

PIPELINE UPGRADE WORKS

PROJECT:	Sunwater Pipeline Upgrade	PROJECT MANAGER:	Shannon Cleary
LOCATION:	Martinus Gas Easement - Glenden	SUBSTRATE:	Mild Steel
DATE:	February to March, 2021	SCOPE:	Installation of reinforcing collars, abrasive blast, and Canusa Wrapid Heat Shrink Sleeve System application



SAFETY AND ENVIRONMENTAL REQUIREMENTS

Area Setup:

- Workgroup separation – Barricading, signage, communication
- Welding screen establishment
- Full environmental containment erected

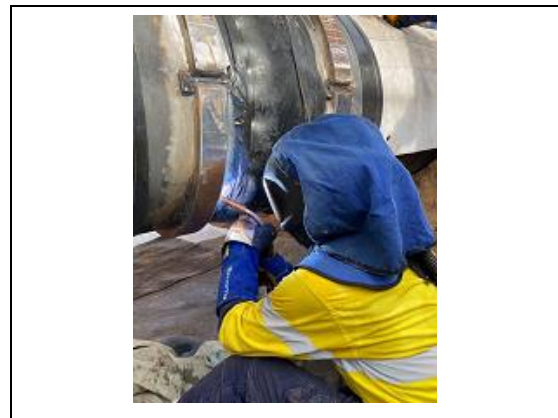
REINFORCING COLLAR INSTALLATION REQUIREMENTS:

Application Process: FCAW

Acceptance Criteria: AS/NZS 1554.1SP:2014

Testing/ Monitoring Requirements:

Hydrostatic testing



POTABLE WATER PIPELINE COATING REPAIR CASE STUDY



REINFORCEMENT COLLAR INSTALLATION

Preparation and trial fitment

Application Method: Removal of surface contaminants and fit Collars. Secure into position with stitch welds

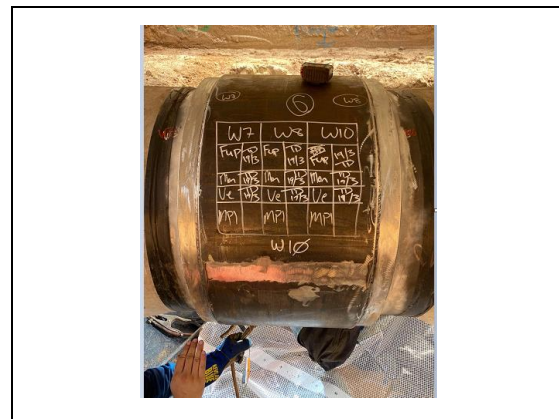
Testing/ Monitoring Requirements: Visual fit up checks,
Ensuring collar flush with parent material

Conduct Welding of Reinforcement Collars

Joint Details: Full penetration butt weld and Fillet welds applied.

Welding Parameters: Continuously surveyed via Qualified Welding Supervisor to ensure compliance to weld procedures.

Testing/ Monitoring Requirements: Visual, magnetic Particle and Ultrasonic examination of all welds to ensure Compliance to relevant welding standards.



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POTABLE WATER PIPELINE COATING REPAIR CASE STUDY



SURFACE PREPARATION REQUIREMENTS:

Protection established at coating margins
Abrasive blast to SA2.5 – Near White Metal blast
and brush blast existing Sintakote coatings



PROTECTIVE COATING SYSTEM APPLICATION

System:

Butyl Primer – 50um
Mastic Tape – to smooth transition
Heat Shrink Sleeve
Rock Wrap Tape

Butyl Primer

Application Method: Brush/Roller

Required DFT – 50um

Testing/ Monitoring Requirements: Dry film thickness & continuous atmospheric monitoring including data logging

Mastic Tape

Application Method: Hand Application

Required DFT: N/A Testing / Monitoring

Requirements: Full visual inspection to ensure smooth transition achieved over voids and welds.



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POTABLE WATER PIPELINE COATING REPAIR CASE STUDY



Heat Shrink Sleeve

Application Method: Hand applied and heated with butane torches uniformly until shrinking achieved.

Required DFT: N/A Testing / Monitoring

Requirements: Full visual inspection and high voltage holiday testing completed to SP0188 requirements.



Rock Wrap Tape:

Application Method: Hand applied

Required DFT – N/A

Testing/ Monitoring Requirements: Full visual inspection to ensure uniform application with adequate coverage for mechanical damage during backfilling process.

NOTES/OVERVIEW

These works were completed within 7 working days within required surface preparation requirements and stringent atmospheric parameters. All works were completed ahead of schedule with the client communicating to the team at De Goey Contractors a thanks for our excellent work. At De Goey Contractors, you're in good hands!



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