

Tarago Action Plan Routine Inspection Checklist

Date:	28-Mar-23	UGL RL Environmental Representative
Start time:	8:32 AM	completing inspection ¹ :
Finish time:	9:28 AM	[REDACTED]
Weather:	16.4°C, wind 9 km/hr NW, 92% humidity, 0.0mm rain since 9am yesterday, partly cloudy, very high change of BoM	
Date and volume of maximum rainfall in a 24hr period since last inspection?		
Date:	26-Mar-23	
Max volume (mm) in 24hr period:	33.6	
General Site Observations		
Is airborne dust from site evident?		
No airborne dust was visible (Photo 1)		
Is sediment run-off evident that is not captured by sediment controls?		
No. Some evidence of sediment was observed in pooled water on site before sediment controls (Photo 2), however no evidence of run-off of sediment past rail culverts (Photos 3 - 7)		
Is surface water discharging from site?		
Yes. Surface water discharging at a very slow rate from southern culvert. Vegetation established downstream of the southern culvert provides a natural filter for sediment. Some pooled water observed on site and immediately downstream of middle culvert but not discharging off site. No surface water at northern culvert (Photos 3-7)		
Is there evidence of excavation or other works non-compliant with the Action Plan?		
No		
Other observations?		
<p>As per recommendation from previous Inspection Checklist (dated 15-Mar-23), UGL staff were on site to remove the redundant fencing on the eastern site boundary next to the Station Masters Cottage (Photo 19) and to place a geofabric filter around the drain inlet between the main and loop lines (Photo 20). It is understood that wet weather has prohibited maintenance of vegetation on the stockpile.</p> <p>No sediment loading was observable in rock checks and armour. All locations with rock checks and armour remained in good condition.</p> <p>Silt fences were all in good condition with the exception of major damage to the silt fencing uphill of the rail line (western side) and to the south of the middle culvert (Photo 11). This damage was not present at time of last inspection on 15/03/2023. Ramboll recommends this silt fencing be replaced as soon as possible.</p> <p>Minor marker layer exposure was noted in two places on the eastern side of the stockpile (Photos 17-18). Ramboll recommends repairing these by patching with sand and cement mixture.</p>		

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.

s	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 (Photos 8-9)		
	Is Exclusion Zone signage undamaged?	Yes, signage was in good condition (Photos 8-9)		
	Are sediment controls present in/adjacent each rail culvert?	Yes, rock checks and rock armour observed upgradient of each culvert, silt fencing west of former woodlawn siding and along cess drain feeding the south and middle culverts (Photos 10-12).		
	If sediment is present what is the estimated depth of sediment?	Minor sediment present in pooled water on site (Photo 2) (<1mm), sediment present on silt fencing (~1cm) (Photo 13)		
	Are sediment controls still functional?	Yes, with the exception of silt fencing located south west of middle culvert (Photo 11). Refer to 'Other Observations' for recommendations.		
	Is the existing stockpile covered securely to prevent surface water infiltration?	Yes, the existing stockpile is covered securely.		
	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 (observed during an inspection 15/03/23), these remain stable and are not expected to adversely affect cap competency in current condition. Further details and size provided in Photo 14-15 .		
	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, minor weeds growing out of the side of the stockpile in multiple places (Photos 16-17). These are not expected to allow for water infiltration.		
	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.	Yes, geofabric marker layer visible in two locations on east of stockpile. Location and size detailed in Photos 17-18 , refer to 'Other Observations' section for recommendations. Weeds observed nearby to marker layer exposure, consider weed removal.		
7.3	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 of railway station facing north. No airborne dust visible in air or on surfaces at station.



Photo 2: Minor sediment in pooled water between rail tracks. Not flowing off site and located prior to sediment controls such as rock checks and armoury. Not considered to be of concern.

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Photo 3: Downgradient of southern culvert showing very slow surface water run off from site. Water was clear with no turbidity and no visible sediment. Algal blooms seen in photo.



Photo 4: Culvert outlet under Golburn street, downgradient of southernmost culvert on site, showing surface water run off on site. Water clear with no visible evidence of sediment.

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Photo 5: Downgradient of middle culvert. Pooled water but no evidence of current surface water run off on site. No sediment in water, slightly opaque from algae but low turbidity.



Photo 6: Causeway downgradient of middle culvert showing no evidence of current surface water run off on site. No visible sediment on road or vegetation nearby.

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Photo 7: Downgradient of northernmost culvert facing private property, showing no evidence of surface water run off on site and no evidence of sediment from previous surface water on site.



Photo 8: Exclusion zone signing placed periodically along contamination areas.

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Photo 9: Additional exclusion zone signage placed periodically along contamination areas.



Photo 10: Upgradient of southernmost culvert showing rock armour within drainage line and silt fencing used as control measures for sediment control.

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Photo 11: Rock checks and silt fences running towards the middle culvert. Major damage to silt fencing on southern side. No evidence of sediment build-up in rock armoury.



Photo 12: Pooled water with no sediment and sediment control measures of rock armoury within drainage trench towards northernmost culvert.

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Photo 13: Sediment build up captured by silt fencing upgradient of middle culvert prior to drainage trench. Approximately 1cm build up.



Photo 14: Minor hairline cracking on stabilised sand applied to the stockpile for capping running left to right on photo. Approximately 1-2mm x 3m.

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Photo 15: Minor hairline cracking in stabilised sand applied to the stockpile for capping. Approximately 1-2mm x 2m in size. Stable and not expected to allow for water infiltration.



Photo 16: Minor vegetation (weeds) growing out of stockpile capping. No marker layer visible.

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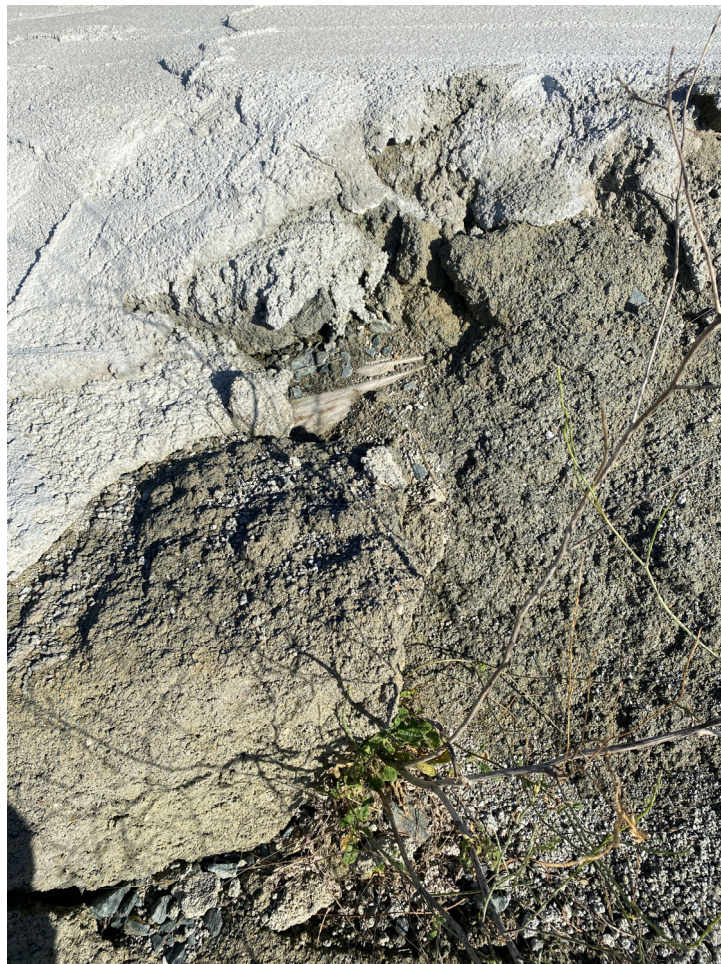


Photo 17: Stockpile marker layer exposure nearby minor vegetation growing out of capping. Approximately 10cm x 5cm. Ramboll recommends patching using sand and cement mixture.



Photo 18: Stockpile marker layer exposure in capping (middle right in photo). Approximately 2cm x 3cm. Ramboll recommends patching using sand and cement mixture.

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Photo 19: UGL on site. Removed damaged redundant silt fencing adjacent to the boundary of the Station Masters Cottage as per recommendations from Inspection Checklist dated 15-Mar-23.



Photo 20: UGL on site. Placed geofabric filter over drain inlet between the main and loop lines as per recommendations from Inspection Checklist dated 15-Mar-23.

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