Hawkesbury Waste Management Facility - Yearly Summary for 2022/2023

Licence number - 5293

Hawkesbury Waste Management Facility - The Driftway, South WindsorNSW 2756 Licencee - Hawkesbury City Council Public Register : https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers

Licence Period - 25th July - 24th July

LOR = Limit of Reporting NT = Not Tested



Monitoring Point 14 - BH1

Pollutant			Date Sampled					
			26/07/2022	1/08/2022	26/09/2022	31/10/2022	7/11/2022	20/12/2022
	Unit	Monitoring Frequency	Date Obtained					
Foliatant	Onic	womening rrequency						
			Sample Code					
Carbon Dioxide	% v/v	Monthy	1.2	1.2	1.3	2	18	1.2
Methane	% v/v	Monthy	0.2	0	0.5	0.5	1.3	0.3

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy	1	18.9	14	15.1	12.1	10.7
Methane	% v/v	Monthy	0.1	0	0	0	0.1	0.1

Monitoring Point 15 - BH2

				Date Sampled	Date Sampled
	Pollutant			7/11/2022	22/05/2023
		Unit	Monitoring Fraguency	Date Obtained	Date Obtained
		Unit	womening requeitcy		
				Sample Code	Sample Code
	Carbon Dioxide	% v/v	Every 6 Months	0.1	0.6
	Methane	% v/v	Every 6 Months	0	0

Monitoring Point 16 - BH3

			Date Sampled	Date Sampled
			7/11/2022	22/05/2023
Dollutant	Unit	Monitoring Fraguency	Date Obtained	Date Obtained
Pollutant	Unit	womoning riequency		
			Sample Code	Sample Code
			'	
Carbon Dioxide	% v/v	Every 6 Months	28.8	1.7

Monitoring Point 17 - BH4

			Date Sampled	Date Sampled
Pollutant			7/11/2022	22/05/2023
	Unit	Monitoring Fraguency	Date Obtained	Date Obtained
Politiant	Unit	womtoring Frequency		
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	0.1	0.3
Methane	% y/y	Every 6 Months	0	0

Monitoring Point 18 - BH5

Pollutant			Date Sampled					
			26/07/2022	1/08/2022	26/09/2022	31/10/2022	7/11/2022	20/12/2022
	Unit	Monitoring Fraguency	Date Obtained					
	Unit	Monitoring Frequency						
			Sample Code					
Carbon Dioxide	% v/v	Monthy	1.4	5.1	1.4	2.4	0.1	1.2
Vethane	% v/v	Monthy	0.9	0	0.8	1.5	0	0.5

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy	1.1	2.2	1.3	1.9	2.7	2.1
Methane	% v/v	Monthy	0.9	0.6	0.3	0.1	0.1	0.1

Monitoring Point 19 - BH6

Pollutant	Unit		Date Sampled					
			26/07/2022	1/08/2022	26/09/2022	31/10/2022	7/11/2022	20/12/2022
		Monitoring Frequency	Date Obtained					
Foliatant	Onit	Monitoring rrequency						
			Sample Code					
Carbon Dioxide% v/vMonthyMethane% v/vMonthy	Monthy	6.5	21.1	6.9	8.8	28	4.1	
	% v/v	Monthy	20.1	0	17.1	18.1	0.5	15.9

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy	6.2	23.9	15.7	9.7	10.1	12.1
Methane	% v/v	Monthy	11.2	25.1	16.1	10.7	15.1	17.1

Monitoring Point 20 - G1

Pollutant	Unit		Date Sampled					
			26/07/2022	1/08/2022	26/09/2022	31/10/2022	7/11/2022	20/12/2022
		Monitoring Frequency	Date Obtained					
		womoning rrequency						
			Sample Code					
Carbon Dioxide	% v/v Monthy	0.1	8.9	0.1	0.2	0.3	0.1	
Methane	% v/v	Monthy	0	0	0	0	0	0

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy	0.1	0.1	0.1	0.1	0.1	0.2
Methane	% v/v	Monthy	0	0	0	0	0	0

Point 21 - Gas2

Dollutont			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			26/07/2022	1/08/2022	26/09/2022	31/10/2022	7/11/2022	20/12/2022
	Unit	Monitoring Fraguency	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
Pollutant	Unit	Monitoring requency						
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide % Methane %	% v/v	Monthy			Wall not	installed		
	% v/v	Monthy	wen not installea					

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy		Wall not	incalled		0.7	0.6
Methane	% v/v	Monthy		wennot	Insulleu		0	0

Point 22 - Gas3

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
Pollutant L			26/07/2022	1/08/2022	1/08/202226/09/202231/10/20ate ObtainedDate ObtainedDate Obtained		7/11/2022	20/12/2022
	Unit	Monitoring Frequency	Date Obtained Date Obtained Date Obtained Date Obtained	Date Obtained	Date Obtained			
	Onic	womening rrequency						
			Sample Code	ample Code Sample Code Sample Code Sample Code S	Sample Code	Sample Code		
Carbon Dioxide	% v/v	Monthy			Well not	installed		
Methane	% v/v	Monthy	vven not installed					

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy		Wall not	incalled		0.3	0.5
Methane	% v/v	Monthy		wennot	Insulleu		0	0

Point 23 - Gas4

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
		26/07/2022 1/08/2022	26/09/2022	31/10/2022	7/11/2022	20/12/2022		
Pollutant	Unit	Monitoring Fraguency	Date Obtained	ained Date Obtained Date Obtained Date Obtained		Date Obtained	Date Obtained	
	Unit	Monitoring Frequency						
			Sample Code	Sample Code	1/08/2022 26/09/2022 31/1 Dbtained Date Obtained Date Obtained e Code Sample Code Sample Code Well not installed Well not installed	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	Wall not installed					
Methane	% v/v	Monthy	vven not instanea					

Waste Managment Facility - 5293

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy		Wall not	installad		1.1	0.4
Methane	% v/v	Monthy		wennot	instanea		0	0

Point 24- Gas 6

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			26/07/2022	5/07/2022 1/08/2022 26/09/2022 31/10		31/10/2022	7/11/2022	20/12/2022
Pollutant	Unit	Monitoring Fraguency	Date Obtained	Date Obtained	26/09/2022 31/10/202 Date Obtained Date Obtained Sample Code Sample Code		Date Obtained	Date Obtained
	Unit	Monitoring Frequency						
			Sample Code	1/08/2022 26/09/2022 31/10/2 ate Obtained Date Obtained Date Obtained ample Code Sample Code Sample Code Well not installed	Sample Code	Sample Code	Sample Code	
Carbon Dioxide	% v/v	Monthy			Wall not	installed		
Methane	% v/v	Monthy	Well not installed					

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy		Wall pot	incalled		0.6	0.3
Methane	% v/v	Monthy		wennot	IIISUIIEU		0	0

Point 25 - Gas interception trench

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			26/07/20221/08/202226/09/202231/10/2022Date ObtainedDate ObtainedDate ObtainedDate Obtained	26/09/2022	31/10/2022	7/11/2022	20/12/2022	
Pollutant Un	Unit	Monitoring Frequency		Date Obtained	Date Obtained			
	Onit	womening requercy						
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Well not	installed		
Methane	% v/v	Monthy	vven not installed					

Waste Managment Facility - 5293

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy		Wall not	incalled		0.9	0.5
Methane	% v/v	Monthy		wennot	Insulieu		0.1	0.1

RW1

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			26/07/2022	5/07/2022 1/08/2022 26/09/2022 31/10/20		31/10/2022	7/11/2022	20/12/2022
Pollutant U	1.1	Manitaria - Fusiona	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
	Unit	wonitoring Frequency						
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	Wall not installed					
Methane	% v/v	Monthy	wen not instaned					

			Date Sampled					
			30/01/2023	28/02/2023	28/03/2023	24/04/2023	22/05/2023	29/06/2023
			Date Obtained					
				25/05/2023	4/04/2023		15/07/2023	26/06/2023
			Sample Code					
Carbon Dioxide	% v/v	Monthy			Well not	installed		
Methane	% v/v	Monthy			wennot	Installed		

Monitoring Point 2 - DGA

			Start Date	Start Date	Start Date	Start Date
			24/05/2022	29/08/2022	8/11/2022	27/02/2023
Pollutant	Unit	Monitoring Fraguency	Data Collection Date	Data Collection Date	Data Collection Date	
	Onic	Monitoring rrequency	29/08/2022	8/11/2022	27/02/2023	24/05/2023
			Sample Code	Sample Code	Sample Code	Sample Code
Particultes deposited Matter	g/m^2/month	Quarterly	0.1	0.1	0.1	0.1

Monitoring Point 3 - DGB

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
			24/05/2022	29/08/2022	8/11/2022	27/02/2023
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
			29/08/2022	8/11/2022	27/02/2023	24/05/2023
			Sample Code	Sample Code	Sample Code	Sample Code
Particultes deposited Matter	g/m^2/month	Quarterly	0.3	0.4	1.1	0.9

Monitoring Point 4 - DGC

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
			24/05/2022	29/08/2022	8/11/2022	27/02/2023
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
			29/08/2022	8/11/2022	27/02/2023	24/05/2023
			Sample Code	Sample Code	Sample Code	Sample Code
Particultes deposited Matter	g/m^2/month	Quarterly	0.2	0.5	0.1	1.6

Monitoring Point 1 - LCH

		Di	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	24/05/2023
Pollutant	Unit	Monitoring Frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
i onutant	Onit	womening requercy			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.009		
Alkalinity (as calcium carbonate)	mg/L	Quarterly	490	630	1300	1400
Aluminium	mg/L	Yearly				2.1
Arsenic	mg/L	Yearly				0.019
Barium	mg/L	Yearly				0.45
Benzene	mg/L	Yearly				NT
Biochemical oxygen demand	mg/L	Yearly				10
Cadmium	mg/L	Yearly				0.00001
Calcium	mg/L	Quarterly	28	27	58	64
Chemical oxygen demand	mg/L	Yearly				15
Chloride	mg/L	Quarterly	140	180	520	790
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.015
Conductiviy	μS/cm	Quarterly	1,511	1,959	3,419	5264
Copper	mg/L	Yearly				0.05
Ethyl benzene	mg/L	Yearly				NT
Fluoride	mg/L	Yearly				6
Lead	mg/L	Yearly				0.02
Magnesium	mg/L	Quarterly	20	23	62	83
Manganese	mg/L	Yearly				0.3
Mercury	mg/L	Yearly				0.0001
Nitrate	mg/L	Quarterly	<0.005	<0.005	0.005	0.005
Nitrite	mg/L	Quarterly	< 0.005	< 0.005	0.005	0.005
Nitrogen (ammonia)	mg/L	Quarterly	152	60		150
Organochlorine pesticides	mg/L	Yearly				NT
Orgnochlorine pesticides	mg/L	Yearly				NT
pH	рH	Quarterly	7.22	7.09	6.66	7.03
Phosphate	mg/L	Yearly				5.4
Phosphorus (total)	mg/L	Quarterly	2.6	1.7	5.5	1.5
Potassium	mg/L	Quarterly	44	53	100	110
Sodium	mg/L	Quarterly	140	200	460	660
Sulfate	mg/L	Quarterly	2.1	3.2	5.6	16
Toluene	mg/L	Yearly				NT
Total chromium	mg/L	Yearly				0.035
Total dissolved solids	mg/L	Quarterly	650	850	1800	2400
Total Iron	mg/L	Yearly				7.5
Total organic carbon	mg/L	Yearly				120
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				NT
C10-C14	mg/L	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/L	Yearly				NT
C10-C36 (Sum)	mg/L	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xylene	mg/L	Yearly				NT
Zinc	mg/L	Yearly				0.081

Monitoring Point 5 - SW1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	24/05/2023
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
					25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.010		
Alkalinity (as calcium carbonate)	mg/L	Quarterly	32	42	17	24
Ammonia	mg/L	Quarterly	0.14	0.04	0.01	2.6
Biochemical oxygen demand	mg/L	Quarterly	<5	<5	5	5
Sulfate	mg/L	Quarterly	33	24	96	340
Total Phenolics	mg/L	Yearly				NT*

Monitoring Point 6 - GWM1

0						
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Pollutant	Unit	Monitoring froquency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Fondtant	Unit	women in the meducine in the second s			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.001		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	280	270	330	270
Aluminium	mg/L	Yearly				6.26
Ammonia	mg/L	Quarterly	<0.05	<0.05	0.01	0.15
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.103
Benzene	mg/L	Yearly				<0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0004
Calcium	mg/L	Quarterly	97	91	89	89
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10
Chloride	mg/L	Quarterly	4200	4300	2.9	4100
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.008
Conductivity	uS/cm	Quarterly	10588	11076	9879	10948
Copper	mg/L	Yearly				0.011
Ethyl benzene	mg/L	Yearly				<0.0005
Eluoride	mg/l	Yearly				8
Lead	mg/L	Yearly				0.012
Magnesium	mg/l	Quarterly	320	290	300	300
Manganese	mg/l	Yearly	510	200		0 108
Mercury	mg/l	Yearly				0.0001
Nitrogen Oxides	mg/l	Yearly				0.005
Organochlorine pesticides	mg/l	Yearly				0.005 NT
Organophosphate pesticides	mg/l	Yearly				NT
nH	nH	Quarterly	6.32	63	5 45	6 36
Phosphate	mg/l	Yearly	0.52	0.5	5.45	0.01
Phosphorus (Total)	mg/l	Quarterly	1.3	0.95	0.17	0.01
Potassium	mg/l	Quarterly	3	2.6	2.9	3
Salinity	mg/l	Quarterly	8100	8000	8000	7800
Sodium	mg/l	Quarterly	2200	2100	2000	1900
Sulfate	mg/l	Quarterly	290	300	280	270
Toluene	mg/l	Yearly	250	500	200	<0.0005
Total chromium	mg/l	Yearly				0.008
Total dissolved solids	mg/l	Quarterly	8000	8100	7400	7300
Total organic carbon	mg/L	Vearly	0000	0100	7400	1 3
Total petroleum bydrocarbons C6-C9	mg/L	Vearly				1.5 NT
C10-C14	mg/l	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/l	Yearly				NT
C10-C36 (Sum)	mg/l	Yearly				NT
Total Phenolics	mg/l	Yearly				NIT
Xvlene	mg/l	Yearly				<0.0015
Zinc	mg/l	Yearly				0.0013
						0.050

Monitoring Point 7 - GWM2

			-		-	-
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Fondtant	Onit	wontoning nequency			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.002		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	320	300	330	290
Aluminium	mg/L	Yearly				5.6
Ammonia	mg/L	Quarterly	<0.05	<0.05	<0.01	0.18
Arsenic	mg/L	Yearly				0.001
Barium	mg/L	Yearly				0.11
Benzene	mg/L	Yearly				<0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0005
Calcium	mg/L	Quarterly	120	110	110	110.00
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10
Chloride	mg/L	Quarterly	4900	5000	4700	4600
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.01
Conductivity	uS/cm	Quarterly	12912	14560	12113	12422
Copper	mg/L	Yearly				NT
Ethyl benzene	mg/L	Yearly				<0.0005
Fluoride	mg/L	Yearly				5
Lead	mg/L	Yearly				0.01
Magnesium	mg/l	Quarterly	320	310	310	310
Manganese	mg/l	Yearly	020	510	510	0.12
Mercury	mg/l	Yearly				0.0001
Nitrogen Oxides	mg/l	Yearly				0.005
Organochlorine pesticides	mg/l	Yearly				NT
Organophosphate pesticides	mg/l	Yearly				NT
nH	nH	Quarterly	5.98	6 31	4 15	6.01
Phosphate	mg/l	Yearly	5150	0.01	1120	0.01
Phosphorus (Total)	mg/l	Quarterly	2.5	0.76	3.6	12
Potassium	mg/l	Quarterly	1.3	1	1 40	1.50
Salinity	mg/l	Quarterly	8000	- 8900	8900	8400
Sodium	mg/l	Quarterly	2500	2300	2300	2300.00
Sulfate	mg/l	Quarterly	280	300	2300	2300.00
Toluene	mg/l	Yearly	200	500	250	<0.0005
Total chromium	mg/l	Yearly				0.01
Total dissolved solids	mg/l	Quarterly	8200	9000	7900	7400
Total organic carbon	mg/L	Vearly	0200	5000	7500	1 3
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				1.5 NT
C10-C14	mg/L	Yearly				
C15-C28	mg/L	Vearly				NT
C29-C36	mg/L	Vearly				
C10-C36 (Sum)	mg/L	Vearly				
Total Phenolics	mg/L	Vearly				
Xylene	mg/L	Vearly				<0.0015
Zinc	mg/L	Vearly				0.0013
200	····6/ L	rearry				0.041

Monitoring Point 8 - GWM3

•						
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Pollutant	Unit	Monitoring froquency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Pollutalit	Unit	wonitoring nequency			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.003		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	520	490	500	480
Aluminium	mg/L	Yearly				13.8
Ammonia	mg/L	Quarterly	<0.05	<0.05	0.03	<0.05
Arsenic	mg/L	Yearly				0.003
Barium	mg/L	Yearly				0.019
Benzene	mg/L	Yearly				<0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0002
Calcium	mg/L	Quarterly	140	120	130	130
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10
Chloride	mg/L	Quarterly	7500	7500	7400	7600
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.014
Conductivity	uS/cm	Quarterly	19053	18899	18071	15729
Copper	mg/L	Yearly				0.012
Ethyl benzene	mg/L	Yearly				<0.0005
Fluoride	mg/L	Yearly				4
Lead	mg/L	Yearly				0.009
Magnesium	mg/L	Quarterly	610	540	570	560
Manganese	mg/L	Yearly				0.109
Mercury	mg/L	Yearly				0.0001
Nitrogen Oxides	mg/L	Yearly				0.005
Organochlorine pesticides	mg/l	Yearly				NT
Organophosphate pesticides	mg/L	Yearly				NT
pH		Quarterly	6.61	6.48	5.9	5.85
Phosphate	mg/I	Yearly				0.01
Phosphorus (Total)	mg/L	Quarterly	0.22	0.2	0.59	0.11
Potassium	mg/L	Quarterly	3.2	2.9	3.2	3.3
Salinity	mg/l	Quarterly	13900	14100	14000	14000
Sodium	mg/L	Quarterly	3800	3400	3500	3300
Sulfate	mg/L	Quarterly	550	580	580	550
Toluene	mg/l	Yearly				<0.0005
Total chromium	mg/L	Yearly				0.012
Total dissolved solids	mg/L	Quarterly	15000	13000	14000	11000
Total organic carbon	mg/l	Yearly				1.9
Total petroleum hydrocarbons C6-C9	mg/l	Yearly				NT
C10-C14	mg/l	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/I	Yearly				NT
C10-C36 (Sum)	mg/I	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xvlene	mg/I	Yearly				<0.0015
Zinc	mg/L	Yearly				0.022
						0.011

Monitoring Point 9 - GWM4

			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Dellutant	Unit	Monitoring froquency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Poliutant	Unit	Monitoring frequency			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.004		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	96	98	100	91
Aluminium	mg/L	Yearly				13.2
Ammonia	mg/L	Quarterly	<0.05	<0.05	<0.01	0.22
Arsenic	mg/L	Yearly				0.004
Barium	mg/L	Yearly				0.012
Benzene	mg/L	Yearly				< 0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0002
Calcium	mg/L	Quarterly	24	22	22	20
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10
Chloride	mg/L	Quarterly	4100	3800	4100	3900
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.006
Conductivity	μS/cm	Quarterly	9,730	10,778	9,932	10464
Copper	mg/L	Yearly				0.006
Ethyl benzene	mg/L	Yearly				<0.0005
Fluoride	mg/L	Yearly				5
Lead	mg/L	Yearly				0.008
Magnesium	mg/L	Quarterly	320	290	300	310
Manganese	mg/L	Yearly				0.234
Mercury	mg/L	Yearly				0.0001
Nitrogen Oxides	mg/L	Yearly				0.005
Organochlorine pesticides	mg/L	Yearly				NT
Organophosphate pesticides	mg/L	Yearly				NT
pH	pН	Quarterly	6.65	7.06	5.77	5.74
Phosphate	mg/L	Yearly				0.01
Phosphorus (Total)	mg/L	Quarterly	0.36	0.07	0.03	0.11
Potassium	mg/L	Quarterly	1	0.8	1.1	1.1
Salinity	mg/L	Quarterly	7100	7200	7500	7100
Sodium	mg/L	Quarterly	2100	1800	1800	1800
Sulfate	mg/L	Quarterly	140	130	140	130
Toluene	mg/L	Yearly				< 0.0005
Total chromium	mg/L	Yearly				0.012
Total dissolved solids	mg/L	Quarterly	7800	7000	6900	6700
Total organic carbon	mg/L	Yearly				4.1
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				NT
C10-C14	mg/L	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/L	Yearly				NT
C10-C36 (Sum)	mg/L	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xylene	mg/L	Yearly				<0.0015
Zinc	mg/L	Yearly	0.032			0.032

Monitoring Point 10 - GWM6

			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Pollutant	Unit	Monitoring froquency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Foliutant	Unit	womening nequency			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.005		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	200	200	120	95
Aluminium	mg/L	Yearly				7.11
Ammonia	mg/L	Quarterly	0.01	0.13	<0.01	0.08
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.01
Benzene	mg/L	Yearly				<0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0003
Calcium	mg/L	Quarterly	42	42	18	18
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10
Chloride	mg/L	Quarterly	64	40	29	65
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.008
Conductivity	μS/cm	Quarterly	723	515	549	577
Copper	mg/L	Yearly				0.01
Ethyl benzene	mg/L	Yearly				<0.0005
Fluoride	mg/L	Yearly				6
Lead	mg/L	Yearly				0.01
Magnesium	mg/L	Quarterly	17	15	7.3	8
Manganese	mg/L	Yearly				0.11
Mercury	mg/L	Yearly				0.0001
Nitrogen Oxides	mg/L	Yearly				0.005
Organochlorine pesticides	mg/L	Yearly				NT
Organophosphate pesticides	mg/L	Yearly				NT
рН	рН	Quarterly	5.87	6.62	6.54	4.8
Phosphate	mg/L	Yearly				0.02
Phosphorus (Total)	mg/L	Quarterly	1.9	0.11	0.29	1.8
Potassium	mg/L	Quarterly	0.4	0.4	0.2	0.3
Salinity	mg/L	Quarterly	230	290	200	280
Sodium	mg/L	Quarterly	67	48	42	44
Sulfate	mg/L	Quarterly	20	12	17	17
Toluene	mg/L	Yearly				<0.0005
Total chromium	mg/L	Yearly				0.001
Total dissolved solids	mg/L	Quarterly	400	330	380	700
Total organic carbon	mg/L	Yearly				13
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				NT
C10-C14	mg/L	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/L	Yearly				NT
C10-C36 (Sum)	mg/L	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xylene	mg/L	Yearly				< 0.0015
Zinc	mg/L	Yearly	0.04			0.04

Monitoring Point 11 - GWM7

0						
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Pollutant	Unit	Monitoring froquency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Foliutant	Unit	wonitoning nequency			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.006		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	220	300	220	200
Aluminium	mg/L	Yearly				5.45
Ammonia	mg/L	Quarterly	0.01	0.02	<0.01	<0.01
Arsenic	mg/L	Yearly				0.003
Barium	mg/L	Yearly				0.1
Benzene	mg/L	Yearly				<0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0004
Calcium	mg/L	Quarterly	54	48	37	37
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10
Chloride	mg/L	Quarterly	3800	3600	3600	3200
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.005
Conductivity	uS/cm	Quarterly	9,948	10.138	8,363	9842
Copper	mg/L	Yearly	-,		-,	0.013
Ethyl benzene	mg/L	Yearly				<0.0005
Fluoride	mg/L	Yearly				3
Lead	mg/L	Yearly				0.01
Magnesium	mg/l	Quarterly	210	190	160	170
Manganese	mg/l	Yearly		150	100	0.14
Mercury	mg/l	Yearly				0.0001
Nitrogen Oxides	mg/l	Yearly				0.005
Organochlorine nesticides	mg/l	Yearly				NT
Organophosphate pesticides	mg/l	Yearly				NT
nH	nH	Quarterly	6 39	6.01	5 76	5.84
Phosphate	mg/I	Yearly	0.00	0.01	5.70	0.01
Phosphorus (Total)	mg/L	Quarterly	0.28	0.03	0.1	0.01
Potassium	mg/l	Quarterly	11	0.09	0.9	0.9
Salinity	mg/l	Quarterly	6900	7000	7100	6900
Sodium	mg/L	Quarterly	2000	1900	1800	1900
Sulfate	mg/l	Quarterly	120	140	100	81
Toluene	mg/l	Yearly	120	210	100	<0.0005
Total chromium	mg/l	Yearly				0.005
Total dissolved solids	mg/l	Quarterly	6500	7000	6100	5700
Total organic carbon	mg/L	Vearly	0500	7000	0100	1 3
Total petroleum hydrocarbons C6-C9	mg/l	Yearly				NT
	mg/L	Vearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/I	Yearly				NT
C10-C36 (Sum)	mg/l	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xylene	mg/l	Yearly				<0.0015
Zinc	mg/I	Yearly				0.0015
						0.04

Monitoring Point 12 - GWM8

		Da	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Pollutant	Unit	Monitoring froquency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Foliutant	Unit	wonitoring nequency			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.007		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	300	250	180	130
Aluminium	mg/L	Yearly				9.9
Ammonia	mg/L	Quarterly	0.52	0.26	0.04	0.43
Arsenic	mg/L	Yearly				0.001
Barium	mg/L	Yearly				0.1
Benzene	mg/L	Yearly				<0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0005
Calcium	mg/L	Quarterly	87	98	34	89
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10
Chloride	mg/L	Quarterly	3500	3800	1800	4900
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				NT
Conductivity	μS/cm	Quarterly	8,960	4,124	9,762	11759
Copper	mg/L	Yearly				0.013
Ethyl benzene	mg/L	Yearly				< 0.0005
Fluoride	mg/L	Yearly				1
Lead	mg/L	Yearly				0.09
Magnesium	mg/L	Quarterly	230	270	96	290
Manganese	mg/L	Yearly				0.11
Mercury	mg/L	Yearly				0.0001
Nitrogen Oxides	mg/L	Yearly				0.01
Organochlorine pesticides	mg/L	Yearly				NT
Organophosphate pesticides	mg/L	Yearly				NT
рН	pН	Quarterly	6.32	6.35	6.61	6.33
Phosphate	mg/L	Yearly				0.02
Phosphorus (Total)	mg/L	Quarterly	1.7	0.28	0.27	6.6
Potassium	mg/L	Quarterly	10	8.2	6.8	5.4
Salinity	mg/L	Quarterly	5400	5100	4000	8900
Sodium	mg/L	Quarterly	1900	2000	730	2300
Sulfate	mg/L	Quarterly	140	180	81	200
Toluene	mg/L	Yearly				< 0.0005
Total chromium	mg/L	Yearly				0.0005
Total dissolved solids	mg/L	Quarterly	5800	7500	3400	7600
Total organic carbon	mg/L	Yearly				14
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				NT
C10-C14	mg/L	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/L	Yearly				NT
C10-C36 (Sum)	mg/L	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xylene	mg/L	Yearly				<0.0015
Zinc	mg/L	Yearly				0.05

Monitoring Point 13 - GWM9

			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			29/08/2022	7/11/2022	27/02/2023	22/05/2023
Dellutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Pollutalit	Unit	Monitoring frequency			25/05/2023	15/07/2023
			Sample Code	Sample Code	Sample Code	Sample Code
				SE238805.008		SE247868
Alkalinity (as calcium carbonate)	mg/L	Quarterly	77	130	140	190
Aluminium	mg/L	Yearly				13.9
Ammonia	mg/L	Quarterly	0.06	0.55	0.56	0.94
Arsenic	mg/L	Yearly				0.003
Barium	mg/L	Yearly				0.01
Benzene	mg/L	Yearly				< 0.0005
Biochemical oxygen demand	mg/L	Yearly				5
Cadmium	mg/L	Yearly				0.0004
Calcium	mg/L	Quarterly	7.2	7.5	7.1	11
Carbonate	mg/L	Quarterly	<1	<1	<1	NT
Chemical oxygen demand	mg/L	Yearly				10.1
Chloride	mg/L	Quarterly	130	280	360	1000
Chlorinated volatile compound	mg/L	Yearly				<lor< td=""></lor<>
Chromium (hexavalent)	mg/L	Yearly				0.01
Cobalt	mg/L	Yearly				0.008
Conductivity	μS/cm	Quarterly	1,043	640	1,716	2371
Copper	mg/L	Yearly				0.011
Ethyl benzene	mg/L	Yearly				< 0.0005
Fluoride	mg/L	Yearly				1.5
Lead	mg/L	Yearly				0.034
Magnesium	mg/L	Quarterly	6	8.3	9.8	19
Manganese	mg/L	Yearly				0.15
Mercury	mg/L	Yearly				0.0001
Nitrogen Oxides	mg/L	Yearly				0.01
Organochlorine pesticides	mg/L	Yearly				NT
Organophosphate pesticides	mg/L	Yearly				NT
pH	рН	Quarterly	7.21	7.11	7.12	6.87
Phosphate	mg/L	Yearly				0.01
Phosphorus (Total)	mg/L	Quarterly	1.3	3.3	1.4	18
Potassium	mg/L	Quarterly	5.9	5.9	5.7	7.8
Salinity	mg/L	Quarterly	1500	1700	930	2300
Sodium	mg/L	Quarterly	100	220	250	400
Sulfate	mg/L	Quarterly	9.5	15	14	47
Toluene	mg/L	Yearly				<0.0005
Total chromium	mg/L	Yearly				0.001
Total dissolved solids	mg/L	Quarterly	370	690	750	1900
Total organic carbon	mg/L	Yearly				28
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				NT
C10-C14	mg/L	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/L	Yearly				NT
C10-C36 (Sum)	mg/L	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xvlene	mg/L	Yearly				<0.0015
Zinc	mg/L	Yearly				0.03

Polluntant Monitoring - Correction Log

EPL No: 5293

Sample Point	Pollutant	Sample Date and Time	Original Data	Corrected Data	Date Originally Published	Reason

Polluntant Monitoring - notes

EPL No: 5293

Sample Point	Pollutant	Note		
		*Surface monitoring point had limited volume (due to construction of new landfill cell),		
5 - SW1	Total Phenolic	therefore not enough water volume was available to conduct the Total Phenolic analysis.		