411	26-Jul-2021		<0.00008	mg/l
SW203	Electrical conductivity (field)	Field	26-Jul-2021		315	µS/cm
			10-Aug-2021		339	µS/cm
			13-Sep-2021		391	µS/cm
	Groundwater level/dip		26-Jul-2021		35mm	mm
			10-Aug-2021		33mm	mm

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SW203	Groundwater level/dip	Field	13-Sep-2021		28mm	mm
			26-Jul-2021		22.8	°C
	Water temperature		10-Aug-2021		17.4	°C
			13-Sep-2021		17.5	°C
			26-Jul-2021		9.65	mg/l
	Total Suspended solids	TM022	10-Aug-2021		2.4	mg/l
			13-Sep-2021		<4	mg/l
			26-Jul-2021		<0.2	mg/l
	Ammoniacal Nitrogen as N	TM099	10-Aug-2021		<0.2	mg/l
			13-Sep-2021		<0.2	mg/l
			26-Jul-2021		<0.2	mg/l
	Electrical conductivity @20°C (lab)	TM120	10-Aug-2021		304	µS/cm
			13-Sep-2021		357	µS/cm
			26-Jul-2021		404	µS/cm
	Cadmium (filtered)	TM152	26-Jul-2021		<0.00008	mg/l
	4-Methylphenol	TM176	26-Jul-2021		<0.001	mg/l
	Diethyl phthalate		26-Jul-2021		<0.001	mg/l
	Chloride	TM184	26-Jul-2021		9.6	mg/l
			10-Aug-2021		31.7	mg/l
			13-Sep-2021		38.7	mg/l
Dichloromethane	TM208	26-Jul-2021		<0.003	mg/l	
pH (lab)	TM256	26-Jul-2021		8.15	pH units	
		10-Aug-2021		8.18	pH units	
		13-Sep-2021		8	pH units	
Mecoprop	TM411	26-Jul-2021		<0.00008	mg/l	
SW204	Ionic balance	Calulation	26-Jul-2021		-4.63	%
	Electrical conductivity (field)	Field	26-Jul-2021		150	µS/cm
10-Aug-2021				319	µS/cm	

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SW204	Electrical conductivity (field)	Field	13-Sep-2021		362	µS/cm
	Groundwater level/dip		26-Jul-2021		22mm	mm
			10-Aug-2021		19mm	mm
			13-Sep-2021		17mm	mm
	Water temperature		26-Jul-2021		24.6	°C
			10-Aug-2021		16.1	°C
			13-Sep-2021		14.1	°C
	Total organic carbon	SUB	26-Jul-2021		1	mg/l
	Total Suspended solids	TM022	26-Jul-2021		121	mg/l
			10-Aug-2021		19.8	mg/l
			13-Sep-2021		15.8	mg/l
	Bicarbonate alkalinity as CaCO3 (filtered)	TM043	26-Jul-2021		165	mg/l
	Total Alkalinity as CaCO3		26-Jul-2021		150	mg/l
	Total alkalinity as CaCO3 (filtered)		26-Jul-2021		165	mg/l
	Ammoniacal Nitrogen as N	TM099	26-Jul-2021		<0.2	mg/l
			10-Aug-2021		<0.2	mg/l
			13-Sep-2021		<0.2	mg/l
	Electrical conductivity @20°C (lab)	TM120	26-Jul-2021		301	µS/cm
			10-Aug-2021		386	µS/cm
			13-Sep-2021		387	µS/cm
	Cadmium (filtered)	TM152	26-Jul-2021		<0.00008	mg/l
	Calcium (filtered)		26-Jul-2021		57.3	mg/l
	Chromium (filtered)		26-Jul-2021		<0.001	mg/l
	Iron (filtered)		26-Jul-2021		0.222	mg/l
	Lead (filtered)		26-Jul-2021		0.000442	mg/l
	Magnesium (filtered)		26-Jul-2021		4.33	mg/l
	Manganese (filtered)		26-Jul-2021		0.135	mg/l

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SW204	Nickel (filtered)	TM152	26-Jul-2021		<0.0004	mg/l	
	Potassium (filtered)		26-Jul-2021		2.57	mg/l	
	Sodium (filtered)		26-Jul-2021		6.62	mg/l	
	Zinc (filtered)		26-Jul-2021		0.00239	mg/l	
	4-Methylphenol	TM176	26-Jul-2021		<0.002	mg/l	
	Diethyl phthalate		26-Jul-2021		<0.002	mg/l	
	Chloride	TM184	26-Jul-2021		12	mg/l	
				10-Aug-2021		16.7	mg/l
				13-Sep-2021		14.6	mg/l
	Nitrate as NO3		26-Jul-2021		4.8	mg/l	
	Nitrite as NO2		26-Jul-2021		<0.05	mg/l	
	Sulphate		26-Jul-2021		9.6	mg/l	
	Total Oxidised Nitrogen as N		26-Jul-2021		1.09	mg/l	
	Dichloromethane	TM208	26-Jul-2021		<0.003	mg/l	
	pH (lab)	TM256	26-Jul-2021		7.86	pH units	
				10-Aug-2021		7.84	pH units
				13-Sep-2021		8.01	pH units
	Mecoprop	TM411	26-Jul-2021		<0.00008	mg/l	
	SW205a	Ionic balance	Calulation	26-Jul-2021		-2.74	%
		Electrical conductivity (field)	Field	26-Jul-2021		414	µS/cm
				10-Aug-2021		433	µS/cm
				13-Sep-2021		427	µS/cm
Groundwater level/dip			26-Jul-2021		38mm	mm	
				10-Aug-2021		38mm	mm
				13-Sep-2021		42mm	mm
Water temperature			26-Jul-2021		20.7	°C	
				10-Aug-2021		18.4	°C

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SW205a	Water temperature	Field	13-Sep-2021		17.1	°C
	Total organic carbon	SUB	26-Jul-2021		1.7	mg/l
	Total Suspended solids	TM022	26-Jul-2021	<70 mg/l	17	mg/l
			10-Aug-2021	<70 mg/l	6.8	mg/l
			13-Sep-2021	<70 mg/l	6.74	mg/l
	Bicarbonate alkalinity as CaCO3 (filtered)	TM043	26-Jul-2021		155	mg/l
	Total Alkalinity as CaCO3		26-Jul-2021		145	mg/l
	Total alkalinity as CaCO3 (filtered)		26-Jul-2021		155	mg/l
	Ammoniacal Nitrogen as N	TM099	26-Jul-2021	<1.0 mg/l	<0.2	mg/l
			10-Aug-2021	<1.0 mg/l	<0.2	mg/l
			13-Sep-2021	<1.0 mg/l	<0.2	mg/l
	Electrical conductivity @20°C (lab)	TM120	26-Jul-2021		323	µS/cm
			10-Aug-2021		446	µS/cm
			13-Sep-2021		488	µS/cm
	Cadmium (filtered)	TM152	26-Jul-2021	<0.0001 mg/l	<0.00008	mg/l
	Calcium (filtered)		26-Jul-2021		50	mg/l
	Chromium (filtered)		26-Jul-2021		<0.001	mg/l
	Iron (filtered)		26-Jul-2021		0.243	mg/l
	Lead (filtered)		26-Jul-2021		0.0037	mg/l
	Magnesium (filtered)		26-Jul-2021		8.68	mg/l
	Manganese (filtered)		26-Jul-2021		0.0639	mg/l
	Nickel (filtered)		26-Jul-2021		0.000569	mg/l
	Potassium (filtered)		26-Jul-2021		2.62	mg/l
	Sodium (filtered)		26-Jul-2021		8.39	mg/l
	Zinc (filtered)		26-Jul-2021		0.0104	mg/l
	4-Methylphenol	TM176	26-Jul-2021	<0.001 mg/l	<0.002	mg/l
	Diethyl phthalate		26-Jul-2021	<0.003 mg/l	<0.002	mg/l

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SW205a	Chloride	TM184	26-Jul-2021	<150 mg/l	15.4	mg/l
			10-Aug-2021	<150 mg/l	25.7	mg/l
			13-Sep-2021	<150 mg/l	32.1	mg/l
	Nitrate as NO3		26-Jul-2021		7.13	mg/l
	Nitrite as NO2		26-Jul-2021		<0.05	mg/l
	Sulphate		26-Jul-2021		9.5	mg/l
	Total Oxidised Nitrogen as N		26-Jul-2021		1.62	mg/l
	Dichloromethane	TM208	26-Jul-2021	<0.002 mg/l	<0.003	mg/l
	pH (lab)	TM256	26-Jul-2021	6 to 9 pH units	8.19	pH units
			10-Aug-2021	6 to 9 pH units	8.3	pH units
			13-Sep-2021	6 to 9 pH units	8.23	pH units
	Mecoprop	TM411	26-Jul-2021	<0.000055 mg/l	<0.00008	mg/l
	SW206	Ionic balance	Calulation	26-Jul-2021		-3.3
Electrical conductivity (field)		Field	26-Jul-2021		143	µS/cm
			10-Aug-2021		258	µS/cm
			13-Sep-2021		371	µS/cm
Groundwater level/dip			26-Jul-2021		62mm	mm
			10-Aug-2021		72mm	mm
			13-Sep-2021		70mm	mm
Water temperature			26-Jul-2021		22.9	°C
			10-Aug-2021		16.1	°C
			13-Sep-2021		17.6	°C
Total organic carbon		SUB	26-Jul-2021		0.9	mg/l
Total Suspended solids		TM022	26-Jul-2021	<50 mg/l	4.45	mg/l
			10-Aug-2021	<50 mg/l	9.75	mg/l
	13-Sep-2021		<50 mg/l	47.8	mg/l	
Bicarbonate alkalinity as CaCO3 (filtered)	TM043	26-Jul-2021		160	mg/l	

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SW206	Total Alkalinity as CaCO3	TM043	26-Jul-2021		152	mg/l
	Total alkalinity as CaCO3 (filtered)		26-Jul-2021		160	mg/l
	Ammoniacal Nitrogen as N	TM099	26-Jul-2021	<1.0 mg/l	<0.2	mg/l
			10-Aug-2021	<1.0 mg/l	<0.2	mg/l
			13-Sep-2021	<1.0 mg/l	<0.2	mg/l
	Electrical conductivity @20°C (lab)	TM120	26-Jul-2021		298	µS/cm
			10-Aug-2021		267	µS/cm
			13-Sep-2021		400	µS/cm
	Cadmium (filtered)	TM152	26-Jul-2021	<0.0001 mg/l	<0.00008	mg/l
	Calcium (filtered)		26-Jul-2021		55.6	mg/l
	Chromium (filtered)		26-Jul-2021		<0.001	mg/l
	Iron (filtered)		26-Jul-2021		0.0438	mg/l
	Lead (filtered)		26-Jul-2021		<0.0002	mg/l
	Magnesium (filtered)		26-Jul-2021		4.61	mg/l
	Manganese (filtered)		26-Jul-2021		0.0111	mg/l
	Nickel (filtered)		26-Jul-2021		<0.0004	mg/l
	Potassium (filtered)		26-Jul-2021		1.03	mg/l
	Sodium (filtered)		26-Jul-2021		7.26	mg/l
	Zinc (filtered)		26-Jul-2021		0.00336	mg/l
	4-Methylphenol	TM176	26-Jul-2021	<0.001 mg/l	<0.001	mg/l
	Diethyl phthalate		26-Jul-2021	<0.003 mg/l	<0.001	mg/l
	Chloride	TM184	26-Jul-2021	<150 mg/l	9.2	mg/l
			10-Aug-2021	<150 mg/l	15.4	mg/l
			13-Sep-2021	<150 mg/l	21.6	mg/l
	Nitrate as NO3		26-Jul-2021		6.57	mg/l
	Nitrite as NO2		26-Jul-2021		<0.05	mg/l
	Sulphate		26-Jul-2021		8.2	mg/l

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SW206	Total Oxidised Nitrogen as N	TM184	26-Jul-2021		1.49	mg/l
	Dichloromethane	TM208	26-Jul-2021	<0.002 mg/l	<0.003	mg/l
	pH (lab)	TM256	26-Jul-2021	6 to 9 pH units	8.2	pH units
			10-Aug-2021	6 to 9 pH units	7.81	pH units
			13-Sep-2021	6 to 9 pH units	7.94	pH units
	Mecoprop	TM411	26-Jul-2021	<0.000055 mg/l	<0.00008	mg/l
SW207	Ionic balance	Calulation	26-Jul-2021		-0.39	%
	Electrical conductivity (field)	Field	26-Jul-2021		333	µS/cm
			10-Aug-2021		275	µS/cm
			13-Sep-2021		314	µS/cm
	Groundwater level/dip		26-Jul-2021		46mm	mm
			10-Aug-2021		30mm	mm
			13-Sep-2021		87mm	mm
	Water temperature		26-Jul-2021		20.7	°C
			10-Aug-2021		17.6	°C
			13-Sep-2021		17.7	°C
	Total organic carbon	SUB	26-Jul-2021		2.3	mg/l
	Total Suspended solids	TM022	26-Jul-2021		7.45	mg/l
			10-Aug-2021		6	mg/l
			13-Sep-2021		8.14	mg/l
	Bicarbonate alkalinity as CaCO3 (filtered)	TM043	26-Jul-2021		170	mg/l
	Total Alkalinity as CaCO3		26-Jul-2021		167	mg/l
	Total alkalinity as CaCO3 (filtered)		26-Jul-2021		170	mg/l
	Ammoniacal Nitrogen as N	TM099	26-Jul-2021		<0.2	mg/l
			10-Aug-2021		<0.2	mg/l
			13-Sep-2021		<0.2	mg/l
	Electrical conductivity @20°C (lab)	TM120	26-Jul-2021		309	µS/cm

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SW207	Electrical conductivity @20°C (lab)	TM120	10-Aug-2021		308	µS/cm
			13-Sep-2021		358	µS/cm
	Cadmium (filtered)	TM152	26-Jul-2021		<0.00008	mg/l
	Calcium (filtered)		26-Jul-2021		61.9	mg/l
	Chromium (filtered)		26-Jul-2021		<0.001	mg/l
	Iron (filtered)		26-Jul-2021		0.12	mg/l
	Lead (filtered)		26-Jul-2021		0.00073	mg/l
	Magnesium (filtered)		26-Jul-2021		5.67	mg/l
	Manganese (filtered)		26-Jul-2021		0.0822	mg/l
	Nickel (filtered)		26-Jul-2021		<0.0004	mg/l
	Potassium (filtered)		26-Jul-2021		2.49	mg/l
	Sodium (filtered)		26-Jul-2021		8.62	mg/l
	Zinc (filtered)		26-Jul-2021		0.00546	mg/l
	4-Methylphenol	TM176	26-Jul-2021		<0.001	mg/l
	Diethyl phthalate		26-Jul-2021		<0.001	mg/l
	Chloride	TM184	26-Jul-2021		11.5	mg/l
			10-Aug-2021		17.3	mg/l
			13-Sep-2021		24.2	mg/l
	Nitrate as NO3		26-Jul-2021		7.33	mg/l
	Nitrite as NO2		26-Jul-2021		<0.05	mg/l
	Sulphate		26-Jul-2021		8.8	mg/l
	Total Oxidised Nitrogen as N		26-Jul-2021		1.67	mg/l
	Dichloromethane	TM208	26-Jul-2021		<0.003	mg/l
	pH (lab)	TM256	26-Jul-2021		8.17	pH units
			10-Aug-2021		8.1	pH units
			13-Sep-2021		8.22	pH units
	Mecoprop	TM411	26-Jul-2021		<0.00008	mg/l

**Monitoring location**

**Substance / parameter <sup>(6)</sup>**

**Test method <sup>(2)</sup>**

**Date <sup>(3)</sup>**

**Compliance limit <sup>(7)</sup>**

**Result <sup>(1) (4)</sup>**

**Unit <sup>(5)</sup>**

(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 Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. 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; refer to laboratory data sheets for specific uncertainty.

(5) Depths reported as metres (m) are metres above base of ditch / stream.

(6) For details of the sampling method, frequency and parameters measured / analysed for, refer to the site Environmental Monitoring Management Plan (EMMP).

(7) Where blank, there is no defined compliance limit specified for the monitoring location / parameter.

Signature:.....

Date: 27 September 2021

(Authorised to sign as representative of  
Operator)