

Stratford Coal CCC Meeting

Presentation –
Company Report & Overview
of Activities

August 2023

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Senior Environment & Community Advisor

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1. Progress at the Mine

Mining 2nd Quarter 2023

	Total Waste (BCM)	ROM (T)	Product Coking (T)	Product Thermal (T)
Q2 2023	969,306	145,078	11,836	48,424

Note: Total Waste BCM includes mine rehandle

- Mining in Avon North continued during the quarter. Day and evening shift.
- Backfilling of Roseville West Pit commenced in April 2022 with most waste taken to this pit.
- Minor BRN backfilling has continued during the quarter.
- In September 2023, mining operations will reduce to a single excavator and truck fleet operating in Avon North. This is due to the reduced area available as mining progresses deeper in Avon North Pit. This will result in a reduction of the current workforce. CHPP processing will reduce proportionally.

2. Environmental Reporting & Regulators

Management Area	Project	Status
Reporting	<ul style="list-style-type: none"> Stratford Mining Complex Annual Review 2022 Stratford Mining Complex Annual Biodiversity Report 2022 EPBC Approval Annual Compliance Report 	<ul style="list-style-type: none"> The Stratford Mining Complex 2022 Annual Review has been prepared and submitted to DPE and other regulators in March 2023. Once approved, the 2022 Annual Review will be distributed to the CCC member and made available on the Stratford Coal website. The Stratford Mining Complex 2022 Annual Biodiversity report has been completed. The Annual biodiversity report will be included in the 2022 Annual Review. The EPBC 2022 Annual Compliance Report has been prepared and submitted in March 2023. The report is available on the Stratford Coal Website.
Regulator	<ul style="list-style-type: none"> Environmental Management Plans 	<ul style="list-style-type: none"> SCPL has prepared revisions of the Stratford Environmental Management Plans to reflect the current status of the SMC. The revised plans have been progressively submitted to DPIE for approval and approved plans have been made publicly available on the Stratford Coal Website.

3. Environmental Management Plans & Monitoring

- a) Air Quality Management
- b) Blast Management
- c) Noise Management
- d) Water Management
- e) Rehabilitation Management
- f) Biodiversity Management
- g) Mine Closure Planning

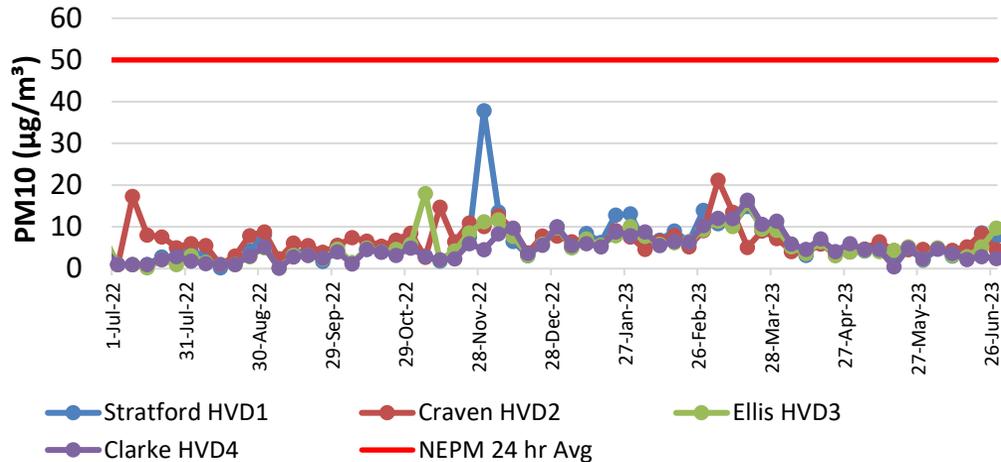


3a. Air Quality Management

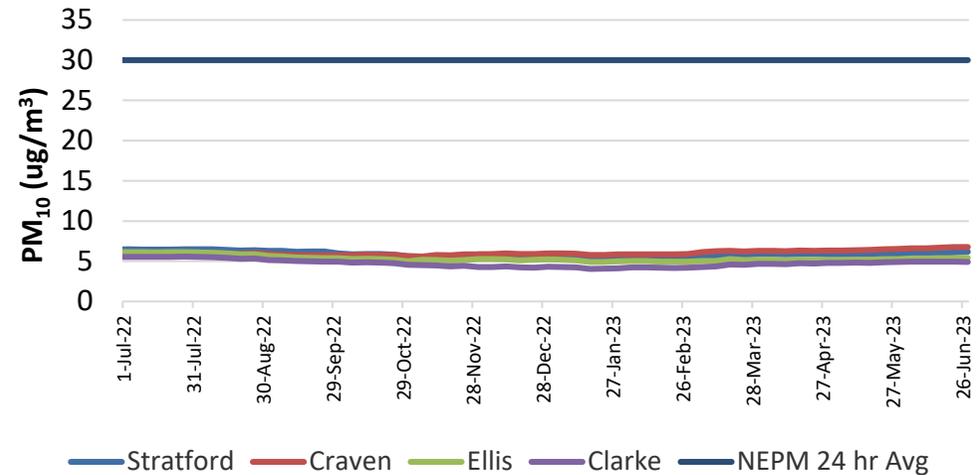
Management Area	Project	Status
Air Quality Monitoring	<ul style="list-style-type: none">Real-time air quality monitoring	<ul style="list-style-type: none">The real-time air quality TEOM monitors in Stratford and Craven villages continue to operate.General ambient PM10 dust levels are showing minor increases due to decreased rainfall.The real-time air quality management system analyses monitoring data from the TEOM units and records times when the air quality criteria is likely to be exceeded. The system will then provide alarms to staff to implement additional dust mitigation measures where required.No triggers have been received relating to mining operations.

3a. Air Quality Management

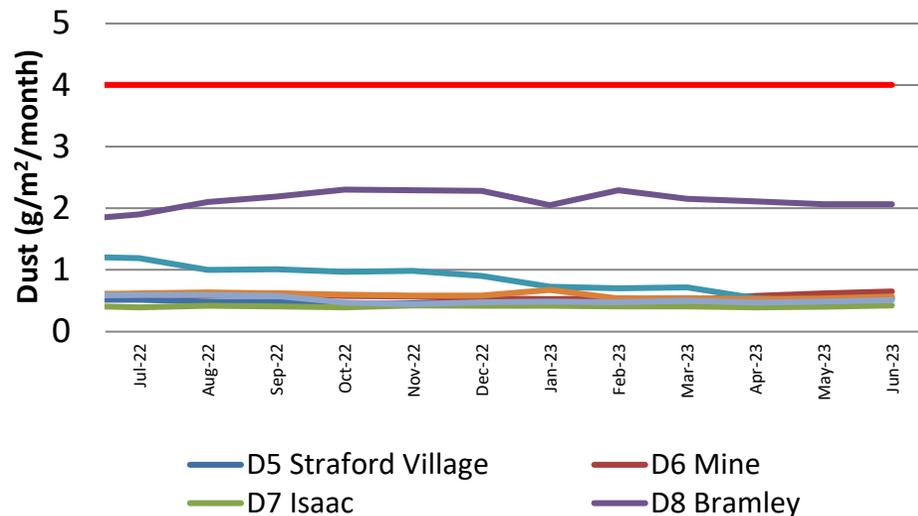
**Stratford HVAS Monitoring - Particulate Matter (PM10)
12 Months to June 2023**



**Stratford HVAS Monitoring (PM₁₀)
Annual Rolling Average - 12 Months to June 2023**



**Stratford Dust Deposition - Annual Rolling Average
12 Months to June 2023**



- Generally good overall air quality.
- All sites below DPIE limit. Air quality results lower during months with higher rainfall.
- Consistent air quality results with minor elevation seen in HVAS results on hot and windy days.
- HVAS results provide more reliable data compared to dust deposition results and should be referred to when interpreting dust emissions.

3b. Blast Management

Management Area	Project	Status
Blasting	<ul style="list-style-type: none">• Blast Monitoring• Blast Results• Blasting Preparations	<ul style="list-style-type: none">• Blasting activities continued in Avon North Pit.• For the current annual reporting period there have been no blast exceedances (<i>No more than 5% of total blasts allowed to exceed the 115dbI</i>).• No blasts exceeded the 5mm/s during the quarter. For the annual reporting period no blasts have exceed 5mm/s.• Blast notifications have continued.• Additional recipients have been added to the notification list on request.
Building Inspections	<ul style="list-style-type: none">• Baseline condition inspections	<ul style="list-style-type: none">• None requested.

3b. Blast Management

Date	Time	Isaac (B1) <u>7432</u>		Ex-Judge (B2) <u>7441</u>		Atkins (B6) <u>7434</u>		Greenwood <u>7422</u>		Clarke (B5) (Mine-owned) <u>7433</u> (previously 7377)		Bagnall (Extrapolated result)		Overpressure Site Exceedance ¹	Ground Vibration Site Exceedance ¹	Monitored Blasts ¹
		mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	dBL	%	%	
	24hr															
Monday, 3 April 2023	12:37:53	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.46	93.3	0.32	89.4	0.00%	0.0%	42
Tuesday, 4 April 2023	12:41:10	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.43	94.3	0.63	98.2	0.00%	0.0%	43
Thursday, 6 April 2023	12:41:08	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.35	106.6	0.24	102.7	0.00%	0.0%	44
Thursday 13 April 2023	12:30?	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	45
Friday, 21 April 2023	12:46:25	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.58	112.8	0.40	108.8	0.00%	0.0%	46
Monday, 24 April 2023	12:33:53	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.37	93.0	0.26	89.1	0.00%	0.0%	47
Friday, 28 April 2023	12:33:23	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.47	94.3	0.31	89.9	0.00%	0.0%	48
Wednesday, 10 May 2023	12:39:07	0.31	99.1	<0.24	<114	<0.24	<114	<0.24	<114	1.15	106.4	0.76	102.1	0.00%	0.0%	49
Friday, 12 May 2023	12:33:28	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.37	100.9	0.24	96.4	0.00%	0.0%	50
Thursday, 18 May 2023	9:19:24	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	1.46	109.5	1.00	105.5	0.00%	0.0%	51
Friday, 19 May 2023	12:36:35	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.57	99.7	0.38	95.3	0.00%	0.0%	52
Friday, 26 May 2023	12:22:00	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	53
Friday, 2 June 2023	12:31:51	0.31	85.1	<0.24	<114	0.34	109.1	<0.24	<114	1.03	100.3	0.69	96.1	0.00%	0.0%	54
Tuesday, 6 June 2023	12:31:31	<0.24	<114	<0.24	<114	0.25	106.0	<0.24	<114	0.97	101.5	0.66	97.4	0.00%	0.0%	55
Thursday, 8 June 2023	12:39:57	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	1.41	99.0	0.96	94.9	0.00%	0.0%	56
Friday, 9 June 2023	12:36:00	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	57
Friday, 16 June 2023	12:39:50	0.23	85.1	<0.24	<114	0.31	113.7	<0.24	<114	1.22	103.0	0.79	98.5	0.00%	0.0%	58
Friday, 23 June 2023	12:32:08	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.50	103.4	0.33	98.9	0.00%	0.0%	59
Tuesday, 27 June 2023	12:49:07	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	1.06	112.7	0.72	108.6	0.00%	0.0%	60
Friday, 30 June 2023	12:39:53	0.26	85.1	<0.24	<114	<0.24	<114	<0.24	<114	0.91	112.5	0.61	108.2	0.00%	0.0%	61

- *Note: Blast Compliance: No more than 5% of total blasts for annual monitoring period to exceed an overpressure of 115 dBL or ground vibration of 5 mm/s. No blast is to exceed an overpressure of 120 dBL or ground vibration of 10 mm/s.*
- *Note: Where no trigger is recorded the results indicate <0.22mm/s and <110.0dBL corresponding to the blast monitor settings.*
- *Note: Blast results for Clarke are extrapolated to the next nearest non-mined owned residence.*

3c. Noise Management

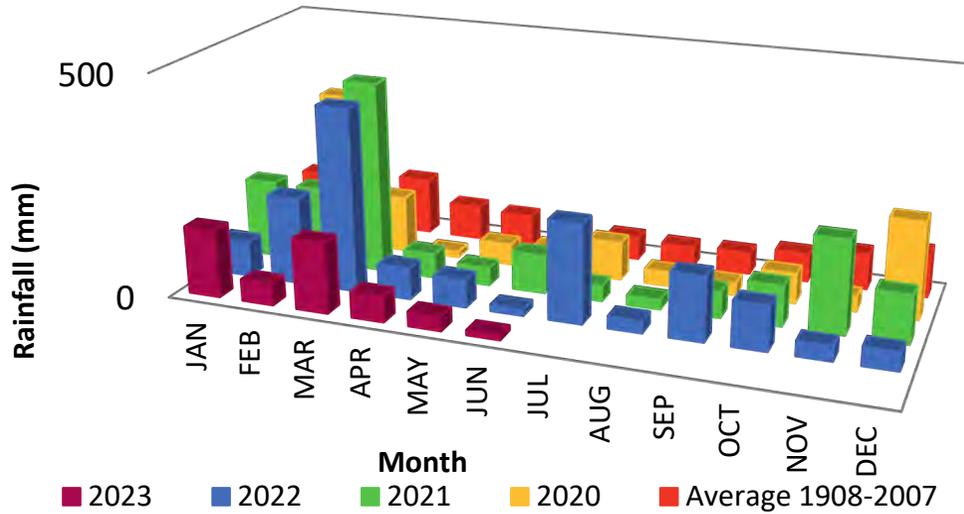
Management Area	Project	Status
Monitoring	<ul style="list-style-type: none"> Monthly Noise Survey Sound Power Monitoring 	<ul style="list-style-type: none"> Monthly attended noise monitoring rounds were undertaken during Q2 2023. No non-compliant results were recorded during the surveys. Q2 reports have been made available on the Stratford Coal website. The next monitoring is scheduled in August 2023. Sound Power Level Noise Monitoring of the mobile plant fleet was undertaken in October 2022 and retesting of the fleet commenced in May and is scheduled to be completed in August 2023.
Real-Time Noise	<ul style="list-style-type: none"> Real-Time Noise System Noise forecast reports 	<ul style="list-style-type: none"> Real-time noise monitors continue to operate near Stratford Village and Craven Village. The integrated real-time noise management system is operational. The system analyses monitoring data from the noise units, the weather station and the inversion towers and records times when either the noise criteria is likely to be exceeded or when noise enhancing weather conditions are present. The system will then provide alarms to staff to implement additional noise mitigation measures where required. Daily predicted noise and dust forecast reports are generated and are issued to the mining supervisors prior to each shift.

3d. Water Management

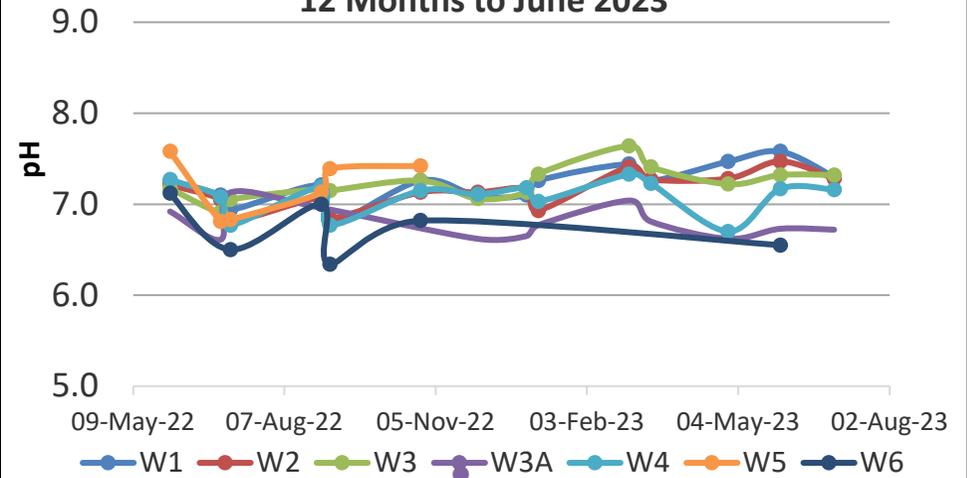
Management Area	Project	Status
Site Water Management	<ul style="list-style-type: none"> Annual Water Balance Review 	<ul style="list-style-type: none"> The 2022 Annual Site Water Balance has been prepared. A summary is included in the 2022 Annual Review and will be made available on the Stratford Coal website.
Water Management Structures	<ul style="list-style-type: none"> Avon North and Stratford East Clean Water Diversions 	<ul style="list-style-type: none"> Ongoing inspections, monitoring and maintenance have been completed in Q2 2023. Upgrades to the Stratford East Clean Water Diversion have been completed in Q2 2023.
Surface Water Monitoring	<ul style="list-style-type: none"> Routine monitoring 	<ul style="list-style-type: none"> Routine water sampling continued. All results consistent with the SMC Environmental Assessment predictions. <u>Below</u> average rainfall was received during Q2 2023. Elevated Electrical Conductivity results at Surface Water Monitoring Point W5 were observed. Deemed to be due to semi stagnation of the pools of water adjacent to the monitoring point. High TSS (Total Suspended Solids) result observed at Monitoring Point W1 in September, elevated reading observed to be a result of rain runoff from a nearby private and publicly owned land.
Groundwater Monitoring	<ul style="list-style-type: none"> Routine monitoring 	<ul style="list-style-type: none"> Routine groundwater sampling continued. All results consistent with the SMC Environmental Assessment predictions.

3d. Water Management

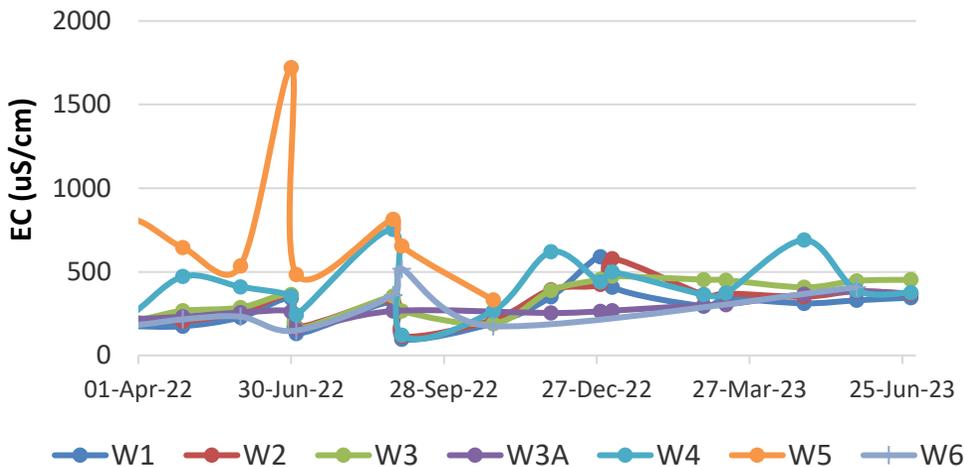
Stratford Mining Complex - Monthly Rainfall



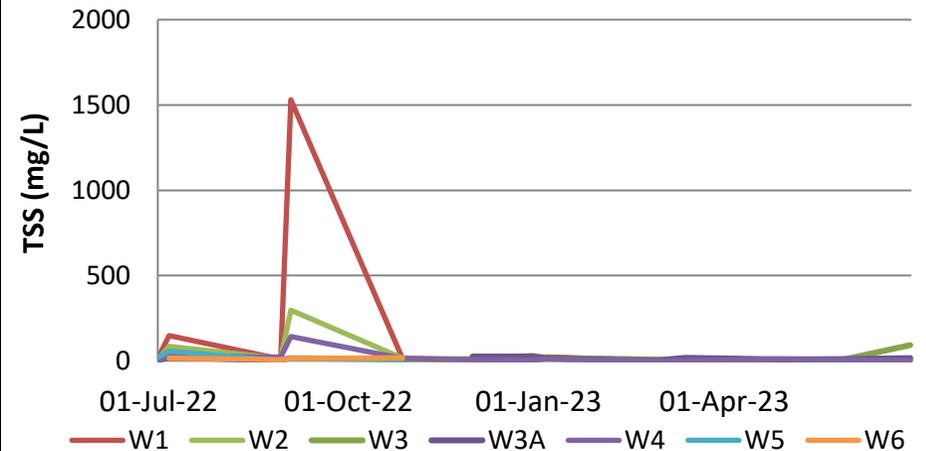
pH - Avon River & Avondale Creek 12 Months to June 2023



EC - Avon River & Avondale Creek 12 Months to June 2023



TSS Avon River/Avondale Creek 12 Months to June 2023



3e. Rehabilitation and Biodiversity Management

Management Area	Project	Status
Rehabilitated Waste Emplacements	<ul style="list-style-type: none"> Backfilling and bulk-shaping 	<ul style="list-style-type: none"> Backfilling in Roseville West Pit and Bowens Road North has continued in Q2 2023.
Monitoring	<ul style="list-style-type: none"> Vegetation Monitoring - Ecosystem Function Analysis 	<ul style="list-style-type: none"> Rehabilitation monitoring incorporating landscape function analysis and vegetation dynamics was completed in April 2023. A summary of the results will be included in the 2023 Annual Review.
Biodiversity Offset Area	<ul style="list-style-type: none"> Revegetation works Revegetation Planning 	<ul style="list-style-type: none"> In Q2 2023, 18,800 Native Trees and Shrubs were planted in offset properties near Woods Road and Stratford Village. Additional plantings have been undertaken along Wenham Cox Rd. Three year revegetation planting and infill plan has been completed. This project will include approximately 3400 plants planted into 4 areas to complete revegetation in the Biodiversity Offsets and Biodiversity Enhancement Areas.



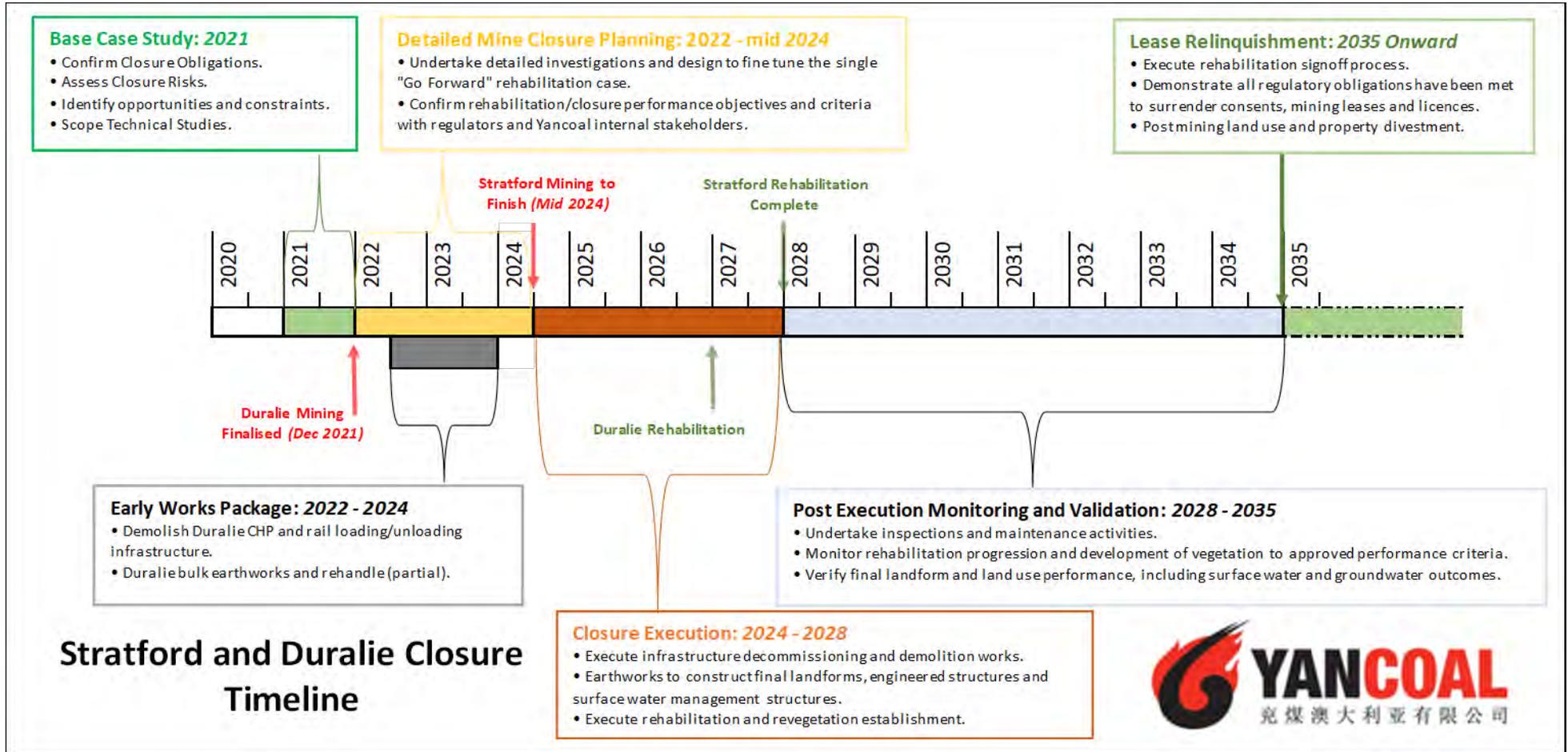
Plate 1: Rip lines installed in preparation for planting at Wenham Cox Rd

4. Mine Closure – General Information

Mine Closure Progress

- Condition 5, Schedule 2 of the SMC's Development Consent (SSD_4966) authorises mining operations to be carried at the SMC until 31 December 2025.
- Mining operations at Stratford are currently planned to be completed in approximately mid-2024 at which time the site will transition to closure.
- Ongoing bulk earthworks and rehabilitation activities following the completion of coal mining are planned until approximately 2027.
- SSD_4966 and the Mining Leases continue to be in force until the site is rehabilitated in accordance with the conditions and to the satisfaction of DPIE and the Resources Regulator.

4. Detailed Mine Closure Planning – Closure Timeline



4. Mine Closure Planning

Management Area	Project	Status
Mine Closure Planning General	<ul style="list-style-type: none"> Detailed Mine Closure Planning Program 	<ul style="list-style-type: none"> SCPL Mine Closure Planning studies are ongoing with current completion expected in the first half of 2024. Closure studies duration and iterations to optimise landform outcomes have been greater than previously anticipated. These studies will inform closure works. Earthworks and rehabilitation activities planned for approximately 3 years post-mining.
Rehabilitation Management Plan	<ul style="list-style-type: none"> Rehabilitation Management Plan, including Closure Plan 	<ul style="list-style-type: none"> The RMP is available on the Stratford Coal website. Final landform rehabilitation plans have been submitted to the Resources Regulator. Yancoal and the Resources Regulator acknowledge that the currently proposed landforms may change as the closure planning program evolves.
Closure Risk Assessment	<ul style="list-style-type: none"> Mine Closure Risk Assessment review 	<ul style="list-style-type: none"> The Mine Closure Risk Assessment is now attached as an appendix to the RMP. A mid-point risk assessment has been undertaken for the various aspects of closure. The risk assessment will be reviewed and updated again prior to the Closure plan being completed. A post closure public safety risk assessment has been undertaken. Outcomes are used to inform closure project requirements.
Environmental Management Plans	<ul style="list-style-type: none"> EMP reviews for closure stage 	<ul style="list-style-type: none"> EMPs will be progressively reviewed and updated to reflect the current stage of operations and ongoing rehabilitation and mine closure requirements. EMPs will identify post-closure environmental monitoring and maintenance requirements. Post-closure monitoring and maintenance activities will continue until the specific completion criteria has been met and confirmation has been received from the relevant authority.
Stakeholder and Community	<ul style="list-style-type: none"> Stakeholder engagement strategy 	<ul style="list-style-type: none"> Communications with the CCC regarding mine closure planning is ongoing. This presentation will continue to be updated to provide relevant information through the CCC forum. Workforce updates are on-going. A Community Liaison position has been created to assist with stakeholder engagement. Recruitment is in progress.

4. Mine Closure Planning

Management Area	Project	Status
Final land use	<ul style="list-style-type: none"> Potential final land-use planning 	<ul style="list-style-type: none"> The target post-mining land uses for previously disturbed mining land are defined in the RMP and shown in Plan 1 of the RMP.
Rehabilitated Landforms	<ul style="list-style-type: none"> Landform design and stability 	<ul style="list-style-type: none"> Landform designs are presented in the RMP. Preparation of a geotechnical assessment and specifications for the final void design have continued to ensure the long-term void is safe and stable. Further landform refinement will be undertaken as part of the on-going mine closure planning. Detailed design of landforms and drainage are expected to be finalised by mid 2024.
Water Management	<ul style="list-style-type: none"> Site water Balance 	<ul style="list-style-type: none"> Water management and water balance modelling is progressively being revised as part of the Mine closure plans, such as water diversion, drainage construction and rehabilitation sequencing. Water management infrastructure designs are being progressed (Drains, culverts).
Final Voids	<ul style="list-style-type: none"> Water management and final void water balance 	<ul style="list-style-type: none"> Void water balance modelling is being progressively revised as part of the Mine closure plans including landform and rehabilitation sequence iterations. Further modelling and assessment is required to ensure the final landform design achieves suitable outcomes in relation to final void spill risk, groundwater migration, waste emplacement seepage and potential for acid rock drainage. This work is ongoing and will form an important part of the closure program.
Infrastructure	<ul style="list-style-type: none"> Infrastructure Decommissioning & Demolition Strategy 	<ul style="list-style-type: none"> Hazmat, contamination and other supporting studies for the removal of infrastructure and other assets have been undertaken. Initial site clean-up has been completed. Staged decommissioning and demolition planning is in progress. Options for sale, reuse and recycling are being investigated. Infrastructure will be progressively decommissioned where not required to support closure works. Infrastructure to be retained will be subject to approval by the Resources Regulator
Biodiversity Offset	<ul style="list-style-type: none"> Biodiversity Offset Integration 	<ul style="list-style-type: none"> Integration of the biodiversity offset strategy is a key component of the rehabilitated final land form and land use. SCPL will undertake an assessment of the SMC Biodiversity Offset Areas and Biodiversity Enhancement Areas to confirm completion of the Biodiversity Offset Strategy completion criteria and integration with the SMC rehabilitation.

4. Community Complaints - Summary

- No complaints to report in Q2 2023

5. Community Programs

Management Area	Project	Status
Support Programs	Stratford Coal Community Support Program	<ul style="list-style-type: none"> • Applications for the 2024 Community Support Program will re-open on 14 August 2023. • The CCC, previous applicants and the wider community will be notified via Email, social media and community notice boards. • The CSP is a voluntary initiative and Yancoal has decided to continue with this program until bulk works and rehabilitation are completed at Stratford and Duralie. As such the CSP is expected to run until approximately 2028, although its rehabilitation timeline is subject to change.
	Stratford Coal Education Support Fund	<ul style="list-style-type: none"> • The Stratford Coal Education Support Fund applications closed on 31 January 2023. • The 2023 ESF has been finalised and grants confirmed in March 2023. In 2023, a total of \$36,500 has been granted to students and local businesses supporting 11 x Tertiary courses, 4 x TAFE courses and 2 x Apprenticeships.



NEED FUNDING TO HELP IMPROVE OUR LOCAL COMMUNITY?

Yancoal Community Support Program call for applications

Stratford Duralie Coal Mine is a proud and active member of the Local community. Yancoal's 2024 Community Support Program offers community groups the opportunity to apply for funding to support projects, events and initiatives that help make a genuine positive difference to Gloucester, Stroud and District.

If you have a project or idea with the potential to benefit others across the areas of health, community, environment, arts, culture, education or training, please visit: www.stratfordcoal.com.au or www.duraliecoal.com.au

Applications close
on 30th September 2023



6. Stratford Renewable Energy Hub (SREH) - Update

- Yancoal is continuing to investigate the potential for a renewable energy hub at the Stratford mine site
- Ongoing activities include:
 - Drilling to investigate ground conditions and project design
 - Detailed Feasibility Study (FS)
 - Environmental studies to inform an Environmental Impact Statement (EIS)
 - Stakeholder engagement and distribution of fact sheets
- Recently completed activities:
 - Registered Aboriginal Parties (RAP) registration process
- Activities proposed over the next three months:
 - Scoping Report submission to the Department of Planning and Environment (DPE) and request for Secretary's Environmental Assessment Requirements (SEARs)
 - EPBC Referral under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*

Website and contact information:

- www.stratfordcoal.com.au/page/SREH/
- SREH.feedback@Yancoal.com.au