

From: [Jeremy Rees](#)
To: [Scott Dickson](#)
Subject: 8326 - Preliminary SW Assessment
Date: Friday, 27 September 2024 9:04:48 AM
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Hi Scott,

Below is the SW response.

Based on a Rational Method stormwater assessment of the pre and post development runoff, the predevelopment peak flow is approximately 91 l/s and the post-development peak flow is 123 l/s. These are for the 20% AEP (5 year event). The time of concentration of the overall site is not expected to change, given the development is only part of the overall site. The site currently discharges in a sheet-flow manner to the south and the new stormwater discharge will attempt to mimic this as much as possible by the use of swale discharge points

Name	Catchment Information				CATCHMENTS					Preliminary Runoff Information		
	Area total (m2)	0.3		effective area (m2)	average runoff coefficient	Time of Concentration			Subcatchment TC	Intensity for below return period 5	Indicative Primary Runoff Peak Design Flow from catchment l/s	
		Commercial / Industrial (m2)	Rural / Reserves (m2)			Primary Event TC (minutes) applies overland flow paths	Length of overland flow path (m)	Slope (%)				Manning's n (paved 0.015 - Bare soil 0.0275 - Poorly grassed 0.035 - Average grass 0.045 -)
Pre	43,013.00		43,013.00	12,303.90	0.30	336.00	0.6	0.05	33.98	34	25.43	91.1
Post	43,013.00	7,599.00	35,414.00	17,463.30	0.41	336.00	0.6	0.05	33.98	34	25.43	123.3



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 You can now find them located at 29 Luxmore Drive, Te Anau

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