## **Barrows Road Abstraction Reduction Plan**

Combined abstraction restricted to reasonable water needs 23,401m<sup>3</sup>

Current
Combined abstraction
24,576m<sup>3</sup>

Stage 1 2025-2030 Combined abstraction 21,840m<sup>3</sup> Stage 2 2030-2035 Combined abstraction 25,784m<sup>3</sup> Stage 3 2035-2059 Combined abstraction 22,784m<sup>3</sup>

Individual consents

2,736m<sup>3</sup>
Total reduction in surface water

3,976m<sup>3</sup>
Total reduction in surface water

**6,976m**<sup>3</sup>
Total reduction in surface water

Campbell 9,600m<sup>3</sup>

400m<sup>3</sup>/hr

Campbell 9,600m<sup>3</sup>

Campbell 9,600m<sup>3</sup>

400m<sup>3</sup>/hr

Campbell 9,600m<sup>3</sup>

400m<sup>3</sup>/hr

Newbury 6,000m<sup>3</sup>

280m<sup>3</sup>/hr

Newbury 6.000m<sup>3</sup>

280m<sup>3</sup>/hr

400m<sup>3</sup>/hr

Newbury 6,000m<sup>3</sup>

280m<sup>3</sup>/hr

Newbury 6,000m<sup>3</sup>

280m<sup>3</sup>/hr

Root 0m<sup>3</sup>

0m<sup>3</sup>/hr

Root 0m<sup>3</sup>

0m³/hr

Root 5,184m<sup>3</sup>

216m<sup>3</sup>/hr

Root 5,184m<sup>3</sup>

216m<sup>3</sup>/hr

Barrows 8,976m<sup>3</sup>

374m<sup>3</sup>/hr

Barrows 6,240m<sup>3</sup>

263m<sup>3</sup>/hr

Barrows 5,000m<sup>3</sup>

210m<sup>3</sup>/hr

Barrows 2,000m<sup>3</sup>

90m³/hr

Feilding Integrated abstraction consent obtained

- Root Street Treatment Plant commissioned
- Turners Road Reservoir commissioned

- Improve Campbell Pipe Capacity
- Potable water pipe to Almadale

- Groundwater sources will be prioritised over surface water where possible
- An additional groundwater source will need to be added at a later stage

## Feilding staged surface water reduction plan 30% to 78% in ten years

River Flow	River percentile	Current abstraction rate (m³/hr)	abstraction	abstraction		Stage 1 abstraction (m³/day)	Stage 1 % of flow	Stage 2 abstraction rate (m³/hr)	Stage 2 abstraction (m³/day)	Stage 2 % of flow	abstraction	Stage 3 abstraction (m³/day)	Stage 3 % flow
	%										Stage 3 = 1.5% (above 1,851l/s) expected to occur 89% of the time 2035 -2059		
<1005	100	292	6998	18.4	0	0	0	0	0	0	0	0	0
1005-1300	98	292	6998	8.1	170	4000	4.7	90	2000	2.5	90	2,000	2.5
1301-1500	95	292	6988	6.2	170	4000	3.6	119	2800	2.5	90	2,000	1.9
1501-1850	93	292	6988	5.4	188	4500	3.5	137	3200	2.5	90	2,000	1.7
1851 – 2500	89	375	9,000	5.6	209	5000	3.1	170	4000	2.5	90	2,000	1.4
2501 – 3000	81	375	9,000	4.2	263	6240	2.9	210	5000	2.4	90	2,000	1.0
>3000	76	375	9,000	3.5	263	6240	2.4	210	5000	1.9	90	2,000	0.8

30% reduction

263m<sup>3</sup>/hr

210m<sup>3</sup>/hr

44% reduction

90m<sup>3</sup>/hr

78% reduction

375m<sup>3</sup>/hr

Reduction

## **Progressive Improvements**

