

Monitoring Point - G1					Monthly Gas												Statistical Analysis		
EPA ID No. - 62					Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Min	Mean	Max
Parameter	Units	No. of samples required	No. of assessments	No. of samples collected & analysed															
Methane	%/v	12	12	12	46.3	27.8	60.3	47.2	62.1	39.9	29.5	22.7	2.9	30.8	48	42.3	2.9	38.3	62.1
Carbon dioxide	%/v	12	12	12	26.3	19	25.2	20.5	56.3	15.4	16.3	12.8	1.3	19.6	28	26.5	1.3	22.3	56.3

Parameter	Units Mean	EPA ID No	No. of samples required	No. of assessments	No. of samples collected	Biannual Gas		Statistical Analysis				
						Actual Results & Max	Absolute Results Apr-22 Oct-22	Apr-22	Oct-22	Min		
Methane	%v	65	2	2	2	0.2	0.5	0.2	0.5	0.2	0.4	0.5
		66	2	2	2	0.2	0.6	0.2	0.6	0.2	0.4	0.6
		67	2	2	2	0.0	0.4	0.0	0.4	0.0	0.2	0.4
		68	2	2	2	0.2	0.5	0.2	0.5	0.2	0.4	0.5
		69	2	1	1	*	0.4	*	0.4	0.4	0.4	0.4
		85	2	2	2	0.0	1.0	0.0	1.0	0.0	0.5	1.0
		86	2	2	2	0.2	0.7	0.2	0.7	0.2	0.5	0.7

EPA ID No. 69 - Gas well repaired between May and Oct 2022

						Quarterly Dust										Statistical Analysis		
Parameter	Units	EPA ID No.	No. of samples required	No. of assessments	No. of samples collected & analysed	Actual Results				Absolute Results				Min	Mean	Max		
						Apr-22	Jul-22	Oct-22	Jan-23	Apr-22	Jul-22	Oct-22	Jan-23					
Total Solid Particles	g/m ² /month	89	4	4	4	1.2	1.0	32.4	34.0	1.2	1.0	32.4	34.0	1.0	17.2	34.0		
		90	4	4	4	5.8	0.9	2.5	3.7	5.8	0.9	2.5	3.7	0.9	3.2	5.8		
		91	4	4	4	3.2	5.3	2.3	32.3	3.2	5.3	2.3	32.3	2.3	10.8	32.3		
		92	4	4	4	1.0	1.1	2.3	2.3	1.0	1.1	2.3	2.3	1.0	1.7	2.3		
		93	4	4	4	8.7	7.4	3.0	10.8	8.7	7.4	3.0	10.8	3.0	7.5	10.8		
		94	4	4	4	8.2	74.5	87.1	51.1	8.2	74.5	87.1	51.1	8.2	55.2	87.1		

Monitoring Point - BH45 EPA ID No. - 15		No. of samples assessment collected	Biannual Groundwater Actual Results				Statistical Analysis Absolute Results				
Parameter	Units		No. of samples required	No. of s	&	Apr-22	Oct-22	Apr-22	Oct-22	Min	Mean
Standing Water Level	m BTOC	2	2	2	-5.95	-5.78	-5.95	-5.78	-5.95	-5.865	-5.78
Ammonia	mg/L	2	2	2	3.1	0.70	3.1	0.7	0.7	1.9	3.1
Bicarbonate	mg/L	2	2	2	95	69	95	69	69	82	95
Calcium	mg/L	2	2	2	3	2	3	2	2	2.5	3
Chloride	mg/L	2	2	2	263	231	263	231	231	247	263
Flouride	mg/L	2	2	2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Iron	mg/L	2	2	2	1.69	0.42	1.69	0.42	0.42	1.055	1.69
Magnesium	mg/L	2	2	2	8	7	8	7	7	7.5	8
Manganese	mg/L	2	2	2	0.03	0.061	0.03	0.061	0.03	0.0455	0.061
Nitrate	mg/L	2	2	2	0.26	1.24	0.26	1.24	0.26	0.75	1.24
pH	pH unit	2	2	2	6.84	6.52	6.84	6.52	6.52	6.68	6.84
Potassium	mg/L	2	2	2	2	<1	0.5	0.5	0.5	0.5	0.5
Sodium	mg/L	2	2	2	179	169	179	169	169	174	179
Sulfate	mg/L	2	2	2	22	20	22	20	20	21	22
Total Dissolved Solids	mg/L	2	2	2	556	514	556	514	514	535	556
Total Organic Carbon	mg/L	2	2	2	7	#N/A	7	#N/A	#N/A	#N/A	#N/A
Total Phenolics	µg/L	2	2	2	<0.05	<0.05	0.025	0.025	0.025	0.025	0.025
Zinc	mg/L	2	2	2	0.076	0.100	0.076	0.1	0.076	0.088	0.1

*Dry or insufficient sample

Monitoring Point - BH46 EPA ID No. - 16		No. of samples assessment collected	Biannual Groundwater Actual Results				Statistical Analysis Absolute Results				
Parameter	Units		No. of samples required	No. of s	&	Apr-22	Oct-22	Apr-22	Oct-22	Min	Mean
Standing Water Level	m BTOC	2	2	0	*	*	*	*	0	#DIV/0!	0
Ammonia	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Bicarbonate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Calcium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Chloride	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Flouride	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Iron	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Magnesium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Manganese	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Nitrate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
pH	pH unit	2	2	0	-	-	-	-	0	#DIV/0!	0
Potassium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Sodium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Sulfate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Dissolved Solids	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Organic Carbon	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Phenolics	µg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Zinc	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0

*Dry or insufficient sample

Monitoring Point - BH16S EPA ID No. - 23		No. of samples assessment collected	Biannual Groundwater Actual Results				Statistical Analysis Absolute Results				
Parameter	Units		No. of samples required	No. of s	&	Apr-22	Oct-22	Apr-22	Oct-22	Min	Mean
Standing Water Level	m BTOC	2	2	0	*	*	*	*	0	#DIV/0!	0
Ammonia	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Bicarbonate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Calcium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Chloride	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Flouride	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Iron	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Magnesium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Manganese	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Nitrate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
pH	pH unit	2	2	0	-	-	-	-	0	#DIV/0!	0
Potassium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Sodium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Sulfate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Dissolved Solids	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Organic Carbon	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Phenolics	µg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Zinc	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0

*Dry or insufficient sample

Monitoring Point - BH16D EPA ID No. - 23		No. of samples assessment collected	Biannual Groundwater Actual Results				Statistical Analysis Absolute Results				
Parameter	Units		No. of samples required	No. of s	&	Apr-22	Oct-22	Apr-22	Oct-22	Min	Mean
Standing Water Level	m BTOC	2	2	0	*	*	*	*	0	#DIV/0!	0
Ammonia	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Bicarbonate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Calcium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Chloride	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Flouride	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Iron	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Magnesium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Manganese	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Nitrate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
pH	pH unit	2	2	0	-	-	-	-	0	#DIV/0!	0
Potassium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Sodium	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Sulfate	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Dissolved Solids	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Organic Carbon	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Total Phenolics	µg/L	2	2	0	-	-	-	-	0	#DIV/0!	0
Zinc	mg/L	2	2	0	-	-	-	-	0	#DIV/0!	0

*Dry or insufficient sample

Parameter	Units	Sample Date	Annual Groundwater													
			EPA ID No.													
			35	41	42	78	96	97	98	99	100	101	102	103	104	105
Standing Water Level	m BTOC	Oct-22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ammonia	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bicarbonate	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Benzene	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flouride	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	pH unit	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbon	µg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phenolics	µg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene	µg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	Oct-22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
No. of samples required			1	1	1	1	1	1	1	1	1	1	1	1	1	1
No. of assessments			1	1	1	1	1	1	1	1	1	1	1	1	1	1
No. of samples collected & analysed			0	0	0	0	0	0	0	0	0	0	0	0	0	0

*Dry or insufficient sample

Special Frequency 1 - Surface Waters								
EPA ID No.								
Parameter	Units	Date	47	51	52	60	87	88
Ammonia	mg/L	-	0.09	0.23	0.03	0.02	1.33	0.05
Bicarbonate	mg/L	-	177	36	46	31	75	100
BOD	mg/L	-	4	5	4	8	2	3
Calcium	mg/L	-	33	8	4	7	8	12
Chloride	mg/L	-	21	55	26	9	33	41
Flouride	mg/L	-	0.2	0.1	0.2	0.2	0.3	0.3
Iron	mg/L	-	1.02	26.2	54.6	4.63	5.86	5.88
Magnesium	mg/L	-	9	3	2	3	5	6
Manganese	mg/L	-	0.274	1.02	2.31	0.327	0.712	0.257
Nitrate	mg/L	-	1.1	0.03	<0.01	0.02	1.14	2.07
pH	pH units	-	8.24	7.04	7.03	7.01	7.63	7.72
Potassium	mg/L	-	20	8	1	7	6	7
Sodium	mg/L	-	38	47	29	10	35	44
Sulfate	mg/L	-	10	27	<1	22	<1	3
Total Dissolved Solids	mg/L	-	305	998	235	195	181	270
Total Organic Carbon	mg/L	-	26	26	26	17	20	21
Total Suspended Solids	mg/L	-	19	61	773	88	55	46
Zinc	mg/L	-	<0.005	0.066	0.039	0.01	<0.005	<0.005
No. of samples required			#	#	#	#	#	#
No. of assessments			1	1	1	1	1	1
No. of samples collected & analysed			0	0	0	0	0	0

SF1 - Following rainfall events of >30mm in <4hrs (22/01/2023)

- Dry or insufficient sample