

Ballast - Shoulder Clean - Manual

Scope

- Includes: Removal of ballast shoulder contaminated with oil, effluent and fines.
- Excludes: Ballast contaminated with hazardous chemicals or asbestos

Preparation

Tools, equipment and plant items required but not limited to:

- Shovels and forks
- Kango and attachments
- Wheelbarrows
- Approved rail thermometer

Work planning considerations:

- CAT scan and buried services check
- Traction requirements
- Signalling requirements
- Site access requirements
- Weather precautions and rail temperature
- Materials requirements
- Waste removal

Method

1. Check the rail temperature is within safe working limits.
2. Ensure CAT scan and buried services check results are suitable for the area to be worked on.
3. Ensure watercourses and drains are protected from contamination during works.
4. Loosen ballast around the shoulder to be excavated.
5. Dig out the ballast shoulder and between sleepers up to the outside of the rail, in sections of no more than 3 sleeper bays in length. Dig to a depth below the bottom of the sleeper where either clean ballast is present or as instructed. If geotextile is encountered during excavation, refer to line manager for further instruction.
6. Ensure a cross fall is maintained in accordance with NR/SP/TRK/102 i.e. 1:20 towards drain or 1:20 towards cess and continuous away to beyond the ballast shoulder.
7. A ballast fork may be used to sieve ballast from the fines, and the cleaned ballast can be re-used.
8. Back fill, compact and restore the ballast shoulder to the specified dimensions.
9. Ensure disposal of waste ballast or fines in accordance with company procedures. Refer to NR/PRC/MTC/EN0100 Waste Management.

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References

Supports Ellipse Standard job

- 009227 Ballast - Shoulder Clean - Manual

If applicable refer to the following associated documents:

- NR/SP/TRK/001 Inspection and Maintenance of Permanent Way
- NR/SP/TRK/102 Track Construction Standard
- NR/SP/TRK/0011 Continuous Welded Rail (CWR) Track
- NR/PRC/MTC/EN0100 Waste Management
- NR/L3/TRK/002/B03 Ballast – Regulate - Manual
- NR/GN/TRK/7001/TWI2B004 How to regulate ballast by hand
- NR/GN/TRK/7001/TWI2L001 How to clean a ballast shoulder

- Risk Control Sheets:
- NR/L3/MTC/0002/TK000 Generic Track Risks
- NR/L3/MTC/0002/TK103 Working with ballast – Regulate, glue shoulder, clean contaminant & wet beds