

Operator: CWM Environmental Ltd
Permit: CP3735PB

Installation: Nantycaws Landfill Site
Form: Leachate Monitoring Q4 2023

Reporting of leachate monitoring for the period from 01-Oct-2023 to 31-Dec-2023

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Cell 1/2 Sump	Base of well/borehole/sump	Field	12/10/2023		13.8	m
			14/11/2023		13.75	m
			07/12/2023		13.78	m
	Groundwater level/dip		12/10/2023		13.54	m
			14/11/2023		13.69	m
			07/12/2023		13.66	m
	Leachate level above base of sump/pit base		12/10/2023	3m above base	0.26	m
			14/11/2023	3m above base	0.06	m
			07/12/2023	3m above base	0.12	m
	Biological oxygen demand	TM045	12/10/2023		55.7	mg/l
	Total organic carbon	TM090	12/10/2023		448	mg/l
	Ammoniacal Nitrogen as N	TM099	12/10/2023	<3,640 mg/l	852	mg/l
			14/11/2023	<3,640 mg/l	564	mg/l
			07/12/2023	<3,640 mg/l	1010	mg/l
	Chemical oxygen demand (unfiltered)	TM107	12/10/2023		1360	mg/l
	Cadmium (filtered)	TM152	12/10/2023	<0.105 mg/l	<0.0008	mg/l
	Calcium (filtered)		12/10/2023		64.8	mg/l
	Chromium (filtered)		12/10/2023		0.0961	mg/l
	Copper (filtered)		12/10/2023		0.00676	mg/l
	Iron (filtered)		12/10/2023		4.94	mg/l
	Lead (filtered)		12/10/2023		0.00238	mg/l
	Magnesium (filtered)		12/10/2023		80.3	mg/l

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Cell 1/2 Sump	Manganese (filtered)	TM152	12/10/2023		0.432	mg/l
	Nickel (filtered)		12/10/2023		0.155	mg/l
	Potassium (filtered)		12/10/2023		1440	mg/l
	Sodium (filtered)		12/10/2023		2260	mg/l
	Zinc (filtered)		12/10/2023		0.0899	mg/l
	4-Methylphenol	TM176	12/10/2023	<1.6 mg/l	<0.02	mg/l
	Diethyl phthalate		12/10/2023	<0.44 mg/l	<0.02	mg/l
	Chloride	TM184	12/10/2023	<19,000 mg/l	4770	mg/l
			14/11/2023	<19,000 mg/l	13900	mg/l
			07/12/2023	<19,000 mg/l	4840	mg/l
	Sulphate		12/10/2023		90.5	mg/l
	Total Oxidised Nitrogen as N		12/10/2023		30.7	mg/l
	Dichloromethane	TM208	12/10/2023	<0.033 mg/l	<0.003	mg/l
	Electrical conductivity @20°C (lab)	TM256	12/10/2023		18800	µS/cm
			14/11/2023		40500	µS/cm
			07/12/2023		18700	µS/cm
	Total Alkalinity as CaCO3		12/10/2023		3910	mg/l
	Mecoprop	TM411	12/10/2023	<0.071 mg/l	0.0159	mg/l
Cell 3/4 Sump	Base of well/borehole/sump	Field	12/10/2023		11	m
			14/11/2023		10.99	m
			07/12/2023		10.94	m
	Groundwater level/dip		12/10/2023		10.38	m
			14/11/2023		10.12	m
			07/12/2023		10.1	m
	Leachate level above base of sump/pit base		12/10/2023	2.8m above base	0.62	m
			14/11/2023	2.8m above base	0.87	m
			07/12/2023	2.8m above base	0.84	m
	Biological oxygen demand	TM045	12/10/2023		33.6	mg/l
	Total organic carbon	TM090	12/10/2023		382	mg/l

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Cell 3/4 Sump	Ammoniacal Nitrogen as N	TM099	12/10/2023	<3,640 mg/l	575	mg/l
			14/11/2023	<3,640 mg/l	522	mg/l
			07/12/2023	<3,640 mg/l	475	mg/l
	Chemical oxygen demand (unfiltered)	TM107	12/10/2023		1370	mg/l
	Cadmium (filtered)	TM152	12/10/2023	<0.105 mg/l	<0.0008	mg/l
	Calcium (filtered)		12/10/2023		65.2	mg/l
	Chromium (filtered)		12/10/2023		0.101	mg/l
	Copper (filtered)		12/10/2023		0.00899	mg/l
	Iron (filtered)		12/10/2023		4.02	mg/l
	Lead (filtered)		12/10/2023		<0.002	mg/l
	Magnesium (filtered)		12/10/2023		106	mg/l
	Manganese (filtered)		12/10/2023		0.387	mg/l
	Nickel (filtered)		12/10/2023		0.187	mg/l
	Potassium (filtered)		12/10/2023		2130	mg/l
	Sodium (filtered)		12/10/2023		2630	mg/l
	Zinc (filtered)		12/10/2023		0.137	mg/l
	4-Methylphenol	TM176	12/10/2023	<1.6 mg/l	<0.02	mg/l
	Diethyl phthalate		12/10/2023	<0.44 mg/l	<0.02	mg/l
	Chloride	TM184	12/10/2023	<19,000 mg/l	5910	mg/l
			14/11/2023	<19,000 mg/l	2990	mg/l
			07/12/2023	<19,000 mg/l	13500	mg/l
	Sulphate		12/10/2023		42.3	mg/l
	Total Oxidised Nitrogen as N		12/10/2023		43	mg/l
	Dichloromethane	TM208	12/10/2023	<0.033 mg/l	<0.003	mg/l
	Electrical conductivity @20°C (lab)	TM256	12/10/2023		19900	µS/cm
			14/11/2023		12500	µS/cm
			07/12/2023		35700	µS/cm
	Total Alkalinity as CaCO3		12/10/2023		2930	mg/l
	Mecoprop	TM411	12/10/2023	<0.071 mg/l	0.0121	mg/l

Cell 5 Sump	Base of well/borehole/sump	Field	12/10/2023		5.9	m
			14/11/2023		5.97	m
			07/12/2023		5.96	m
	Groundwater level/dip		12/10/2023		5.19	m
			14/11/2023		5.12	m
			07/12/2023		5.1	m
	Leachate level above base of sump/pit base		12/10/2023	2m above base	0.71	m
			14/11/2023	2m above base	0.85	m
			07/12/2023	2m above base	0.86	m
	Biological oxygen demand	TM045	12/10/2023		12.6	mg/l
	Total organic carbon	TM090	12/10/2023		426	mg/l
	Ammoniacal Nitrogen as N	TM099	12/10/2023	<3,640 mg/l	642	mg/l
			14/11/2023	<3,640 mg/l	861	mg/l
			07/12/2023	<3,640 mg/l	460	mg/l
	Chemical oxygen demand (unfiltered)	TM107	12/10/2023		1380	mg/l
	Cadmium (filtered)	TM152	12/10/2023	<0.105 mg/l	0.0000987	mg/l
	Calcium (filtered)		12/10/2023		39.7	mg/l
	Chromium (filtered)		12/10/2023		0.0742	mg/l
	Copper (filtered)		12/10/2023		0.00479	mg/l
	Iron (filtered)		12/10/2023		4.56	mg/l
	Lead (filtered)		12/10/2023		0.00165	mg/l
	Magnesium (filtered)		12/10/2023		47.4	mg/l
	Manganese (filtered)		12/10/2023		0.337	mg/l
	Nickel (filtered)		12/10/2023		0.13	mg/l
	Potassium (filtered)		12/10/2023		953	mg/l
	Sodium (filtered)		12/10/2023		1680	mg/l
	Zinc (filtered)		12/10/2023		0.054	mg/l
	4-Methylphenol	TM176	12/10/2023	<0.126 mg/l	<0.02	mg/l
	Diethyl phthalate		12/10/2023	<0.36 mg/l	<0.02	mg/l

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Cell 5 Sump	Chloride	TM184	12/10/2023	<19,000 mg/l	2910	mg/l
			14/11/2023	<19,000 mg/l	4440	mg/l
			07/12/2023	<19,000 mg/l	3060	mg/l
	Sulphate		12/10/2023		189	mg/l
	Total Oxidised Nitrogen as N		12/10/2023		43.2	mg/l
	Dichloromethane	TM208	12/10/2023	<0.066 mg/l	<0.003	mg/l
	Electrical conductivity @20°C (lab)	TM256	12/10/2023		12900	µS/cm
			14/11/2023		17700	µS/cm
			07/12/2023		11900	µS/cm
	Total Alkalinity as CaCO3		12/10/2023		3260	mg/l
Cell 6 Sump	Mecoprop	TM411	12/10/2023	<0.14 mg/l	<0.004	mg/l
	Base of well/borehole/sump	Field	12/10/2023		25.6	m
			14/11/2023		25.59	m
			07/12/2023		25.58	m
	Groundwater level/dip		12/10/2023		25	m
			14/11/2023		24.72	m
			07/12/2023		24.7	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0.6	m
			14/11/2023	1.5m above base	0.87	m
			07/12/2023	1.5m above base	0.88	m
	Biological oxygen demand	TM045	12/10/2023		<10	mg/l
	Total organic carbon	TM090	12/10/2023		414	mg/l
	Ammoniacal Nitrogen as N	TM099	12/10/2023	<3,640 mg/l	3.24	mg/l
			14/11/2023	<3,640 mg/l	5.94	mg/l
			07/12/2023	<3,640 mg/l	503	mg/l
	Chemical oxygen demand (unfiltered)	TM107	12/10/2023		1530	mg/l
	Cadmium (filtered)	TM152	12/10/2023	<0.105 mg/l	<0.0008	mg/l
	Calcium (filtered)		12/10/2023		75.5	mg/l
	Chromium (filtered)		12/10/2023		0.203	mg/l

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ⁽¹⁾ ⁽⁴⁾	Unit ⁽⁵⁾
Cell 6 Sump	Copper (filtered)	TM152	12/10/2023		0.00535	mg/l
	Iron (filtered)		12/10/2023		2.77	mg/l
	Lead (filtered)		12/10/2023		0.00296	mg/l
	Magnesium (filtered)		12/10/2023		50.3	mg/l
	Manganese (filtered)		12/10/2023		0.109	mg/l
	Nickel (filtered)		12/10/2023		0.15	mg/l
	Potassium (filtered)		12/10/2023		532	mg/l
	Sodium (filtered)		12/10/2023		1350	mg/l
	Zinc (filtered)		12/10/2023		0.0713	mg/l
	4-Methylphenol	TM176	12/10/2023	<0.126 mg/l	<0.02	mg/l
	Diethyl phthalate		12/10/2023	<0.36 mg/l	<0.02	mg/l
	Chloride	TM184	12/10/2023	<19,000 mg/l	1490	mg/l
			14/11/2023	<19,000 mg/l	1580	mg/l
			07/12/2023	<19,000 mg/l	7410	mg/l
	Sulphate		12/10/2023		92.7	mg/l
	Total Oxidised Nitrogen as N		12/10/2023		89.7	mg/l
	Dichloromethane	TM208	12/10/2023	<0.066 mg/l	<0.003	mg/l
	Electrical conductivity @20°C (lab)	TM256	12/10/2023		7140	µS/cm
			14/11/2023		7280	µS/cm
			07/12/2023		22500	µS/cm
	Total Alkalinity as CaCO3		12/10/2023		1740	mg/l
	Mecoprop	TM411	12/10/2023	<0.14 mg/l	<0.004	mg/l
Cell 7 Sump	Base of well/borehole/sump	Field	12/10/2023		26.5	m
			14/11/2023		26.44	m
			07/12/2023		26.38	m
	Groundwater level/dip		12/10/2023		25.92	m
			14/11/2023		25.68	m
			07/12/2023		25.66	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0.58	m

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ⁽¹⁾ ⁽⁴⁾	Unit ⁽⁵⁾	
Cell 7 Sump	Leachate level above base of sump/pit base	Field	14/11/2023	1.5m above base	0.76	m	
			07/12/2023	1.5m above base	0.72	m	
			12/10/2023		<10	mg/l	
	Biological oxygen demand	TM045	12/10/2023		515	mg/l	
	Total organic carbon	TM090	12/10/2023		7.01	mg/l	
	Ammoniacal Nitrogen as N	TM099	12/10/2023	<3,640 mg/l	2.02	mg/l	
14/11/2023			<3,640 mg/l	1.58	mg/l		
07/12/2023			<3,640 mg/l	2140	mg/l		
	Chemical oxygen demand (unfiltered)	TM107	12/10/2023		0.000165	mg/l	
	Cadmium (filtered)	TM152	12/10/2023	<0.105 mg/l	77.5	mg/l	
	Calcium (filtered)		12/10/2023		0.309	mg/l	
	Chromium (filtered)		12/10/2023		0.00917	mg/l	
	Copper (filtered)		12/10/2023		6.49	mg/l	
	Iron (filtered)		12/10/2023		0.00569	mg/l	
	Lead (filtered)		12/10/2023		58.1	mg/l	
	Magnesium (filtered)		12/10/2023		0.406	mg/l	
	Manganese (filtered)		12/10/2023		0.145	mg/l	
	Nickel (filtered)		12/10/2023		756	mg/l	
	Potassium (filtered)		12/10/2023		1820	mg/l	
	Sodium (filtered)		12/10/2023		0.081	mg/l	
	Zinc (filtered)		12/10/2023		<0.126 mg/l	<0.02	mg/l
	4-Methylphenol	TM176	12/10/2023	<0.36 mg/l	<0.02	mg/l	
	Diethyl phthalate		12/10/2023		2000	mg/l	
	Chloride	TM184	12/10/2023	<19,000 mg/l	935	mg/l	
14/11/2023			<19,000 mg/l	630	mg/l		
07/12/2023			<19,000 mg/l	602	mg/l		
	Sulphate		12/10/2023		100	mg/l	
	Total Oxidised Nitrogen as N		12/10/2023		<0.066 mg/l	<0.003	mg/l
	Dichloromethane	TM208	12/10/2023		9050	µS/cm	
	Electrical conductivity @20°C (lab)	TM256	12/10/2023				

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Cell 7 Sump	Electrical conductivity @20°C (lab)	TM256	14/11/2023		4510	µS/cm
			07/12/2023		3030	µS/cm
	Total Alkalinity as CaCO3		12/10/2023		1600	mg/l
	Mecoprop	TM411	12/10/2023	<0.14 mg/l	<0.004	mg/l
Leachate Holding Lagoon	Base of well/borehole/sump	Field	12/10/2023		8.5	m
			14/11/2023		8.66	m
			07/12/2023		8.5	m
	Groundwater level/dip		12/10/2023		2.52	m
			14/11/2023		2.32	m
			07/12/2023		2.3	m
	Biological oxygen demand	TM045	12/10/2023		62.8	mg/l
	Total organic carbon	TM090	12/10/2023		514	mg/l
	Ammoniacal Nitrogen as N	TM099	12/10/2023	<3,640 mg/l	1170	mg/l
			14/11/2023	<3,640 mg/l	1120	mg/l
			07/12/2023	<3,640 mg/l	1020	mg/l
	Chemical oxygen demand (unfiltered)	TM107	12/10/2023		1510	mg/l
	Cadmium (filtered)	TM152	12/10/2023		<0.0008	mg/l
	Calcium (filtered)		12/10/2023		95.5	mg/l
	Chromium (filtered)		12/10/2023		0.118	mg/l
	Copper (filtered)		12/10/2023		<0.003	mg/l
	Iron (filtered)		12/10/2023		1.52	mg/l
	Lead (filtered)		12/10/2023		<0.002	mg/l
	Magnesium (filtered)		12/10/2023		73.2	mg/l
	Manganese (filtered)		12/10/2023		0.671	mg/l
	Nickel (filtered)		12/10/2023		0.142	mg/l
	Potassium (filtered)		12/10/2023		1220	mg/l
	Sodium (filtered)		12/10/2023		2060	mg/l
	Zinc (filtered)		12/10/2023		0.0199	mg/l
	4-Methylphenol	TM176	12/10/2023		<0.02	mg/l

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
Leachate Holding Lagoon	Diethyl phthalate	TM176	12/10/2023		<0.02	mg/l
	Chloride	TM184	12/10/2023	<19,000 mg/l	3960	mg/l
			14/11/2023	<19,000 mg/l	3850	mg/l
			07/12/2023	<19,000 mg/l	3770	mg/l
	Sulphate		12/10/2023		103	mg/l
	Total Oxidised Nitrogen as N		12/10/2023		<1	mg/l
	Dichloromethane	TM208	12/10/2023		<0.003	mg/l
	Electrical conductivity @20°C (lab)	TM256	12/10/2023		18600	µS/cm
			14/11/2023		19600	µS/cm
			07/12/2023		16500	µS/cm
	Total Alkalinity as CaCO3		12/10/2023		5300	mg/l
	Mecoprop	TM411	12/10/2023		0.0273	mg/l
	Base of well/borehole/sump	Field	12/10/2023		8.5	m
			14/11/2023		8.4	m
			07/12/2023		8.57	m
LMP5a	Groundwater level/dip		12/10/2023		DRY	m
			14/11/2023		DRY	m
			07/12/2023		DRY	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0	m
			14/11/2023	1.5m above base	0	m
			07/12/2023	1.5m above base	0	m
	Base of well/borehole/sump		12/10/2023		6.8	m
			14/11/2023		6.76	m
			07/12/2023		6.77	m
	Groundwater level/dip		12/10/2023		DRY	m
			14/11/2023		DRY	m
			07/12/2023		DRY	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0	m
			14/11/2023	1.5m above base	0	m
LMP5b	Groundwater level/dip		12/10/2023		DRY	m
			14/11/2023		DRY	m
			07/12/2023		DRY	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0	m
			14/11/2023	1.5m above base	0	m
			07/12/2023	1.5m above base	0	m
	Base of well/borehole/sump		12/10/2023		6.8	m
			14/11/2023		6.76	m
			07/12/2023		6.77	m
	Groundwater level/dip		12/10/2023		DRY	m
			14/11/2023		DRY	m
			07/12/2023		DRY	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0	m
			14/11/2023	1.5m above base	0	m

LMP5b	Leachate level above base of sump/pit base	Field	07/12/2023	1.5m above base	0	m
LMP6a	Base of well/borehole/sump		12/10/2023		19.2	m
			14/11/2023		19.18	m
			07/12/2023		19.2	m
	Groundwater level/dip		12/10/2023		DRY	m
			14/11/2023		DRY	m
			07/12/2023		DRY	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0	m
			14/11/2023	1.5m above base	0	m
			07/12/2023	1.5m above base	0	m
LMP7a	Base of well/borehole/sump		12/10/2023		10.5	m
			14/11/2023		10.43	m
			07/12/2023		10.46	m
	Groundwater level/dip		12/10/2023		10.3	m
			14/11/2023		10.12	m
			07/12/2023		10.1	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0.2	m
			14/11/2023	1.5m above base	0.31	m
			07/12/2023	1.5m above base	0.36	m
LMP7b	Base of well/borehole/sump		12/10/2023		4.0	m
			14/11/2023		4.1	m
			07/12/2023		4.02	m
	Groundwater level/dip		12/10/2023		3.89	m
			14/11/2023		3.62	m
			07/12/2023		3.6	m
	Leachate level above base of sump/pit base		12/10/2023	1.5m above base	0.11	m
			14/11/2023	1.5m above base	0.48	m
			07/12/2023	1.5m above base	0.42	m
M1A	Base of well/borehole/sump		12/10/2023		16.4	m

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ⁽¹⁾ ⁽⁴⁾	Unit ⁽⁵⁾
M1A	Base of well/borehole/sump	Field	14/11/2023		16.3	m
			07/12/2023		16.46	m
			12/10/2023		15.99	m
	Groundwater level/dip		14/11/2023		15.72	m
			07/12/2023		15.64	m
			12/10/2023	2m above base	0.41	m
	Leachate level above base of sump/pit base		14/11/2023	2m above base	0.58	m
			07/12/2023	2m above base	0.82	m
			12/10/2023		10.7	m
M1B	Base of well/borehole/sump	14/11/2023		10.68	m	
		07/12/2023		10.7	m	
		12/10/2023		10.46	m	
	Groundwater level/dip	14/11/2023		10.21	m	
		07/12/2023		10.33	m	
		12/10/2023	2m above base	0.24	m	
	Leachate level above base of sump/pit base	14/11/2023	2m above base	0.47	m	
		07/12/2023	2m above base	0.37	m	
		12/10/2023		19.1	m	
M2A	Base of well/borehole/sump	14/11/2023		19.1	m	
		07/12/2023		19.4	m	
		12/10/2023		DRY	m	
	Groundwater level/dip	14/11/2023		DRY	m	
		07/12/2023		DRY	m	
		12/10/2023	2m above base	0	m	
	Leachate level above base of sump/pit base	14/11/2023	2m above base	0	m	
		07/12/2023	2m above base	0	m	
		12/10/2023		19.8	m	
M2B	Base of well/borehole/sump	14/11/2023		19.77	m	
		07/12/2023		19.85	m	

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ^{(1) (4)}	Unit ⁽⁵⁾
M2B	Groundwater level/dip	Field	12/10/2023		19.3	m
			14/11/2023		19.12	m
			07/12/2023		19.11	m
	Leachate level above base of sump/pit base		12/10/2023	2m above base	0.5	m
			14/11/2023	2m above base	0.65	m
			07/12/2023	2m above base	0.74	m
M3A	Base of well/borehole/sump		12/10/2023		21.5	m
			14/11/2023		21.45	m
			07/12/2023		21.57	m
	Groundwater level/dip		12/10/2023		21.1	m
			14/11/2023		20.01	m
			07/12/2023		20	m
	Leachate level above base of sump/pit base		12/10/2023	1.8m above base	0.4	m
			14/11/2023	1.8m above base	1.44	m
			07/12/2023	1.8m above base	1.57	m
M3B	Base of well/borehole/sump		12/10/2023		15.6	m
			14/11/2023		15.55	m
			07/12/2023		15.62	m
	Groundwater level/dip		12/10/2023		15.33	m
			14/11/2023		15.07	m
			07/12/2023		15	m
	Leachate level above base of sump/pit base		12/10/2023	1.8m above base	0.27	m
			14/11/2023	1.8m above base	0.48	m
			07/12/2023	1.8m above base	0.62	m
M4A	Base of well/borehole/sump		12/10/2023		18.7	m
			14/11/2023		18.69	m
			07/12/2023		18.57	m
	Groundwater level/dip		12/10/2023		18.22	m
			14/11/2023		17.98	m

Monitoring location	Substance / parameter ⁽⁶⁾	Test method ⁽²⁾	Date ⁽³⁾	Compliance limit ⁽⁷⁾	Result ⁽¹⁾ ⁽⁴⁾	Unit ⁽⁵⁾
M4A	Groundwater level/dip	Field	07/12/2023		17.94	m
	Leachate level above base of sump/pit base		12/10/2023	1.8m above base	0.48	m
			14/11/2023	1.8m above base	0.71	m
			07/12/2023	1.8m above base	0.63	m
M4B	Base of well/borehole/sump		12/10/2023		17	m
			14/11/2023		16.87	m
			07/12/2023		16.85	m
	Groundwater level/dip		12/10/2023		16.88	m
			14/11/2023		16.81	m
			07/12/2023		16.8	m
	Leachate level above base of sump/pit base		12/10/2023	1.8m above base	0.12	m
			14/11/2023	1.8m above base	0.06	m
			07/12/2023	1.8m above base	0.05	m

(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 below ground level unless are labelled as leachate head above base of sump.

(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: 09 January 2024

(Authorised to sign as representative of
Operator)