

Permit Number	EPR/AB3101MW	Operator	Cuadrilla Bowland Limited
Facility	Preston New Road Exploration Site	Form Number	Groundwater 1

Substance/ Parameter	BH01 (B)				
	Units	Test Method	Trigger Level	Jan-17	Feb-17
Dissolved Aluminium [#]	ug/l	TM30/PM14	TBC	20	20
Dissolved Antimony [#]	ug/l	TM30/PM14	TBC	2	2
Dissolved Arsenic [#]	ug/l	TM30/PM14	TBC	5.9	2.5
Dissolved Barium [#]	ug/l	TM30/PM14	TBC	397	365
Dissolved Beryllium	ug/l	TM30/PM14	TBC	0.5	0.5
Dissolved Boron	ug/l	TM30/PM14	TBC	29	30
Dissolved Cadmium [#]	ug/l	TM30/PM14	TBC	0.5	0.5
Dissolved Calcium [#]	mg/l	TM30/PM14	TBC	104.1	113
Total Dissolved Chromium [#]	ug/l	TM30/PM14	TBC	1.5	1.5
Dissolved Cobalt [#]	ug/l	TM30/PM14	TBC	2	2
Dissolved Copper [#]	ug/l	TM30/PM14	TBC	7	7
Total Dissolved Iron [#]	ug/l	TM30/PM14	TBC	197	20
Dissolved Lead [#]	ug/l	TM30/PM14	TBC	5	5
Dissolved Lithium	ug/l	TM30/PM14	TBC	9	11
Dissolved Magnesium [#]	mg/l	TM30/PM14	TBC	38.6	37.7
Dissolved Mercury [#]	ug/l	TM30/PM14	TBC	1	1
Dissolved Nickel [#]	ug/l	TM30/PM14	TBC	2	2
Dissolved Potassium [#]	mg/l	TM30/PM14	TBC	2.1	2.1
Dissolved Selenium [#]	ug/l	TM30/PM14	TBC	3	3
Dissolved Silver	ug/l	TM30/PM14	TBC	5	5
Dissolved Sodium [#]	mg/l	TM30/PM14	TBC	37.1	35.9
Dissolved Strontium	ug/l	TM30/PM14	TBC	318	275
Dissolved Vanadium [#]	ug/l	TM30/PM14	TBC	1.5	1.5
Dissolved Zinc [#]	ug/l	TM30/PM14	TBC	7	7
EPH (C8-C40) [#]	ug/l	TM5/PM30	TBC	10	10
GRO (>C4-C8) [#]	ug/l	TM36/PM12	TBC	10	10
GRO (>C8-C12) [#]	ug/l	TM36/PM12	TBC	10	10
GRO (>C4-C12) [#]	ug/l	TM36/PM12	TBC	10	10
MTBE [#]	ug/l	TM31/PM12	TBC	5	5
Benzene [#]	ug/l	TM31/PM12	TBC	5	5
Toluene [#]	ug/l	TM31/PM12	TBC	5	5
Ethylbenzene [#]	ug/l	TM31/PM12	TBC	5	5
m/p-Xylene [#]	ug/l	TM31/PM12	TBC	5	5
o-Xylene [#]	ug/l	TM31/PM12	TBC	5	5
Fluoride	mg/l	TM27/PM0	TBC	0.3	0.3
Bromide	mg/l	TM27/PM0	TBC	0.06	0.09
Chloride [#]	mg/l	TM38/PM0	TBC	52.7	61.6
Nitrate as NO3 [#]	mg/l	TM38/PM0	TBC	2	10.2
Nitrite as NO2 [#]	mg/l	TM38/PM0	TBC	0.02	0.13
Ammoniacal Nitrogen as NH4 [#]	mg/l	TM38/PM0	TBC	0.07	0.05

Dissolved Ethene [#]	ug/l	TM25/PM0	TBC	1	1
Dissolved Ethane [#]	ug/l	TM25/PM0	TBC	1	1
Dissolved Butane	ug/l	TM25/PM0	TBC	2	2
Dissolved Propane	ug/l	TM25/PM0	TBC	2	2
Dissolved Methane	mg/l	GC-IRMS	TBC	1.17	0.46
Dissolved Carbon Dioxide	mg/l	GC-IRMS	TBC	35.8	36.8
δ13C - CH4	ppm ‰. VPDB	GC-IRMS	TBC	-73.6	-62.1
δ13C - CO2	ppm ‰. VPDB	GC-IRMS	TBC	-29.2	0
Total Alkalinity as CaCO3 [#]	mg/l	TM75/PM0	TBC	386	388
Acrylamide	ug/l	TM103/PM59	TBC	50	50
Laurylamine	ug/l	TM103/PM59	TBC	50	50
Hydroxyethyl ethylene diamine	ug/l	TM103/PM59	TBC	50	50
Myristyl dimethylamine	ug/l	TM103/PM59	TBC	50	50
Octyldimethylamine	ug/l	TM103/PM59	TBC	50	50
para phenylene diamine	ug/l	TM103/PM59	TBC	50	50
BOD (Settled) [#]	mg/l	TM58/PM0	TBC	4	2
COD (Settled) [#]	mg/l	TM57/PM0	TBC	7	11
pH [#]	pH units	TM73/PM0	TBC	7.76	7.6
Salinity	%	TM64/PM0	TBC	0.1	0.1
Total Dissolved Solids [#]	mg/l	TM20/PM0	TBC	523	545
Total Suspended Solids [#]	mg/l	TM37/PM0	TBC	72	350

Mar-17	Uncertainty
20	0.00
2	0.00
2.5	2.22
322	42.59
0.5	0.00
32	1.73
0.5	0.00
110.1	5.14
1.5	0.00
2	0.00
7	0.00
40	109.69
5	0.00
10	1.13
36.4	1.25
1	0.00
2	0.00
2.2	0.07
3	0.00
5	0.00
37.5	0.94
243	42.59
1.5	0.00
18	7.19
10	0.00
10	0.00
10	0.00
10	0.00
5	0.00
5	0.00
5	0.00
5	0.00
5	0.00
5	0.00
5	0.00
0.3	0.00
0.11	0.03
55.8	5.11
4.2	4.80
0.19	0.10
0.03	0.02

1	0.00
1	0.00
2	0.00
2	0.00
2.3	1.05
38.3	1.42
-72.4	7.15
0	19.08
382	3.46
50	0.00
50	0.00
50	0.00
50	0.00
50	0.00
50	0.00
3	1.13
7	2.61
7.6	0.10
0.1	0.00
532	12.52
197	157.56