

PROJECT DESCRIPTION:	NTHD-1284 Townsville Ring Road Section 4					
LOCATION: DEERAGUN	Road:	Bruce H/way	Start Chg:	18,530	End Chg:	29,400

Erosion and sediment control plan for the month of NOVEMBER 2015 :						
Zirodon ana coamient c	Stephen Mount		02/12/2015			
Completed by:	·	Date:				
-	Stephen Mount		02/12/2015			
Reviewed by:		Date:				

1. Review of Past Month (November)

Rainfall:	No. of days: 4	Rainfall total: 31.5 mm
E&S Events:	Issues/non-conformances	Corrective Actions
LGO LVEITIS.	Nil	• Nil

2. Upcoming Month (December)									
Rainfall outlook:	7 days with Low (25-50%) chance of rain. 2 day with Medium (50-75%) chance of rain. 0 days with High (≥75%) chance of rain.								
	Sun	Mon	Tue	Wed	Thu	Fri	Sat		
					3	4	5		
					low	med	low		
	6	7	8	9	10	11	12		
	low	med	low						
	13	14	15	16	17	18	19		
			low						
	20	21	22	23	24	25	26		
	27	28	29	30					
			low	low					
	Chance of rainfall within district								
	ni < 25		low 25% to 5	0% 50	med 0% to 75%		n igh 75%		
	Source: www.weatherzone.com.au								

Table 1. Emerging E&S Risks – the following site characteristic or activity related specific risks will/are likely to present in the coming month (note: these are risks that have not previously been identified and addressed. Previous controls may still be in place, but do not require recapture within this report unless circumstances have significantly changed from when they were first identified. Reference numbers should continue from the previous count.)

Qualitative Risk Assessment – Specific Risks	Y/N	Describe (location and nature of risk)	Reference
Site Characteristics: where any aspe	ct of th	ne site meets the following criteria, it shall be deemed a spec	rific risk¹
Disturbance within or immediately adjacent to a waterway/body	Y	Location: 1. Culvert 6B (Green – ch. 21050), 2. Culvert 7B (Orange – ch. 21600), 3. Culvert 10B (Orange – ch. 23160), 4. BR30 and 35 (Green - Saunders Ck – ch. 23540),	Refer to attached general plans

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		5. BR40 (Green - Stony Ck – ch. 26020) Nature of Risk:	
		Saunders Creek – rock protection excavation works for BR30 and 35 commenced in October. Stony Creek – pier	
		works to continue. Main risk at the moment is maintaining	
		bank stability and ensuring controlled washout during	
		concrete pours.	
Direct discharge point to a	Υ	Location:	
watercourse or water body		1. Culvert 6B (Green – ch. 21050),	
,		2. Culvert 7B (Orange – ch. 21600),	
		3. Culvert 10B (Orange – ch. 23160),	
		4. BR30 and 35 (Green - Saunders Ck – ch. 23540),	
		5. BR40 (Green - Stony Ck – ch. 26020)	
		Nature of Risk:	
		Approaching wet season. Planning to ensure	
		management of erosion and sediment control plan implementation is undertaken prior to Christmas break,	
		reducing the risk of sediment loss off-site and protecting	
		works to reduce amount of re-works required on-site.	
		Programming completion of major drainage structures	
		prior to Christmas (all major cross drainage structures)	
		and completion of as much culvert inlet and outlet	
		protection works (i.e. amelioration, rock protection and	
		Bonded Fibre Matrix) as possible.	
Disturbance upland of an	N	Location:	
adjoining sensitive environmenta	l	Nature of Risk:	
area (e.g. national park, listed place)			
Concentrated drainage	N	Location:	
flows/table drains in excess of:		Nature of Risk:	
(i) 3% grade and 25m in			
length, or			
(ii) 5% grade			
 Disturbance to sloped, sheet flow 	N	Location:	
areas greater than 2% grade		Nature of Risk:	
Sodic, dispersive or other highly	Υ	Location: Majority of the site	Refer to
susceptible soil types		Nature of Risk:	attached
		Extreme risk of erosion of exposed surfaces for majority	general
		of the alignment which may lead to batter de-stabilisation	plans and
		and scouring around structures.	plan mark-
Activity Related: where any activity	meets t	he following criteria, it shall be deemed a specific risk¹	up
 Activity Related. Where any activity Any activity involving ground 	N	Location:	
disturbance, storage of materials		Nature of Risk:	
in a manner that could			
reasonably enter drainage			
systems, significantly modifies			
sediment) <u>and</u> , is not suitably contained or management by			
control measures already			
control inicacaroo ancaay			
in a manner that could reasonably enter drainage		Traidic of INSK.	

[&]quot;specific" risk refers to circumstances that require specific planning, documentation and communication

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<u>Table 2 Control Strategies</u> – E&S risks identified in Table 1 shall be controlled in accordance with the following:

Reference	Stage of Works	Control Strategies, Comments & Diagrams
SWC-TRR4- ESCP attached	Earthworks, drainage and batter stabilisation works	Divert clean water away from work areas;
		Wet Weather ESCP Action Plan – seal off pads, diversion bunds at entry/exit points to direct dirty water, temporary drainage lines, geofabric and crushed rock to protect outlets and steep sections.
		Regularly inspections with SWC Enviro Rep / Supervisors.
		In accordance with IECA 2008 Guidelines
	Wet Season / X-mas shutdown period preparation works	Follow-up inspection conducted with Michael McDermid (TMR), Ben Cotton (TMR) and Stephen Mount (SWC) on 26/11/2015 to follow up on previous inspection actions: Installation of all cross-drainage culverts prior to Christmas shutdown Commenced culvert amelioration works (Revegetation Contractors) ESCP complete and forwarded to TMR for review Additional check dams installed – works still underway Approx. 12 x pallets of sand bags prepared and ready at Dalrymple Rd