Supplementary Material

Table S1: Species planted in restoration at Hunua Quarry.
Carex geminata, Carex virgata, Coprosma areolata, Coprosma spathulata, Pseudopanax arboreus, Phormium tenax, Podocarpus cunninghamii, Olearia rani, Dacrydium dacrydioides, Kunzea ericoides, Coprosma robusta, Macropiper excelsum, Melicytus ramiflorus, Leptospermum scoparium, Myrsine australis, Prumnopitys ferruginea, Hedycarya arborea, Vitex lucens, Carpodetus serratus, Knightia excelsa, Dacrydium cupressinum, Phyllocladus trichomanoides, Beilschmiedia tarairi and *Beilschmiedia tawa.*

Table S2. Total abundance and mean abundance (± SEM; n = 4) per sample of mite RTUs in litter samples at the three forest sites at Hunua Quarry. P-values obtained from Kruskal-Wallis test. Statistically significant results (P < 0.05) are shown in bold.

RTU	Total	Mean abundance per sample			P
		Control	Restoration	Mature	
M1	47	3.5 ± 1.19	3 ± 1.15	5.25 ± 2.78	0.858
M2	111	17 ± 6.70	8 ± 3.03	2.75 ± 1.18	0.329
M3	181	7.75 ± 2.02	28 ± 19.2	9.5 ± 2.78	0.812
M4	7	1 ± 1	0.25 ± 0.25	0.5 ± 0.5	0.967
M5	8	0.5 ± 0.5	1.5 ± 1.5	0 ± 0	0.573
M6	1	0.25 ± 0.25	0 ± 0	0 ± 0	0.368
M7	143	24.25 ± 9.88	1.75 ± 1.75	9.75 ± 4.37	0.044
M8	4	1 ± 0.71	0 ± 0	0 ± 0	0.113
M9	108	0.25 ± 0.25	24 ± 14.5	2.75 ± 2.75	0.162
M10	6	0.75 ± 0.48	0 ± 0	0.75 ± 0.48	0.267
M11	2	0.5 ± 0.29	0 ± 0	0 ± 0	0.111
M12	1	0.25 ± 0.25	0 ± 0	0 ± 0	0.368
M13	77	2 ± 1.68	13 ± 6.26	4.25 ± 4.25	0.346
M14	9	2.25 ± 1.65	0 ± 0	0 ± 0	0.113
M15	3	0.25 ± 0.25	0 ± 0	0.5 ± 0.05	0.573
M16	1	0.25 ± 0.25	0 ± 0	0 ± 0	0.368
M17	13	0.75 ± 0.75	2.5 ± 2.5	0 ± 0	0.573
M18	7	0 ± 0	0 ± 0	1.75 ± 1.75	0.368
M20	2	0.5 ± 0.5	0 ± 0	0 ± 0	0.368
M22	48	0.25 ± 0.25	3.75 ± 3.22	8 ± 5.0	0.223
M23	49	5.75 ± 5.42	2 ± 1.15	4.5 ± 3.52	0.906
M24	5	1 ± 1	0 ± 0	0.25 ± 0.25	0.573
M25	24	1 ± 0.71	3.25 ± 2.36	1.75 ± 1.03	0.856
M26	152	0.25 ± 0.25	13.25 ± 8.4	24.5 ± 1.66	0.063
M27	9	2.25 ± 2.25	0 ± 0	0 ± 0	0.368
M28	1	0.25 ± 0.25	0 ± 0	0 ± 0	0.368
M29	1	0.25 ± 0.25	0 ± 0	0 ± 0	0.368
M30	1	0.25 ± 0.25	0 ± 0	0 ± 0	0.368
M31	1	0.25 ± 0.25	0 ± 0	0 ± 0	0.368
M32	10	0 ± 0	0 ± 0	2.5 ± 1.19	**0.028**
M33	4	0 ± 0	0 ± 0	1 ± 0	**0.004**
M34	8	0 ± 0	0 ± 0	2 ± 0.41	**0.005**
M35	1	0 ± 0	0 ± 0	0.25 ± 0.25	0.368
M36	2	0 ± 0	0 ± 0	0.5 ± 0.29	0.111
M37	8	0 ± 0	0 ± 0	2 ± 1.69	0.113
M38	11	0 ± 0	0.5 ± 0.5	2.25 ± 1.31	0.241
M39	1	0 ± 0	0 ± 0	0.25 ± 0.25	0.368
M40	11	0 ± 0	0 ± 0	2.75 ± 2.43	0.113
M41	53	0 ± 0	8.25 ± 4.03	5 ± 2.68	0.082
M42	4	0 ± 0	0 ± 0	1 ± 0.71	0.113
M43	2	0 ± 0	0 ± 0	0.5 ± 0.5	0.368
M44	7	0 ± 0	0 ± 0	1.75 ± 1.18	0.113
M45	1	0 ± 0	0 ± 0	0.25 ± 0.25	0.368
M46	2	0 ± 0	0 ± 0	0.5 ± 0.5	0.368
M47	13	0 ± 0	2.5 ± 2.5	0.75 ± 0.75	0.573
M48	3	0 ± 0	0 ± 0	0.75 ± 0.75	0.368

Table S2 continued. Total abundance and mean abundance (± SEM; n = 4) per sample of mite RTUs in litter samples at the three forest sites at Hunua Quarry. P-values obtained from Kruskal-Wallis test. Statistically significant results (P < 0.05) are shown in bold.

RTU	Total	Mean abundance per sample			P
		Control	Restoration	Mature	
M49	11	0 ± 0	0.5 ± 0.29	2.25 ± 2.25	0.356
M50	3	0 ± 0	0.75 ± 0.75	0 ± 0	0.368
M51	9	0 ± 0	1 ± 1	1.25 ± 1.25	0.573
M52	4	0 ± 0	0.25 ± 0.25	0.75 ± 0.75	0.573
M53	4	0 ± 0	0 ± 0	1 ± 1	0.368
M54	1	0 ± 0	0 ± 0	0.25 ± 0.25	0.368
M55	2	0 ± 0	0 ± 0	0.5 ± 0.5	0.368
M56	1	0 ± 0	0 ± 0	0.25 ± 0.25	0.368
M57	2	0 ± 0	0 ± 0	0.5 ± 0.5	0.368
M58	6	0 ± 0	0.75 ± 0.75	0.75 ± 0.75	0.577
M59	1	0 ± 0	0 ± 0	0.25 ± 0.25	0.368
M60	2	0 ± 0	0.5 ± 0.5	0 ± 0	0.368
M61	9	0 ± 0	2.25 ± 1.03	0 ± 0	**0.027**
M62	1	0 ± 0	0.25 ± 0.25	0 ± 0	0.368
M63	27	0 ± 0	6.75 ± 6.09	0 ± 0	**0.027**
M64	22	0 ± 0	5.5 ± 4.84	0 ± 0	**0.027**
M65	1	0 ± 0	0.25 ± 0.25	0 ± 0	0.368
M66	3	0 ± 0	0.75 ± 0.75	0 ± 0	0.368
M67	8	0 ± 0	2 ± 1.08	0 ± 0	**0.028**
M68	4	0 ± 0	1 ± 0.77	0 ± 0	0.113

Table S3. Total abundance and mean abundance per sample (± SEM; n = 4) of springtail RTUs in litter samples at the three forest sites at Hunua Quarry. P-values obtained from Kruskal-Wallis test. Statistically significant results (P < 0.05) are shown in bold.

RTU	Total	Mean abundance per sample			P
		Control	Restoration	Mature	
ST1	263	2.75 ± 0.63	11.75 ± 6.51	51.25 ± 35.6	0.061
ST2	40	9.25 ± 4.64	0.75 ± 0.75	0 ± 0	0.059
ST3	7	1.75 ± 1.75	0 ± 0	0 ± 0	0.368
ST4	5	1.25 ± 0.95	0 ± 0	0 ± 0	0.113
ST5	61	13.25 ± 13.25	1.5 ± 1.5	0.5 ± 0.29	0.915
ST6	4	0.5 ± 0.29	0 ± 0	0.5 ± 0.29	0.253
ST7	3	0.25 ± 0.25	0 ± 0	0.5 ± 0.5	0.573
ST8	5	0 ± 0	0 ± 0	1.25 ± 0.48	**0.027**
ST9	1	0 ± 0	0 ± 0	0.25 ± 0.25	0.368
ST10	15	0 ± 0	2.75 ± 2.43	1 ± 0.71	0.267
ST11	10	0 ± 0	2 ± 1	0.5 ± 0.5	**0.034**
ST12	2	0 ± 0	0.5 ± 0.29	0 ± 0	0.111
ST13	1	0 ± 0	0.25 ± 0.25	0 ± 0	0.368
ST14	1	0 ± 0	0.25 ± 0.25	0 ± 0	0.368
ST15	1	0 ± 0	0.25 ± 0.25	0 ± 0	0.368
ST16	1	0 ± 0	0.25 ± 0.25	0 ± 0	0.368
ST17	2	0 ± 0	0.5 ± 0.5	0 ± 0	0.368