INTERDRILL

5 May 2008

Taranaki Regional Council 47 Clotan Road Private Bag 713 Stratford

Att: Mr Shane Reynolds

PATEA FREEZING WORKS Monitoring Wells

BORE LOG

Driller: Curtis Leatherby

Hole No. 1.

1.0m	to	2.00m	Gravel Fill.
2.00m	to	2.50m	Gritty Fine Gravel Fill (Moist)
2.50m	to	4.40m	Silty Sticky Grey Clay.

Installed Piezo to 4.4m SWL. 1.5m

Hole No. 2.

Abandoned first hole due to Difficult Drilling Large Gravels Cave In.

0.0m	to	1.00m	Large Gravel /Fill.
1.00m	to	3.00m	Large Gravels / bricks, glass / Fill
3.00m	to	3.50m	Gritty Fill puggy Clay.
3.50m	to	4.50m	Gritty grey clay /Fill (wet)
4.50m	to	6.00m	Grey Clay (wet)

Installed Piezo to 5.2m SWL. 3.0m

Hole No.3.

1.00m	to	1.50m	Wood Log
1.50m	to	3.00m	Clay
3.00m	to	4.50m	Blue Papa Like Clay /Fine Sands
4.50m	to	6.00m	Blue Papa Like Clay /Fine Sands (wet)

Installed Piezo to 5.9m SWL. 4.8m

Hole No. 4.

0.0m	to	0.50m	Large Gravel /Fill.
0.50m	to	2.00m	Clay
2.00m	to	3.00m	Clay, Gravels (Moist)
3.00m	to	5.00m	grey clay (wet)
5.00m	to	6.00m	Silty Grey Clay (wet) Running Sands

Installed Piezo to 5.3m SWL. 3.3m

Hole No. 5.

1.0m	to 3.00m	Clay.
3.00m	to 4.50m	Wood/ Clay
4.50m	to 6.00m	Puggy Grey Clay. (Moist)
1/4/08	SWL 2.0m	

2/4/08 Installed Piezo to 5.2m SWL. 0.7m

Construction:

Well Dia 150mm, install 50mm PVC screen and Filter Sock, Gravel Pack, place Bentonite seal, supply and grout- below Ground Toby Boxes.

The Monitoring wells are be Drilled and constructed to the Ministry for the Environment Guidelines for Assessing and Managing Petroleum Hydrocarbon Contaminated Sites in New Zealand 1999.

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File note

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Groundwater sampling

10.04.08

Contents of each well were removed in 3 runs using a disposable bailer.

HT=1230 (HT at Port Taranaki -10 minutes to adjust to Patea River mouth)

Well	Location	Depth (m)	Water level (m) Run start 0930	Water level (m) Run start 1100	Water level (m) Run start 1230	
MW1	2637472-6159353	4.4	1.8	1.9	1.8	
MW2	2637421-6159366	5.2	3.3	5.0	5.0	
MW3	2637361-6159383	5.9	5.3	5.7	5.6	
MW4	2637323-6159391	5.3	4.0	4.4	3.5	
MW5	2637490-6159528	4.8	1.2	1.4	1.4	

MW2 was not recharging in 1.5 hrs

MW3 is too shallow

Other wells appear to be recharging fairly quickly.

21.04.08

Contents of each well were removed in 3 runs using a dedicated disposable bailer for each well, prior to collecting samples

HT=1614

		Purging 1		Purging 2		Purging 3		Sampling	
Well	Depth	Time	Water	Time	Water	Time	Water	Time	Water
	(m)		level (m)		level (m)		level (m)		level (m)
MW1	4.4	1115	1.8	1255	1.8	1412	1.8	1515	1.8
MW2	5.2	1125	3.4	1259	4.9	1418	5.0	1525	5.0
MW3	5.9	1135	5.0	1303	5.4	1421	5.5	1545	5.5
MW4	5.3	1143	3.3	1307	3.3	1424	3.4	1600	3.6
MW5	4.9	1156	1.1	1315	1.4	1431	1.4	1615	1.4

MW1 fairly clean & clear sample, water dirty at bottom.

MW2 very slow recharge, not enough for PAH sample, very dirty at bottom.

MW3 fairly clean & clear sample to bottom.

MW4 yellowish, fairly clean sample, slightly dirty at bottom.

MW5 fairly clean & clear sample, dirty at bottom.

No HC odour / sheen observed in any samples.

Shane Reynolds

Scientific Officer