

Tarago Action Plan Routine Inspection Checklist

Date:	16-Sep-24	Ramboll and UGL RL Environmental
Start time:	11:17 AM	Representative completing inspection ¹ :
Start time:	11:17 AM	Jenny Auld
Weather:	12.5°C (0 - 14 min to max), 30 km/h wind WSW, 0 mm rain since 9AM, 30% (BOM) humidity, mostly sunny.	
<u>Date and volume of maximum rainfall in a 24hr period since last inspection?</u>		
Date:	15-Sep-24	
Max volume (mm) in 24hr period:	3 mm	
General Site Observations		
<u>Is airborne dust from site evident?</u>		
No airborne dust was visible (Photos 1 - 2).		
<u>Is sediment run-off evident that is not captured by sediment controls?</u>		
No sign of sediment run-off seen in surface water flowing off-site at southern culvert (Photo 3). No evidence of sediment run-off from middle and northern culverts with only pooled, not flowing, surface water observed (Photos 4, 5 and 6).		
<u>Is surface water discharging from site?</u>		
Surface water was observed discharging from the site at the southern culvert (Photos 3). Pooled water was observed in a few locations on site (Photo 4). No other flowing surface water was observed onsite during the inspection.		
<u>Is there evidence of excavation or other works non-compliant with the Action Plan?</u>		
No		
<u>Other observations?</u>		
1. The geofabric silt curtain (sediment fencing) located upgradient of middle trainline culvert (Photo 11) was noted to have large sediment build up during previous and current inspections. Damage to sediment fencing to the north of the upgradient of the middle culvert was observed during previous inspections and evidence of repair was observed during the current inspection (Photo 19). New additional damage to the sediment fencing was also observed during the current site inspection (Photos 12 and 13). Ramboll advises this be fixed. Due to the repeated damage of the silt fencing in these locations, Ramboll recommends replacing the silt fencing with sediment control coir logs, which appear to be more effective in other locations on site. 2. Evidence of erosion noted upgradient of the southern most culvert in previous site inspections remains on site but in a stable condition (Photo 7). No evidence of sediment was observed in water flowing offsite at southern culvert during this site inspection. In addition, some minor erosion due to inadequate ground cover was also observed upgradient of the railway line, to the north of the middle culvert (Photo 11). Ramboll recommends replacing ground cover material (ballast) if further erosion occurs or sediment is visible in the downstream surface water. 3. Rock armour in drainage channel between southern and middle culverts appear to be in average condition (Photos 8 and 9). Ramboll recommends replacing or replenishing the armour in this drainage channel.		

¹Action Plan inspections must be completed by a UGL Representative suitably trained and experienced in application and management of erosion and sediment controls including stockpile management.

Section	Control	Inspection		Corrective Action
		Yes	No	
5.1	Is Exclusion Zone signage present as recommended on Figures 2a - 2e Appendix 1 to demarcate contamination in the rail formation and adjacent soils?	Yes (Photo 18)		
	Is Exclusion Zone signage undamaged?	Yes, exclusion zone signage appeared in good condition. Minor damage to signage surrounding concrete-capped stockpile was noted and this was fixed by UGL representatives on site post inspection.		
	Are sediment controls present in/adjacent each rail culvert?	Yes, rock checks and rock armour observed upgradient of each culvert. Coir sediment control logs west of former Woodlawn siding and along cess drain feeding the south and middle culverts. Silt fencing between middle and northern culvert.		
	If sediment is present what is the estimated depth of sediment?	Minor sediment presents on-site (<5mm).		
	Are sediment controls still functional?	Yes. Sediment controls in place were in average to good condition and no sediment was observed migrating off site. Recommendations included in 'Other Observations' section.		
	Is the existing stockpile covered securely to prevent surface water infiltration?	Yes.		
	Are cracks present in the capping of the existing stockpile? If so record the width and length of cracks in written form and through photographs and consolidate with this checklist.	Yes, minor hairline cracking is present on the stockpile, these remain stable and are not expected to adversely affect cap competency in current condition.		
	Are there signs of erosion or sediment run-off on or relating to the existing stockpile? If so record in written form and through photographs and consolidate with this checklist.	No. No erosion of, or sediment from the stockpile was observed.		
	Are there signs of vegetation on the existing stockpile? If so record in written form and through photographs and consolidate with this checklist.	Yes, several small-medium sized weeds were identified growing out from the stockpile from previous inspections. These are not expected to affect stockpile capping effectiveness.		
7.3	Is geofabric marker layer visible beneath capping of the existing stockpile? If so record in written form and through photographs and consolidate with this checklist. If marker layer is visible rectification work is required.	No		
	Have any additional stockpiles of contaminated material been created?	No		
	Are additional stockpiles placed away from drainage lines, gutters, stormwater pits or inlets?	n/a no additional stockpiles		
	Are stockpiles covered securely to prevent surface water infiltration?	n/a no additional stockpiles		
	Are stockpiles positioned on level surfaces with construction of bunds to control water ingress / egress.	n/a no additional stockpiles		

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Photo 1: Picture at northern end of Tarago railway station platform facing south, no airborne dust visible.



Photo 2: Picture facing north towards Tarago railway station, no airborne dust visible.

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Photo 3: Southern culvert downgradient of railway line with surface water flowing offsite. Surface water was clear with no visible turbidity or suspended solids.



Photo 4: Downgradient of middle culvert with pooled surface water, not flowing off site. Surface water near culvert was slightly brown with minor visible turbidity and suspended solids.

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Photo 5: Downgradient of middle culvert facing south with no surface water flowing off site at fence line.



Photo 6: Downgradient of northernmost culvert with no observed surface water. Trench line had been dug on adjacent property.

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Photo 7: Southernmost culvert upgradient of the railway line. The erosion due to lack of ground cover observed during multiple previous inspections is still present.



Photo 8: Southernmost culvert upgradient of the railway line. Sediment control coir logs in place and in good condition. Rock armoury in drainage channel between southern and middle culverts appear to be in average condition, with minor build-up of vegetation and sediment.

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Photo 9: Rock armoury in drainage channel between southern and middle culverts appear to be in average condition, with minor build-up of vegetation and sediment.



Photo 10: Rock armoury in drainage channel between southern and middle culverts appear to be in good condition, with minor build up of vegetation and sediment.

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Photo 11: Upgradient of railway line to the north of the middle culvert. Sediment fencing in place with large build-up of sediment. Some minor erosion due to inadequate ground cover was observed.



Photo 12: Sediment fencing in drainage line north of middle culvert has some new damage and sediment build up and needs to be replaced.

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Photo 13: Damage to sediment fencing in drainage line north of middle culvert that needs to be replaced.



Photo 14: Rock armoury in drainage channel between middle and northern culverts appear to be in good condition with minor vegetation and sediment build up.

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Photo 15: Upgradient of northernmost culvert with no surface water. No sediment build up was noted on rock armoury.



Photo 16: The concrete-capped stockpile is in good condition with no evidence of erosion.

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Photo 17: Minor damage to signage surrounding concrete-capped stockpile. UGL representative fixed and replaced ties after the site inspection.



Photo 18: Exclusion Zone signage present, undamaged and placed at appropriate intervals along the rail corridor.

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Photo 19: Damage to sediment fencing in drainage line north of middle culvert had been repaired by UGL staff. (Photo provided by UGL).

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