

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

Substance/ Parameter	BH04 (A)				
	Units	Test Method	Trigger Level	Apr-17	May-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	2.5	2.5
Dissolved Barium [#]	ug/l	TM30/PM14	TBC	134	134
Dissolved Beryllium	ug/l	TM30/PM14	TBC	0.5	0.5
Dissolved Boron	ug/l	TM30/PM14	TBC	31	26
Dissolved Cadmium [#]	ug/l	TM30/PM14	TBC	0.5	0.5
Dissolved Calcium [#]	mg/l	TM30/PM14	TBC	118.2	114
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	20	20
Dissolved Lead [#]	ug/l	TM30/PM14	TBC	5	5
Dissolved Lithium	ug/l	TM30/PM14	TBC	10	10
Dissolved Magnesium [#]	mg/l	TM30/PM14	TBC	38.3	35.9
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	1.8	1.6
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	40.9	39.3
Dissolved Strontium	ug/l	TM30/PM14	TBC	226	230
Dissolved Vanadium [#]	ug/l	TM30/PM14	TBC	1.5	1.5
Dissolved Zinc [#]	ug/l	TM30/PM14	TBC	3	3
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	0.1
Benzene [#]	ug/l	TM31/PM12	TBC	5	0.5
Toluene [#]	ug/l	TM31/PM12	TBC	5	5
Ethylbenzene [#]	ug/l	TM31/PM12	TBC	5	1
m/p-Xylene [#]	ug/l	TM31/PM12	TBC	5	2
o-Xylene [#]	ug/l	TM31/PM12	TBC	5	1
Fluoride	mg/l	TM27/PM0	TBC	0.3	0.3
Bromide	mg/l	TM27/PM0	TBC	0.17	0.09
Chloride [#]	mg/l	TM38/PM0	TBC	79.3	77.5
Nitrate as NO3 [#]	mg/l	TM38/PM0	TBC	26.9	30
Nitrite as NO2 [#]	mg/l	TM38/PM0	TBC	0.02	0.02
Ammoniacal Nitrogen as NH4 [#]	mg/l	TM38/PM0	TBC	0.03	0.03

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	0.01	0.01
Dissolved Carbon Dioxide	mg/l	GC-IRMS	TBC	46.3	36.8
δ13C - CH4	ppm ‰. VPDB	GC-IRMS	TBC	0	0
δ13C - CO2	ppm ‰. VPDB	GC-IRMS	TBC	-28.9	-29.2
Total Alkalinity as CaCO3 [#]	mg/l	TM75/PM0	TBC	378	342
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	1	1
COD (Settled) [#]	mg/l	TM57/PM0	TBC	7	7
pH [#]	pH units	TM73/PM0	TBC	7.51	7.24
Salinity	%	TM64/PM0	TBC	0.1	0.1
Total Dissolved Solids [#]	mg/l	TM20/PM0	TBC	612	614
Total Suspended Solids [#]	mg/l	TM37/PM0	TBC	10	10

<i>Jun-17</i>	Uncertainty
20	0.00
2	0.00
2.5	0.00
133	0.65
0.5	0.00
30	2.99
0.5	0.00
116.6	2.40
1.5	0.00
2	0.00
7	0.00
20	0.00
5	0.00
9	0.65
34.8	2.03
1	0.00
2	0.00
1.5	0.17
3	0.00
5	0.00
40.5	0.94
217	7.53
1.5	0.00
3	0.00
10	0.00
10	0.00
10	0.00
10	0.00
5	3.20
5	2.94
5	0.00
5	2.61
5	1.96
5	2.61
0.3	0.00
0.13	0.05
84.4	4.05
28	1.78
0.02	0.00
0.03	0.00

1	0.00
1	0.00
2	0.00
2	0.00
0.01	0.00
39.4	5.56
0	0.00
-29.2	0.20
352	21.03
50	0.00
50	0.00
50	0.00
50	0.00
50	0.00
50	0.00
1	0.00
7	0.00
7.13	0.22
0.1	0.00
701	57.50
10	0.00