## Dairy Effluent Storage Calculator Summary Report

Regional authority:

**Environment Southland Regional Council** 

Authorised agent: Client:

Landpro Limited Woldwide Four Ltd

Program version:

1.50

Report date:

Friday, 18 January 2019

General description:

DESC prepared by Tanya Copeland and reviewed by Zen Gerente

1000 cows

78ha effluent area, high risk soils

Wash down water at 3L/cow/day based on a scraped yard. Discharge via low rate pods, travelling irrigator and slurry tanker 480m2 of additional catchment areas includes underpass effluent.

Current pond dimensions included

Climate

Rainfall site:

Drummond Marson Rd

Mean annual rainfall:

1061 mm/year

**Effluent Block** 

Area of low risk soil:

0.0 hectares

Minimum area of high risk soil:

78.0 hectares

Surplus area of high risk soil:

0.0 hectares

## Wash Water

Yard wash:

- Milking season starts:	(	II August	
- Milking season ends:	1	.5 June	
Month	Number of Cows	Hours in Yard	Wash Volume (cubic metres)
January	1000	4.0	25.0
February	1000	4.0	25.0
March	1000	4.0	25.0
April	1000	4.0	25.0
May	1000	4.0	25.0
June	0	0.0	25.0
July	0	0.0	0.0
August	500	4.0	25.0
September	750	4.0	25.0
October	1000	4.0	25.0
November	1000	4.0	25.0
December	1000	4.0	25.0

## Irrigation

Winter-spring depth: 4 mm Spring-autumn depth: 5 mm Winter-spring volume: Spring-autumn volume: 240 cubic metres 240 cubic metres

Yes

Irrigate all year?

Catchments

Yard Area: 1100 square metres

Diverted? Yes
- diversion start: 15 June
- diversion end: 31 July

Shed Roof Area: 440 square metres

Diverted? Y

Feedpad Area: 0 square metres

Covered? No Diverted? No

Animal Shelter Area: 0 square metres

Covered? Yes Diverted? No

Other Areas: 480 square metres

**Storage** 

Pond/s present?YesNo. of ponds:1 pond/sIncludes irregular ponds?No

Pond 1

total volume: 4824 cubic metres
 pumpable volume: 3801 cubic metres

- surface area: 2142 square metres

- width: 34.0 metres
- length: 63.0 metres
- batter: 2.0:1
- total height: 3.0 metres
- pumped? Yes

Tank/s present? No Emergency storage period: 0 days

**Solids Separation** 

Solids separator/s present? No

**Outputs** 

Maximum required storage pond volume: 90 % probability storage pond volume:

During the period from:

4481 cubic metres 3660 cubic metres 01 July 1980

