

Delivering the Bank Station Capacity Upgrade Project

Innovation through Collaboration

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- Bank Station Capacity Upgrade
- Collaboration at Bank
 Combined Lining Design
 Pile Load Transfer Structures
 SCL Replacing Squareworks
 Option A Joint
 - Construction Progress Challenges and Successes on Site Productivity Resources and Equipment
 - **Current and Upcoming Works**





Bank Station Capacity Upgrade







Bank Station Capacity Upgrade

Safely together





Combined Lining Design

Safely together



SCL Replacing Squareworks and the

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Dr. SAUER & PARTNERS

SCL Replacing Squareworks



SCL Replacing Squareworks

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Option A Joint

Step 1: Primary SCL at stepped joint



Step 2: Toe break-off



Step 3: Primary lining to full thickness











Construction Progress so far





Construction Progress so far – Central & WBS





Challenges and Successes – Site Establishment



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Challenges and Successes – AST Shaft Sinking



stand4safety

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Resources and Equipment - Excavation







Resources and Equipment – Concrete Supply















Resources and Equipment – Dust & Ventilation



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-	Prod	IUCTI	

Tunnel	Dia	Shift	m/day (ave.)		Comment
NL RT & pilot	4.9m	12hr	2.0	Full Face	Including initial plant chamber
		8hr	2.7		
NL Platform	9.8m	12hr	1.2	TH - INV	Enlargement from pilot
		8hr	1.5		220
CP3	8.2m		1.3	TH - INV	210 205 200 195 190 185
CL-MW	7.7m		1.8	TH - INV	195 170 165 160 155



NL Platform Tunnel Planned vs Actual









Current Works – Waterproofing







- PVC and Mapelastic spray membranes
- 2 layer system
- Mapelastic is water based, supplied premixed and dust free
- Waste is minimised and it is simple to spray









Thank you for your attention





