
From: andrew.brough@courtenayenvironmental.co.nz <andrew.brough@courtenayenvironmental.co.nz>
Sent: Wednesday, May 15, 2024 11:40 AM
To: Christian McDean <Christian@kineticenv.co.nz>
Cc: 'Kristine Rutten' <ekruten24@gmail.com>
Subject: RE: Stormwater

Hi Christian

Regarding the On-site sewage situation each set of sheds is going to have it's own septic tank and sand bed. Eric is working on 15 people working across the sets of sheds so 7.5 people per shed. Working on 8 people and the normal rural factory allowance of 50 L/person/day gives 400L/day of wastewater but as everyone who enters the sheds needs to shower it is likely that this is an underestimate. For the moment I will work on 90 L/person/day from the standards which allows for showers and a bath and laundry so is probably an overestimate but as that is still only 720 L/day when the permitted activity allows up to 2,000 L/day I'll run with that for the compliance check. The compliance sheet is attached which demonstrates that each system can comply with the permitted activity Rule so no consent is required from ECan.

Regards

Andrew Brough

Courtenay Environmental Consultants Ltd
3/1314 West Coast Road
RD 1
CHRISTCHURCH 7671

Tel: 03 972 5324 or 021 776944

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Rule 5.8: The discharge of wastewater from a new, modified or upgraded on-site domestic wastewater treatment system onto or into land in circumstances where a contaminant may enter water is a permitted activity, provided the following conditions are met:

Condition	Complies	Comment
1. The discharge volume does not exceed 2 m ³ per day; and	Y	Estimated wastewater flow 720 L/day based on 8 people @ 90 L/day
2. The discharge is onto or into a site that is equal to or greater than 4 hectares in area and	Y	30.69 hectares
2a. The discharge is not located within an area where residential density exceeds 1.5 dwellings per hectare and the total population is greater than 1000 persons; and	Y	
3. The discharge is not onto or into land:		
(a) where there is an available sewerage network; or	Y	Rural area no sewer
(b) that is contaminated or potentially contaminated; or	Y	The points of discharge are into land where there is no site of interest
(c) that is listed as an archaeological site; or	Y	
(d) in circumstances where the discharge would enter any surface waterbody; or	Y	Nearest surface waterbody is around 60 m cross gradient to point of discharge
(e) within 20 m of any surface waterbody or the Coastal Marine Area; or	Y	As for (d)
(f) within 50 m of a bore used for water abstraction; or	Y	Nearest active bore in downgradient direction around 250 m away
(g) within a Group or Community Drinking-water Protection Zone as set out in Schedule 1; or	Y	Discharge is not into a CDWPZ. Nearest is Darfield around 7.3 km away
(h) where there is, at any time, less than 1 m of vertical separation between the discharge point and groundwater; and	Y	Depth to groundwater around 30 m.
4. The treatment and disposal system is designed and installed in accordance with Sections 5 and 6 of New Zealand Standard AS/NZS 1547:2012 – On-site Domestic Wastewater Management; and	Y	
5. The treatment and disposal system is operated and maintained in accordance with the system's design specification for maintenance or, if there is no design specification for maintenance, Section 6.3 of New	Y	

Zealand Standard AS/NZS 1547:2012 – On-site Domestic Wastewater Management; and		
6. The discharge does not result in wastewater being visible on the ground surface; and	Y	
7. The discharge does not contain any hazardous substance.	Y	