Hawkesbury Waste Management Facility - Yearly Summary for 2024-25 (commencing September 2024)

Licence number - 5293

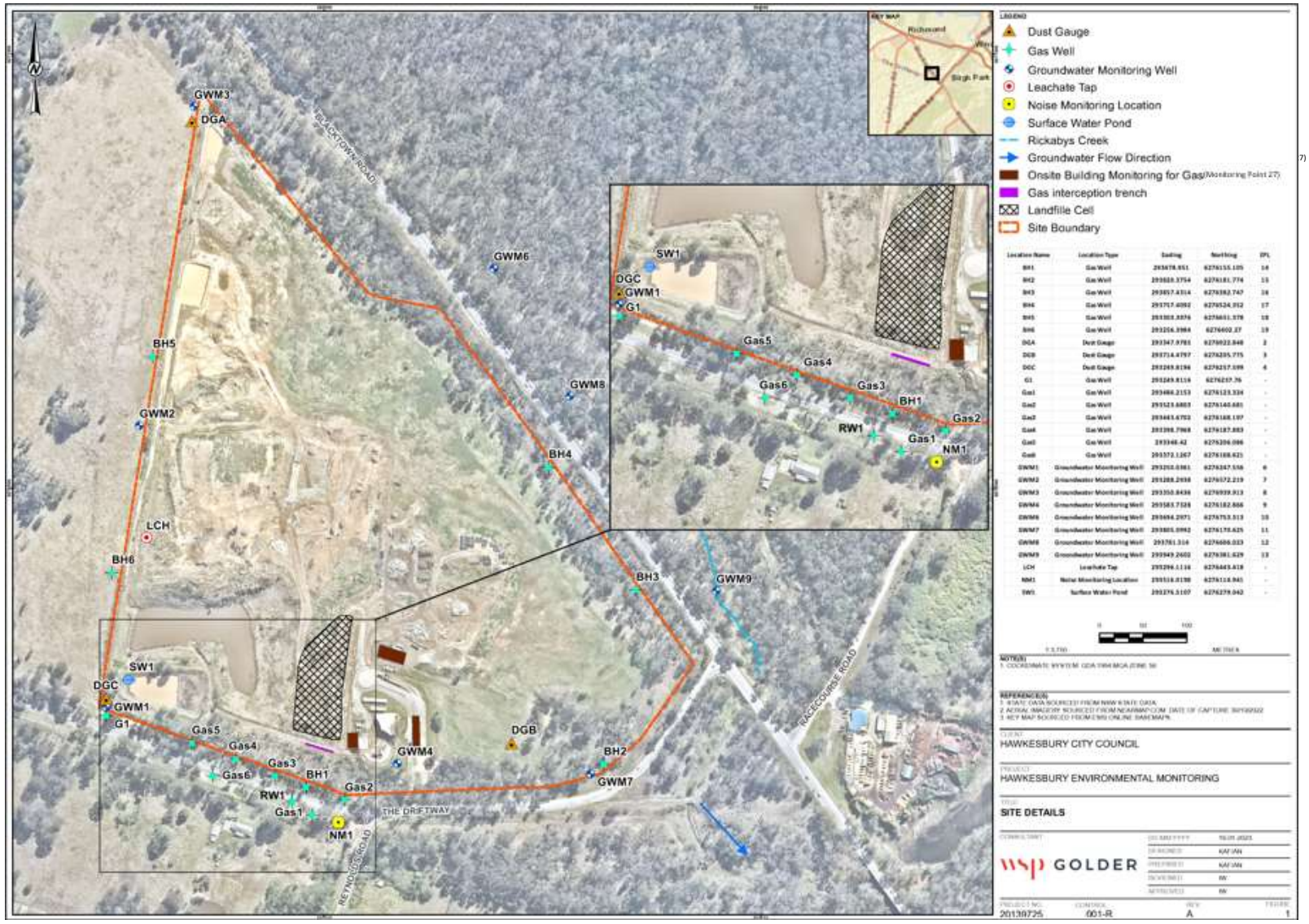
Hawkesbury Waste Management Facility - The Driftway, South WindsorNSW 2756 Licencee - Hawkesbury City Council

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


LEGEND
Dust Gauge
Gas Well
Groundwater Monitoring Well
Leachate Tap
Noise Monitoring Location
Surface Water Pond
Rickabys Creek
Groundwater Flow Direction
Onsite Building Monitoring for Gas (Monitoring Point 27)
Gas interception trench
Landfille Cell
Site Boundary
GWM3
DGA
GWM6
SW1
DGC
GWM1
G1
Gas5
Gas4
Gas6
Gas3
BH1
Gas2
RW1
Gas1
NM1
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GWM9
DGB
GWM4
BH2
GWM7
THE DRIFTWAY
REYNOLDS ROAD
RACECOURSE ROAD
HAWKESBURY CITY COUNCIL
HAWKESBURY ENVIRONMENTAL MONITORING
SITE DETAILS
GOLDER
20139725
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Waste Managment Facility - 5293

Monitoring Point 14 - BH1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	0.5	18.7	20	1	1.4	0.2	0.2	0.1	20.7	0.8	0.2
Methane	% v/v	Monthy	0	5.4	4.4	0	0	0	0	0	0.7	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Monitoring Point 15 - BH2

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled
			Date Obtained	Date Obtained
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months		
Methane	% v/v	Every 6 Months		

Monitoring Point 16 - BH3

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled
			26.11.2024	27.02.2025	27.05.2025
			Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	3.5	0.6	6.6
Methane	% v/v	Every 6 Months	0	0	0

Monitoring Point 17 - BH4

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled
			26.11.2024	27.02.2025	27.05.2025
			Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	1.3	1	2.2
Methane	% v/v	Every 6 Months	0	0	0

Monitoring Point 18 - BH5

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	27.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	0.3	9.5	0.2	0	0.2	0.1	0.2	3.2	0.2	0.3	0.3

Methane	% v/v	Monthy	0	7.1	0.1	0	0	0	0	0	0.1	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Monitoring Point 19 - BH6

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	27.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	0.2	1.5	0.4	0.2	0.3	0.1	0.2	0.3	0.1	0.9	0.6
Methane	% v/v	Monthy	0	0.2	0	0	0	0	0	0	0.1	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Monitoring Point 20 - G1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	27.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	0.3	12.3	6.8	0.1	0.1	0.1	0.1	0.1	0.1	0.2	5.2
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0.1	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Point 21 - Gas2

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code

Carbon Dioxide	% v/v	Monthy	0.3	5.5	7.1	0.1	0.1	0.1	0.2	0.1	5.7	6.9	0.2
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Point 22 - Gas3

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	0.6	0.5	0.4	0.9	0.9	0.3	1.5	0.5	7.4	3.3	0.9
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Point 23 - Gas4

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	3.8	4.9	5.4	3.7	2.3	2.3	5.4	2.7	6.5	2.5	0.8
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Point 24- Gas 6

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained

Pollutant	Unit	Monitoring Frequency	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	3.6	5	5	3.4	4.1	0.1	0.6	4.8	6.1	5.9	5.6
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Point 25 - Gas interception trench

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	0	0	0.1	0	0	0.1	0.1	0	0.1	0.1	0.1
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

RW1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	5.4	15	17.9	0.2	0.4	0.2	3.3	0.1	14.5	0.4	0.6
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0.1	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Gas1

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Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.02.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	4.1	7.3	6.5	3.4	3	2	5.3	4	7.5	1.6	7.1
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0.8	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Gas5

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			30.09.2024	31.10.2024	26.11.2024	16.12.2024	23.01.2025	25.05.2025	31.03.2025	23.04.2025	27.05.2025	12.06.2025	14.07.2025
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy	5.6	6.5	5.1	3.2	1.2	0.1	1.9	0.7	7.7	2.4	2.1
Methane	% v/v	Monthy	0	0	0	0	0	0	0	0	0	0	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthy						
Methane	% v/v	Monthy						

Point 27 - Inside all buildings	Unit	Monitoring Frequency	Date Sampled 26.11.2024 Date Data Obtained Sample Code	Date Sampled 27.5.2025 Date Data Obtained Sample Code	Date Sampled Date Data Obtained Sample Code	Date Sampled Date Data Obtained Sample Code
HCC Lunch Room Demountable						
Methane	% v/v	Quarterly	0	0		
HCC Toliet Demountable						
Methane	% v/v	Quarterly	0	0		
Recycling Shed						
Methane	% v/v	Quarterly	0	0		
Gatehouse/ Weighbridge						
Methane	% v/v	Quarterly	0	0		
Tools Storage Shed						
Methane	% v/v	Quarterly	0	0		
Equipment Shed						
Methane	% v/v	Quarterly	0	0		

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Monitoring Point 2 - DGA

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
			26.11.2024	27.03.2025		
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
				26.5.2025		
			Sample Code	Sample Code	Sample Code	Sample Code
Particulates deposited Matter	g/m^2/month	Quarterly	<0.3	<0.3		

Monitoring Point 3 - DGB

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
			26.11.2024	27.03.2025		
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
				26.5.2025		
			Sample Code	Sample Code	Sample Code	Sample Code
Particulates deposited Matter	g/m^2/month	Quarterly	0.7	0.3		

Monitoring Point 4 - DGC

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
			26.11.2024	27.03.2025		
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
				26.5.2025		
			Sample Code	Sample Code	Sample Code	Sample Code
Particulates deposited Matter	g/m^2/month	Quarterly	<0.3	<0.3		

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Monitoring Point 1 - LCH

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			26.11.2024	26.05.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Note: Unable to be sampled due to leachate pumps offline.			
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	-	<5		
Aluminium	mg/L	Yearly				
Arsenic	µg/L	Yearly		8		
Barium	mg/L	Yearly				
Benzene	mg/L	Yearly		0.6		
Biochemical oxygen demand	mg/L	Yearly		13		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	-	110		
Chemical oxygen demand	mg/L	Yearly		390		
Chloride	mg/L	Quarterly	-	1200		
Chromium (hexavalent)	µg/L	Yearly		18		
Cobalt	mg/L	Yearly				
Conductiviy	µS/cm	Quarterly	-			
Copper	µg/L	Yearly		19		
Ethyl benzene	mg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	-	170		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrate	mg/L	Quarterly	-	6.2		
Nitrite	mg/L	Quarterly	-	0.13		
Nitrogen (ammonia)	mg/L	Quarterly	-	160		
Organochlorine pesticides	µg/L	Yearly		<1		
Orgnochlorine pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (total)	mg/L	Quarterly	-	1.2		
Potassium	mg/L	Quarterly	-	140		
Sodium	mg/L	Quarterly	-	990		
Sulfate	mg/L	Quarterly	-	200		
Toluene	mg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	-	4000		
Total Iron	mg/L	Yearly				
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	mg/L	Yearly		<0.04		
C10-C14	mg/L	Yearly		0.47		
C15-C28	mg/L	Yearly		1.4		
C29-C36	mg/L	Yearly		<0.2		
C10-C40 (Sum)	mg/L	Yearly		2		
Total Phenolics	mg/L	Yearly				
Xylene	mg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		24		

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Monitoring Point 5 - SW1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			26.11.2024	26.05.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	320	100		
Ammonia	mg/L	Quarterly	0.6	0.51		
Biochemical oxygen demand	mg/L	Quarterly	5	<5		
Sulfate	mg/L	Quarterly	51	92		
Total Phenolics	mg/L	Yearly				

Monitoring Point 6 - GWM1

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.05.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	320	350		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	<0.05	<0.05		
Arsenic	µg/L	Yearly		<1		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	92	90		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		16		
Chloride	mg/L	Quarterly	4700	4600		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	12000	12000		
Copper	µg/L	Yearly		1		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	330	390		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	0.12	0.49		
Potassium	mg/L	Quarterly	2.5	3.1		
Salinity	mg/L	Quarterly	8100	7800		
Sodium	mg/L	Quarterly	2100	2300		
Sulfate	mg/L	Quarterly	300	300		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	8900	8300		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		<50		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C40 (Sum)	µg/L	Yearly		<320		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		7		

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Monitoring Point 7 - GWM2

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.5.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	210	340		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	0.02	<0.05		
Arsenic	µg/L	Yearly		<1		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	100	110		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		30		
Chloride	mg/L	Quarterly	3500	4700		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	9200	12000		
Copper	µg/L	Yearly		<1		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	290	380		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	0.19	1.7		
Potassium	mg/L	Quarterly	1.1	1.1		
Salinity	mg/L	Quarterly	5900	8000		
Sodium	mg/L	Quarterly	1900	2400		
Sulfate	mg/L	Quarterly	200	260		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	6000	8700		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		61		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C36 (Sum)	µg/L	Yearly		<320		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		<5		

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Monitoring Point 8 - GWM3

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.5.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	540	570		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	<0.05	<0.05		
Arsenic	µg/L	Yearly		<1		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	120	110		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		35		
Chloride	mg/L	Quarterly	8000	7700		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	19000	19000		
Copper	µg/L	Yearly		<1		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	610	630		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	0.34	0.09		
Potassium	mg/L	Quarterly	2.7	3.3		
Salinity	mg/L	Quarterly	12000	12000		
Sodium	mg/L	Quarterly	3700	3800		
Sulfate	mg/L	Quarterly	600	570		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	15000	14000		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		<50		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C36 (Sum)	µg/L	Yearly		<320		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		5		

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Monitoring Point 9 - GWM4

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.5.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	93	92		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	<0.05	<0.05		
Arsenic	µg/L	Yearly		<1		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	22	21		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		30		
Chloride	mg/L	Quarterly	4000	4200		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	10000	11,000		
Copper	µg/L	Yearly		<1		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	290	390		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	0.05	0.07		
Potassium	mg/L	Quarterly	1.6	0.8		
Salinity	mg/L	Quarterly	6700	7300		
Sodium	mg/L	Quarterly	1700	1900		
Sulfate	mg/L	Quarterly	140	140		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	7100	7500		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		110		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C36 (Sum)	µg/L	Yearly		330		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		7		

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Monitoring Point 10 - GWM6

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.5.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	190	90		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	<0.01	<0.01		
Arsenic	µg/L	Yearly		<1		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	36	21		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		46		
Chloride	mg/L	Quarterly	46	62		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	510	520		
Copper	µg/L	Yearly		2		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	13	11		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	0.11	0.44		
Potassium	mg/L	Quarterly	0.2	0.4		
Salinity	mg/L	Quarterly	330	340		
Sodium	mg/L	Quarterly	42	51		
Sulfate	mg/L	Quarterly	17	12		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	340	330		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		<50		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C36 (Sum)	µg/L	Yearly		<320		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		<5		

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Monitoring Point 11 - GWM7

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.5.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	210	200		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	0.02	0.03		
Arsenic	µg/L	Yearly		<1		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		0.3		
Calcium	mg/L	Quarterly	40	39		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		34		
Chloride	mg/L	Quarterly	3900	3600		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	10000	10,000		
Copper	µg/L	Yearly		<1		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	180	190		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	1.3	0.87		
Potassium	mg/L	Quarterly	0.4	1.2		
Salinity	mg/L	Quarterly	6600	6500		
Sodium	mg/L	Quarterly	1900	1800		
Sulfate	mg/L	Quarterly	100	84		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	6700	6500		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		<50		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C36 (Sum)	µg/L	Yearly		<320		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		41		

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Monitoring Point 12 - GWM8

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.5.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	540	460		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	0.23	0.12		
Arsenic	µg/L	Yearly		2		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	130	120		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		230		
Chloride	mg/L	Quarterly	6200	5900		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	15000	15,000		
Copper	µg/L	Yearly		<1		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	390	480		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	4.7	1.6		
Potassium	mg/L	Quarterly	2.7	4		
Salinity	mg/L	Quarterly	9500	9900		
Sodium	mg/L	Quarterly	2700	3000		
Sulfate	mg/L	Quarterly	240	270		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	10000	11000		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		<50		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C36 (Sum)	µg/L	Yearly		<320		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		200		

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Monitoring Point 13 - GWM9

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			24.11.2024	26.5.2025		
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
Alkalinity (as calcium carbonate)	mg/L	Quarterly	160	280		
Aluminium	mg/L	Yearly				
Ammonia	mg/L	Quarterly	0.17	0.12		
Arsenic	µg/L	Yearly		<1		
Barium	mg/L	Yearly				
Benzene	µg/L	Yearly		<0.5		
Biochemical oxygen demand	mg/L	Yearly		<5		
Cadmium	µg/L	Yearly		<0.1		
Calcium	mg/L	Quarterly	39	48		
Carbonate	mg/L	Quarterly	<1			
Chemical oxygen demand	mg/L	Yearly		50		
Chloride	mg/L	Quarterly	2000	3300		
Chlorinated volatile compound	mg/L	Yearly				
Chromium (hexavalent)	µg/L	Yearly		<1		
Cobalt	mg/L	Yearly				
Conductivity	µS/cm	Quarterly	5700	9,500		
Copper	µg/L	Yearly		<1		
Ethyl benzene	µg/L	Yearly		<0.5		
Fluoride	mg/L	Yearly				
Lead	µg/L	Yearly		<1		
Magnesium	mg/L	Quarterly	100	150		
Manganese	mg/L	Yearly				
Mercury	mg/L	Yearly		<0.0001		
Nitrogen Oxides	mg/L	Yearly				
Organochlorine pesticides	µg/L	Yearly		<1		
Organophosphate pesticides	µg/L	Yearly		<1		
pH	pH	Quarterly	-			
Phosphate	mg/L	Yearly				
Phosphorus (Total)	mg/L	Quarterly	0.76	0.27		
Potassium	mg/L	Quarterly	7.8	9.5		
Salinity	mg/L	Quarterly	3700	6200		
Sodium	mg/L	Quarterly	1300	1600		
Sulfate	mg/L	Quarterly	80	120		
Toluene	µg/L	Yearly		<0.5		
Total chromium	mg/L	Yearly				
Total dissolved solids	mg/L	Quarterly	3400	6000		
Total organic carbon	mg/L	Yearly				
Total petroleum hydrocarbons C6-C9	µg/L	Yearly		<40		
C10-C14	µg/L	Yearly		<50		
C15-C28	µg/L	Yearly		<200		
C29-C36	µg/L	Yearly		<200		
C10-C36 (Sum)	µg/L	Yearly		<320		
Total Phenolics	mg/L	Yearly				
Xylene	µg/L	Yearly		<1.5		
Zinc	µg/L	Yearly		27		

Polluntant Monitoring - Correction Log

EPL No: 5293

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