# Hawkesbury Waste Management Facility - Yearly Summary for 2020/21

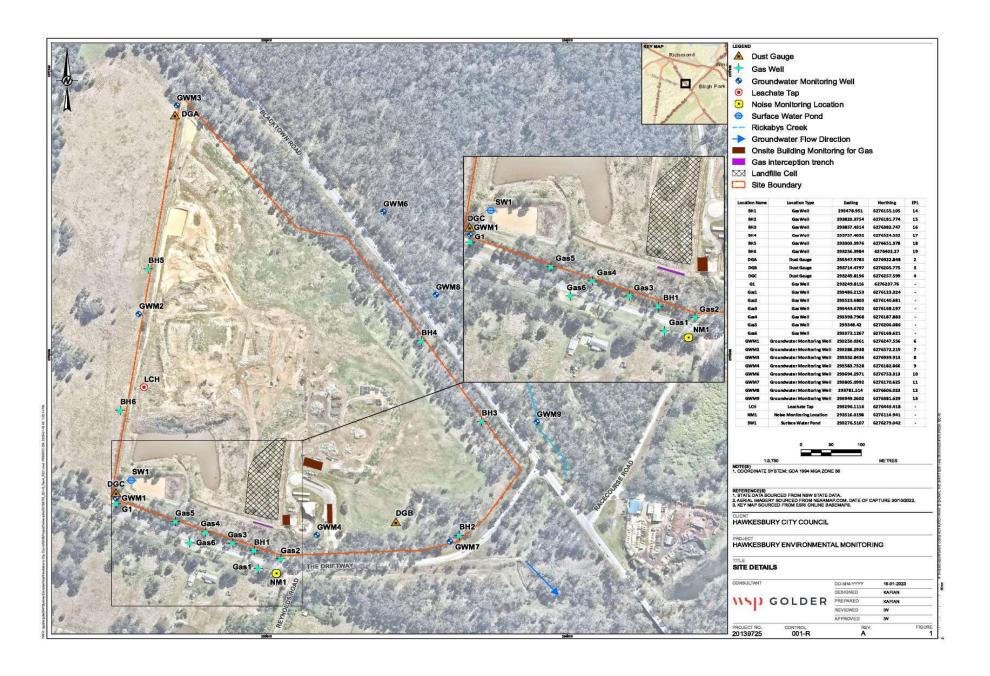
Licence number - 5293

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					
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
	Unit	Monitoring Frequency	Date Obtained					
	Offic		24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code					
Carbon Dioxide	% v/v	Monthy	4.5	2	9.4	9.6	4.9	0.3
Methane	% v/v	Monthy	10.7	0.6	0.6	0	0.1	0

			Date Sampled					
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained					
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code					
Carbon Dioxide	% v/v	Monthy	2.8	2.4	13.2	4	14.3	10.3
Methane	% v/v	Monthy	0	0	0.5	0.3	0	0

### Monitoring Point 15 - BH2

			Date Sampled	Date Sampled
Pollutant			10/02/2021	26/05/2021
	Unit	Monitoring Frequency	Date Obtained	Date Obtained
Foliatant	Offic	Worldonlig Frequency	10/02/2021	26/05/2021
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	6.5	8.2
Methane	% v/v	Every 6 Months	0	0

### Monitoring Point 16 - BH3

			Date Sampled	Date Sampled
			10/02/2021	26/05/2021
Pollutant	Unit	Monitoring Frequency	Date Obtained	Date Obtained
Foliatant	Offic	Widilitoring Frequency	10/02/2021	26/05/2021
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	3.3	6.8
Methane	% v/v	Every 6 Months	0	0

### Monitoring Point 17 - BH4

			Date Sampled	Date Sampled
Pollutant			10/02/2021	26/05/2021
	Unit	Monitoring Frequency	Date Obtained	Date Obtained
Foliatalit	Offic	Widilitoring Frequency	10/02/2021	26/05/2021
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	1	0
Methane	% v/v	Every 6 Months	0	0

### Monitoring Point 18 - BH5

			Date Sampled					
Pollutant			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
	Unit	Monitoring Frequency	Date Obtained					
	Offic	Worldonling Frequency	24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code					
Carbon Dioxide	% v/v	Monthy	17.1	14	17	15	19.3	22.3
Methane	% v/v	Monthy	21.7	15.8	14.1	0	6.4	15.3

			Date Sampled					
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained					
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code					
Carbon Dioxide	% v/v	Monthy	24.5	23	1.9	20.4	4.3	4
Methane	% v/v	Monthy	14.8	14.2	0	10.3	1.7	1.3

### Monitoring Point 19 - BH6

			Date Sampled					
Pollutant	Unit		11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
		Monitoring Frequency	Date Obtained					
		Worldonlig Frequency	24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code					
Carbon Dioxide	% v/v	Monthy	14.6	14.3	1.4	9.1	7.1	18.3
Methane	% v/v	Monthy	5.1	4.1	1.9	0	0	7.4

			Date Sampled					
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained					
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code					
Carbon Dioxide	% v/v	Monthy	7.2	5.9	1.9	22.2	22.1	12.1
Methane	% v/v	Monthy	0.3	0	8.6	33.8	29.7	19.8

### Monitoring Point 20 - G1

Pollutant			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
	Unit	Monitoring Frequency	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
	Offic		24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			4.9			
Methane	% v/v	Monthy	Well not installed					0

			Date Sampled					
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained					
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code					
Carbon Dioxide	% v/v	Monthy	NT	0	0	NT	0	0
Methane	% v/v	Monthy	NT	0	0	NT	0	0

### Point 21 - Gas2

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
Pollutant			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
	Unit	Monitoring Frequency	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
Foliutarit	Offic	Worldoning Frequency	24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	Well not installed					
Methane	% v/v	Monthy	wen not installed					

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Wallnot	installed		
Methane	% v/v	Monthy	Well not installed					

### Point 22 - Gas3

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
Pollutant Un	Unit	Monitoring Fraguency	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
Pollutalit	Oilit	Monitoring Frequency	24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
							Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Wallnot	installed		
Methane	% v/v	Monthy	Well not installed					

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy		_	Wall not	installed		
Methane	% v/v	Monthy	Well not installed					

### Point 23 - Gas4

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
Pollutant	Unit	Monitoring Frequency	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
	Unit	Worldonling Frequency	24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			24/08/2020         25/09/2020         7/10/2020         10/11/2020           Sample Code         Sample Code         Sample Code         Sample Code	Sample Code	Sample Code			
Carbon Dioxide	% v/v	Monthy	Well not installed					
Methane	% v/v	Monthy	vveii not mstanea					

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Wallnot	installad		
Methane	% v/v	Monthy	Well not installed					

### Point 24- Gas 6

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
Pollutant	Unit	Monitoring Frequency	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
ronutant	Oilit	Worldoning Frequency	24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
				Sample Code	Sample Code			
Carbon Dioxide	% v/v	Monthy			Wallnot	installed		
Methane	% v/v	Monthy	Well not installed					

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Wallnot	installed		-
Methane	% v/v	Monthy	Well not installed					

### Point 25 - Gas interception trench

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
Pollutant	Unit	Monitoring Frequency	Date Obtained	Date Obtained	Date Obtained		Date Obtained	Date Obtained
Pollutarit	Oilit	Worldoning Frequency	24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code				Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Wall not	installed		
Methane	% v/v	Monthy	Well not installed					

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Wallnot	installed		
Methane	% v/v	Monthy	Well not installed					

### RW1

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
Pollutant	l lock	NA it in Fu	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
	Unit	Monitoring Frequency	24/08/2020					15/01/2021
							Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Wallnot	installed		
Methane	% v/v	Monthy	Well not installed					

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy			Well not	installed	_	
Methane	% v/v	Monthy	Well not installed					

# **Monitoring Point 26 - Surface Methane**

			Date Sampled	Date Sampled	Date Sampled
			Nov-20	Feb-21	May-21
Pollutant	Unit	Date Obtained		Date Obtained	Date Obtained
Pollutarit	Offic	Monitoring Frequency			
			Sample Code	Sample Code	Sample Code
			0.15 to 1.10	0.05 to 2.30	
			(2 sampling	(7 sampling	
			points refer to	points refer to	
Methane	% v/v	Quarterly	notes)	notes)	<0.05

### **Monitoring Point 2 - DGA**

ľ				Start Date	Start Date	Start Date	Start Date
Pollutant					•	4/11/2020	10/02/2021
	Pollutant	Unit		Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
ı	Foliutalit			Aug 2020	Nov 2020	10/02/2021	26/05/2021
ı				Sample Code	Sample Code	Sample Code	Sample Code
ı							EN2104592-001
I	Particultes deposited Matter	g/m^2/month	Quarterly	NT	NT	1.5	1.2

### **Monitoring Point 3 - DGB**

ľ				Start Date	Start Date	Start Date	Start Date
Dollutant						4/11/2020	10/02/2021
	Pollutant	Unit	Monitoring Frequency	Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
ı	Foliutalit	Offic	Wormtorning Frequency	Aug 2020	Nov 2020	10/02/2021	26/05/2021
ı				Sample Code	Sample Code	Sample Code	Sample Code
							EN2104592-002
	Particultes deposited Matter	g/m^2/month	Quarterly	NT	NT	2.9	8.6

### **Monitoring Point 4 - DGC**

	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
					4/11/2020	10/02/2021
Pollutant			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
Foliatalit			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Sample Code	Sample Code	Sample Code	Sample Code
						EN2104592-003
Particultes deposited Matter	g/m^2/month	Quarterly	NT	NT	2.4	2.4

Monitoring Point 1 - LCH

Monitoring Point 1 - LCH			Data Canadad	D. L. C l l	Bara Carralad	Data Carralad
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020		10/02/2021	26/05/2021
Pollutant	Unit	Monitoring Frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105055-009	ES2120298-008
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	2210	
Aluminium	mg/L	Yearly				1.44
Arsenic	mg/L	Yearly				0.017
Barium	mg/L	Yearly				0.357
Benzene	mg/L	Yearly				0.003
Biochemical oxygen demand	mg/L	Yearly				15
Cadmium	mg/L	Yearly				<0.0001
Calcium	mg/L	Quarterly	NT	NT	53	
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	1150	565
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.012
Conductiviy	μS/cm	Quarterly	NT	NT	7,420	4680
Copper	mg/L	Yearly				0.044
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.8
Lead	mg/L	Yearly				0.01
Magnesium	mg/L	Quarterly	NT	NT	133	38
Manganese	mg/L	Yearly				0.206
Mercury	mg/L	Yearly				<0.001
Nitrate	mg/L	Quarterly	NT	NT	0.1	NT
Nitrite	mg/L	Quarterly	NT	NT	0.75	NT
Nitrogen (ammonia)	mg/L	Quarterly	NT	NT	nt	197
Organochlorine pesticides	mg/L	Yearly				<lor< td=""></lor<>
Orgnochlorine pesticides	mg/L	Yearly				<lor< td=""></lor<>
рН	рН	Quarterly	NT	NT	6.88	7.96
Phosphate	mg/L	Yearly				NT
Phosphorus (total)	mg/L	Quarterly	NT	NT	1.34	3.22
Potassium	mg/L	Quarterly	NT	NT	122	124
Sodium	mg/L	Quarterly	NT	NT	1120	538
Sulfate	mg/L	Quarterly	NT	NT	17	<1
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.032
Total dissolved solids	mg/L	Quarterly	NT	NT	4120	2360
Total Iron	mg/L	Yearly				6.48
Total organic carbon	mg/L	Yearly				NT
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				0.03
C10-C14	mg/L	Yearly				0.43
C15-C28	mg/L	Yearly				0.73
C29-C36	mg/L	Yearly				<100
C10-C36 (Sum)	mg/L	Yearly				1.13
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				0.03
Zinc	mg/L	Yearly				0.072
	1,116/ L					1 0.072

Monitoring Point 5 - SW1

		t Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
Pollutant	Unit		Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Foliutarit						
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-010	ES2120298-010
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	308	221
Ammonia	mg/L	Quarterly	NT	NT	0.25	<0.01
Biochemical oxygen demand	mg/L	Quarterly	NT	NT	<2	2
Sulfate	mg/L	Quarterly	NT	NT	43	20
Total Phenolics	mg/L	Yearly				<0.05

Monitoring Point 6 - GWM1

Monitoring Point 6 - GWM1			Data Campled	Data Campled	Date Sampled	Data Campled
			Date Sampled	Date Sampled Nov 2020		Date Sampled
			Aug 2020		10/02/2021	26/05/2021
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Cample Code	Cample Code	Cample Code	Cample Code
			Sample Code	Sample Code	Sample Code ES2105056-001	Sample Code ES2120298-001
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	300	
Aluminium	mg/L	Yearly	101	INI	300	6.26
Ammonia	mg/L	Quarterly	NT	NT	0.02	
Arsenic	mg/L	Yearly	INI	IVI	0.02	0.002
Barium	mg/L	Yearly				0.103
Benzene	mg/L	Yearly				<0.001
Biochemical oxygen demand	mg/L	Yearly				<0.001
, 0						0.0004
Calaium	mg/L	Yearly	NIT	NIT	02	
Calcium Carbonate	mg/L	Quarterly Quarterly	NT NT	NT NT	92	105
	mg/L	· '	NI	IN I	<1	
Chemical oxygen demand	mg/L	Yearly	NT	AIT	4220	NT
Chloride	mg/L	Quarterly	NT	NT	4320	
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.008
Conductivity	μS/cm	Quarterly	NT	NT	13400	
Copper	mg/L	Yearly				0.011
Ethyl benzene	mg/L	Yearly				<0.02
Fluoride	mg/L	Yearly				0.8
Lead	mg/L	Yearly				0.012
Magnesium	mg/L	Quarterly	NT	NT	319	
Manganese	mg/L	Yearly				0.108
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				<0.01
Organochlorine pesticides	mg/L	Yearly				<lor< td=""></lor<>
Organophosphate pesticides	mg/L	Yearly				<lor< td=""></lor<>
pH	рН	Quarterly	NT	NT	6.9	6.91
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.29	0.46
Potassium	mg/L	Quarterly	NT	NT	2	5
Salinity	mg/L	Quarterly	NT	NT	7720	7030
Sodium	mg/L	Quarterly	NT	NT	2190	1980
Sulfate	mg/L	Quarterly	NT	NT	291	302
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.008
Total dissolved solids	mg/L	Quarterly	NT	NT	9000	8790
Total organic carbon	mg/L	Yearly				6
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
,		<u>'</u>				0.002
Zinc	mg/L	Yearly				0.038

Monitoring Point 7 - GWM2

Pollutant U			Date Sampled Aug 2020	Date Sampled Nov 2020	Date Sampled	Date Sampled
Pollutant				ı Nov 2020	10/02/2021	26/05/2021
Pollutant	Jnit I		Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
			Sample Code	Sample Code	ES2105056-002	ES2120298-002
Alkalinity (as calcium carbonate) mg	g/L	Quarterly	NT	NT	308	331
	g/L	Yearly	INI	INI	308	10.8
			NIT	NT	<0.01	<0.01
	g/L g/L	Quarterly Yearly	NT	INI	<0.01	0.004
						0.004
	g/L	Yearly				<0.114
	g/L	Yearly				<0.01
,,,	g/L	Yearly				0.0001
	g/L	Yearly	N.T.	A)T	447	0.0001
	g/L	Quarterly	NT.	NT NT	117	124.00
	g/L	Quarterly	NT	NT	<1	<1 NT
	g/L	Yearly			4=00	
	g/L	Quarterly	NT	NT	1700	4470
	g/L	Yearly				NT
	g/L	Yearly				<0.01
	g/L	Yearly				0.014
	S/cm	Quarterly	NT	NT	14600	13100
	g/L	Yearly				0.011
	g/L	Yearly				<0.002
	g/L	Yearly				0.6
	g/L	Yearly				0.014
	g/L	Quarterly	NT	NT	320	305
	g/L	Yearly				0.243
,	g/L	Yearly				<0.0001
	g/L	Yearly				0.01
Organochlorine pesticides mg	g/L	Yearly				<lor< td=""></lor<>
Organophosphate pesticides mg	g/L	Yearly				<lor< td=""></lor<>
рН рН	Н	Quarterly	NT	NT	7.1	6.92
Phosphate mg	g/L	Yearly				NT
Phosphorus (Total) mg	g/L	Quarterly	NT	NT	0.58	0.52
Potassium mg	g/L	Quarterly	NT	NT	<1	2.00
Salinity	g/L	Quarterly	NT	NT	8470	7530
Sodium mg	g/L	Quarterly	NT	NT	2400	2140.00
Sulfate mg	g/L	Quarterly	NT	NT	293	298
Toluene mg	g/L	Yearly				<0.002
Total chromium mg	g/L	Yearly				0.016
Total dissolved solids mg	g/L	Quarterly	NT	NT	9740	9290
Total organic carbon mg	g/L	Yearly				<1
Total petroleum hydrocarbons C6-C9 mg	g/L	Yearly				<0.02
C10-C14 mg	g/L	Yearly				<0.05
	g/L	Yearly				<0.1
	g/L	Yearly				<0.05
	g/L	Yearly				<0.05
	g/L	Yearly				<0.05
	g/L	Yearly				<0.002
	g/L	Yearly				0.051

Monitoring Point 8 - GWM3

Monitoring Point 8 - GWM3			Data Carallal	B. J. C I. I	D. J. C I. J	But Seconded
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-003	ES2120298-003
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	542	539
Aluminium	mg/L	Yearly				6.17
Ammonia	mg/L	Quarterly	NT	NT	<0.01	<0.01
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.101
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				<0.0001
Calcium	mg/L	Quarterly	NT	NT	112	131
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	7220	6700
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.007
Conductivity	μS/cm	Quarterly	NT	NT	22200	19700
Copper	mg/L	Yearly				0.007
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.4
Lead	mg/L	Yearly				0.006
Magnesium	mg/L	Quarterly	NT	NT	578	587
Manganese	mg/L	Yearly	IVI	101	3/6	0.133
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				0.001
Organochlorine pesticides		Yearly				0.09 <lor< td=""></lor<>
	mg/L	Yearly				<lor< td=""></lor<>
Organophosphate pesticides	mg/L		NT	NIT	7.40	
pH	pH	Quarterly	NT	NT	7.18	7.11
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.08	0.17
Potassium	mg/L	Quarterly	NT	NT	2	6
Salinity	mg/L	Quarterly	NT	NT	1340	1170
Sodium	mg/L	Quarterly	NT	NT	3800	3470
Sulfate	mg/L	Quarterly	NT	NT	594	598
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				NT
Total dissolved solids	mg/L	Quarterly	NT	NT	15200	14000
Total organic carbon	mg/L	Yearly				<1
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.056

Monitoring Point 9 - GWM4

			Data Campled	Data Campled	Data Campled	Data Campled
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-004	ES2120298-004
	mg/L	Quarterly	NT	NT	95	93
Aluminium	mg/L	Yearly				7.39
Ammonia	mg/L	Quarterly	NT	NT	<0.01	<0.01
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.13
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				0.0003
Calcium	mg/L	Quarterly	NT	NT	22	27
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	4200	3940
	mg/L	Yearly				NT
	mg/L	Yearly				<0.01
	mg/L	Yearly				0.054
	μS/cm	Quarterly	NT	NT	12,300	11200
,	mg/L	Yearly				0.013
	mg/L	Yearly				<0.002
•	mg/L	Yearly				0.2
	mg/L	Yearly				0.014
	mg/L	Quarterly	NT	NT	323	319
	mg/L	Yearly	IVI	INI	323	0.023
Š	mg/L	Yearly				<0.0001
,	mg/L	Yearly				<0.001
						<0.01 <lor< td=""></lor<>
	mg/L	Yearly				
	mg/L	Yearly	NT	NT		<lor< td=""></lor<>
•	pH "	Quarterly	NT	NT	6.36	6.31
	mg/L	Yearly				NT
	mg/L	Quarterly	NT	NT	0.08	0.28
	mg/L	Quarterly	NT	NT	<1	1
,	mg/L	Quarterly	NT	NT	7030	6360
	mg/L	Quarterly	NT	NT	1990	1820
	mg/L	Quarterly	NT	NT	144	145
	mg/L	Yearly				<0.002
	mg/L	Yearly				0.01
Total dissolved solids	mg/L	Quarterly	NT	NT	7980	8220
Total organic carbon	mg/L	Yearly				2
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
	mg/L	Yearly				<0.05
	mg/L	Yearly				<0.002
•		Yearly				0.023

Monitoring Point 10 - GWM6

Monitoring Point 10 - GWM6				la		
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	11/02/2021	26/05/2021
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-006	ES2120298-006
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	148	30
Aluminium	mg/L	Yearly				NT
Ammonia	mg/L	Quarterly	NT	NT	0.06	0.2
Arsenic	mg/L	Yearly				NT
Barium	mg/L	Yearly				NT
Benzene	mg/L	Yearly				NT
Biochemical oxygen demand	mg/L	Yearly				<2
Cadmium	mg/L	Yearly				NT
Calcium	mg/L	Quarterly	NT	NT	30	12
Carbonate	mg/L	Quarterly	NT	NT	<1	NT
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	76	26
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				NT
Cobalt	mg/L	Yearly				NT
Conductivity	μS/cm	Quarterly	NT	NT	577	172
Copper	mg/L	Yearly				NT
Ethyl benzene	mg/L	Yearly				NT
Fluoride	mg/L	Yearly				NT
Lead	mg/L	Yearly				NT
Magnesium	mg/L	Quarterly	NT	NT	16	4
Manganese	mg/L	Yearly				NT
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				NT
Organochlorine pesticides	mg/L	Yearly				<lof< td=""></lof<>
Organophosphate pesticides	mg/L	Yearly				<lof< td=""></lof<>
рН	pH	Quarterly	NT	NT	7.00	6.71
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.04	<0.01
Potassium	mg/L	Quarterly	NT	NT	<1	2
Salinity	mg/L	Quarterly	NT	NT	280	172
Sodium	mg/L	Quarterly	NT	NT	71	14
Sulfate	mg/L	Quarterly	NT	NT	16	7
Toluene	mg/L	Yearly	1111	141	10	NT
Total chromium	mg/L	Yearly				NT
Total dissolved solids	mg/L	Quarterly	NT	NT	460	112
Total organic carbon	mg/L	Yearly	INI	101	400	NT NT
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				NT
C10-C14	mg/L	Yearly				NT
C10-C14 C15-C28	mg/L	Yearly				NT NT
C13-C28 C29-C36	mg/L	Yearly				NT
C10-C36 (Sum)		'				NT NT
Total Phenolics	mg/L	Yearly				NT NT
	mg/L	Yearly				NI NT
Xylene	mg/L	Yearly				
Zinc	mg/L	Yearly				NT

Monitoring Point 11 - GWM7

Monitoring Point 11 - GWM7			Data Campled	Data Campled	Data Campled	Data Campled
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
			Sample Code	Sample Code	ES2105056-007	ES2120298-007
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	176	176
Aluminium	mg/L	Yearly	INI	141	170	9.21
Ammonia	mg/L	Quarterly	NT	NT	<0.01	<0.01
Arsenic	mg/L	Yearly	IVI	141	10.01	0.05
Barium	mg/L	Yearly				0.281
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				70.01
Cadmium	mg/L	Yearly				0.003
		, , , , , , , , , , , , , , , , , , ,	NT	NT	58	78
Calcium Carbonate	mg/L	Quarterly	NT NT	NT NT	<1	/8 <1
Chemical oxygen demand	mg/L mg/L	Quarterly Yearly	INI	N1	<1	NT
			NIT	NIT	2720	3700
Chloride Chlorinated volatile compound	mg/L	Quarterly Yearly	NT	NT	3730	3700 NT
	<del></del>	· ·				
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly	NT	NT	44.400	0.007
Conductivity	-	Quarterly	NT	NT	11,100	10600
Copper	mg/L	Yearly				0.012
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				NT
Lead	mg/L	Yearly				0.016
Magnesium	mg/L	Quarterly	NT	NT	221	252
Manganese	mg/L	Yearly				0.535
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				<0.01
Organochlorine pesticides	mg/L	Yearly				<lor< td=""></lor<>
Organophosphate pesticides	mg/L	Yearly				<lor< td=""></lor<>
pH	pН	Quarterly	NT	NT	6.60	6.51
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.43	0.61
Potassium	mg/L	Quarterly	NT	NT	<1	<1
Salinity	mg/L	Quarterly	NT	NT	6300	5990
Sodium	mg/L	Quarterly	NT	NT	1850	1710
Sulfate	mg/L	Quarterly	NT	NT	108	122
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.012
Total dissolved solids	mg/L	Quarterly	NT	NT	7580	7660
Total organic carbon	mg/L	Yearly				<1
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc		Yearly				0.023

Monitoring Point 12 - GWM8

Monitoring Point 12 - GWM8						
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
Foliatalit	Oilit	Widnitoring frequency				
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-008	ES2120298-008
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	445	357
Aluminium	mg/L	Yearly				5.15
Ammonia	mg/L	Quarterly	NT	NT	0.03	0.06
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.17
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				<2
Cadmium	mg/L	Yearly				0.0002
Calcium	mg/L	Quarterly	NT	NT	127	115
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	5330	4820
Chlorinated volatile compound	mg/L	Yearly	141		3550	NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.065
Conductivity	μS/cm	Quarterly	NT	NT	16,800	14000
Copper	mg/L	Yearly	IVI	141	10,000	0.01
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.5
Lead	_	Yearly				0.006
	mg/L		NT	NT	389	326
Magnesium	mg/L	Quarterly	INT	INI	369	1.62
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				0.01
Organochlorine pesticides	mg/L	Yearly				<lor< td=""></lor<>
Organophosphate pesticides	mg/L	Yearly				<lor< td=""></lor<>
pH	pН	Quarterly	NT	NT	7.30	6.95
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.04	0.12
Potassium	mg/L	Quarterly	NT	NT	2	4
Salinity	mg/L	Quarterly	NT	NT	9860	8090
Sodium	mg/L	Quarterly	NT	NT	2930	2280
Sulfate	mg/L	Quarterly	NT	NT	257	283
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.006
Total dissolved solids	mg/L	Quarterly	NT	NT	10800	9680
Total organic carbon	mg/L	Yearly				9
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.078

Monitoring Point 13 - GWM9

Monitoring Point 13 - GWM9						
			Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
Pollutant	Unit	Monitoring frequency	Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
1 Glidtallt						
			Sample Code	Sample Code	Sample Code	Sample Code
					ES21056-009	ES2120298-009
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	644	141
Aluminium	mg/L	Yearly				25.3
Ammonia	mg/L	Quarterly	NT	NT	0.05	0.74
Arsenic	mg/L	Yearly				0.009
Barium	mg/L	Yearly				0.295
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				0.0003
Calcium	mg/L	Quarterly	NT	NT	116	16
Carbonate	mg/L	Quarterly	NT	NT		<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	6140	732
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.072
Conductivity	μS/cm	Quarterly	NT	NT	19,400	2710
Copper	mg/L	Yearly			25) 100	0.033
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.4
Lead	mg/L	Yearly				0.077
Magnesium	mg/L	Quarterly	NT	NT	381	41
Manganese	mg/L	Yearly	IVI	IVI	361	0.743
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				0.001
Organochlorine pesticides	mg/L	Yearly				<lor< td=""></lor<>
Organophosphate pesticides		Yearly				<lor< td=""></lor<>
pH	mg/L pH	Quarterly	NT	NT	7.43	7.14
•	-	. ,	INI	INI	7.43	7.14 NT
Phosphate (Tabal)	mg/L	Yearly	NT	A.T.	0.60	
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.68	2.04
Potassium	mg/L	Quarterly	NT	NT	5	11
Salinity	mg/L	Quarterly	NT	NT	1150	1400
Sodium	mg/L	Quarterly	NT	NT	3590	423
Sulfate	mg/L	Quarterly	NT	NT	366	60
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.039
Total dissolved solids	mg/L	Quarterly	NT	NT	12100	1740
Total organic carbon	mg/L	Yearly				8
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				1.49

# **Polluntant Monitoring - Correction Log**

EPL No: 5293

Sample Point	Pollutant	Sample Date and Time	Original Data	Corrected Data	Data Corrected	Date Originally Published
Monitoring Point 26	Methane	2020-2021	-	Refer to table.	Jul-24	Data not originally published.

# **Monitoring Point 26 - Further Information**

Reporting Year	Monitoring Date	Methane Concentration (ppm)	%	Southing Easting		Comments	
2020	00 Nov-20		0.15	33°37′54″	150°46′17″	Evidence of cracking and subsidence.	
20	1404-20	11,000	1.10	33°37′55″	150°46′18″	Near eroded gully.	
	Feb-21	520	0.05	33°37′44″	150° 46′25″	Northern portion of site. Evidence of slight vegetation stress.	
		4,200	0.42	33°37′39″	150° 46′23″	Near surface water dam on North-eastern boundary. Evidence of vegatation stress.	
		2,400	0.24	33°37′52″	150° 46′17″	Western boundary. Evidence of vegetaion stress.	
2021		23,000	2.30	33°37′46″	150° 46′27″	Eastern boundary. Evidence of vegetaion stress.	
		2,000	0.20	33°37′46″	150° 46′28″	Eastern boundary. Evidence of vegetaion stress.	
		11,000	1.10	33°37′47″	150° 46′30″	Near access road along eastern boundary. Evidence of vegetaion stress.	
		2,040	0.20	33°37′53″	150° 46′35″	Near grove of trees along eastern boundary. Evidence of vegetaion stress.	
	May-21	<500	<0.05%	N/A	N/A	N/A	