

Minutes

Meeting:	Centennial Western Region CCC
Date:	Wednesday, 11 May 2022
Location:	Angus Place Colliery
Time:	3.30pm – 5pm
Independent Chair:	Darryl Watkins
Attendees: Committee Members	Mayor Maree Statham, Lithgow Council Linda Cluff, Community Representative Jeff Smith, Community Representative Joe Smith, Community Representative Paul Curran, Community Representative James Marshall, (Group Manager Stakeholder Engagement): Centennial Craig Flemming, (Environmental Consultant: Angus Place Colliery) Natalie Gardiner, (Environment and Community Coordinator: Springvale Colliery) William Olsen, (Environment, Coal Services and Lidsdale Siding)
Attendees: Guests	<ul style="list-style-type: none"> • David Craft (Mine Manager: Angus Place Colliery) • Dennis Wallace (Mine Manager: Springvale Colliery) • Makenzie Denley (Environmental Graduate)
Apologies	Lauren Stevens, Lithgow Council

Action Items	Responsibility
1. Regarding the pine trees on the old Commonwealth site, the company is to write to the Progress Association informing them of the requirement that the Company's obligation was to make the site safe and subsequent removal of all the trees may occur in the future.	James Marshall (Centennial)

<p>2. It was agreed that the Chair would facilitate a possible Lidsdale Siding site visit prior to the next CCC on 17 August 2022. A suitable time to suit the operation is to be discussed with Centennial representatives and report back to the CCC members with a confirmed time for this Lidsdale Siding site meeting.</p>	<p>Darryl Watkins (Chair)</p>
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Minutes	Action
<p>Welcome, Acknowledgement of Country & meeting rules (DW)</p> <ul style="list-style-type: none"> • The Chair welcomed all CCC Members and Guests and particularly the new CCC member Paul Curran as a community representative. • The Chair acknowledged the traditional custodians of the lands. • The Chair thanked everyone for attending and that this forum is an excellent forum to raise matters that are important to the community and take matters raised in the presentations/discussions back to the community. This forum should be a conduit between the company and the community. • The Chair also thanked the group for making him feel welcome as the new Chair of the CCC. The Chair outlined his goal for these CCC meetings to be informal and inclusive yet relaxed whereby everyone feels comfortable in raising important issues. • The Chair outlined the rules for the CCC meeting in that CCC members refrain from asking questions during the company presentations and explained the procedure of CCC members raising their hands during the presentation and an ongoing list of names will be kept by the Chair and at the end of each presentation all questions will be answered in an orderly fashion. 	
<p>Apologies & CCC membership update (DW)</p> <p>Lauren Stevens – Lithgow Council</p>	
<p>Code of Conduct & Pecuniary / non-pecuniary interests (DW)</p> <p>DW reinforced the Code of Conduct and emphasised that CCC members and guest speakers should respectfully engage with each other. DW reinforced that we want an atmosphere of open and constructive discussion. DW requested any updates on pecuniary or non-pecuniary interests and asked participants if they needed to update the group. No updates were provided.</p>	

<p>Previous Meeting – Action Items (DW)</p> <p>There were no outstanding action items from the previous meeting</p>	
<p>Angus Place report and Q&A/Discussion</p> <p>Angus Place company representatives provided a report on the current matters relating to Angus Place and Angus Place West. The following matters were raised in the presentation and the presentation is attached:</p> <ol style="list-style-type: none"> 1. Angus Place – Background 2. Location 3. Important statistics on Angus Place West 4. Mine layout for Angus Place West 5. Existing mine workings 6. Mining methods and subsidence 7. Coal logistics 8. A listing of the required EIS Assessments Reports 9. Project justification 10. Project timeline 11. Operations Summary 12. Environmental Performance since the last meeting 13. Upcoming activities 14. No community complaints were received in this reporting period <p>Following the comprehensive report, the Chair sought questions from the CCC members regarding the presentation and the following were questions raised and key points discussed.</p> <ol style="list-style-type: none"> 1. The Angus Place West scope was confirmed. First workings bord and pillar meaning no secondary extraction is proposed. 2. All Run Of Mine (ROM) coal will be brought to the Angus Place pit top and then transported to Mt Piper by a dedicated haul road. 3. A question was asked regarding the removal of the pine trees from the old Commonwealth site. Since the 2019 bushfires, the impression from the community was that all these trees would be removed. Is that true? No, the strategy was to make this site safe. Complete removal of all the trees may occur in the future. A suggestion and action item arose that a letter is drafted to the Progress Association informing them of the above. 	<p>ACTION</p>

Springvale Colliery report and Q&A/Discussion

Springvale Colliery company representatives provided a report on the current matters relating to Springvale Colliery. The following matters were raised in the presentation and the presentation is attached:

1. Springvale Colliery Pit Top Layout
2. Newnes Plateau Layout
3. Site details and consent requirements
4. Operations summary
5. Air Quality
6. Rainfall data
7. Water Quality
8. Total suspended solids
9. Electrical Conductivity
10. Oil and Grease
11. Water volume
12. Noise levels
13. Extraction Plan 428-432

Following the comprehensive report, the Chair sought questions from the CCC members regarding the presentation and the following were questions raised and key points discussed.

1. A question was asked as to what is the tonnage loss due to the shortened longwalls and mine design changes? Approximately 5.5 million tonnes have been lost.
2. Discussion also ensued regarding the adaptive mine design implementation to avoid the impact on the swamps
3. A positive discussion occurred regarding the workforce roster rotation being implemented. The current workforce for Springvale is 330.
4. There was also a good discussion on the coexisting relationship and the state’s power requirements.

Springvale Coal Services and Lidsdale Siding report and Q&A/Discussion

Springvale Coal Services (SCS) and Lidsdale Siding company representative provided a report on the current matters relating to SCS and Lidsdale Siding. The following matters were raised in the presentation and the presentation is attached:

1. SCS Background
2. Lidsdale Siding Background
3. SCS Environmental Performance Overview
4. SCS - Air Quality (Depositional Dust)
5. SCS – Air Quality (PM10)

<p>6. SCS – Noise 7. SCS – Water 8. Operational Update: Energy Australia Handback 9. Actions from the 3-year Independent Environmental Audit 10. Lidsdale Siding Environmental Performance Overview 11. Lidsdale Siding – Air Quality (Depositional Dust) 12. Lidsdale Siding – Air Quality (PM10) 13. Lidsdale Siding – Noise 14. Lidsdale Siding – Water 15. Lidsdale Siding – Willow Rehabilitation Project 16. Lidsdale Siding and Springvale Coal Services Incidents and Complaints</p> <p>Following the comprehensive report, the Chair sought questions from the CCC members regarding the presentation and the following question was raised and discussed.</p> <ul style="list-style-type: none"> • CCC members raised an interest to have a Lidsdale Siding site visit prior to the next CCC meeting on 17 August 2022. As an action item, it was agreed that the Chair would facilitate this site visit with Centennial representatives and come back to the CCC members with a time for this site visit. It was also agreed for convenience that the next CCC meeting would be at the Black Gold Cabins. The Chair is to come back to all CCC members confirming the above once details are finalised.. 	ACTION
<p>Centennial Company Report and Q&A/Discussion</p> <p>The Centennial company representative provided an all-encompassing report on current matters relating to BANPU and Centennial. The following matters were raised in the presentation and the presentation is attached:</p> <ol style="list-style-type: none"> 1. Company Overview 2. BANPU Public Company Limited 3. BANPU – International Versatile Energy Provider 4. BANPU’s Cleaner and Smarter Strategy: Harnessing the 3Ds 5. BANPU’s Operations 6. BANPU – Greener and Smarter 2025 Portfolio Targets 7. BANPU Australia 8. Centennial Coal Operations <p>Following the comprehensive report, the Chair sought questions from the CCC members regarding the presentation and the following matter was discussed.</p> <p>A proposal for a solar farm within the Lithgow LGA is currently being investigated.</p>	

<p>CCC Member Communication with the Broader Community</p> <p>The Chair outlined the process in this agenda item in the CCCs he has been allocated and would like to implement this as custom and practice at this forum. The Chair went around the table and asked each CCC member the feedback they may have received from their stakeholders/contacts/community regarding the four projects. The following are the key matters raised in this discussion.</p> <ul style="list-style-type: none"> • Water issues and the extraction • Life of Springvale Mine • Honesty and transparency when dealing with the issues that may affect the workers and mine longevity/downsizing • Workforce planning and rostering changes • Expressed disappointment that Centennial did not donate a Wreath to the Wallerawang Anzac Day celebrations. 	
<p>General Business</p> <p>Possible Lidsdale siding visit</p>	
<p>Next meeting (DW)</p> <p>The Chair will be in contact with CCC members in the next few weeks to discuss ways to improve the CCCs effectiveness and participation. Also, to canvass suitable timings for the Lidsdale Siding site visit prior to the next CCC meeting.</p> <p>The Chair thanked the guest speakers and CCC members for their contribution. It was an informative meeting with some good points raised especially feedback from the community and an all-around positive discussion.</p> <p>The Chair noted that he was always available by phone in between CCC meetings if required.</p> <p>The next meeting will be on 17 August 2022. The timing to be confirmed as outlined above and after further discussions with CCC members. Meeting closed at 5.26pm</p>	

Angus Place & Satellite Sites

Community Consultative Committee

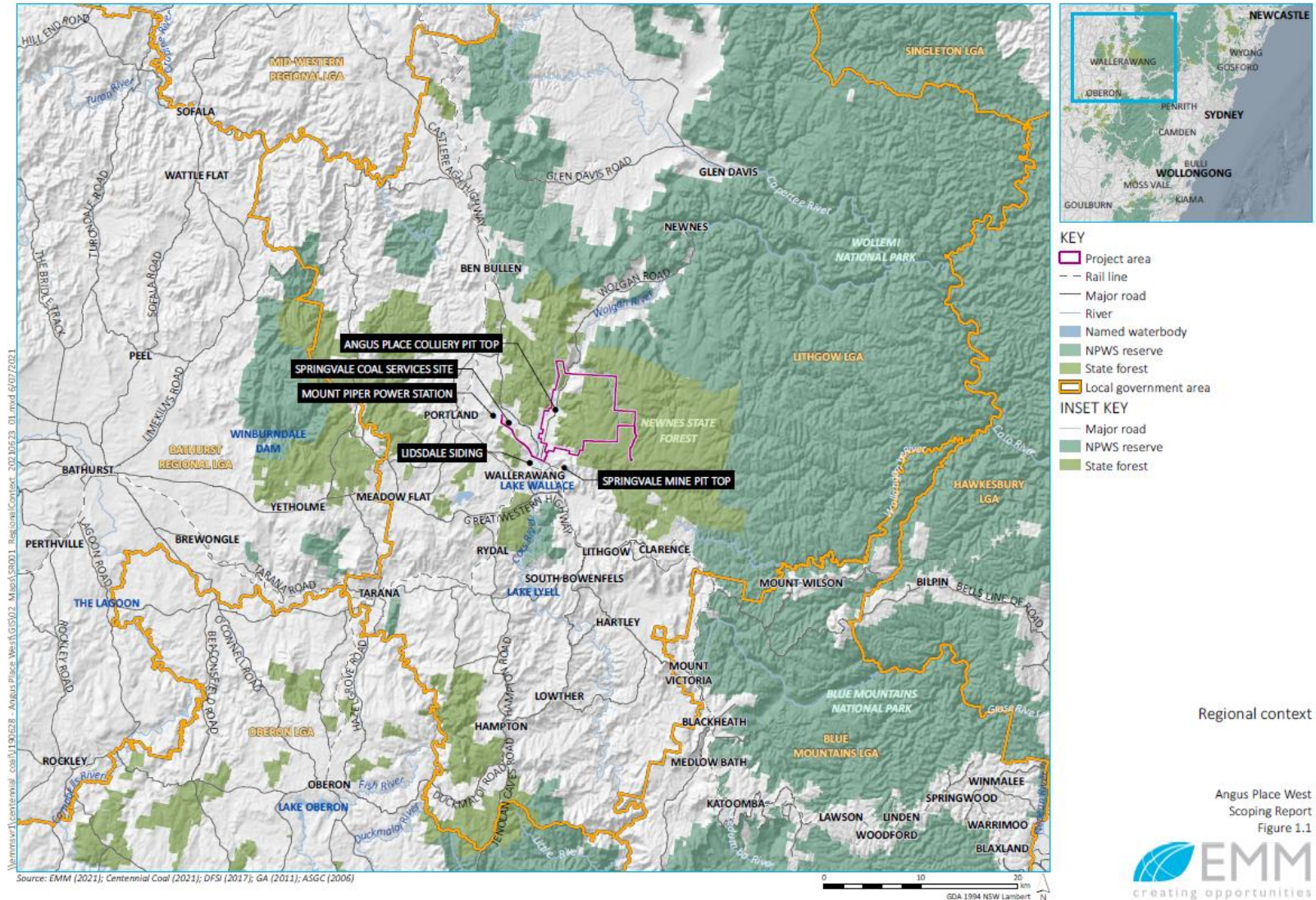
11 May 2022

OUR WAY IN ENERGY

Angus Place Colliery - Background

- Angus Place Colliery is an underground thermal mine located near Lithgow operated by Centennial
- Comprises a pit top, underground mining area, ventilation infrastructure and water management infrastructure
- Currently approved under PA 06_0021 which expires in 2024
- Angus Place Colliery has been on Care & Maintenance since 2015
- Along with Centennial's other mines in the Lithgow region, Angus Place Colliery supplies coal directly to Mount Piper Power Station

Angus Place Colliery - Location



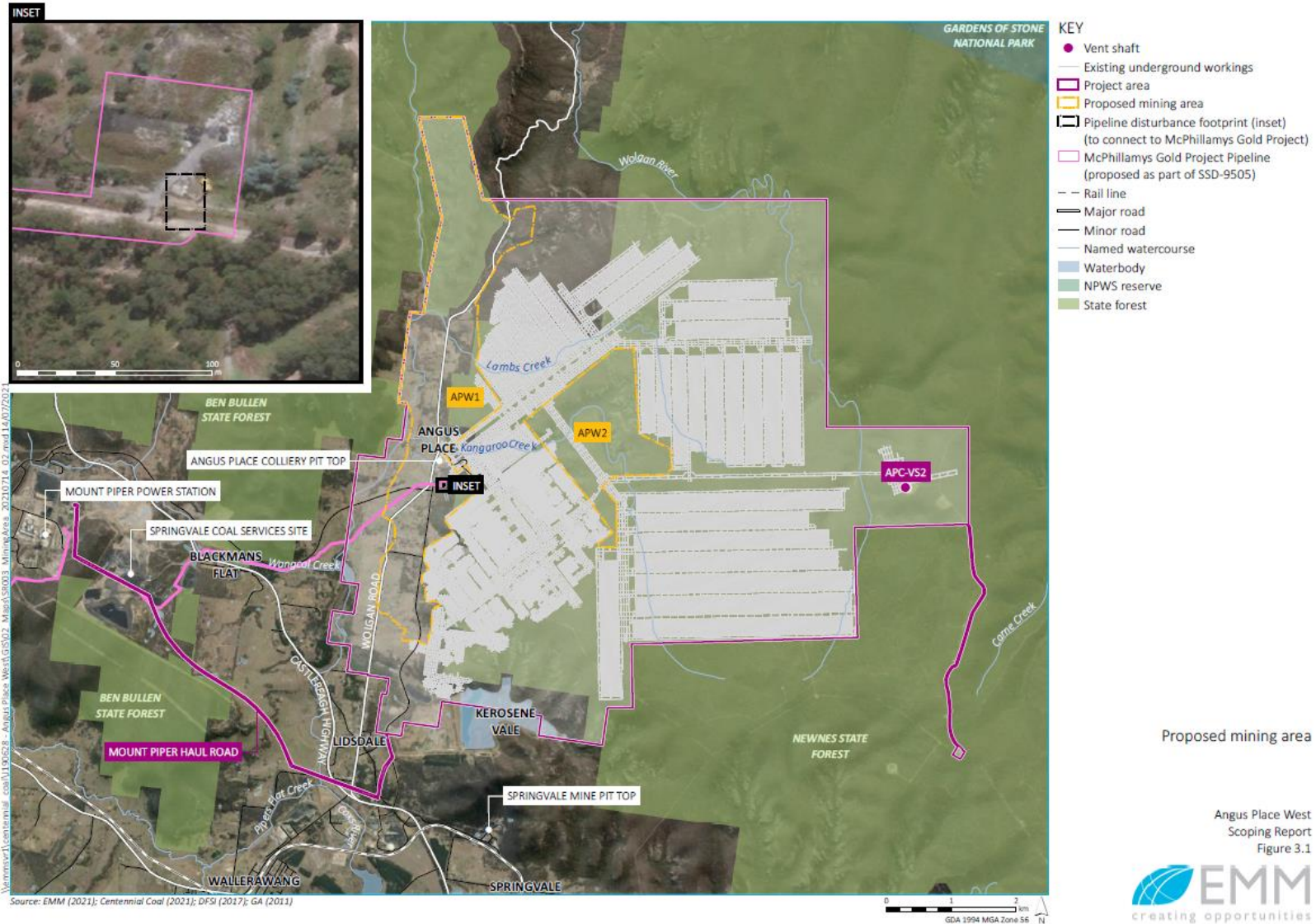
Angus Place West (APW)

- APW will produce up to 2 million tonnes per annum to align life with the life of Mount Piper Power Station.
- APW will be supported by a workforce of up to 300 employees.
- It is proposed the APW project would commence operations once mining at Springvale has ceased therefore, representing continuity of both employment and coal supply to Mount Piper Power Station.
- APW represents a flexible and immediate coal supply option for Mount Piper Power Station.
- APW will ensure both continuity of coal supply and future employment opportunities for our workforce, while also delivering a low impact mining operation, using a bord and pillar first workings mining method.

Mining Method and Subsidence

- Proposed bord and pillar first workings mining to control subsidence.
- APW is expected to result in negligible vertical subsidence (<20mm).
- Provides flexibility to navigate geological structures and sensitive surface features.
- Additionally provides flexibility in coal extraction rates to meeting changes in demand at Mount Piper Power Station.
- Whilst the proposed method will leave behind a significant amount of the coal resource during recovery to function as supporting pillars to the above strata, as this will reduce environmental impacts.

Angus Place West – Existing Workings



Coal Logistics

- ROM will be delivered from pit bottom to the surface by conveyor to the existing stockpile
- From stockpile the ROM will be loaded onto the reclaim conveyor via a tunnel beneath the stockpile
- ROM will then be sized, crushed and loaded to the final product bin
- Product will be loaded from vertical final product bin onto truck and transported the coal to Mount Piper Power Stations via private haul road
- Coal transport from site will be undertaken in accordance with Centennial's Western Coal Services Facility approved under SSD-5579



EIS Assessment

- Subsidence
- Biodiversity
- Aboriginal/Cultural Heritage
- European Heritage
- Noise
- Air Quality
- Surface Water
- Groundwater
- Social Impact
- Economic Impact
- Rehabilitation
- Traffic

Justification of Project

- APW represents a logical extension to existing mine workings at Angus Place.
- It will make use of existing infrastructure at Angus Place's pit top, requiring minimal changes or upgrades to facilitate the project. Coal will be transported to MPPS via an existing private coal haul road.
- Centennial's western coalfield mines, including the Springvale and Airly mines and the Clarence Colliery, are the only suppliers of coal to MPPS which in turn meets 15% of the State's power needs.
- The project will ensure both continuity of coal supply to MPPS and employment for the Springvale workforce, while also delivering a low impact mining operation, using a more flexible mining method that will meet MPPS's coal supply needs.
- APW is well-placed to meet coal supply needs of MPPS in conjunction with Centennial's other established operations.

Project program

- Submitted Scoping Report – July 2021
- SEARs – October 2021
- Lodge EIS – July/August 2022
- First Coal – 2025

Angus Place and Ivanhoe sites

Reporting Period

- February 2022 – April 2022

Sites

- Angus Place and Ivanhoe Sites

Consents

- Angus Place Project Approval 06_0021 Mod 6-No change
- Ivanhoe North Project Approval 05_0103-No change

Licenses

- EPL No. 467- Angus Place- No change
- EPL No. 13063- Ivanhoe North- No change
- EPL No. 631- Ivanhoe 2- No change



Operations Summary

- Angus Place is currently on care and maintenance since development. Longwall activities ceased in February 2015.
- No tonnes mined and no coal transported.
- Ivanhoe sites continued rehabilitation maintenance.
- Wallerawang Haul Road to be resurfaced in Q2 2022
- Increased crossover with GPM in the Kerosene Vale area.

Environmental Performance - AP and Satellite Sites

Water Monitoring results

- No exceedances of EPL conditions.
- One non-compliance – inadequate sample obtained by samplers and incorrect perimeters requested by sampling team to laboratory resulting in no TSS and TDS being Tested for LDP003 in February at Angus Place.

Noise Monitoring results

- No exceedances

Air Monitoring results

- No exceedances

Community Complaints

- None



Upcoming Activities

- Studies regarding Ivanhoe closure planning
- Angus Place West project work
- Review of water quality post Temporary Water Treatment Plant at Angus Place

The logo consists of a stylized white flame or leaf symbol to the left of the word "CENTENNIAL".

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May 2022 CCC Meeting Presentation

Springvale Coal Services and Lidsdale Siding

Springvale Coal Services Background

- Springvale Coal Services (SCS) is a facility that receives coal from Lidsdale Siding and Springvale via an overland conveyor system and processes it via a coal preparation plant. SCS can receive coal from Angus Place via haul road. 7.0Mtpa of ROM coal may be processed at SCS.
- Majority of processed coal is transferred from the facility directly to Mount Piper Power Station and the balance is transferred back to Lidsdale Siding for export.

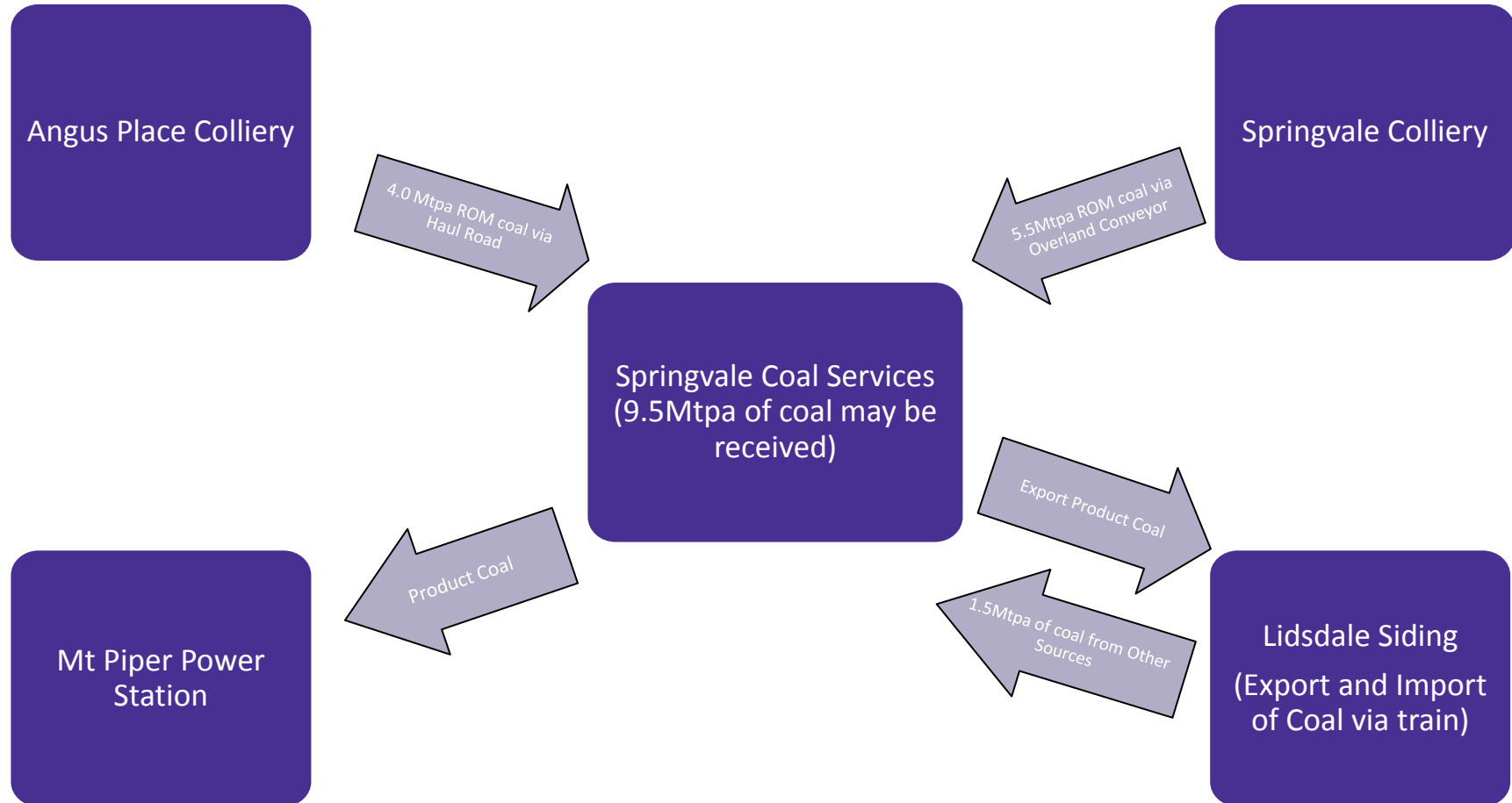


Lidsdale Siding Background

- Lidsdale Siding is a rail loading and unloading facility that accommodates the transfer, receipt and dispatch of coal from Centennial's western mining operations to domestic and export markets.
- No more than 6.3Mtpa of coal may be received.



Springvale Coal Services and Lidsdale Siding Background



Springvale Coal Services Environmental Performance Overview

SCS – Air Quality (Depositional Dust)

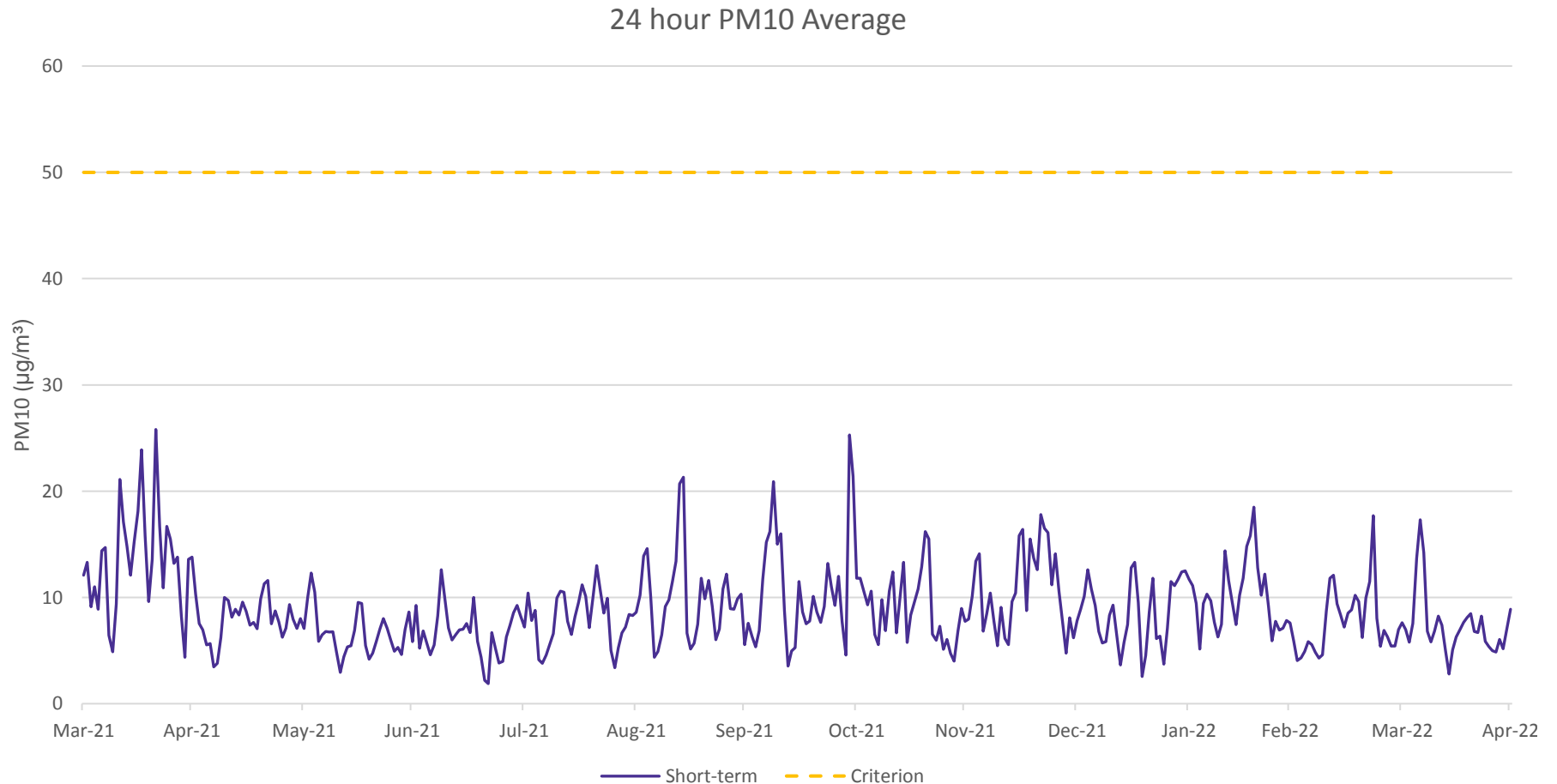
- Compliant with the depositional dust criteria of $4\text{g}/\text{m}^2$ at all three monitoring locations.

WCS Monthly Depositional Dust



SCS – Air Quality (PM¹⁰)

- Compliant with the 24 hour PM¹⁰ criteria of 50 µg/m³.



SCS – Noise

- No non-compliances of the noise criteria since 2017.

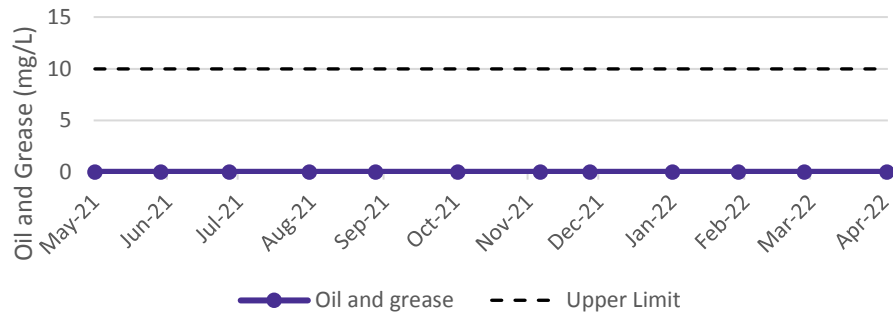
Location SSD/EPL Locations	Estimated $LA_{eq(15minute)}$ Contribution dBA April 2022			Noise Criteria $LA_{eq(15minute)}$ dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
WNM1	NA	NA	NA	40	35	35	Y	Y	Y
WNM2	NA	NA	NA	41	35	35	Y	Y	Y
WNM3	NA	NA	NA	36	35	35	Y	Y	Y
WNM4	NA	NA	NA	35	35	36	Y	Y	Y

Note- NA= Not Audible

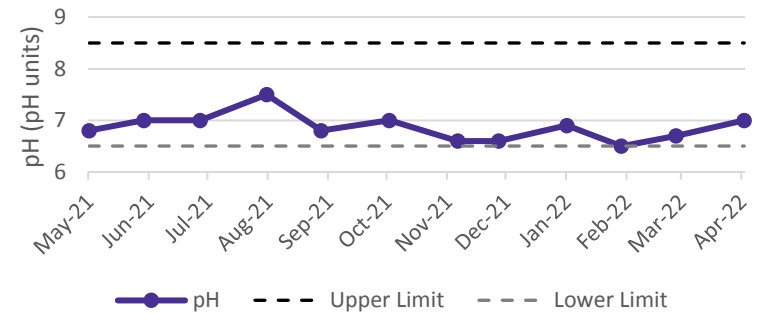
SCS – Water

- All discharges compliant with EPL requirements year to date
- Water management has been a key focus considering El Nino trends

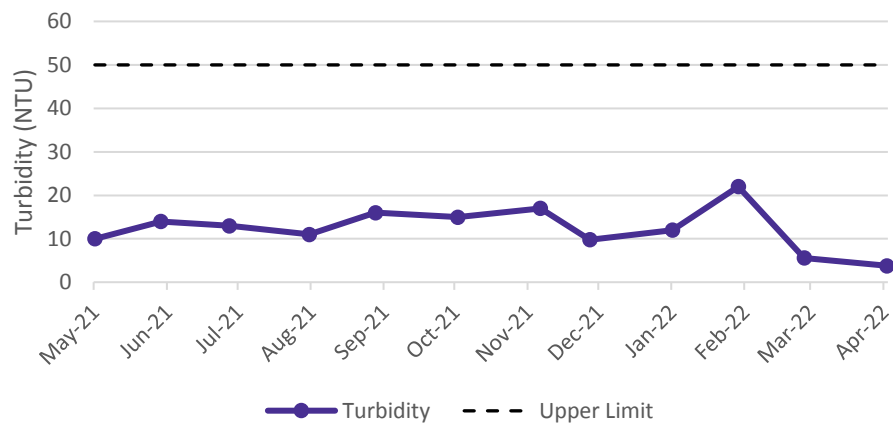
LDP001 Oil and Grease



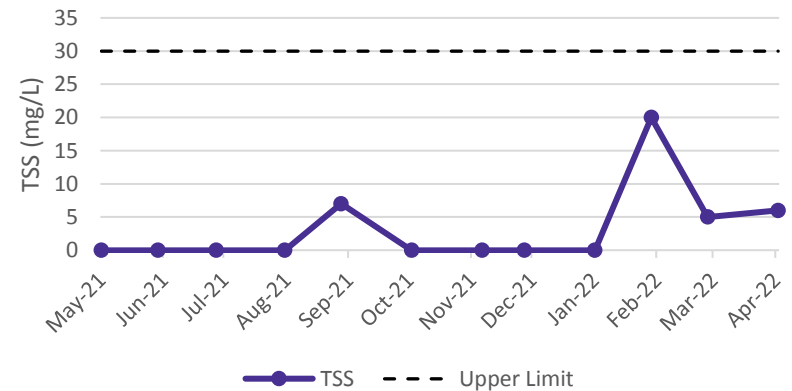
LDP001 pH



LDP001 Turbidity

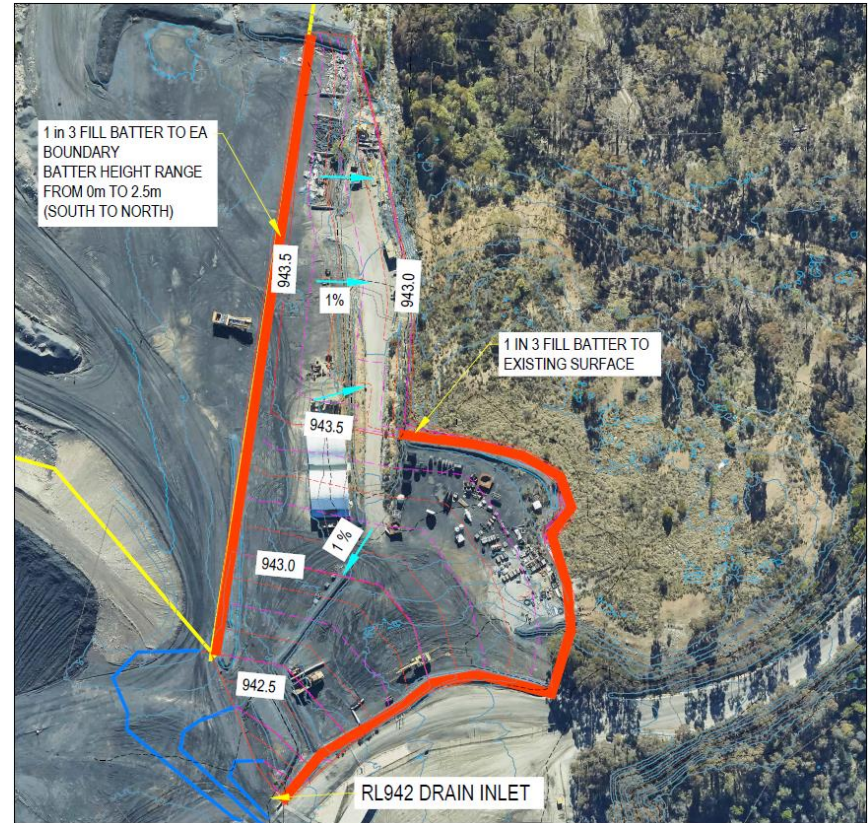


LDP001 TSS



Operational Update: Energy Australia Handback

Area is ready for hand back to Energy Australia.
Just waiting on final hand over date.



Background: Area 4 is an old open cut mine which served no purpose to Centennial in the last 10 years. It is an ideal zone for Energy Australia to expand their Ash Emplacement Area

Actions From The 3 Year Independent Environmental Audit



Recommendations from the audit are being addressed. Above shows the progress of IMP Recommendation 9: Desilt Stockpile Sediment Pond as it is at over 50% capacity. Further information regarding the Environmental Audit can be found on the website.

Actions From The 3 Year Independent Environmental Audit



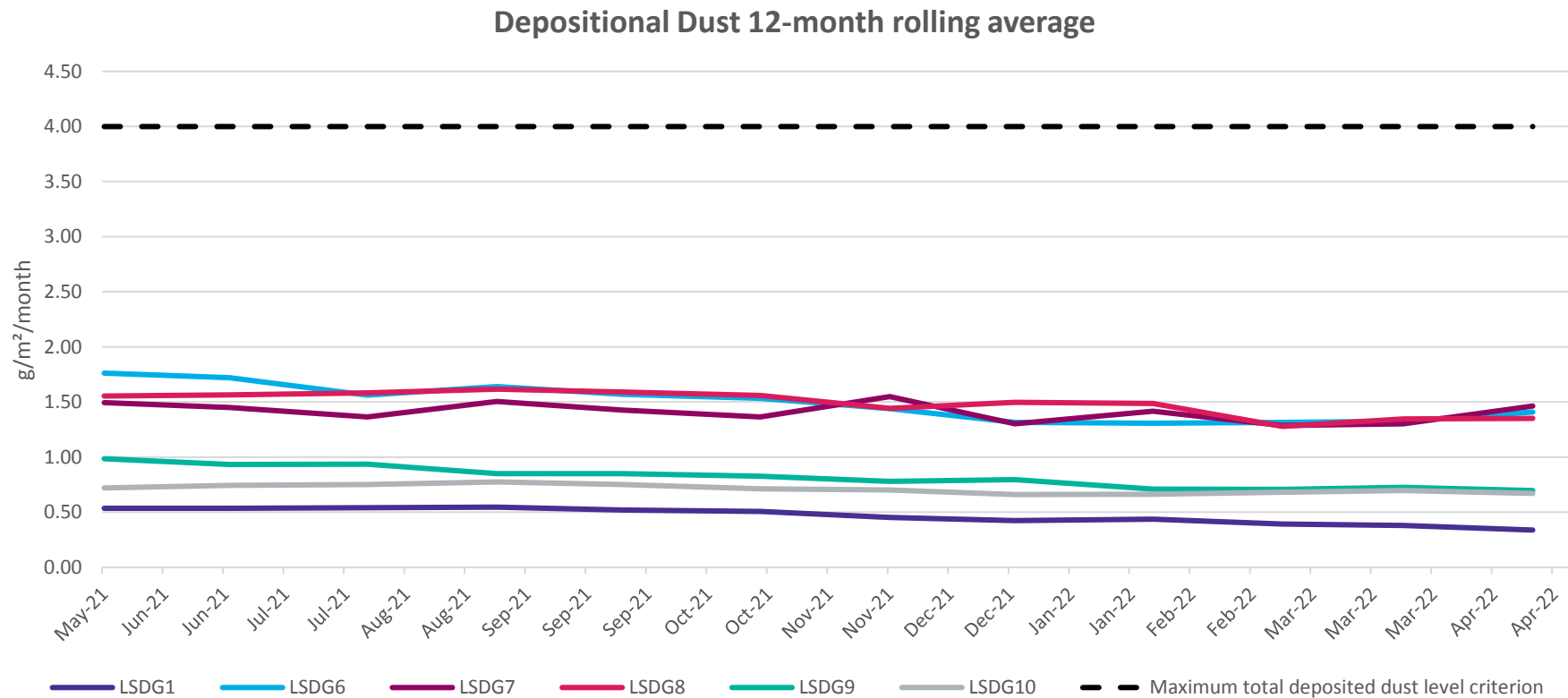
Further recommendations were to hydro mulch bare areas on site to decrease erosion and invasive weed growth

Lidsdale Siding

Environmental Performance Overview

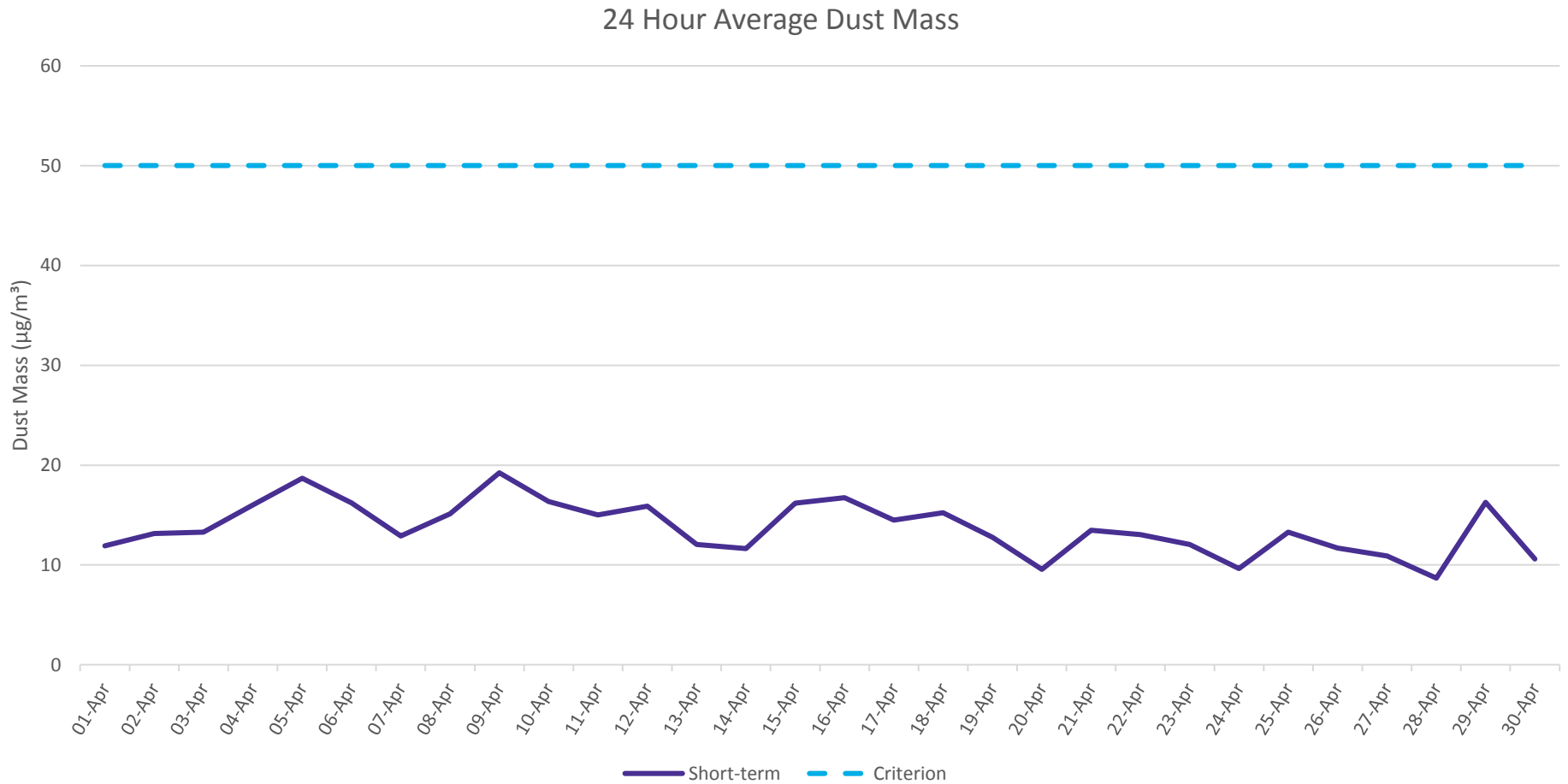
Lidsdale Siding – Air Quality (Depositional Dust)

- Compliant with the depositional dust criteria of $4\text{g}/\text{m}^2$ at all six monitoring locations.



Lidsdale Siding – Air Quality (PM¹⁰)

- Compliant with the 24 hour PM¹⁰ criteria of 50 µg/m³.



Lidsdale Siding – Noise

- No non-compliances of the noise criteria since 2017.

Location SSD/EPL Locations	Estimated Lidsdale Siding LA _{eq(15minute)} Contribution dBA April 2022			Noise Criteria LA _{eq(15minute)} dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
LNM1	NA	NA	NA	50	50	50	Yes	Yes	Yes
LNM2	NA	NA	NA	48	46	46	Yes	Yes	Yes
LNM3	NA	NA	NA	46	46	46	Yes	Yes	Yes
LNM4	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM5	NA	NA	NA	44	41	41	Yes	Yes	Yes
LNM6	NA	NA	NA	43	40	40	Yes	Yes	Yes
LNM7	NA	NA	NA	40	39	39	Yes	Yes	Yes
LNM8	NA	NA	NA	45	45	45	Yes	Yes	Yes
LNM9	NA	NA	NA	45	45	45	Yes	Yes	Yes
LNM10	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM11	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM12	NA	NA	NA	48	47	47	Yes	Yes	Yes

Note- NA= Not Audible

Lidsdale Siding – Water

Month	Total Rainfall (mm)	Minimum Temperature (deg C) @ 2m	Maximum Temperature (deg C) @ 2m
May-21	28.80	-5.02	21.10
June-21	46.80	-4.41	17.58
Jul-21	57.40	-7.48	18.10
Aug-21	75.80	-4.70	21.37
Sep-21	46.20	-4.23	21.22
Oct-21	49.20	-0.92	28.54
Nov-21	177.80	4.17	16.95
Dec-21	73.80	8.24	18.27
Jan-22	161.80	13.01	19.22
Feb-22	106.6	7.77	29.54
Mar-22	171.4	7.43	26.78
Apr-22	64.2	1.58	23.98

Lidsdale Siding – Willow Rehabilitation Project

- A recent inspection of the rehabilitation showed significant growth of tubestock plants which allowed for removal of almost 200 tree guards



Lidsdale Siding & Springvale Coal Services

Incidents & Complaints

Incidents and Complaints

- **Lidsdale Siding**

- No incidents or non-compliances recorded year to date in 2022.
- No complaints received year to date in 2022.
- Last complaint received for the site was on 18 February 2016.

- **Springvale Coal Services**

- No incidents or non-compliances recorded year to date in 2022.
- There has been 1 complaint received this year on the 16th of February. A resident reported a high pitch noise in the area of an overland conveyor. Once notified an immediate inspection found that a vertical roller bearing had collapsed. The roller was changed resolving the noise source.

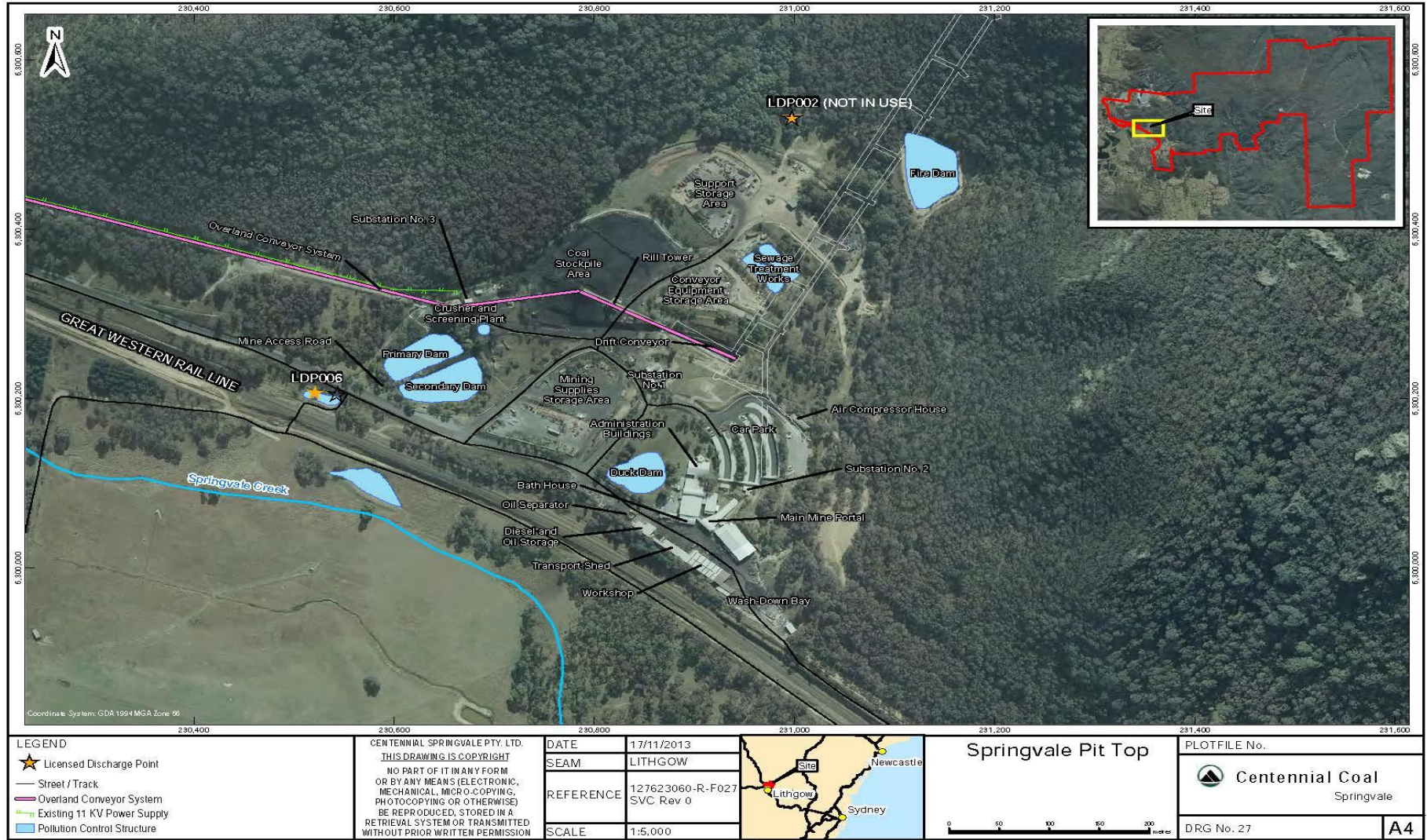
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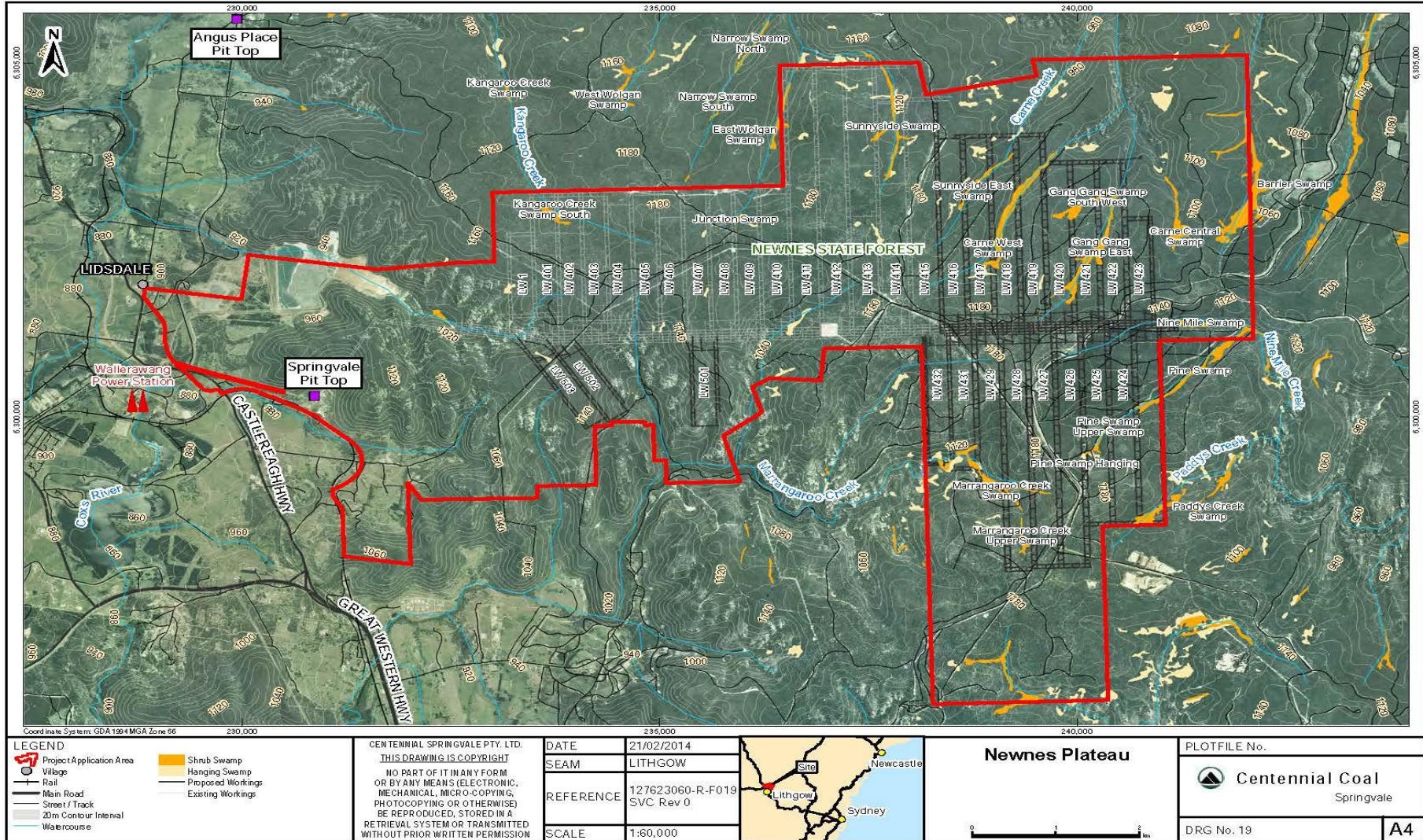
Springvale Colliery CCC Update

May 2022

Springvale Pit Top



Newnes Plateau



LEGEND	
	Project Application Area
	Village
	Rail
	Main Road
	Street/Track
	20m Contour Interval
	Watercourse
	Shrub Swamp
	Hanging Swamp
	Proposed Workings
	Existing Workings

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DATE	21/02/2014
SEAM	LITHGOW
REFERENCE	12762 3060-R-F019 SVC Rev 0
SCALE	1:60,000



Newnes Plateau

PLOTFILE No.	
	Centennial Coal
Springvale	
DRG No. 19	A4

Introduction

Reporting Period	Feb 2022 to May 2022
Site	Springvale
Consent Site	SSD_5594: 3 modifications (last 20/6/2021)
Consent WTP	SSD_7592: 7 modifications (Mod 7 Approved 19/6/2021)
EPBC Approvals	2011/5949 Mining of Longwalls 415 – 417 2013/6881 Mining associated with Springvale Mine Extension Project
Licenses	EPL3607
Other	Mining Tenements (14), Dangerous Goods, Groundwater, Occupation Permit, Section 95, TS Licences
All Other Licences and Approvals	Mining Tenements – Regulator driven changes to mining tenements issued. There were primarily issued in relation to changing reporting processes from annual reports to event driven notifications

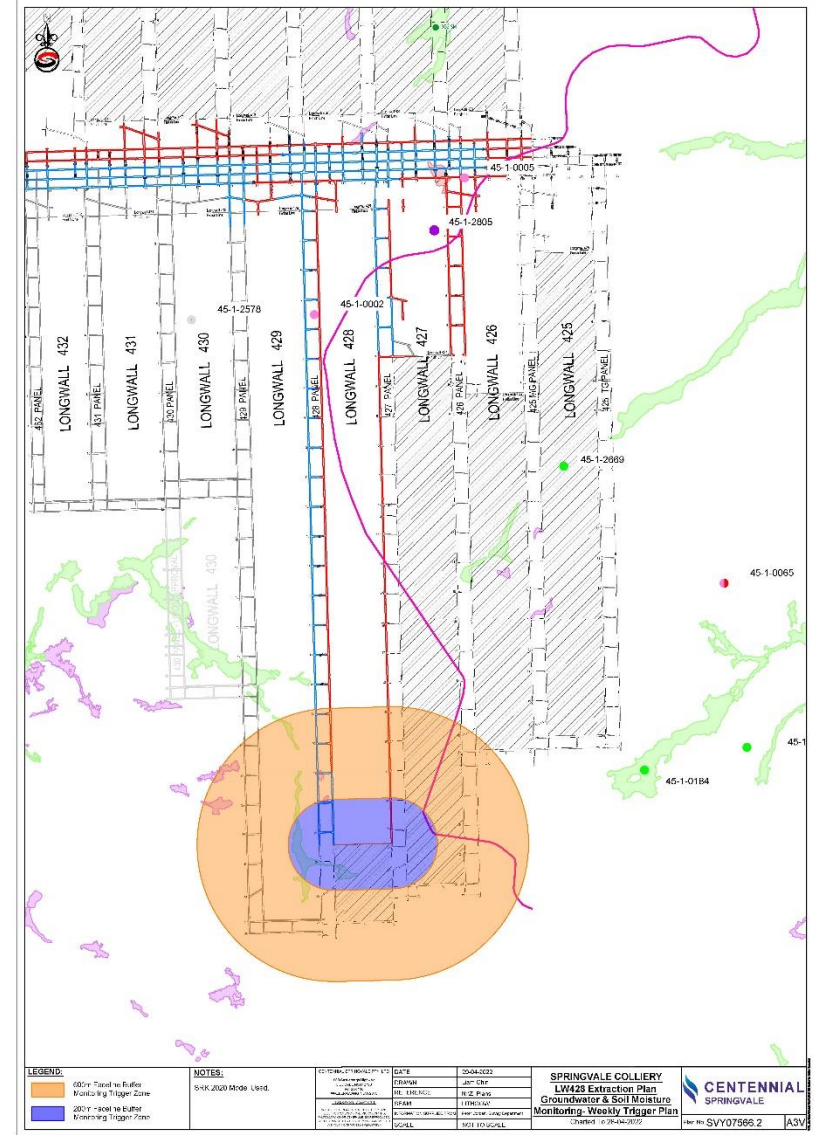
Changes to Approvals During the Reporting Period	<ul style="list-style-type: none"> • Extraction Plan Approval • Swamp Offset Strategy Approval • TS licence and Occupation permit line under assessment for new monitoring equipment
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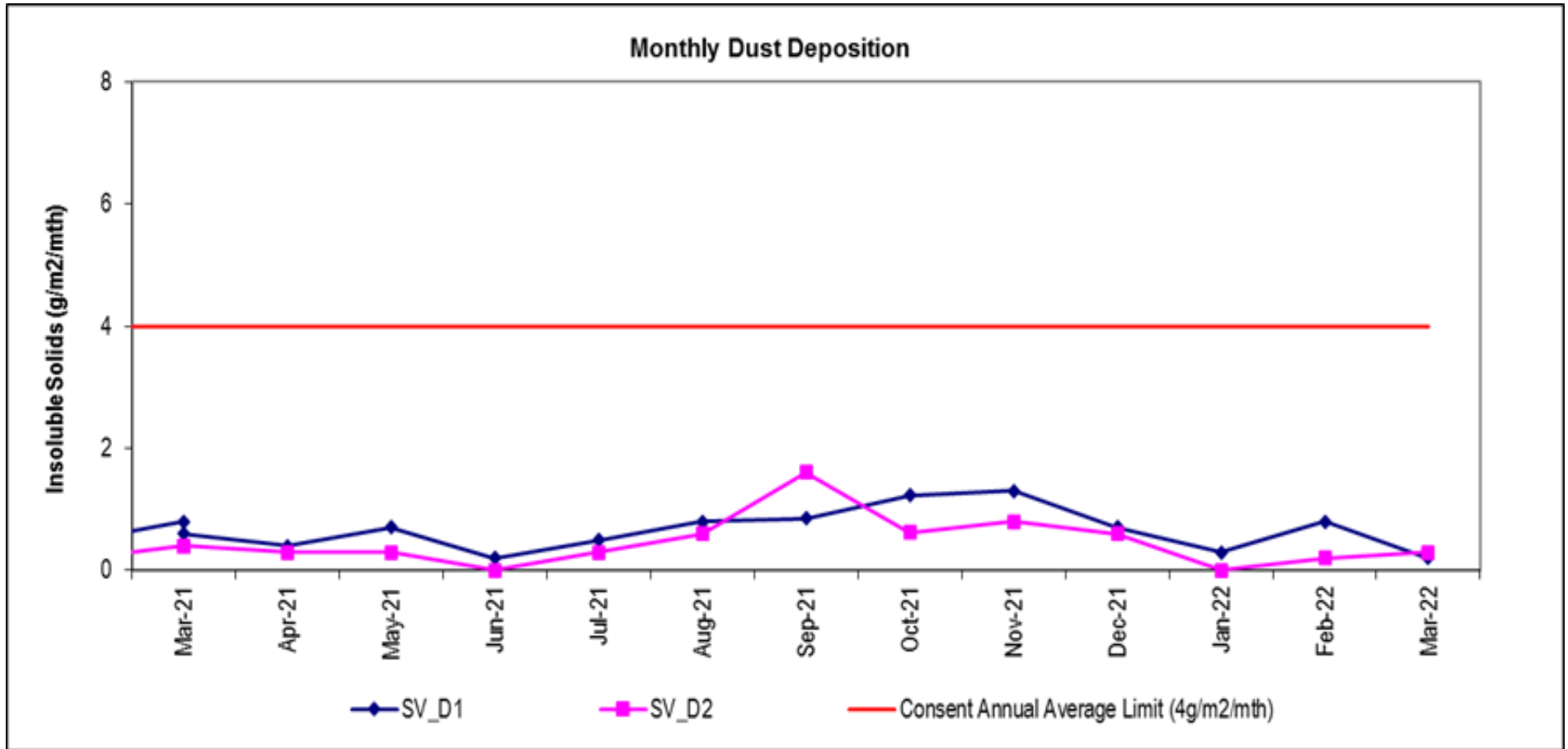
Operations Summary

LW428 commenced 25 March 2022	
ROM Coal Mined 2021	2.093 Mt
ROM Coal Mined YTD 2022	0.474 Mt
Coal trucked via roads	0t
Surface disturbance	Nil disturbance pit-top

- 1 Volume Non-Compliance
- NIL community complaints

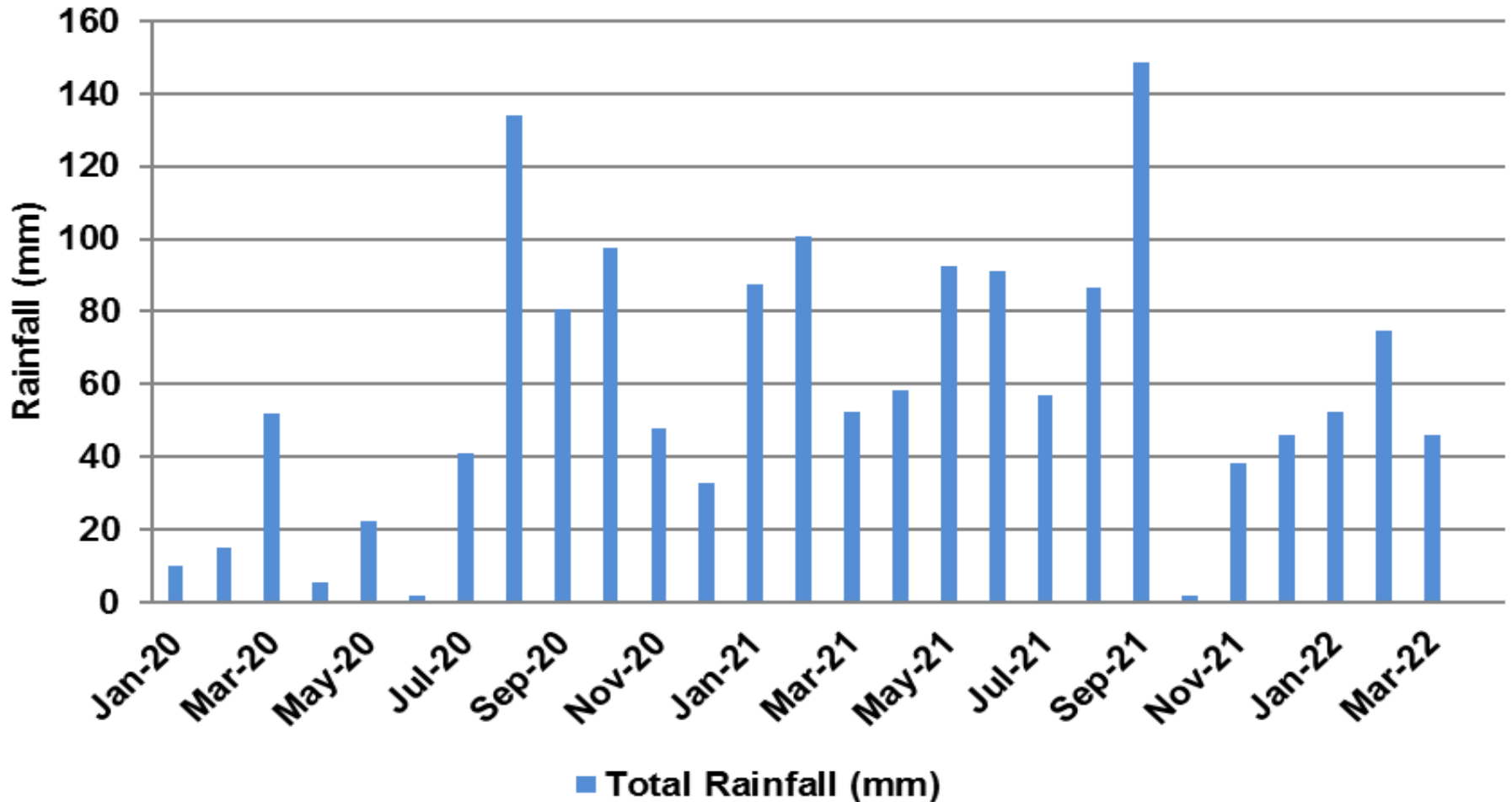


Air Quality



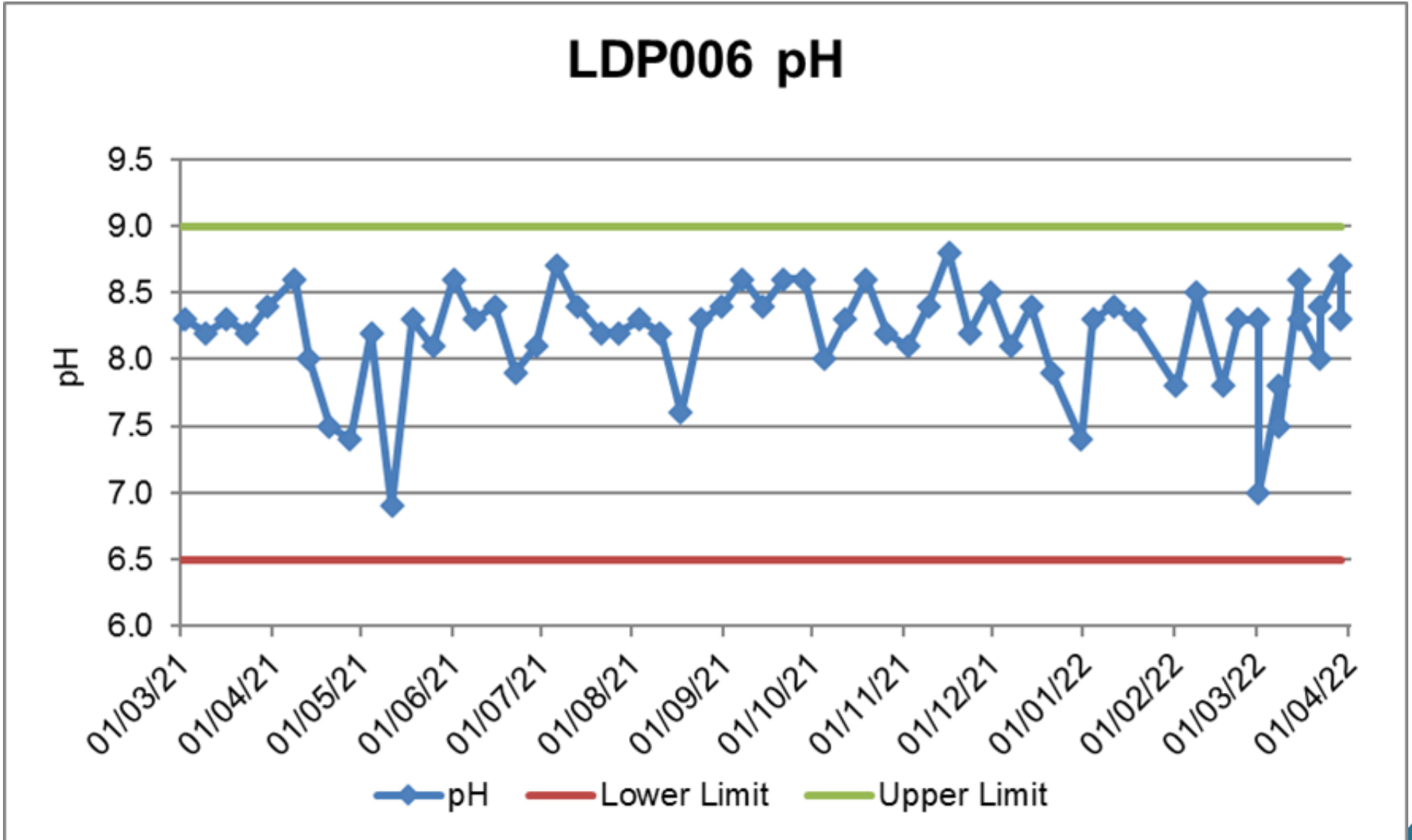
La Nina Event and Impact on Water Management

Rainfall Data

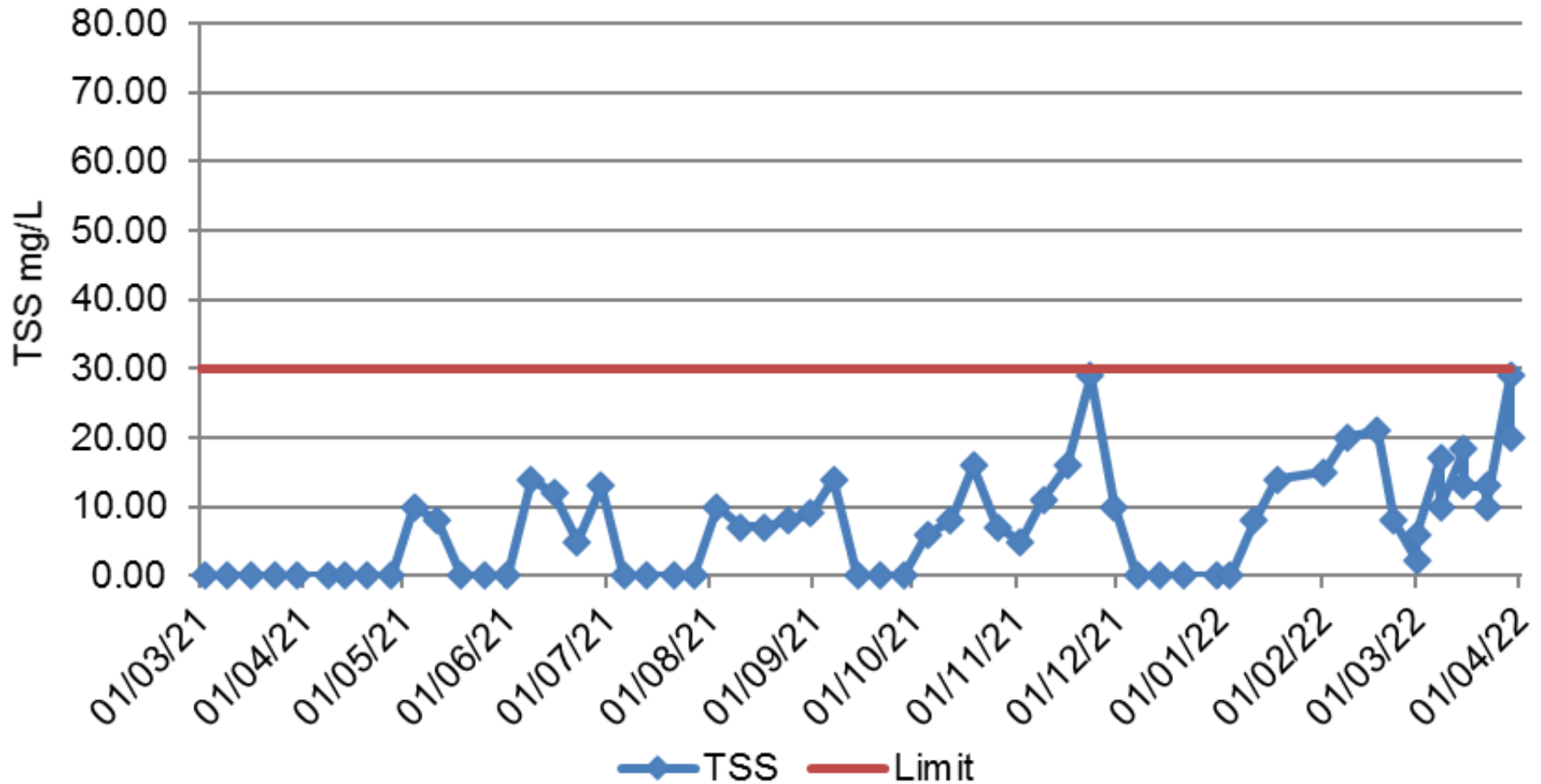


Water Quality

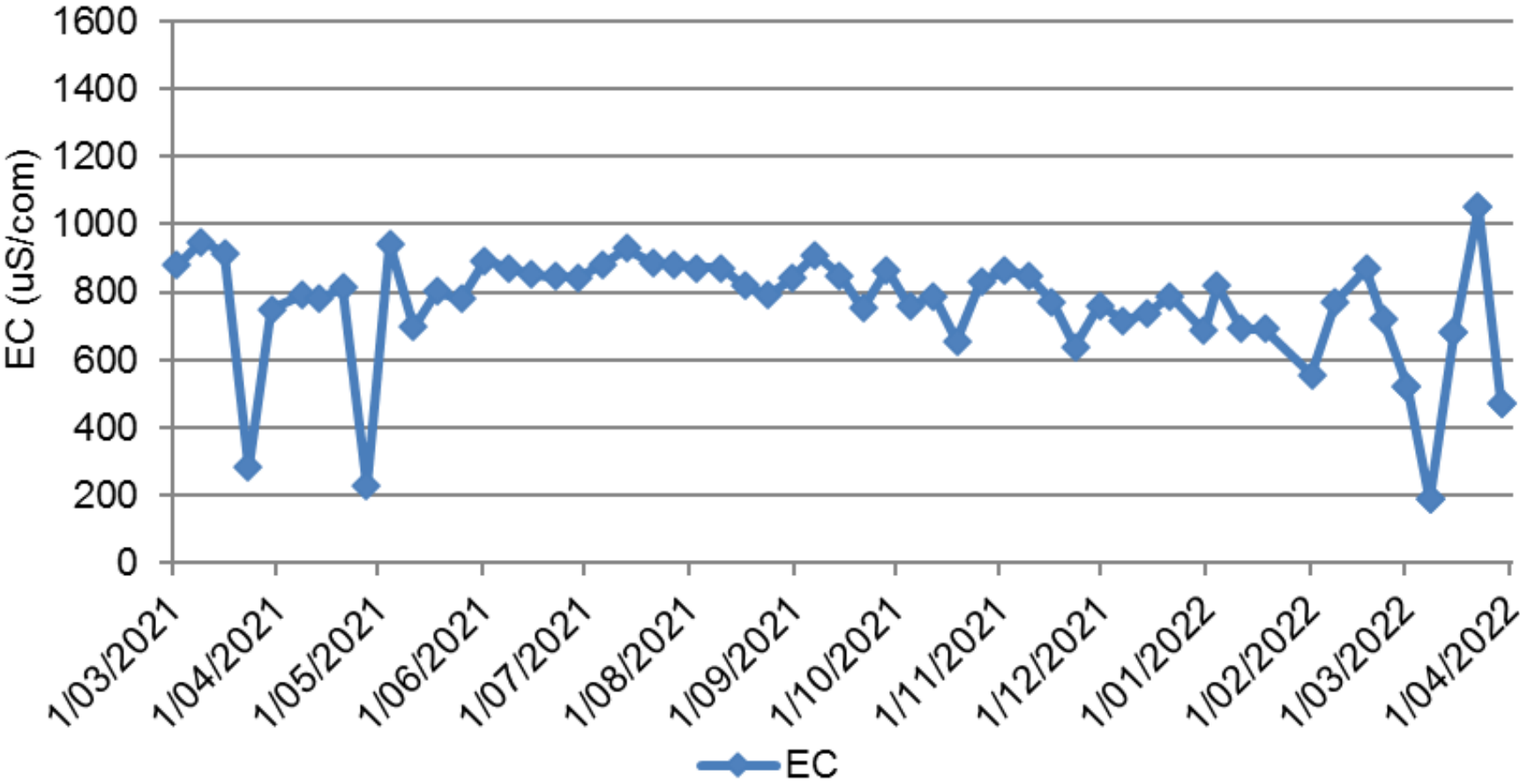
LDP006 pH



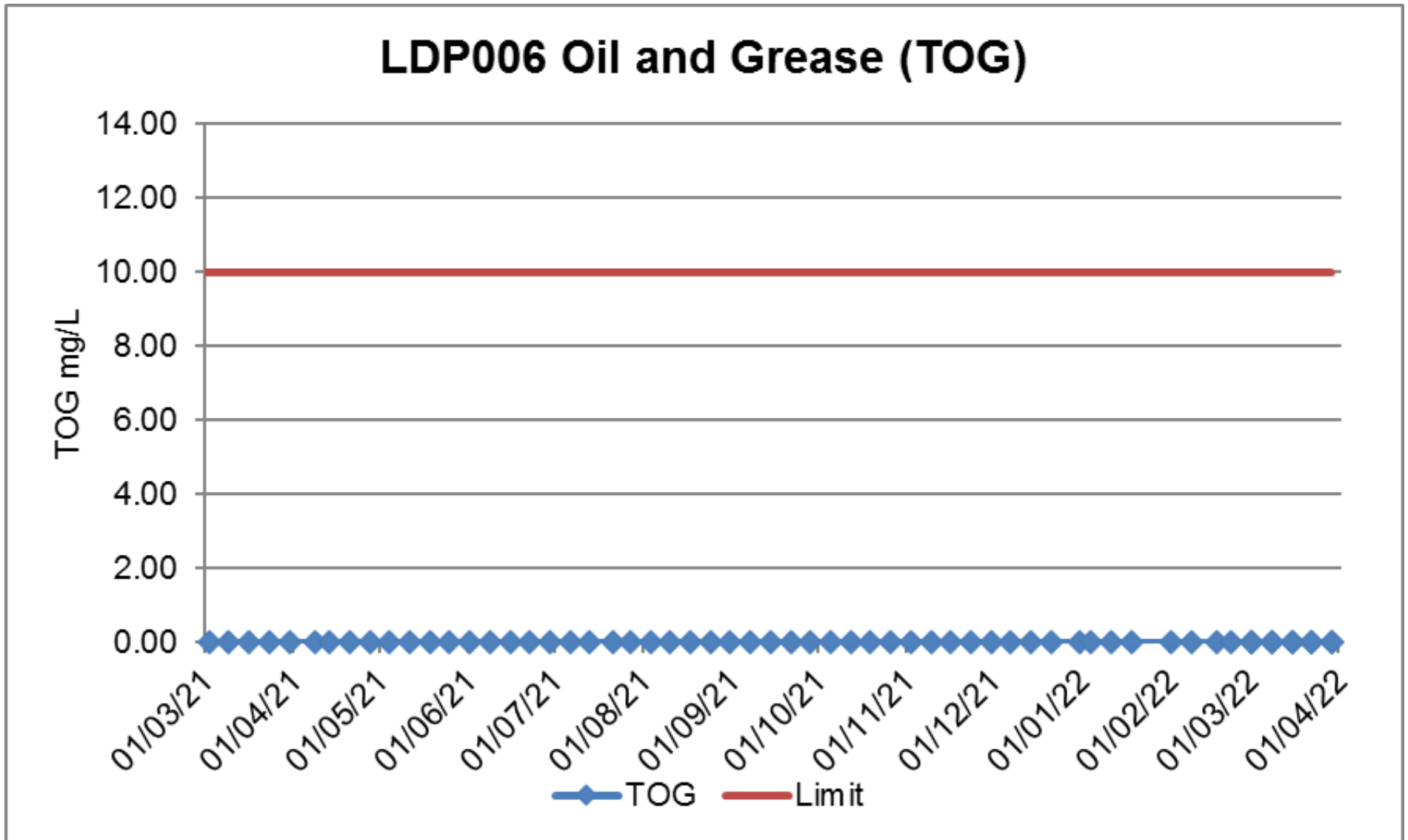
LDP006 Total Suspended Solids (TSS)



LDP006 EC

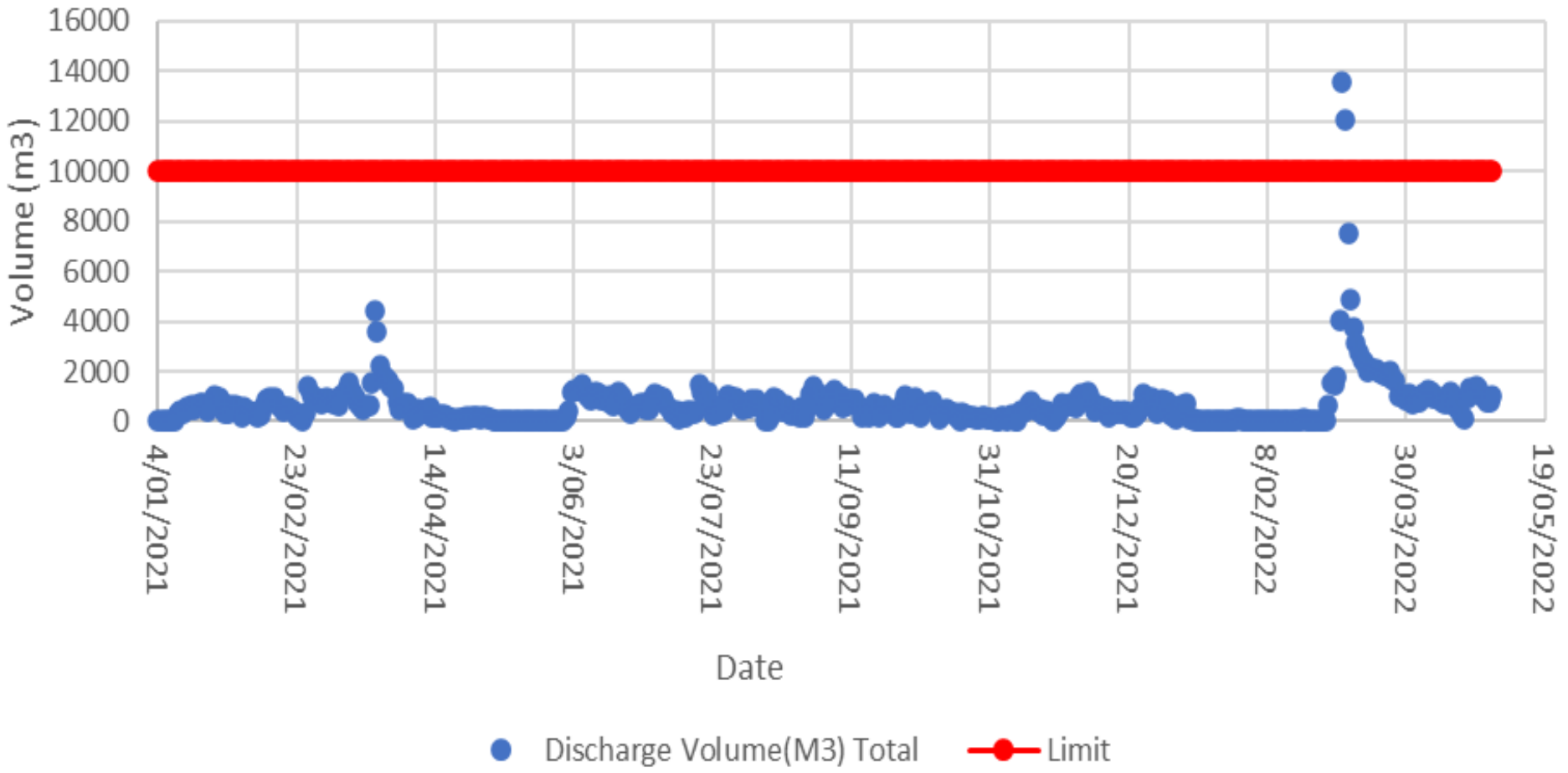


LDP006 Oil and Grease (TOG)



Water Volume

LDP006 Volume

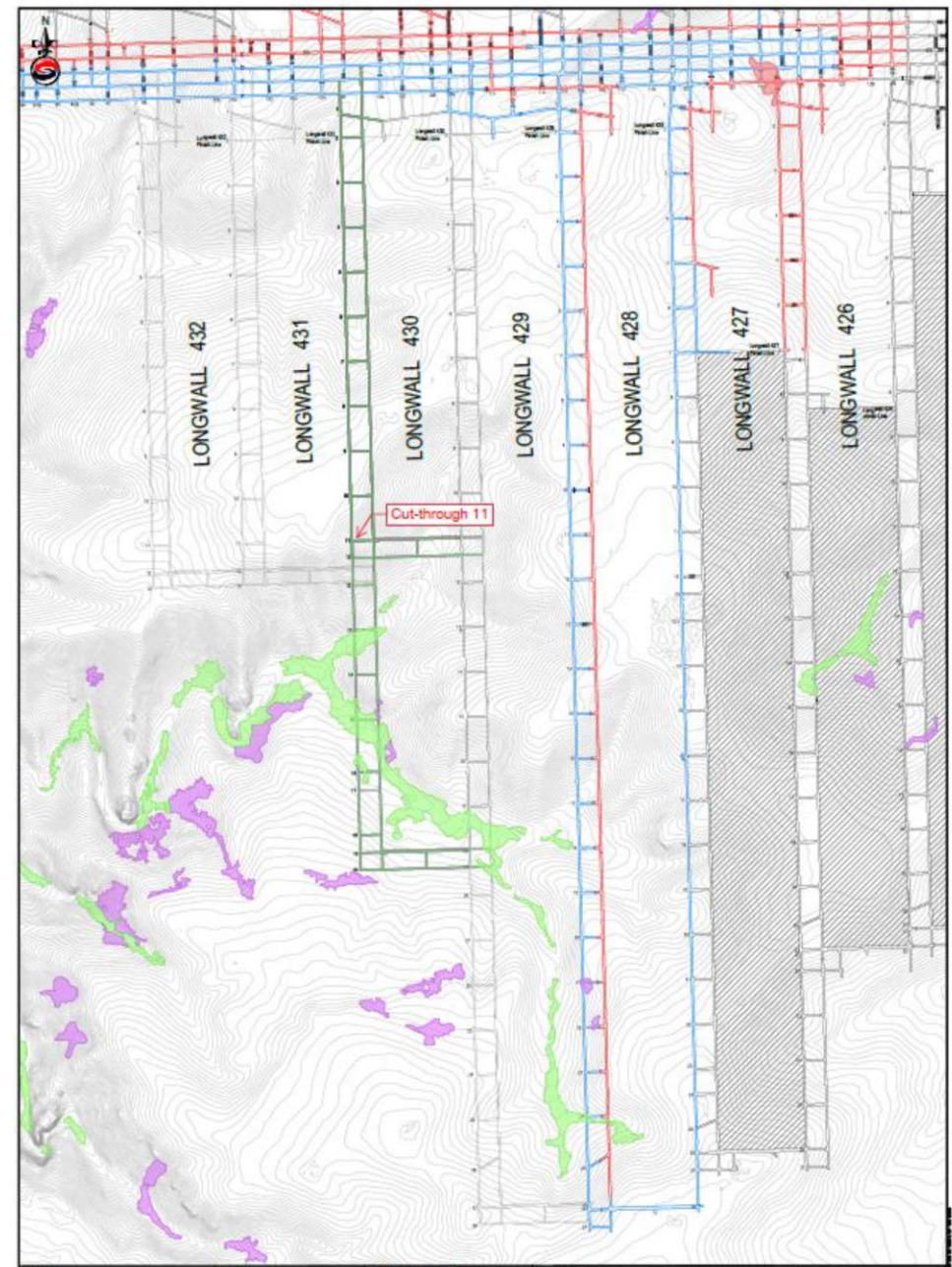


Noise

Location	Estimated Springvale LA _{eq(15minute)} Contribution dBA			Noise Criteria LA _{eq(15minute)} dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
SSD/EPL Locations	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
S1/EPL Point 3	IA ¹	<30	32	44	44	42	Yes	Yes	Yes ²
S2/EPL Point 4	<35	32	35	43	43	43	Yes	Yes	Yes
S3	I/A ¹	I/A ¹	I/A ¹	35	35	35	Yes	Yes	Yes
S4/EPL Point 5	I/A ¹	I/A ¹	I/A ¹	35	35	35	Yes	Yes	Yes
S5	I/A ¹	I/A ¹	I/A ¹	35	35	35	Yes	Yes	Yes

Extraction Plan 428-432

- Revised Longwall Length: LW430, 431 and 432
- Commitment for Installation of Monitoring Equipment
- Comprehensive Reporting Program
- Swamp Offset Strategy Approved



The logo consists of a stylized white flame or leaf symbol to the left of the word "CENTENNIAL".

CENTENNIAL

Centennial

Company Update May 2022

OUR WAY IN ENERGY

Overview

- Established in 1989, listing on ASX in 1994
- Operator of 5 NSW mines (plus 2 in care and maintenance), producing approx 15 million tonnes annually and employing over 1,600 people
- Major focus on OHS and Environmental performance
- Fuelling approximately 40% of the State's coal fired electricity
- 60% production to domestic customers (Mt Piper, Eraring and Vales Point)
- 40% production exported (customers include power stations and industry in predominately Japan, Korea, Taiwan)
- November 2010 - became a wholly owned subsidiary of Banpu Public Company Ltd, Asia's largest independent energy group

Banpu Public Company Limited

International Versatile Energy Provider

Banpu operates across the energy value chain with the mission to provide sustainable energy that is **affordable, reliable, and eco-friendly** by harnessing the 3Ds trend and adopting ESG as our core value.



MISSION: RESPONSIBLE TRANSITION



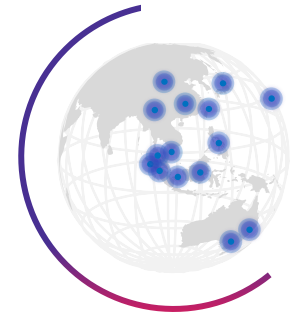
Affordable: To provide affordable energy solutions with growing energy demand



Reliable: To ensure security of energy supply by delivering integrated energy solutions



Eco-friendly: To supply energy in a way that maximizes stakeholder value and minimize environmental impact



>35 years experience
across 10 countries worldwide

ENERGY RESOURCES

GAS | COAL

ENERGY GENERATION

RENEWABLES | HELE POWER
THERMAL POWER

INTERNATIONAL VERSATILE ENERGY PROVIDER

ENERGY TECHNOLOGY

ENERGY STORAGE | ENERGY TRADING
ENERGY MANAGEMENT | E-MOBILITY





Decarbonization

Reducing carbon emissions through government policies, benchmarking systems, and stakeholders - from investors to consumers - prioritising environmental impact.



Decentralization

Shifting from large, centralized generation plants to dispersed generation from a mix of smaller generators to improve energy security, lower prices, and reduce GHG emissions.



Digitalization

Using cutting-edge technology to optimize increasingly complex energy generation, transmission and distribution systems, such as energy efficiency technology and battery storage.

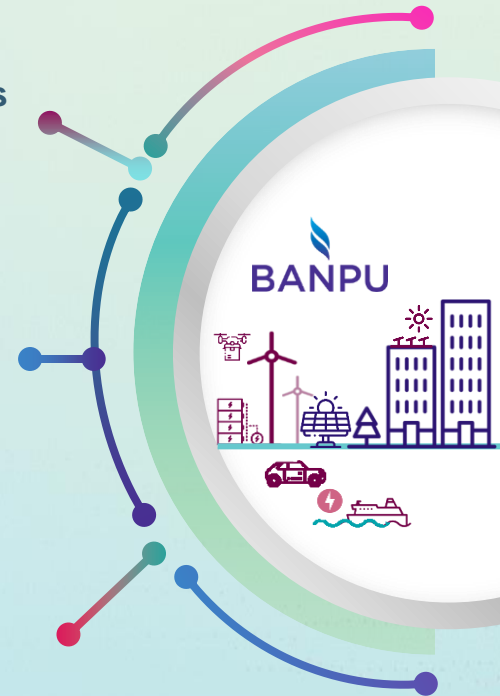


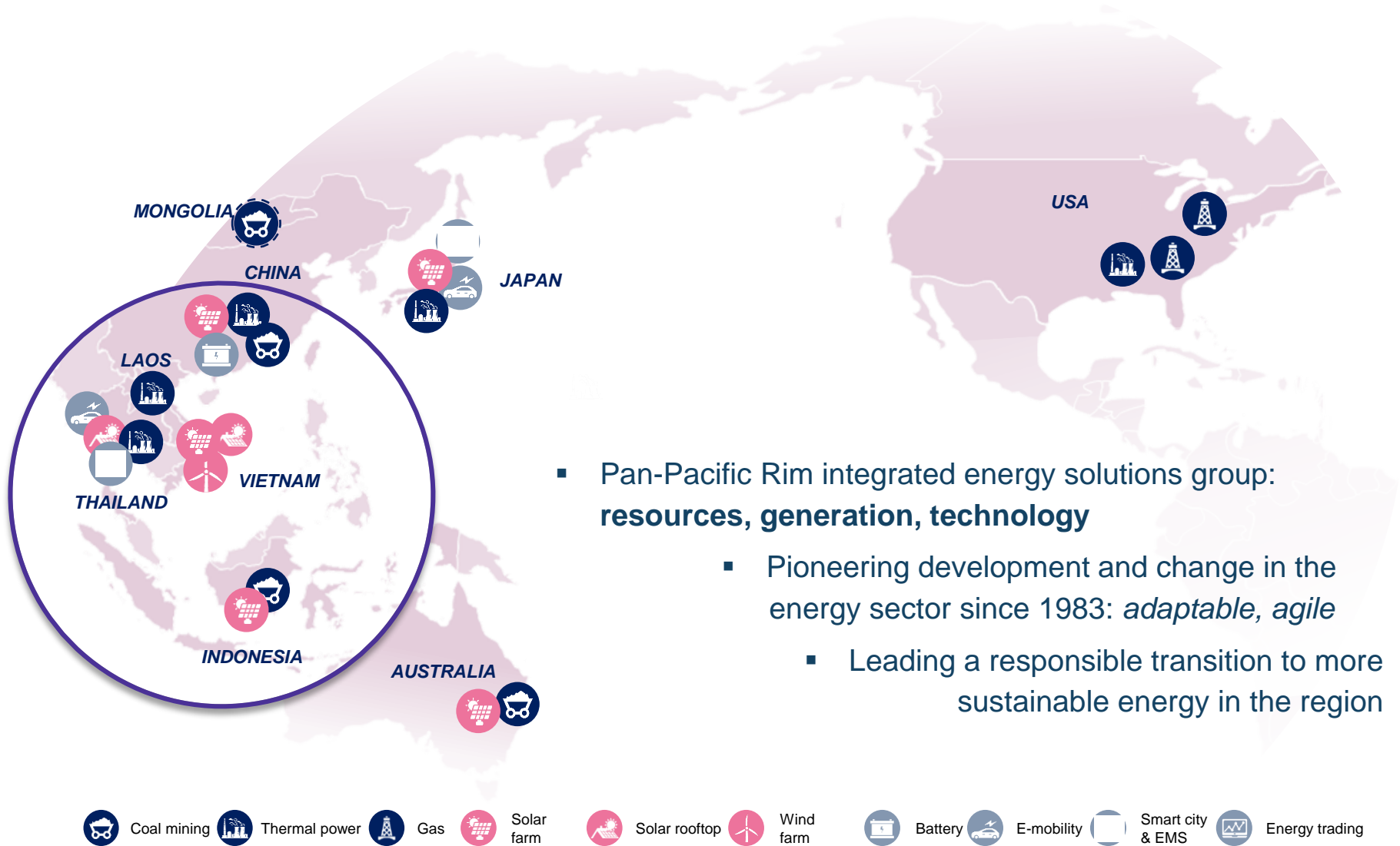
BANPU AND THE 3Ds

Portfolio of renewable power plants including **solar and wind farms, gas assets, electric vehicles, HELE and CCGT power plants**

Driving **decentralized energy generation and storage through solar rooftop installation, energy storage systems, and smart city development**

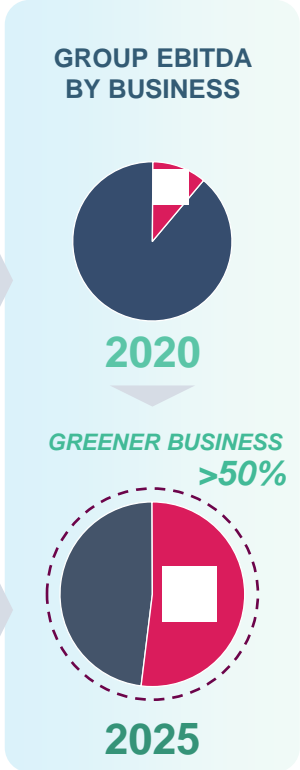
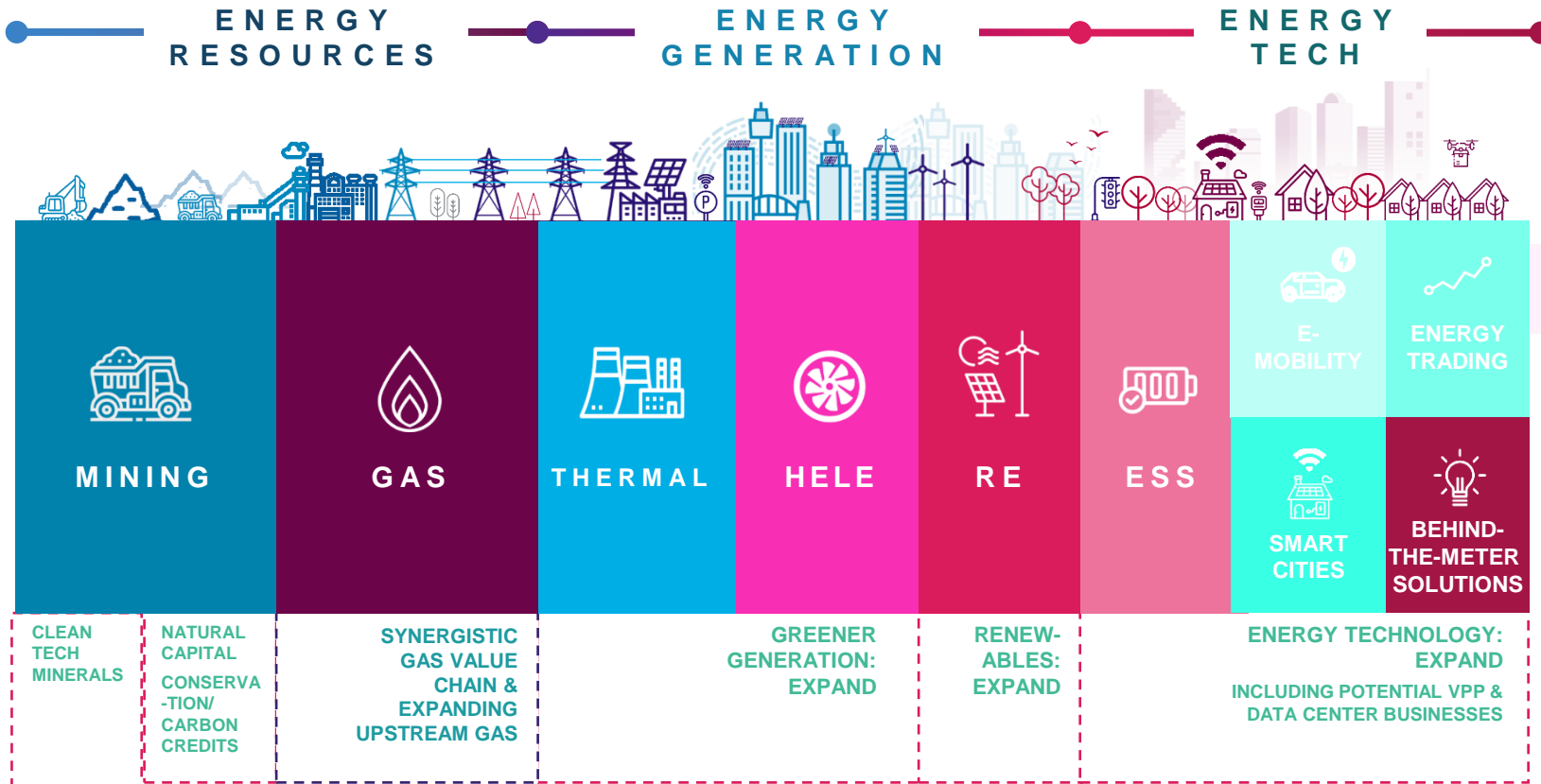
Development of **energy management systems, operational excellence, energy trading, and e-mobility solutions**





- Pan-Pacific Rim integrated energy solutions group: **resources, generation, technology**
 - Pioneering development and change in the energy sector since 1983: *adaptable, agile*
 - Leading a responsible transition to more sustainable energy in the region

BANPU: GREENER & SMARTER 2025 PORTFOLIO TARGETS



LEADING OUR TRANSFORMATION WITH ESG PRINCIPLES

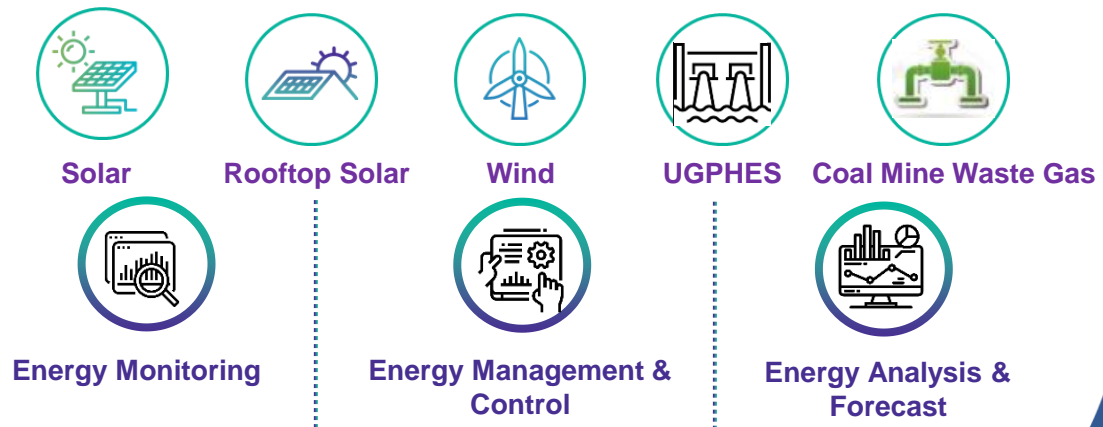
Banpu Australia

OUR WAY IN ENERGY

BANPU in Australia



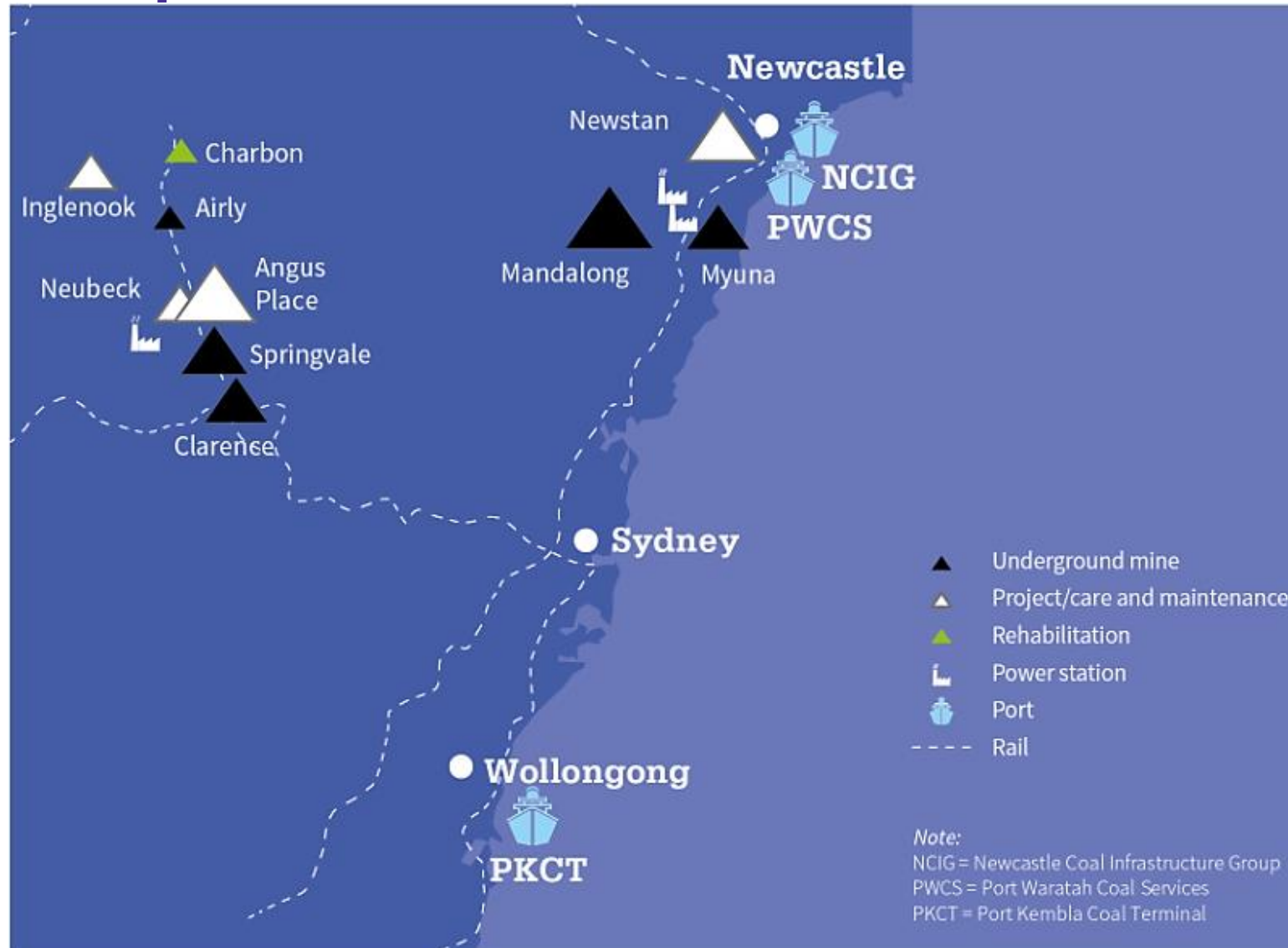
→ NSW leading supplier of coal-fired energy



Centennial

OUR WAY IN ENERGY

Coal Operations



The logo consists of a stylized white flame or leaf symbol to the left of the word "CENTENNIAL".

CENTENNIAL

Minutes

Meeting:	Centennial Western Region Community Consultative Committee
Date:	Wednesday, 17 August 2022
Location:	Lidsdale Siding, 140 Main Street, Wallerawang NSW, 2845
Time:	3.00 PM – Site tour, CCC meeting on site 3.45 – 5.25PM
Independent Chair:	Darryl Watkins: (DW)
Attendees:	Jeff Smith (JS): Community Representative
Committee Members	Paul Curran (PC): Community Representative Aunty Helen Riley (HR): Community Representative James Marshall (JM): Group Manager Stakeholder Engagement: Centennial Craig Fleming (CF): Environmental Consultant: Angus Place Colliery William Olsen (WO): Environment and Community Coordinator, Springvale Coal Services and Lidsdale Siding) David Craft (DC): Mine Manager: Angus Place Colliery Makenzie Denley (MD): Environment and Community Vacation Student Angus Place Colliery Geoff Rapson (GR): Manager Springvale Coal Services and REA Controller Stephanie Thompson (ST): Environment and Community Coordinator Trainee Springvale Mine.
Attendees:	Chase Dingle: General Manager Environment and ESG
Guests	Bob Miller: Mining Advisor
Apologies:	Cr. Maree Statham, Lithgow City Council Linda Cluff, Community Representative Jenny Lamborn, Community Representative Lauren Stevens, Development Planner Lithgow City Council Dennis Wallace Mine Manager: Springvale Colliery
Independent Minute Taker	Anthony Pooley

Action Item	Responsibility
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1. JM to advise the CCC around details and timing for the additional community consultation that will be undertaken for Angus Place West. James Marshall (Centennial)

Minutes**Action**

<p>Welcome to Country</p> <p>Aunty Helen Riley welcomed CCC members and guests to the meeting.</p>	
<p>Welcome, CCC membership update and meeting rules</p> <ul style="list-style-type: none">• The Chair welcomed all CCC Members and Guests and particularly Aunty Helen Riley as a new community member.• The Chair thanked everyone for attending and thanked Centennial representatives for facilitating the site visit.• The Chair outlined the rules for the CCC meeting, asked all members to respect each other and asked participants to wait until the end of the presentations to ask questions.• Apologies were received and apart from new member Helen Riley there were no changes to the CCC membership	
<p>Code of Conduct & Pecuniary / non-pecuniary interests</p> <p>The Chair reinforced the code of conduct and emphasised that we want an atmosphere of open and constructive discussion.</p> <p>The Chair requested any updates on pecuniary or non-pecuniary interests. No updates were provided.</p>	
<p>Previous meeting Action Items</p> <ol style="list-style-type: none">1. James Marshall has met with the Wallerawang, Lidsdale Progress Association and an update on the status of the old Commonwealth site was provided regarding removal of unsafe trees as a priority.2. The Lidsdale siding site visit preceded this CCC meeting. The Chair thanked all those involved for organising.	
<p>Angus Place report and Q&A/Discussion</p> <p>Angus Place company representatives (MD & CF) provided a report on the current matters relating to Angus Place and Angus Place west. Detail was provided as follows and the presentation is attached:</p> <ol style="list-style-type: none">1. Angus Place and satellite sites update2. No change to consents3. Map4. Operations Summary5. Environmental Performance6. Notifiable Incidents7. Narrow Swamp – Erosion8. Narrow Swamp – Investigation.9. Rock Fall event – Kangaroo Creek10. Kangaroo Creek Photos11. Upcoming Activities	

Following the detailed report, the Chair sought questions and comments from the CCC members regarding the presentation and the following were the key points discussed.

1. The 'rockfall' event occurred at Longwall 1, an area that was mined in 1979.
2. Narrow Swamp erosion was discussed, and the matter was under review / investigation.
3. As part of the upcoming activities there will be new plantings of Persoonia Hindii on the Newnes Plateau.
4. The rehabilitation reforms have been implemented with Rehabilitation Management Plans now replacing 'Mining Operation Plans' (MOP's).

Springvale Colliery report and Q&A/Discussion

Springvale Colliery company representative (ST) provided a report on the current matters relating to Springvale Colliery. The following matters were raised in the presentation and the presentation is attached.

1. Springvale Pit Top
2. Map – Newnes Plateau
3. No changes to approvals
4. Operations Summary
5. Air quality
6. La Nina events
7. Water Quality
8. Total suspended solids
9. LDP 006 EC
10. Oil and Grease
11. Water Volume
12. Noise (all compliant)
13. Extraction Plan
14. Springvale -MOD 4.

Following the comprehensive report, the Chair sought questions from the CCC members, and the following were questions raised and key points discussed.

Paul Curren advised that Springvale site operations were not as audible lately which is likely to the low volume of coal on the stockpile. Noise from the stockpile has been an ongoing issue.

Clarification regarding terminology such as non-compliance with water volume and total suspended solids. Terms explained / clarified.

All monitoring results (water quality, volume, air quality etc are reported and results published on the Centennial website.

Springvale Coal Services and Lidsdale Siding report and Q&A/Discussion

Springvale Coal Services and Lidsdale Siding company representative (W0) provided a report on the current matters relating to SCS and Lidsdale Siding. The following information was provided, and the presentation is attached.

1. Springvale Coal Services (SCS)
2. Environmental Performance Overview
3. SCS Air quality (Depositional dust)
4. Air quality (PM)
5. SCS Noise
6. SCS Water – significant rainfall – ‘turbidity’ exceeded
7. Operational Update – Handover to Energy Australia
8. Focus: Water management (minimising erosion, lower suspended solids)
9. Water management – Photos
10. Lidsdale Siding
11. Air Quality (Depositional dust)
12. Air Quality (PM)
13. Noise
14. Water
15. Triangle Dam Completion
16. TD photos (hydro mulching to decrease erosion)
17. Draft Modification.
18. Draft modification (cont’d)
19. Lidsdale Siding and Coal Services Incident Report
20. Incidents and Complaints (1 Incident 11/7/22)

Following the comprehensive report, the Chair invited questions from CCC members. The main points raised are outlined below.

A Modification is proposed to permit the transport of coal from Clarence to either the Lidsdale Siding site or to the Mt Piper Power Station (MPPS). The Modification is required to ensure adequate coal supply to MPPS as the current stockpile is low. Once the Modification Report is finalised and placed on public exhibition the CCC will be notified.

Centennial Company report and Q&A/Discussion

The Centennial Company representative (JM) provided a report on current matters relating to BANPU and Centennial. The following matters were raised, and the presentation is attached.

1. Centennial
2. BANPU banner
3. BANPU Greener & Smarter
4. Pinecrest Solar – Photo
5. Focus is transition to greener energy.
6. Project Overview
7. Project Status
8. Rehabilitation Management Plan
9. Mine Rehabilitation Reforms – Proposed modification to consents

<p>10. Angus Place West 11. APW – Social Impact Assessment 12. Social Area of Influence – locals, amenity change, groundwater, subsidence 13. Social Area of Influence – Secondary 14. Social Area of Influence – Regional.</p> <p>Discussion ensued regarding the proposed Pinecrest Solar Farm including location and approvals pathway.</p> <p>Further information provided on the Modification seeking to permit coal haulage by road.</p> <p>Further content on the Rehabilitation Reforms provided.</p> <p>An update on the Angus Place West project – in particular an overview of the Social Impact Assessment was provided.</p>	
<p>CCC Member Communication with the Broader Community</p> <p>DW went around the table to seek views from the CCC members regarding feedback from the community regarding Centennials operations. No issues were raised.</p>	
<p>General business</p> <p>DW requested any general business items. Nil was raised.</p>	
<p>Next meeting</p> <p>The next CCC meeting was scheduled for 16 November however not all members are available for that date.</p> <p>Proposed date is the following Wednesday 23 November commencing at 3:30pm. Venue to be advised.</p> <p>The Chair thanked the guest speakers for their presentations and for the site visit.</p> <p>The Chair also thanked the CCC members for their contribution and for the positive nature in which discussions occurred.</p> <p>Meeting closed at 5.20pm</p>	

Western Region CCC Meeting

Angus Place and Satellite Sites Update
August 2022

Angus Place and Ivanhoe sites

Reporting Period

- May 2022 – June 2022

Sites

- Angus Place
- Ivanhoe Sites

Consents

- Angus Place Project Approval 06_0021 Mod 6-No change
- Ivanhoe North Project Approval 05_0103-No change

Licenses

- EPL No. 467- Angus Place- No change
- EPL No. 13063- Ivanhoe North- No change
- EPL No. 631- Ivanhoe 2- No change



Angus Place pit top



Operations Summary

- Angus Place is currently on care and maintenance since 2015
- No tonnes mined and no coal transported
- Underground roof fall recovery 910N
- Ivanhoe sites continued rehabilitation maintenance
- 250m of the Wallerawang Haul Road have been resurfaced in August 2022, with remaining 600m scheduled for 2023
- Increased crossover with GPM in the Kerosene Vale area
- Reviewed Water Quality Assessment following the removal of the Temporary Water Treatment Plant at Angus Place
 - Report recommended to remove monitoring points 16 – 19 from the Environment Protection Licence

Environmental Performance - AP and Satellite Sites

Water Monitoring results

- No exceedances of EPL conditions.
- Discharges AP
 - LDP 2 – April, May and June
 - LDP 3 – May

Noise Monitoring results

- No exceedances

Air Monitoring results

- No exceedances

Community Complaints

- None



Notifiable Incidents



Narrow Swamp – Erosion

- 18th May 2022 – contractors undertaking annual photo monitoring surveys identified erosion in Narrow Swamp.
- Reported on the 25th May 2022 to:
 - The Department of Planning (DPE)
 - The Environment Protection Authority
 - The NSW Resources Regulator
 - National Parks and Wildlife Services
 - The Forestry Corporation NSW (FCNSW).
- 18th July – Regulator Inspection
- Investigation ongoing

Narrow Swamp

Regulator Inspection 18 July 2022



Rock Fall – Kangaroo Creek

- 3rd June 2022 - Lithgow Environment Group IMC Facebook page posted a photo of a landslide
- 6th June 2022 – Inspected by Mine manager
- Reported on 16th June 2022 to:
 - National Parks and Wildlife Services
 - Planning Secretary
 - Resource Regulator
 - NSW Environmental Protection Authority
- 18th July – Regulator Inspection

Kangaroo Creek

Regulator Inspection 18 July 2022



Upcoming Activities

- EIS submission for Angus Place West Q4 2022
- Underground secondary support campaign in 910N
- Planning to submit a license variation to remove monitoring points 16 – 19 in EPL 467, as recommended by ‘Angus Place Temporary Water Treatment Plant Water Quality Assessment’ report.
- *Persoonia Hindii* - new phase of planting to occur in Q3
- Studies regarding Ivanhoe closure planning
- Upcoming modification to development consent – modification 7
 - Introduce a new Rehabilitation Strategy condition
 - Ensure the new Rehabilitation Management Plan Reforms recently introduced by the Resource Regulators are:
 - appropriately considered within the consent conditions;
 - not in conflict with existing conditions

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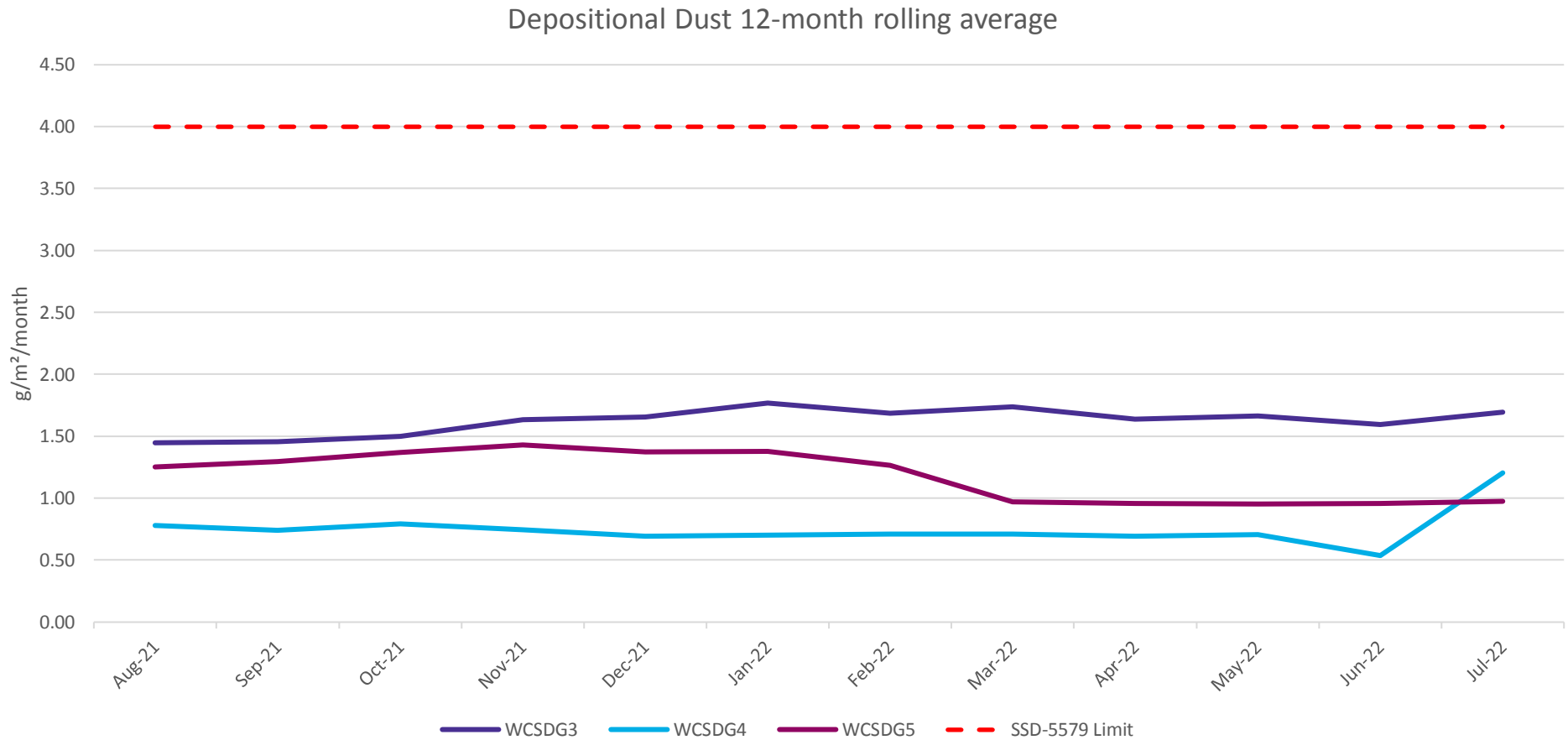
August 2022 CCC Meeting Presentation

Springvale Coal Services and Lidsdale Siding

Springvale Coal Services Environmental Performance Overview

SCS – Air Quality (Depositional Dust)

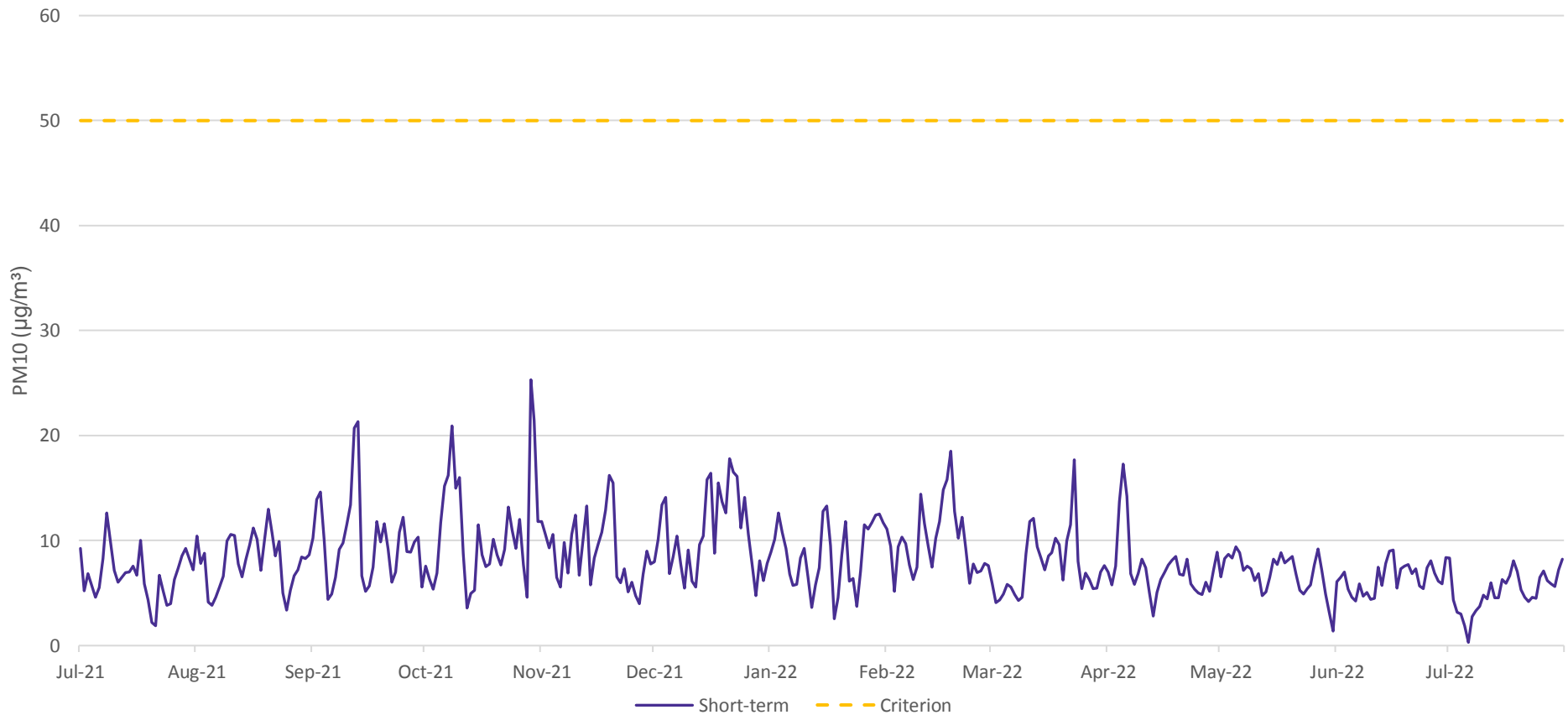
- Compliant with the depositional dust criteria of $4\text{g}/\text{m}^2$ at all three monitoring locations.



SCS – Air Quality (PM¹⁰)

- Compliant with the 24 hour PM¹⁰ criteria of 50 µg/m³.

24 hour PM10 Average



SCS – Noise

- No exceedances of noise criteria since 2017.

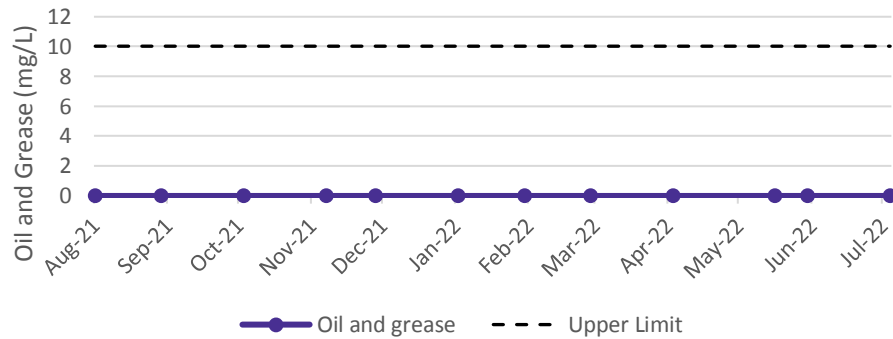
Location SSD/EPL Locations	Estimated $LA_{eq(15minute)}$ Contribution dBA July 2022			Noise Criteria $LA_{eq(15minute)}$ dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
WNM1	NA	NA	NA	40	35	35	Y	Y	Y
WNM2	NA	NA	NA	41	35	35	Y	Y	Y
WNM3	NA	NA	NA	36	35	35	Y	Y	Y
WNM4	NA	NA	NA	35	35	36	Y	Y	Y

Note- NA= Not Audible

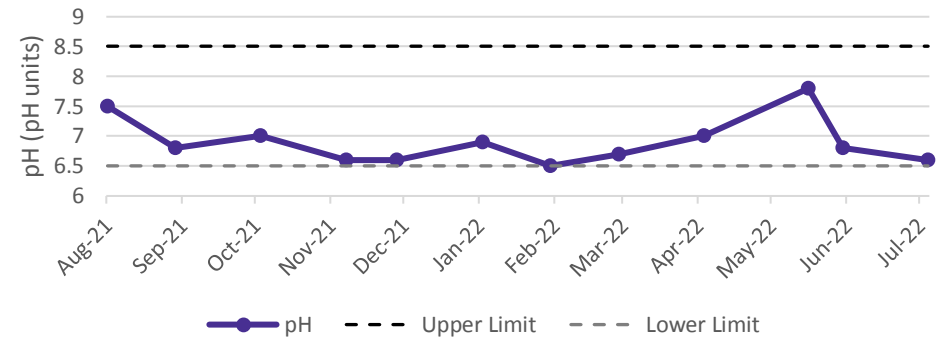
SCS – Water

- All discharges compliant with EPL requirements year to date
- Water management has been a key focus considering El Nino trends

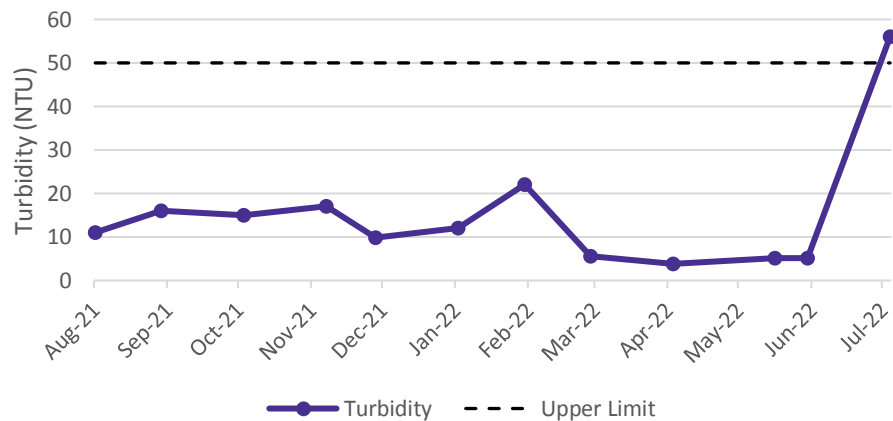
LDP001 Oil and Grease



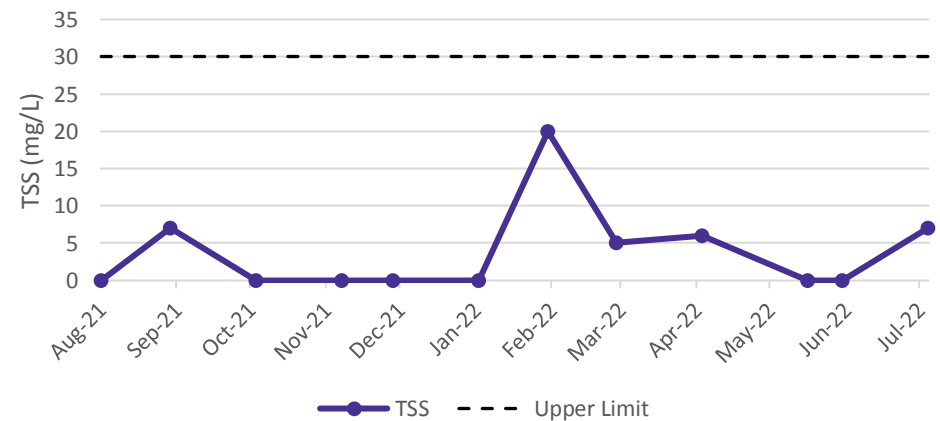
LDP001 pH



LDP001 Turbidity



LDP001 TSS



Operational Update: Energy Australia Handback

Area 4 has been officially handed over to Energy Australia. The purpose for the area is for ash emplacement



Focus: Water Management



With La Niña not letting up throughout 2022 water management and drainage has been a key focus for WCS. It is important as water quality limits apply for discharge into Wangcol Creek (Cox's River Catchment)

Focus: Water Management



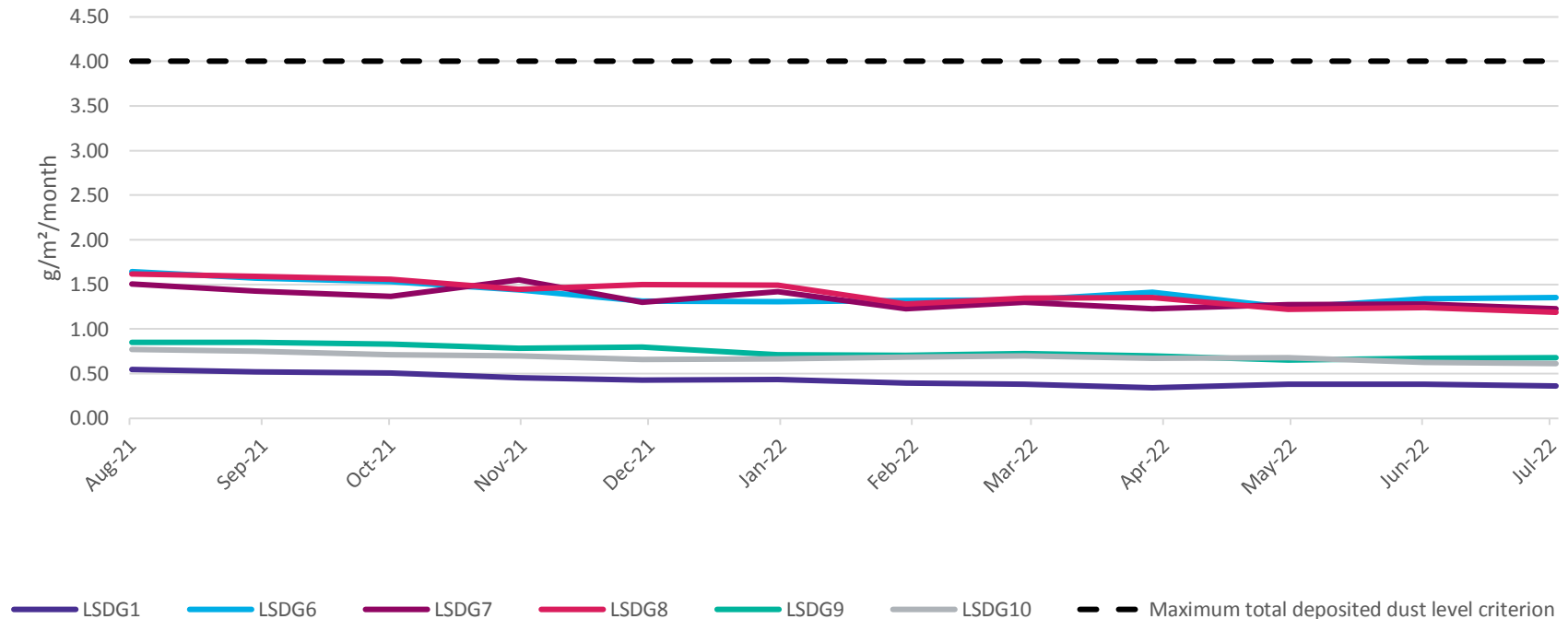
Lidsdale Siding

Environmental Performance Overview

Lidsdale Siding – Air Quality (Depositional Dust)

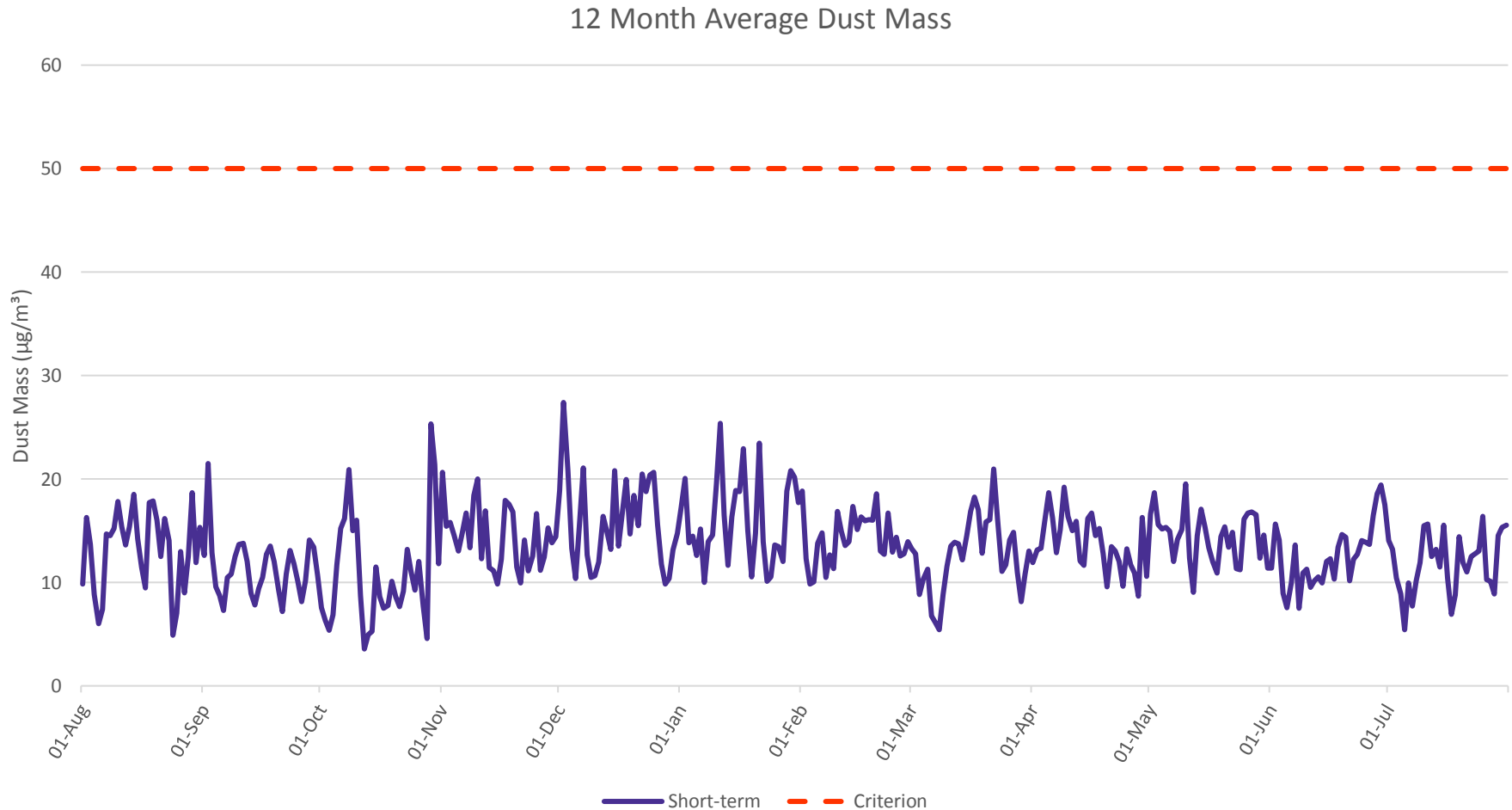
- Compliant with the depositional dust criteria of $4\text{g}/\text{m}^2$ at all six monitoring locations.

Depositional Dust 12-month rolling average



Lidsdale Siding – Air Quality (PM¹⁰)

- PM¹⁰ criteria limit of 50 µg/m³. Compliant over previous period.



Lidsdale Siding – Noise

- No exceedances of noise criteria since 2017.

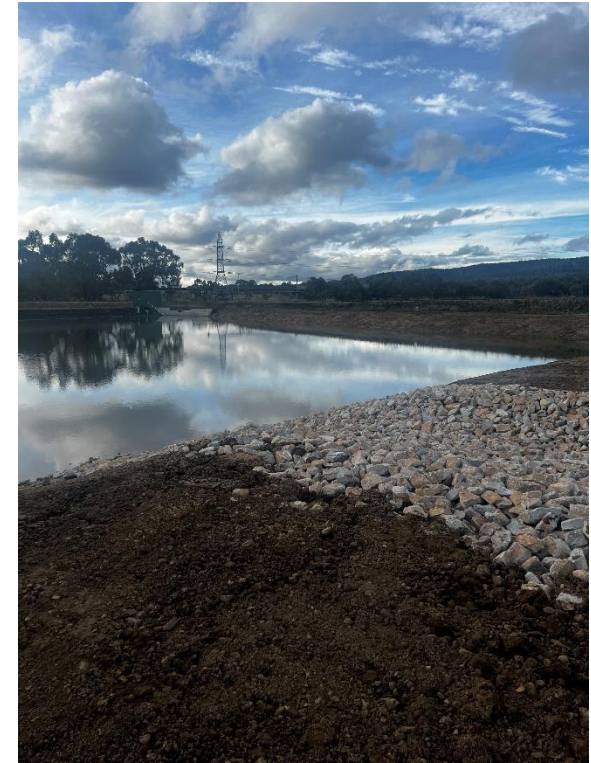
Location SSD/EPL Locations	Estimated Lidsdale Siding LA _{eq(15minute)} Contribution dBA July 2022			Noise Criteria LA _{eq(15minute)} dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
LNM1	NA	NA	NA	50	50	50	Yes	Yes	Yes
LNM2	NA	NA	NA	48	46	46	Yes	Yes	Yes
LNM3	NA	NA	NA	46	46	46	Yes	Yes	Yes
LNM4	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM5	NA	NA	NA	44	41	41	Yes	Yes	Yes
LNM6	NA	NA	NA	43	40	40	Yes	Yes	Yes
LNM7	NA	NA	NA	40	39	39	Yes	Yes	Yes
LNM8	NA	NA	NA	45	45	45	Yes	Yes	Yes
LNM9	NA	NA	NA	45	45	45	Yes	Yes	Yes
LNM10	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM11	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM12	NA	NA	NA	48	47	47	Yes	Yes	Yes

Note- NA= Not Audible

Lidsdale Siding – Water

Month	Total Rainfall (mm)	Minimum Temperature (deg C) @ 2m	Maximum Temperature (deg C) @ 2m
Aug-21	75.8	-4.7	21.37
Sep-21	46	-4.23	21.22
Oct-21	49.2	-0.92	28.54
Nov-21	177.8	2.87	23.95
Dec-21	73.8	4.27	30.49
Jan-22	161.8	10.29	31.39
Feb-22	106.6	7.77	29.54
Mar-22	171.4	7.43	26.78
Apr-22	64.2	1.58	23.98
May-22	62.2	0.03	17.82
Jun-22	14.2	-5.13	14.72
Jul-22	120.2	-4.99	9.73

Triangle Dam Completion



Background: Triangle Dam is a 2-cell retention dam which processes all water from the catchment of the Lidsdale Siding Project before discharge into Pipers Flat Creek. The improvements to this dam has been the increase in size including the 2-cell strategy designed to allow solids to drop out of the water before discharge.

Triangle Dam Completion



Lidsdale Project Draft Modification

- The prevailing NSW energy crisis together with logistics constraints caused by the recent July 2022 flooding has resulted in a shortage of coal supply to the MPPS. This has resulted in diminished coal stockpile levels at the MPPS.
- To ensure MPPS can continue to meet the electricity demands of NSW, Centennial has been investigating ways to deliver additional coal to MPPS to secure adequate energy stocks to relieve any potential risk of an energy shortage for NSW.
- Lidsdale Siding's consent has been previously modified and infrastructure installed allowing for the receipt of coal and therefore providing logistic flexibility to Centennial regarding coal supply to MPPS from other sites.
- Centennial will seek to Modify the Clarence and Lidsdale Siding consents to dispatch and receive (respectively) coal by road. This allows for Clarence to be a supply source should supply become critical. Clarence consent has been previously modified permitting the temporary tonnage increase to be transportable by road (200,000 tonnes to up to 300,000 tonnes). A similar modification will be sought to ensure that supply demands can be met.

Lidsdale Project Draft Modification

- The Modification report will include a range of assessments including but not limited to noise; air quality and traffic. Whereas the previous Modification permitted access to MPPS via the Wallerawang Haul Road, this Modification will transport coal directly to Lidsdale Siding or the MPPS via the Castlereagh Highway as access via the private haul road network is no longer available.
- The period for the Modification will be up to 31 December 2023. Details for the number of trucks and time frames will be detailed in the Modification report however it is understood that these will mirror the conditions as per the previous consent.
- Existing trucking facilities can be put back into operation with no upgrades required at the facility.

Lidsdale Siding & Springvale Coal Services

Incidents & Complaints

Incidents and Complaints

- **Lidsdale Siding**

- 1 Incident occurred on the 11th of July 2022 at 8:20pm. A loaded coal train from Airly Mine was received outside the day period for the purpose of unloading on the 12th of July at 7:15am. This incident has been reported to the DPE and corrective actions have been implemented.
- No complaints received year to date in 2022.
- Last complaint received for the site was on 18 February 2016.

- **Springvale Coal Services**

- No incidents or non-compliances recorded year to date in 2022.
- No complaints since February 2022.

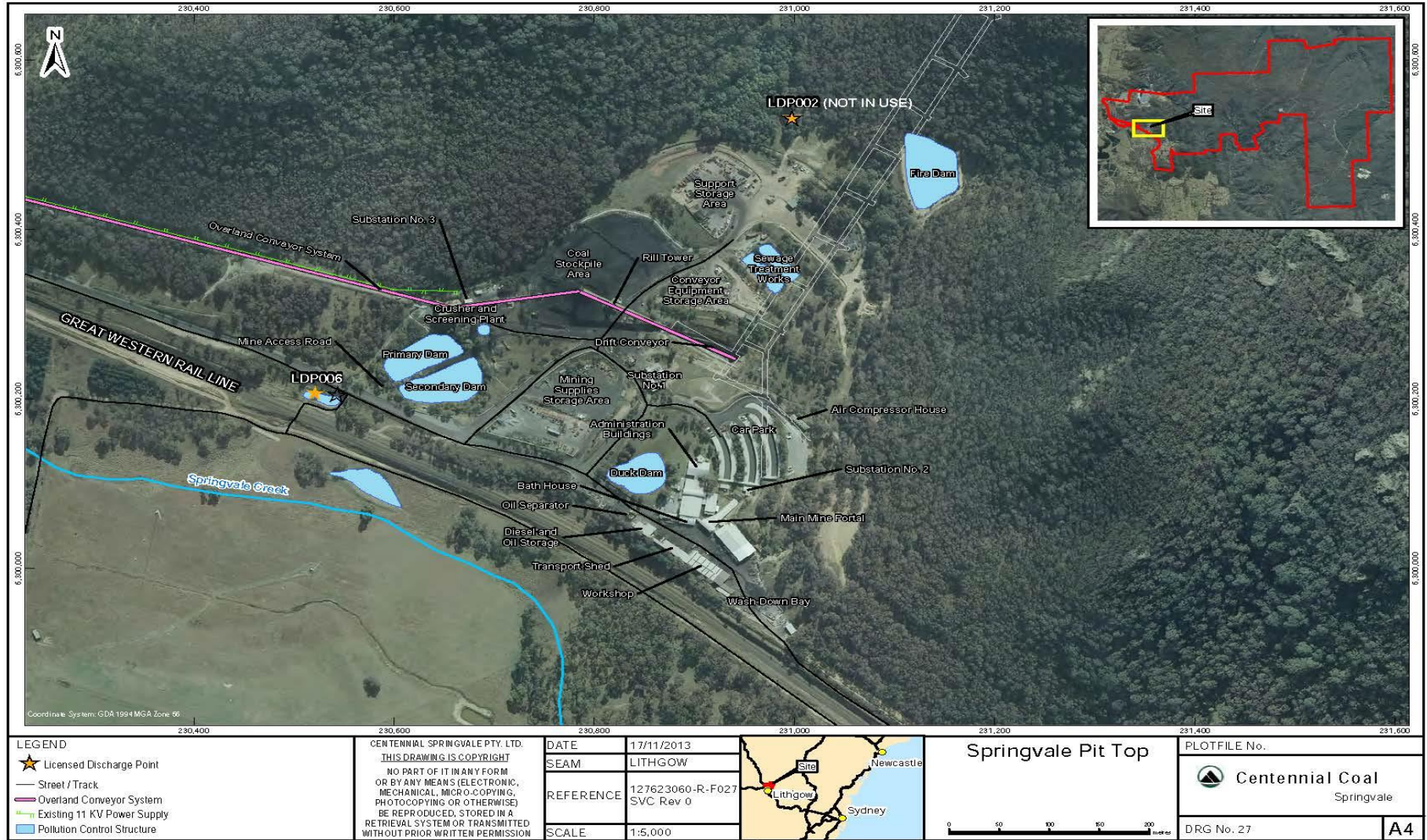
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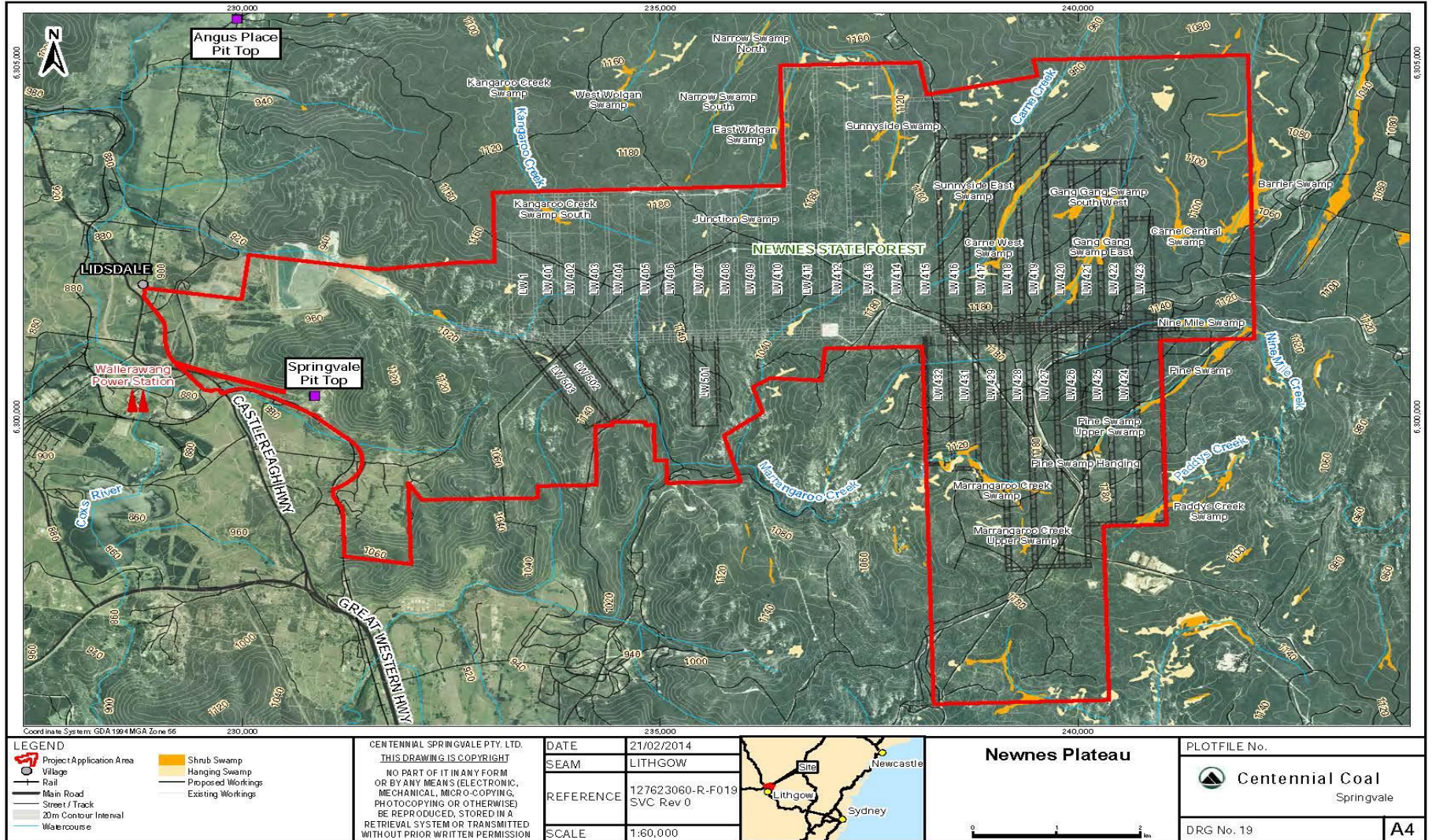
Springvale Colliery CCC Update

August 2022

Springvale Pit Top



Newnes Plateau



Introduction

Reporting Period	May 2022 to July 2022
Site	Springvale
Consent Site	SSD_5594: 3 modifications (last 20/6/2021)
Consent WTP	SSD_7592: 7 modifications (Mod 7 Approved 19/6/2021)
EPBC Approvals	2011/5949 Mining of Longwalls 415 – 417 2013/6881 Mining associated with Springvale Mine Extension Project
Licenses	EPL3607
Other	Mining Tenements (14), Dangerous Goods, Groundwater, Occupation Permit, Section 95, TS Licences
All Other Licences and Approvals	Mining Tenements – Regulator driven changes to mining tenements issued. There were primarily issued in relation to changing reporting processes from annual reports to event driven notifications

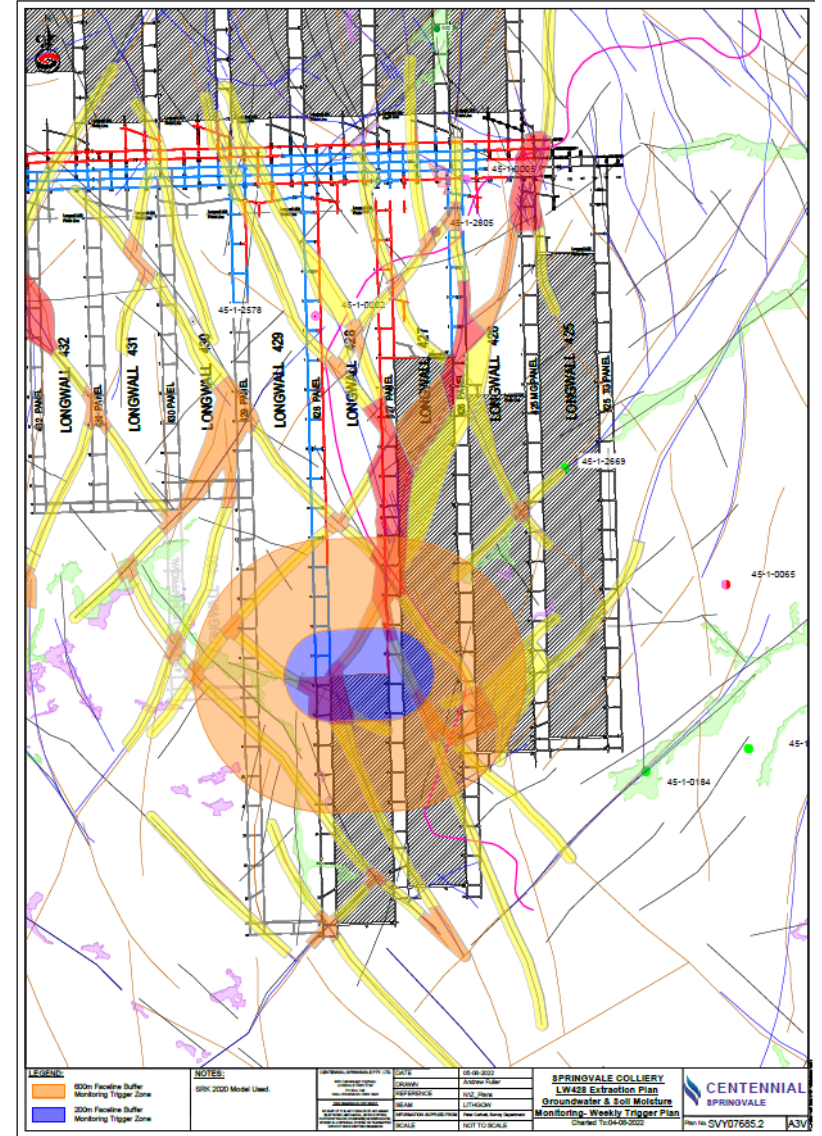
Changes to Approvals During the Reporting Period	<ul style="list-style-type: none"> • NA
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Operations Summary

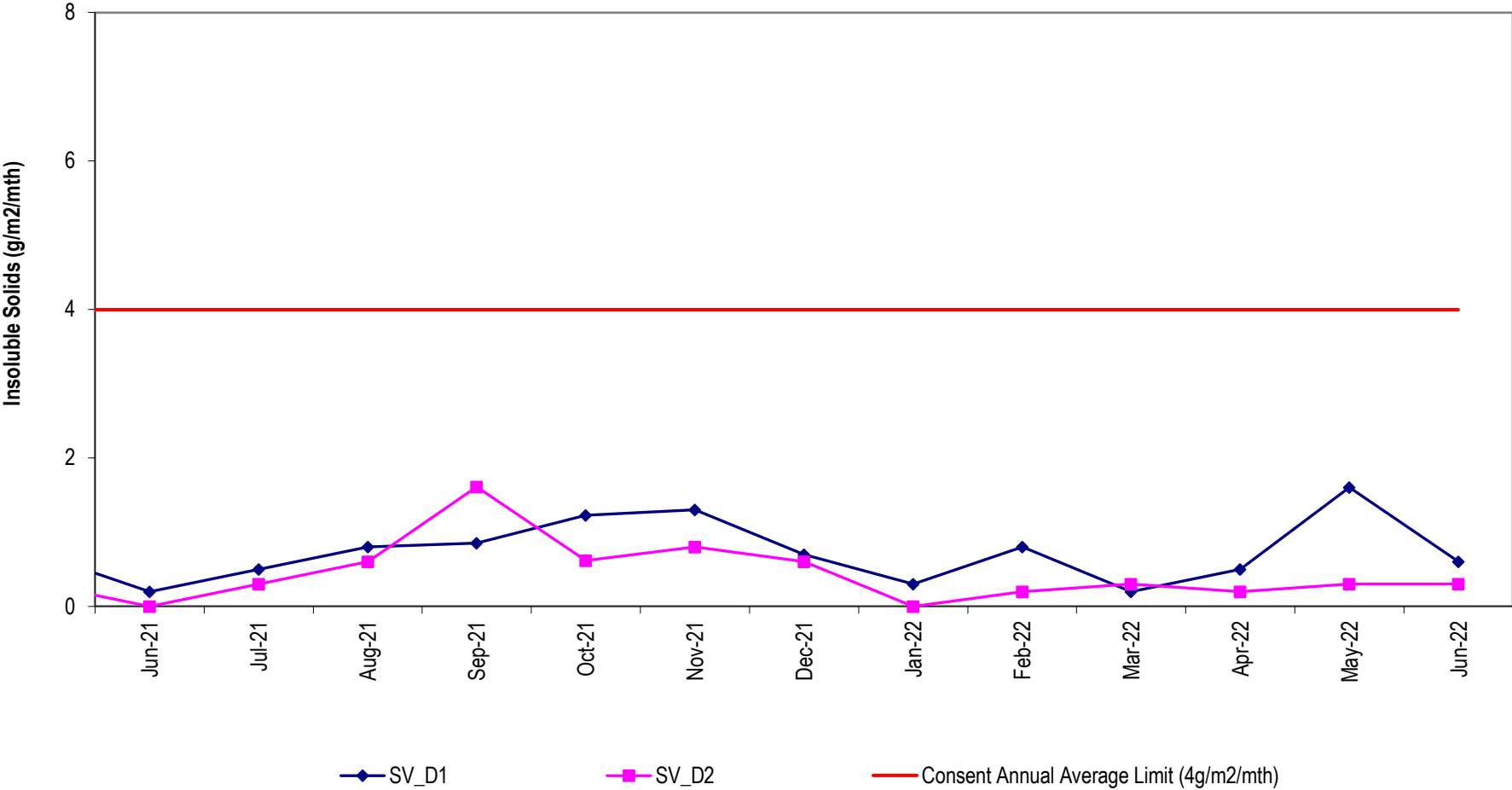
LW428 commenced 25 March 2022	
ROM Coal Mined 2021	2.093 Mt
ROM Coal Mined YTD 2022	1.429 Mt
Coal trucked via roads	0t
Surface disturbance	Nil disturbance pit-top

- 1 Volume Non-Compliance
- NIL community complaints



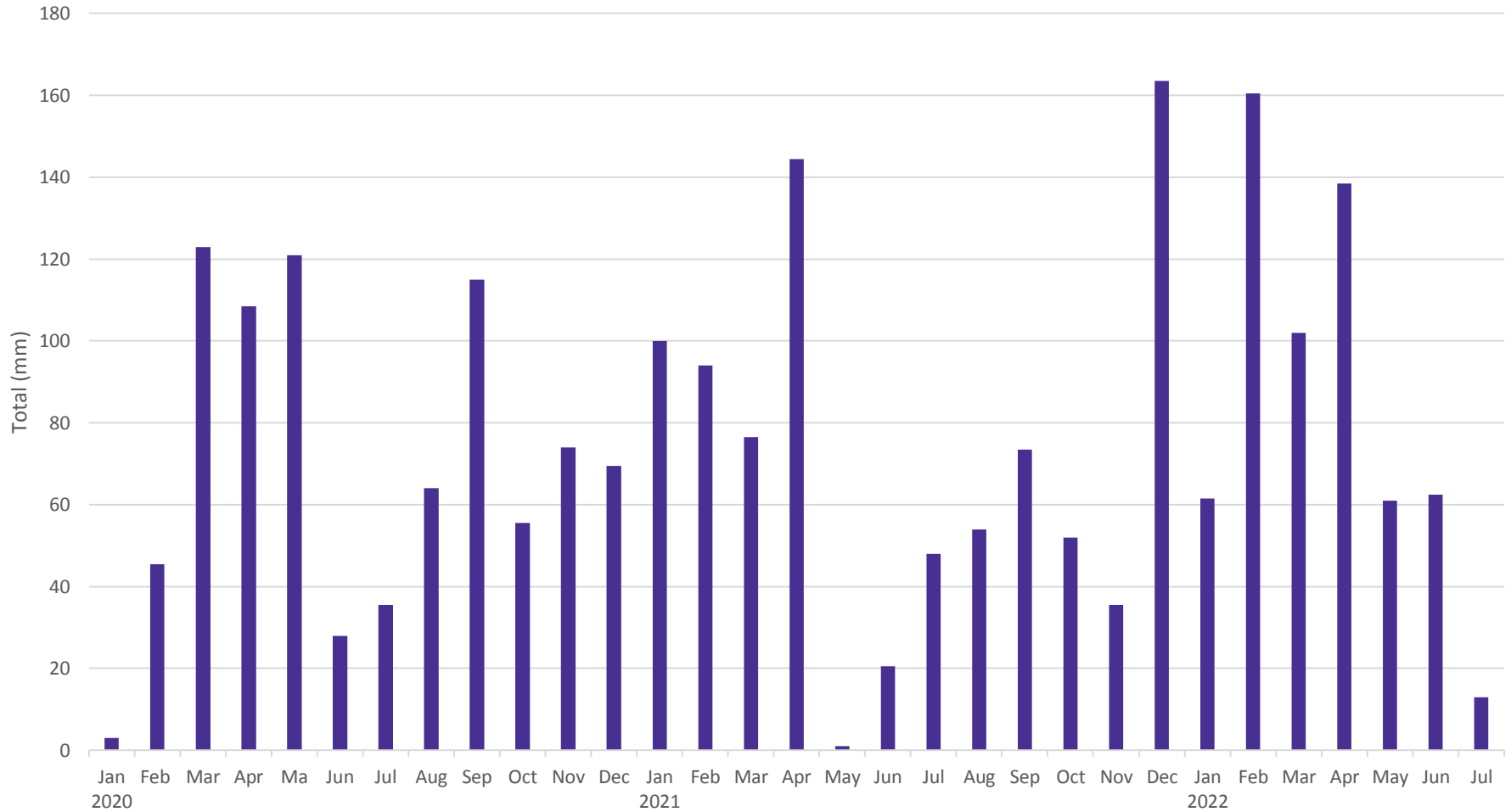
Air Quality

Monthly Dust Deposition



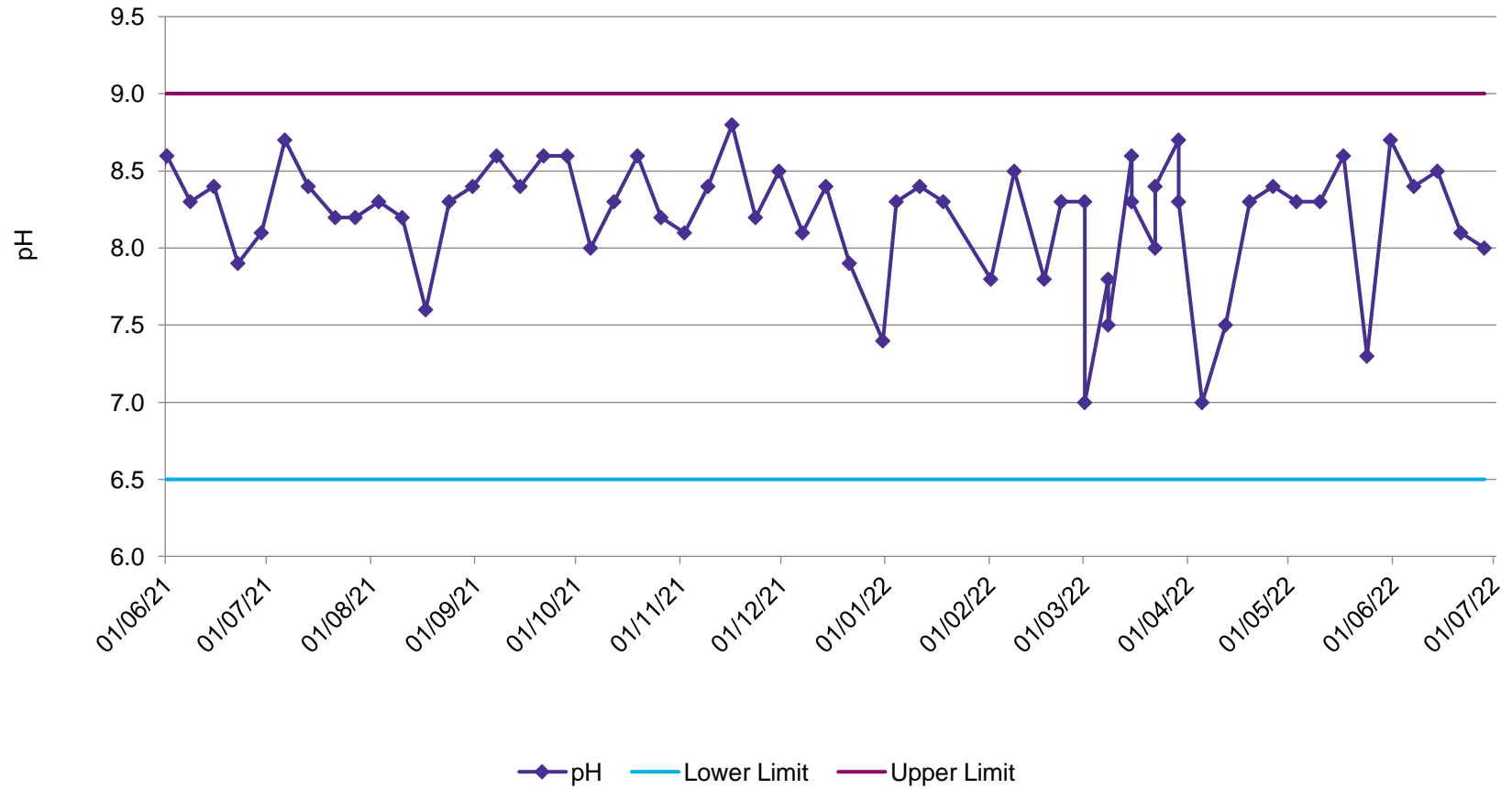
La Nina Event and Impact on Water Management

Rainfall Data

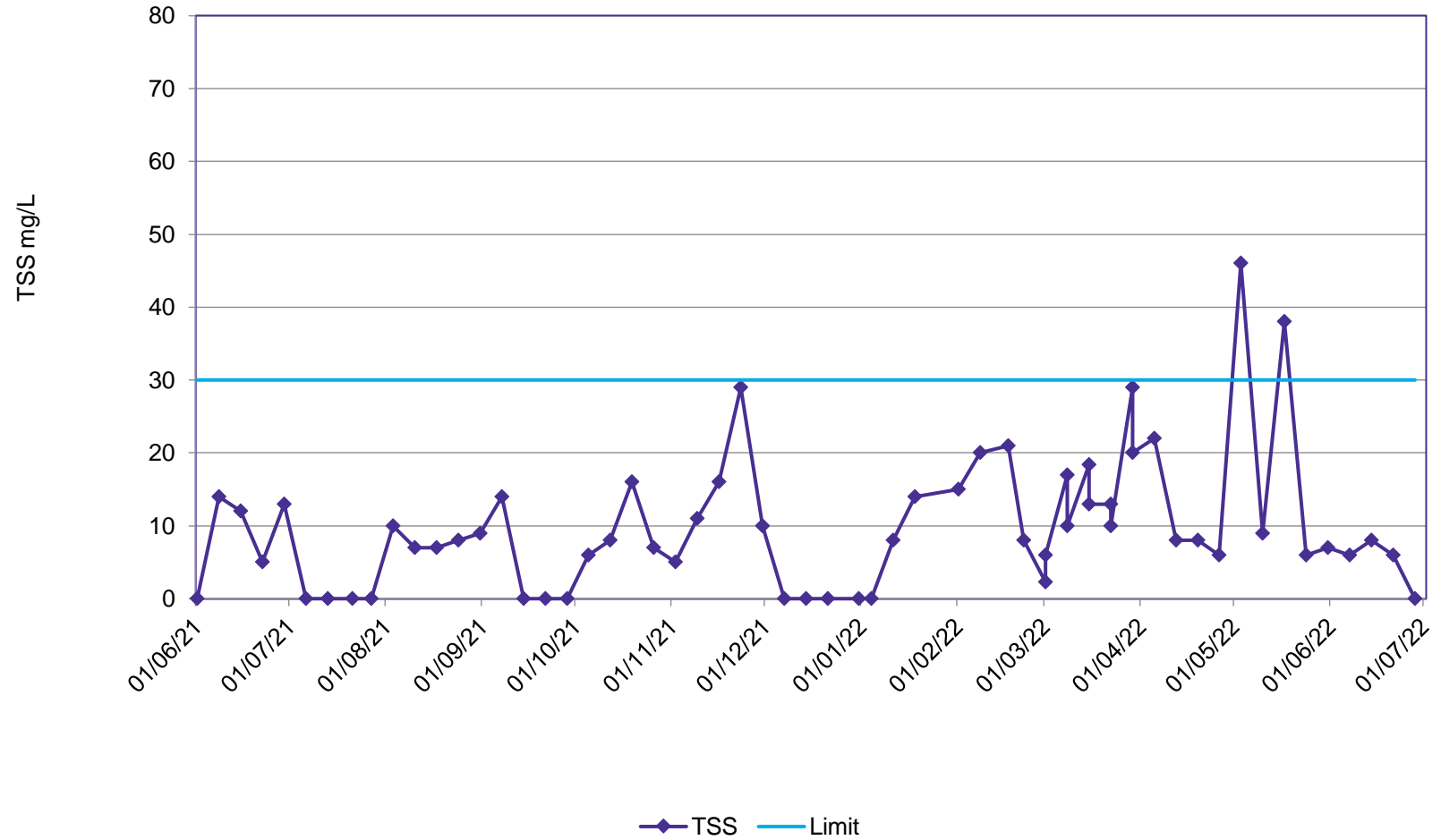


Water Quality

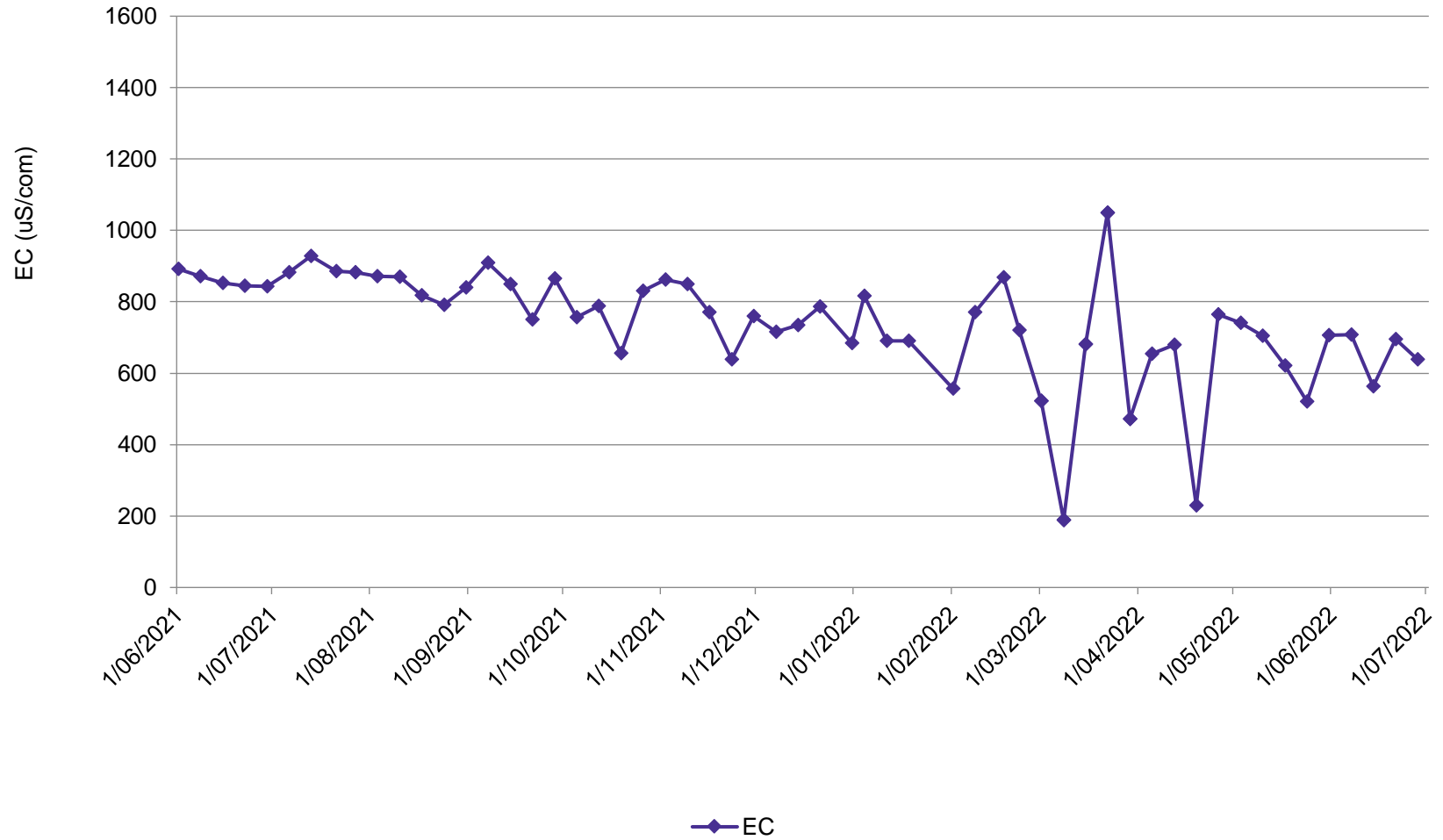
LDP006 pH



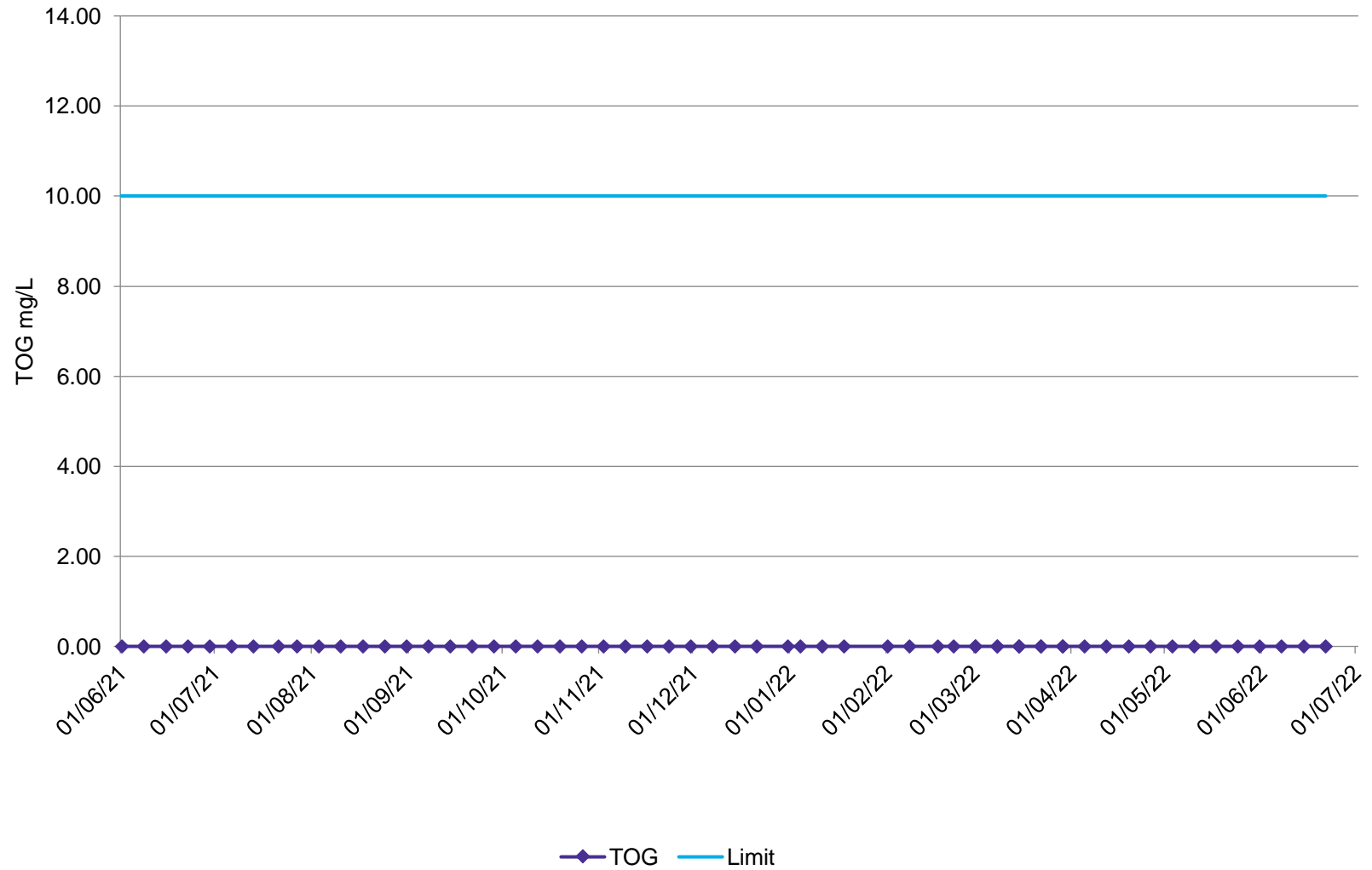
LDP006 Total Suspended Solids (TSS)



LDP006 EC

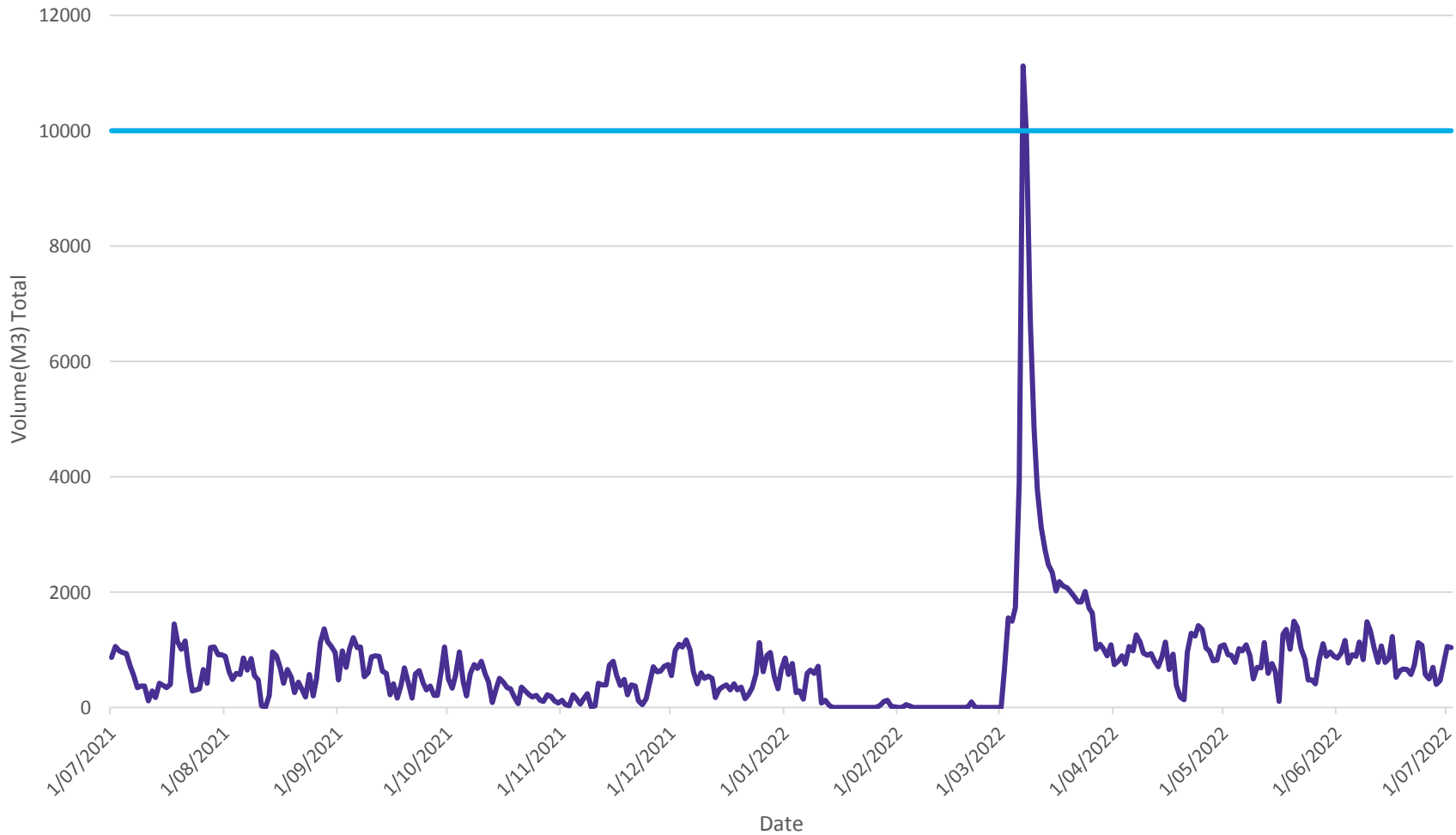


LDP006 Oil and Grease (TOG)



Water Volume

LDP006 Volume



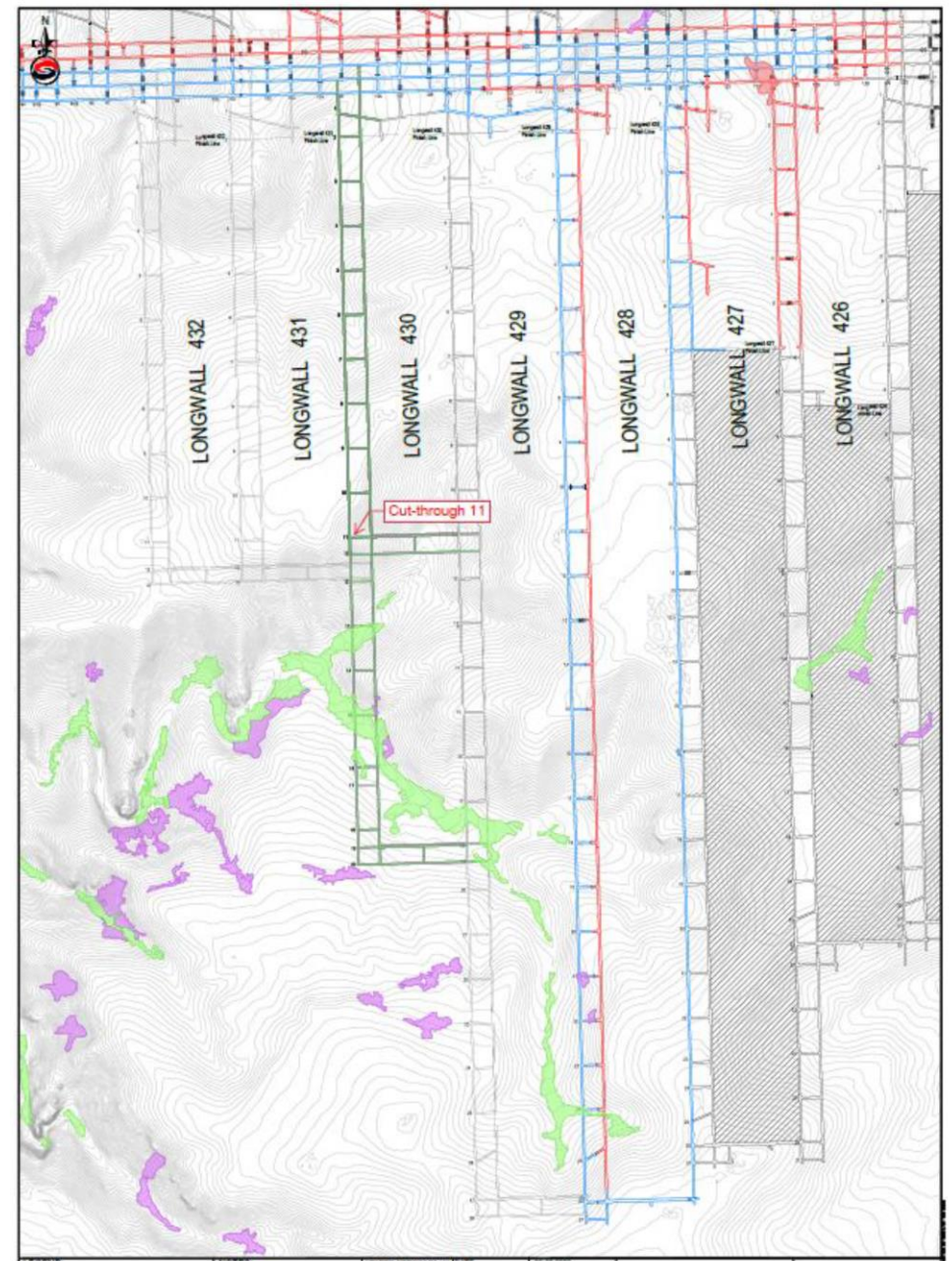
Noise

Location	Estimated Springvale LA _{eq(15minute)} Contribution dBA			Noise Criteria LA _{eq(15minute)} dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
SSD/EPL Locations									
S1/EPL Point 3	<40	42	<35	44	44	42	Yes	Yes	Yes
S2/EPL Point 4	<40	43	<35	43	43	43	Yes	Yes	Yes
S3	I/A	I/A	I/A	35	35	35	Yes	Yes	Yes
S4/EPL Point 5	I/A	I/A	~32	35	35	35	Yes	Yes	Yes
S5	I/A	I/A	~32	35	35	35	Yes	Yes	Yes

I/A = Inaudible

Extraction Plan 428-432

- Extraction Plan area includes :LW428 - 432
- DPIE approved LW 248-432 on March 12 2022.
- Comprehensive Reporting Program have been developed for inclusion of LW 428 – 432.
- Provide confirmation of strata barrier between Springvale Colliery and State Mine Workings.
- Project Area- Newnes plateau (Gardens of Stone National Parks) Controlled by NPWS



Springvale SSD 5594 – Modification 4

- to be submitted in coming weeks

- **Springvale Modification 4 – administrative modification of consent to:**
 - Introduce a new a Rehabilitation Strategy condition; and ensure the new Rehabilitation Management Plan Reforms recently introduced by the Resources Regulator are:
 - appropriately considered within the consent conditions;
 - not in conflict with existing conditions

The logo consists of a stylized white flame or leaf symbol to the left of the word "CENTENNIAL".

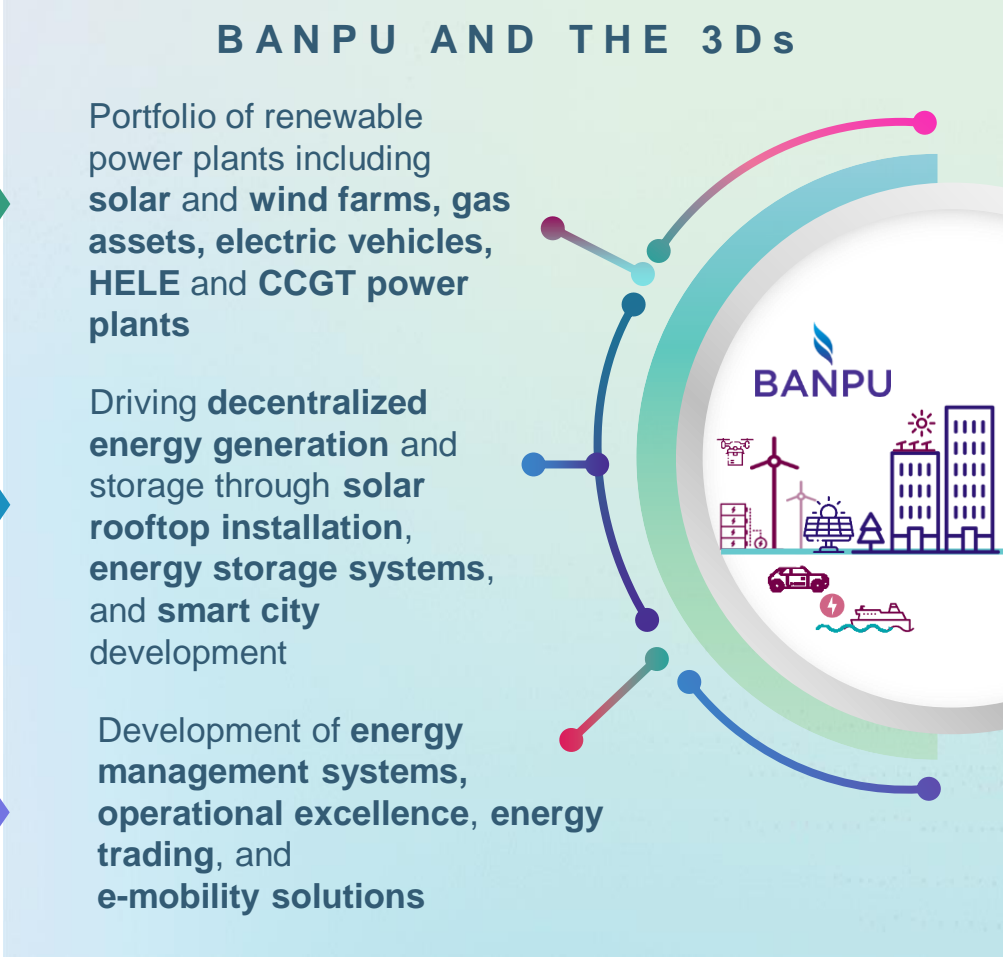
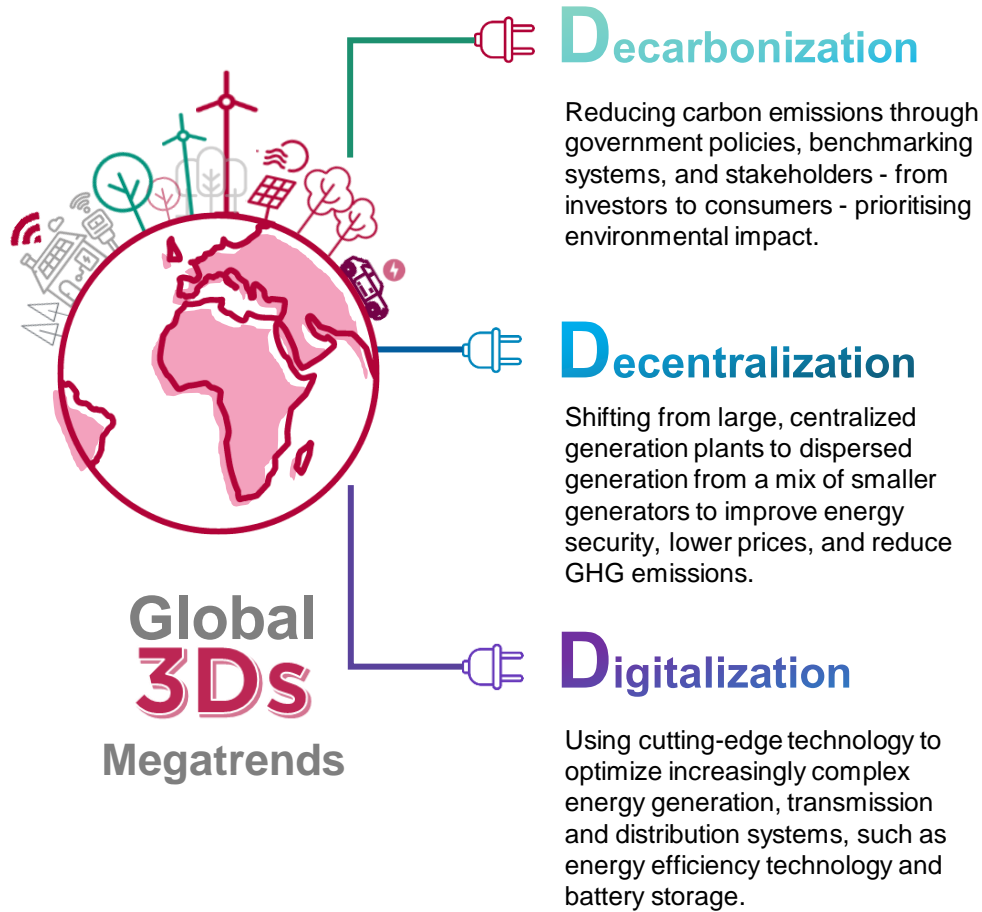
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Centennial

Company Update August 2022

OUR WAY IN ENERGY

Banpu Energy Australia





BANPUENERGY
AUSTRALIA

PROPOSED Pinecrest Solar Farm

Lidsdale NSW

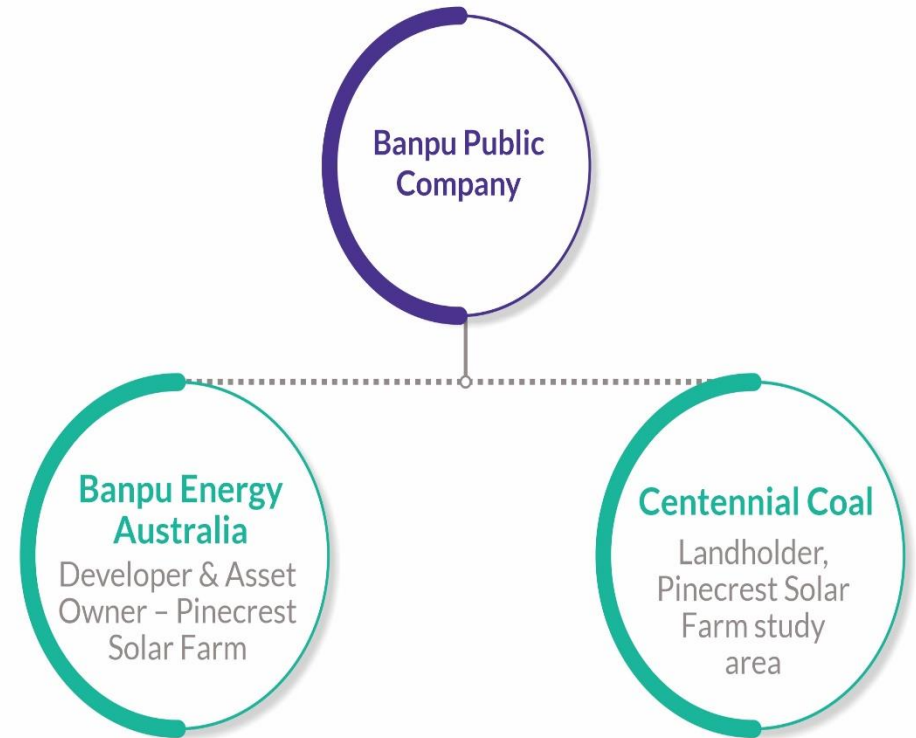
The Proponent - Banpu Energy

Banpu Energy Australia (Banpu Energy) is the applicant and asset owner for the Project.

Banpu Energy runs three core business groups:

1. Energy Resources (coal and gas)
2. Energy Generation (base-load and renewable power plants)
3. Energy Technology (solar energy solutions, energy storage and technology).

Banpu's business focus is to accelerate growth and transition towards green energy via its *Greener and Smarter Strategy*.



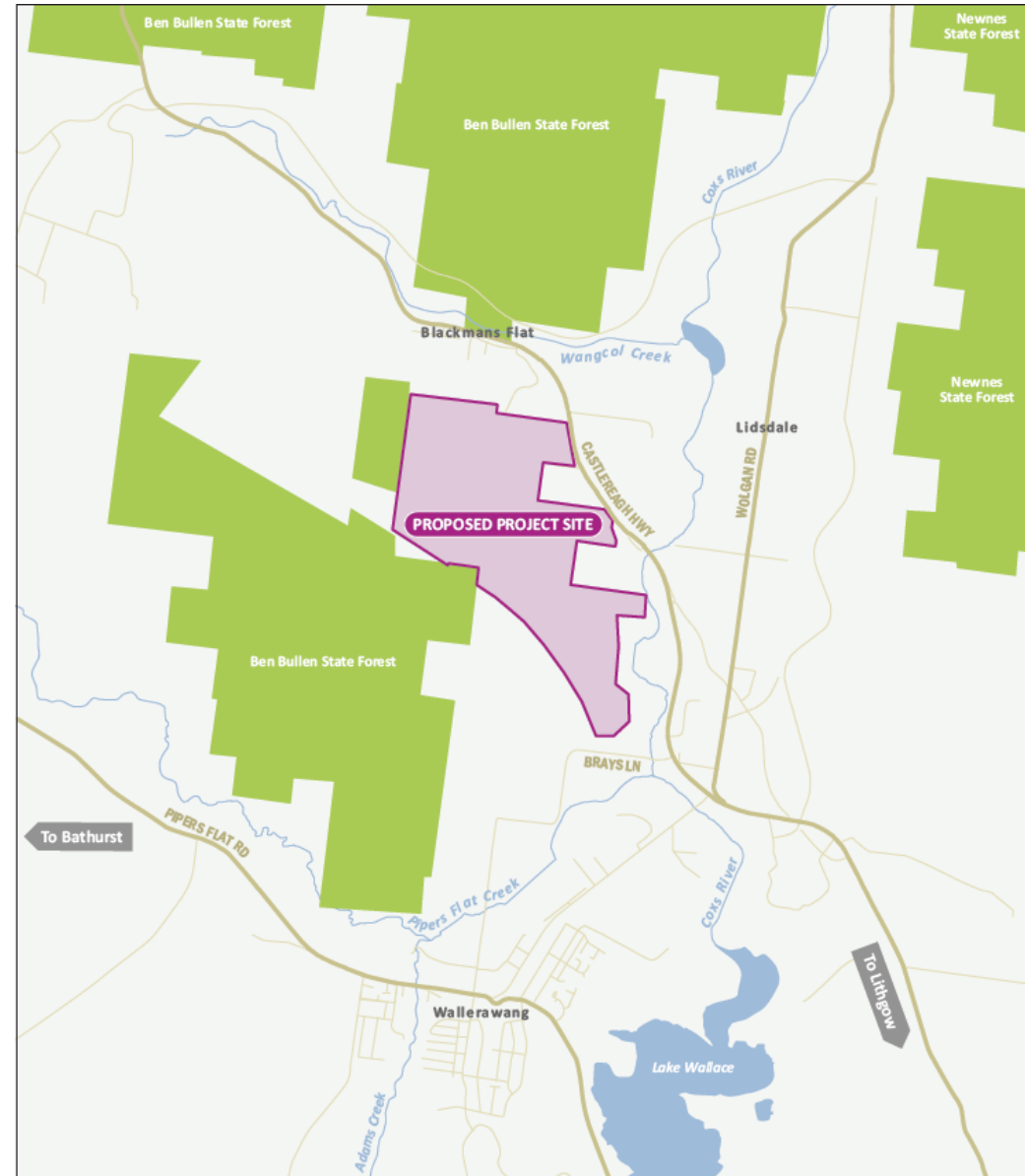
Project Overview

PV Solar Farm:

- 130 Megawatt peak (MWp) solar farm
- ~240,000 solar panels across 300 hectare site
- Onsite substation
- New transmission line connecting into existing substation at Wallerawang
- Access via Castlereagh Highway/Karawatha Drive (alternative access via Brays Lane)

Providing the energy needs of 20,175 households, every year

Reduced greenhouse gas emissions, equivalent to taking 34,510 cars off the road



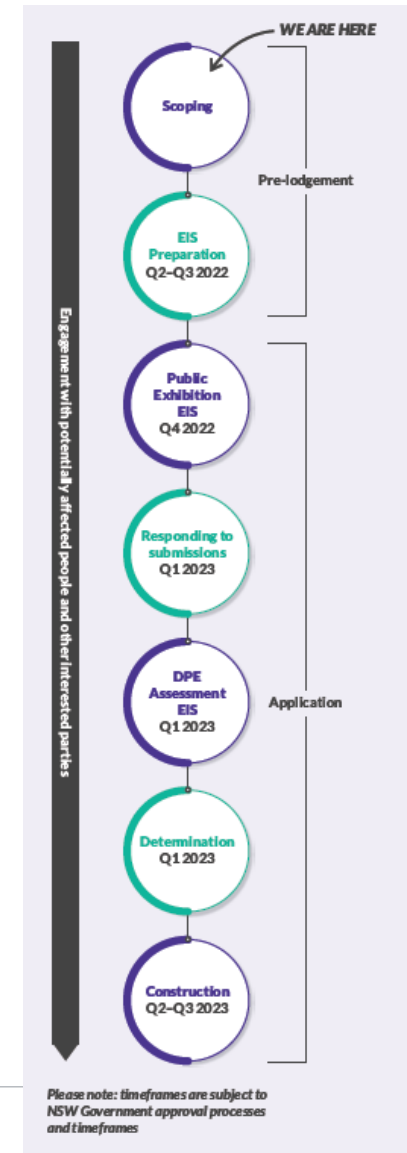
AUSTRALIA

Project Status

- A Scoping Report is currently being prepared, which will describe the Project and identify key matters requiring further assessment, as part of preparing the Environmental Impact Statement (EIS) and, proposed approach to assess each of these matters.
- The Scoping Report will be submitted to DPE to obtain the Secretary's Environmental Assessment Requirements, which set out the technical requirements for the EIS.
- The Scoping Report will be publicly available on DPE's Major Projects website, once it is submitted.

The assessments to be undertaken as part of preparing the EIS will cover a range of matters, including - but not limited to:

- Aboriginal heritage
- Air Quality
- Biodiversity
- Cumulative Impacts
- Economic
- Hazard and Risk
- Land Use
- Noise
- Non-Aboriginal Heritage
- Social and community
- Traffic
- Visual
- Water Quality



Rehabilitation Reform Update

OUR WAY IN ENERGY

Mine Rehabilitation Reforms – proposed modifications to consents.

- Progressive rehabilitation conditions already exist under our mining leases (MLs) and development consents.
- The NSW Resources Regulator (Regulator) has established new rehabilitation conditions that will apply to all new and existing MLs. The conditions are set out in the Mining Amendment (Standard Conditions of Mining Leases - Rehabilitation) Regulation 2020 (Regulation).
- The new conditions require all leaseholders to carry out progressive rehabilitation, rehabilitation risk assessment, annual reporting and rehabilitation management planning, as well as introduce new conditions around compliance with rehabilitation obligations.
- The annual rehabilitation reporting and forward programs required by the new conditions, together with the data collected on the rehabilitation portal, will mean increased monitoring and compliance oversight by the Resource Regulator.
- While the Regulation stipulates that transitional arrangements will apply to existing ML's, it is Centennial's position to bring all consents into line with the Regulation. With that in mind, Centennial will modify existing consents rather than wait for the transitional period to apply. This will achieve consistent management and planning for rehabilitation across the company.
- Modifications for the above purpose will be sought for:
 - Springvale (SSD 5594); and
 - Angus Place (MP 06_0021).

Angus Place West – Social Impact Assessment

Angus Place West: Social Impact Assessment

The project that will be assessed will generally involve:

- underground mining using first workings bord and pillar mining methods;
- extraction up to 2 Mtpa of ROM coal;
- crushing and sizing of this coal at Angus Place's existing pit top;
- continued operation of existing ancillary mining infrastructure;
- employment of up to 300 full-time equivalent (FTE) personnel;
- construction of a transfer pipeline between the Angus Place pit top and the McPhillamys Gold Project water pipeline Pumping Station Facility No.1;
- transfer of water to the SWTP, the SCSS (subject to approvals under the Western Coal Services Project (SSD 5597)) and the McPhillamys Gold Project subject to approval and construction (SSD-9505);
- receipt and temporary storage of surplus stormwater from the SCSS via infrastructure subject to approval and construction as part of the McPhillamys Gold Project (SSD-9505); and
- rehabilitation of Angus Place's pit top and associated disturbed areas at the completion of mining.

Along with a range of technical assessments a SIA is being prepared and will be included in the EIS when submitted.

Consultation and engagement will continue throughout the EIS exhibition period and beyond.

Social Area of Influence

Primary

- The project's primary social area of influence is the area within and immediately within and adjoining the PAA, including the area affected by the operation of the Mt Piper Haul Road. These areas will all be affected by day-to-day operations of Angus Place West
- Landholders within the PAA or directly adjacent to the PAA as they will be undermined or adjacent to the mining area due to
 - Amenity changes associated with the recommencement of operations (noise, traffic, air quality)
 - Impacts to ground water resources;
 - Concern regarding the effects of subsidence.
- Residences along Wolgan Road (in particular the village of Lidsdale) to experience amenity changes due to increased vehicle traffic on Wolgan Road;
- Residents located away from the PAA but affected by transport of coal on the Mt Piper Haul Road. This will include the area west of the Lidsdale village and Blackman's Flat.

Social Area of Influence

Secondary

- A secondary social area of influence extends south-west of the PAA to include the community of Lithgow, Wallerawang, Portland and north into the rural area of the Wolgan Valley along Wolgan Road.
 - Strong social and economic linkages that exist between Lithgow, Wallerawang and Portland attributable to the long-term presence of mining and power generation industries in the local area;
 - The communities are the residential locations for employees of the surrounding mining industry; and
 - Inter-relationship of business and industry to residents and other industries.

Social Area of Influence

Regional

- The regional area of social influence is defined as the Lithgow LGA with a focus on the regional centre of Lithgow. Initial scoping suggests a low risk of social impacts accruing to Lithgow and the broader Lithgow LGA due to the presence of:
 - A skilled labour pool in the Lithgow LGA and a resulting low likelihood that the project will draw new residents to the LGA; and
 - Existing supply arrangements with the Springvale Mine, the loss of which will be offset by new supply arrangements associated with the project.
- However, should the project not proceed, the cessation of mining at Springvale Mine is likely to have significant and long-term social and economic impacts on Lithgow and the broader LGA.

The logo consists of a stylized white flame or leaf symbol to the left of the word "CENTENNIAL".

CENTENNIAL

Minutes

Meeting:	Centennial Western Region Community Consultative Committee
Date:	Wednesday, 23 November 2022
Location:	Angus Place Colliery
Time:	3.30 PM
Independent Chair:	Darryl Watkins: (DW)
Attendees:	Paul Curran (PC): Community Representative
Committee Members	<p>Aunty Helen Riley (HR): Community Representative</p> <p>Lauren Stevens (LS): Development Planner Lithgow City Council</p> <p>Linda Cluff (LC): Community Representative</p> <p>James Marshall (JM): Group Manager Stakeholder Engagement: Centennial</p> <p>William Olsen (WO): Environment and Community Coordinator, Springvale Coal Services and Lidsdale Siding)</p> <p>David Craft (DC): Mine Manager: Angus Place Colliery</p> <p>Makenzie Denley (MD): Environment and Community Vacation Student Angus Place Colliery</p> <p>Stephanie Thompson (ST): Environment and Community Coordinator Trainee Springvale Mine</p> <p>Tam Dunley (TD): Contract Environment and Community Coordinator</p>
Apologies:	<p>Cr. Maree Statham, Lithgow City Council</p> <p>Jeff Smith, Community Representative</p> <p>Jenny Lamborn, Community Representative</p> <p>Lauren Stevens, Development Planner Lithgow City Council</p> <p>Dennis Wallace, Mine Manager Springvale Colliery</p> <p>Joe Smith, Community Representative</p> <p>Craig Fleming, Environmental Consultant: Angus Place Colliery</p> <p>Geoff Rapson, Manager Springvale Coal Services and REA Controller</p>

Action Item	Responsibility
-------------	----------------

1. JM to advise the CCC about details and timing for the additional community consultation that will be undertaken for Angus Place West. This action is ongoing and further information will be provided to the CCC shortly. It is expected that this will commence the week beginning 12 December 2022. James Marshall (Centennial)
2. JM to provide the CCC as soon as possible with an update on the financial contributions Centennial has provided to the community for 2022. This update is to include the \$ amount and the broad areas where the financial contribution has been distributed. James Marshall (Centennial)

Minutes

Action

<p>Welcome to Country</p> <p>Aunty Helen Riley welcomed CCC members and guests to the meeting.</p>	
<p>Welcome, CCC membership update and meeting rules</p> <ul style="list-style-type: none"> • The Chair welcomed all CCC Members • The Chair thanked everyone for attending and appreciated their attendance as everyone is busy, especially at this time of year. • The Chair outlined the rules for the CCC meeting, asked all members to respect each other, and asked participants to wait until the end of the presentations to ask questions. • Apologies were received, and there were no changes to the CCC membership 	
<p>Code of Conduct & Pecuniary / non-pecuniary interests</p> <p>The Chair reinforced the code of conduct and emphasised that we want an atmosphere of open, constructive, and respectful discussion.</p> <p>The Chair requested any updates on pecuniary or non-pecuniary interests. No updates were provided.</p>	
<p>Previous meeting Action Items</p> <ol style="list-style-type: none"> 1. JM to advise the CCC about details and timing for the additional community consultation that will be undertaken for Angus Place West. This action item is ongoing and further details will be provided to the CCC shortly. 	<p>Action Item 1</p>

CCC Member Communication with the Broader Community

With agreement from the meeting, the Chair decided to bring forward this agenda item to allow time for discussion on three questions relevant to this CCC.

The following were the questions:

1. What is the future of Lithgow as a Western Region CCC member?
2. What are your thoughts or feedback from the community regarding the proposed Angus Place West mine?
3. What are the priorities and key issues for this Western Region CCC for 2023?

The Chair asked each CCC member individually, and the following is a summary of the responses to the above questions.

CCC Members' response to Question 1.

1. What is the future of Lithgow as a Western Region CCC member?

There was consensus and agreement that new industries are required to pick up the shortfall from the closing of some mines. The community is fearful of job losses, and we need new growth/ideas to bring employment to the area. Solar farms are not a solution, and tourism will not be enough to sustain the employment growth required. There was discussion regarding the healthy balance of the environment and allowing the recreational use of these areas. However, we don't need to have all these environmental locations locked up. There was discussion that since the recent fires and floods, the LGA requires substantial State and Federal funding to restore stability on some of the access roads to these locations.

CCC Members' response to Question 2.

2. What are your thoughts or feedback from the community regarding the proposed Angus Place West mine?

Again, there was consensus that there has not been a lot of discussion in the community regarding Angus Place West. There is general excitement that Angus Place West is going ahead, as there is a concern in the community for the ongoing viability of the Springvale mine. The workers and the community can see a future in Angus Place West.

CCC Members' response to Question 3.

3. What are the priorities and key issues for this Western Region CCC for 2023?

There was a good discussion in that the priority for this CCC is the future of the mines, especially the approval of Angus Place West and the employment the mine

can deliver for over 300 potential workers. Centennial is excellent at reporting in these CCCs and being transparent regarding incidents or community complaints. The CCC needs to ensure that this information and reports are filtered into the community.

Angus Place report and Q&A/Discussion

Angus Place company representatives (MD & DC) provided a report on the current matters relating to Angus Place and Angus Place West. The detail was provided as follows, and the presentation is attached.

Angus Place and Satellite sites update:

1. Angus Place and Ivanhoe sites
2. Operations Summary
3. Angus Place West – Key Project Elements
4. Matters of National Environmental Significance (MNES) species-sensitive impact
5. Environmental Performance – Angus Place and Satellite sites
6. Noise Monitoring
7. Depositional Dust
8. Water Data
9. Upcoming Activities

Following the detailed report, the Chair sought questions and comments from the CCC members regarding the presentation and the following were the key points discussed.

- The ‘rockfall’ event occurred at Longwall 1, an area mined in 1979, which was raised at the August CCC meeting.
- The company is receiving geotechnical advice, and a review of the rockfall is underway.
- Rehabilitation is also underway near the Kerosene Vale area
- A recent meeting and site inspection of the Angus Place West proposed mining area by representatives from the Department of Climate Change Energy Environment and Water (DCCEEW) was positive and informative for departmental attendees.
- The CCC discussed the EIS assessment process.
- The agile mining method of Board and Pillar was discussed.
- Angus Place is still on care and maintenance.

Springvale Coal Services (SCS) and Lidsdale Siding (LS) report and Q&A/Discussion

Springvale Coal Services and Lidsdale Siding company representative (WO) provided a report on the current matters relating to SCS and Lidsdale Siding. The following information was provided, and the presentation is attached.

1. Springvale Coal Services (SCS) - Environmental Performance Overview
2. SCS Air quality (Depositional dust)
3. Air quality (PM)
4. SCS Noise
5. SCS Water – significant rainfall
6. Operational Update – WCS Mod 4 Approved.
7. WCS Mod 4: Water Management Overview and Risk.
8. Project Modification Elements
9. Lidsdale Siding (LS) – Environmental Performance Review
10. LS - Air Quality (Depositional dust)
11. LS - Air Quality (PM)
12. LS - Noise
13. LS - Water
14. LS Mod 4 Approved: Operational Update
15. Lidsdale Siding and Springvale Coal Services Incidents and Complaints

Following the comprehensive report, the Chair invited questions from CCC members. The main points raised are outlined below.

- The CCC discussed the recent incident and complaint due to the noise/squealing from noising rollers on the conveyor that transports the coal from the Springvale mine. WO reported that he regularly walks the conveyor to identify faulty rollers to ensure they are rectified quickly.
- LS asked JM for an update on the status of the financial contributions Centennial has provided to the community for 2022. There was also discussion on the in-kind donations Centennial operations provide to the community.

Action Item 2 – JM to provide the CCC as soon as possible with an update on the financial contributions Centennial has provided to the community for 2022. This update is to include the \$ amount and broad areas of the community where the financial contribution has been distributed.

Action Item 2

Springvale Colliery report and Q&A/Discussion

Springvale Colliery company representative (ST) provided a report on the current matters relating to Springvale Colliery. The following matters were raised in the presentation and the presentation is attached.

1. Springvale Pit Top
2. Map – Newnes Plateau

<ol style="list-style-type: none"> 3. Introduction 4. Operations Summary 5. Water Quality 6. Water Volume 7. Air quality 8. Noise 9. Community Complaints (two noise complaints in September) 10. 3-year Independent Environmental Audit 11. IEA Compliance Summary 12. Triggers 13. Regional Environmental Rainfall Data 14. Monthly Total rainfall data for each site <p>Following the comprehensive report, the Chair sought questions from the CCC members, and the following were questions raised and key points discussed.</p> <ol style="list-style-type: none"> 1. Discussion regarding noise complaints. The first complaint was faulty hydraulic cylinders on one of the dozers. The second complaint was due to excessive general noise from the mine area. A noise report from GHD is due in December. 2. All monitoring results (water quality, volume, air quality etc are reported and results published on the Centennial website. 	
<p>General business</p> <p>The Chair requested any general business items. Nil was raised.</p> <p>The Chair took the opportunity in this agenda item to inform the CCC that this will be his last Western Region CCC as he will shortly resign as the Chair due to personal reasons. The Chair acknowledged the contribution of all CCC members and thanked them for their support and guidance. The Chair said they are all excellent community representatives and thanked them for volunteering their time. The Chair wished them well and thanked the company for their support and the detailed quarterly reports Centennial provides to these CCC meetings.</p> <p>JM responded on behalf of Centennial and thanked the Chair for his facilitation of the meetings, for reinvigorating the membership and discussion at the CCC meetings</p>	
<p>2023 meetings – Times and Dates to be discussed.</p> <p>In light of the above announcement, it was agreed that instead of setting the dates for the 2023 meetings now that the first meeting date would be set, the new Chair would facilitate further discussion with the CCC on the future 2023 meeting dates.</p> <p>It was agreed the first Western Region CCC meeting for 2023 would be on 15 March at 3.30pm. Venue to be confirmed. Meeting closed at 5.20pm.</p>	

Western Region CCC Meeting

Angus Place and Satellite Sites Update
November 2022

Angus Place and Ivanhoe sites

Reporting Period

- August 2022 – October 2022

Sites

- Angus Place
- Ivanhoe Sites

Consents

- Angus Place Project Approval 06_0021 Mod 6 - No change
- Ivanhoe North Project Approval 05_0103 - No change

Licenses

- EPL No. 467- Angus Place - No change
- EPL No. 13063- Ivanhoe North - No change
- EPL No. 631- Ivanhoe 2 - No change

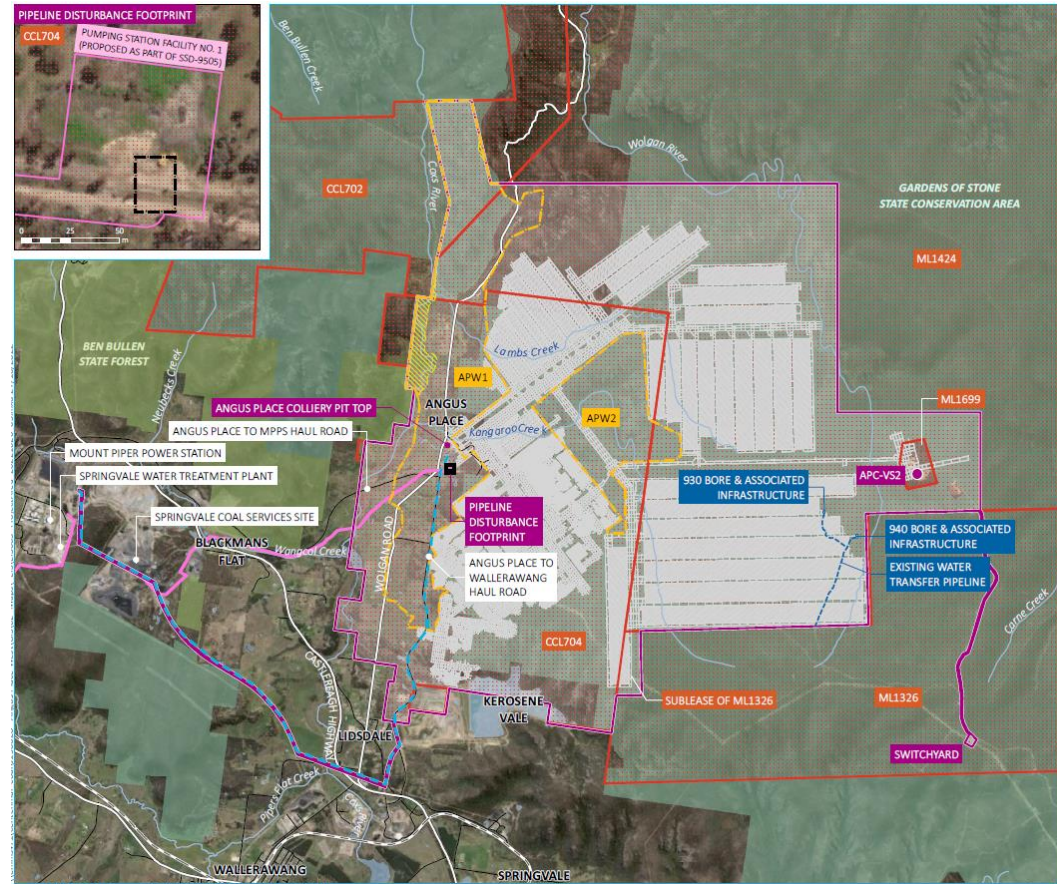


Operations Summary

- Angus Place is currently on care and maintenance since 2015
- No tonnes mined and no coal transported
- Underground roof fall recovery 910N
- Ivanhoe sites continued rehabilitation maintenance
- Increased crossover with GPM in the Kerosene Vale area
- Angus Place West EIS meeting with DPE and DCCEEW
- Review of water management plans and structures, including Angus Place East Ventilation Facility
- Reviewed Water Quality Assessment following the removal of the Temporary Water Treatment Plant at Angus Place
 - Report recommended to remove monitoring points 16 – 19 from the Environment Protection Licence

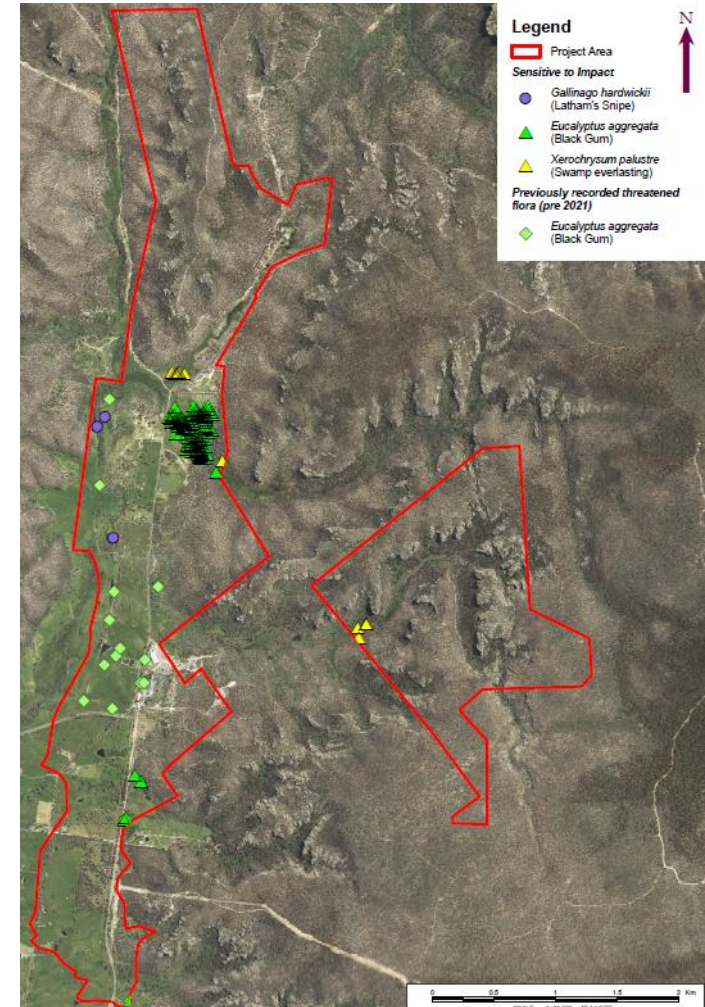
Angus Place West - Key Project Elements

- Continuation of Angus Place Colliery using a low impact mining method (ie first workings only).
- Negligible vertical subsidence (ie ≤ 20 mm).
- Coal to be handled at existing pit top and transported to nearby Mount Piper Power Station (MPPS) via existing private haul road.
- Project life aligned with forecast closure of MPPS (ie 2040)
- Continued use of existing infrastructure
- No surface disturbance outside of existing pit top area and immediate surrounds
- APW will be supported by a workforce of up to 300 employees
- APW represents a flexible and immediate coal supply option for MPPS



MNES species sensitive to impact

- *Xerochrysum palustre* (Swamp everlasting; Vulnerable): approx. 762 individuals recorded. Important population likely.
- *Eucalyptus aggregata* (Black Gum; Vulnerable): approx. 452 individuals recorded across Cox's River, Lambs Creek and Kangaroo Creek valley flats. Important population likely.
- *Gallinago hardwickii* (Latham's Snipe; Migratory): Max. sighting 24 individuals recorded in Cox's River Swamp. Important habitat > 18 individuals as per Commonwealth Guidelines



Environmental Performance - AP and Satellite Sites

Water Monitoring results

- Discharges AP
 - LDP 2 – August, September and October
 - LDP 3 – August, September and October
 - One Water quality exceedance - 30/09/2022 at LDP003 TSS 107mg/L (limit 30mg/L) and Turbidity 90NTU (limit 40NTU)

Noise Monitoring results

- No exceedances

Air Monitoring results

- No exceedances

Community Complaints

- None



Attended Noise Monitoring

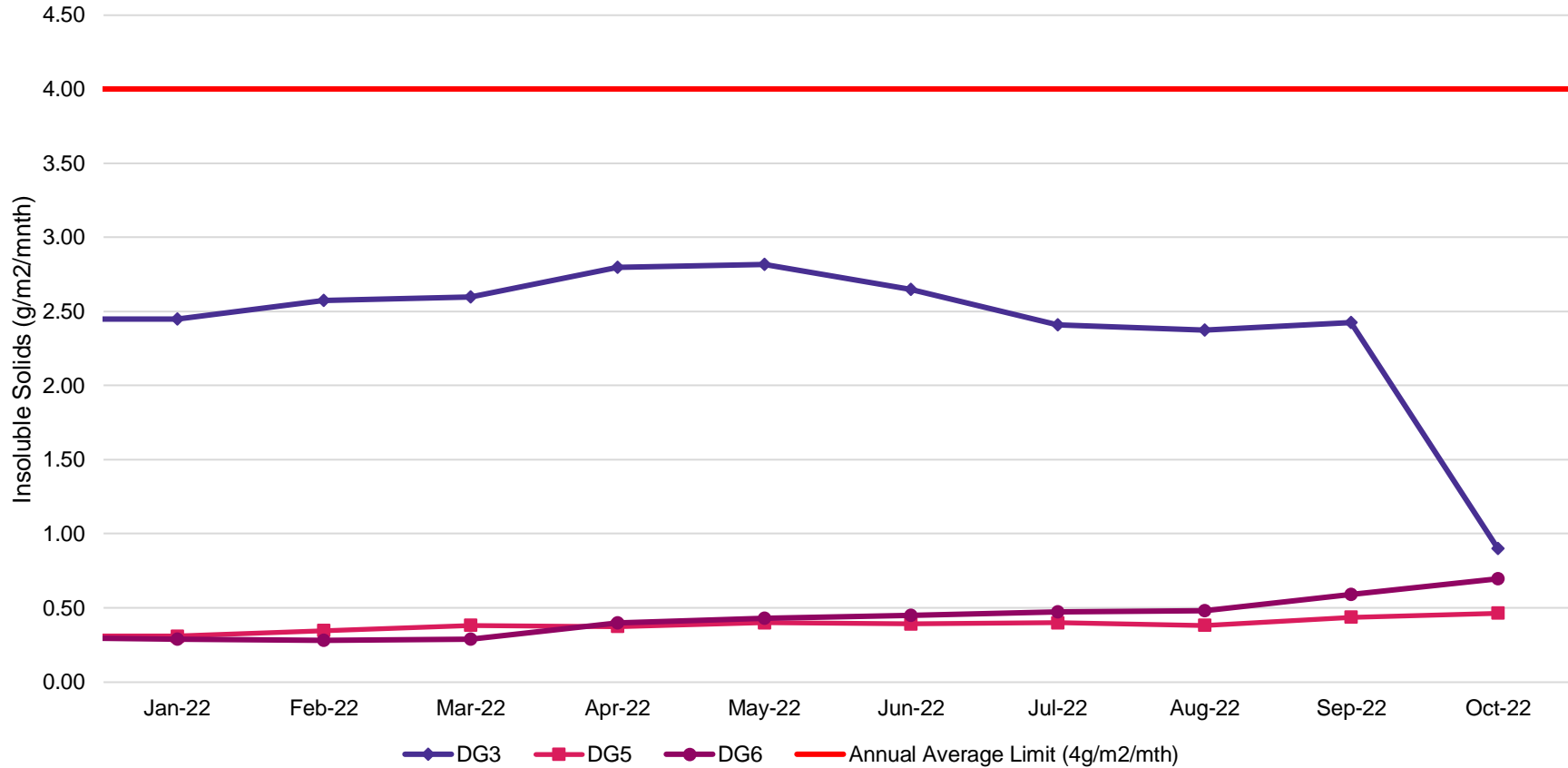
Completed on the 26th and 27th September 2022 as part of Quarter 3 noise monitoring

Location	LAeq (15min)					
	Day		Evening		Night	
	Limit	Result	Limit	Result	Limit	Result
Sharpe residence, APNM1 (R1)	42dBA	IA	38dBA	IA	36dBA	IA
Mason residence, APNM2 (R2)	41dBA	IA	37dBA	<30dBA	35dBA	<30dBA
Lot 100 residence, APNM3 (WR3)	41dBA	IA	37dBA	<30dBA	35dBA	<30dBA

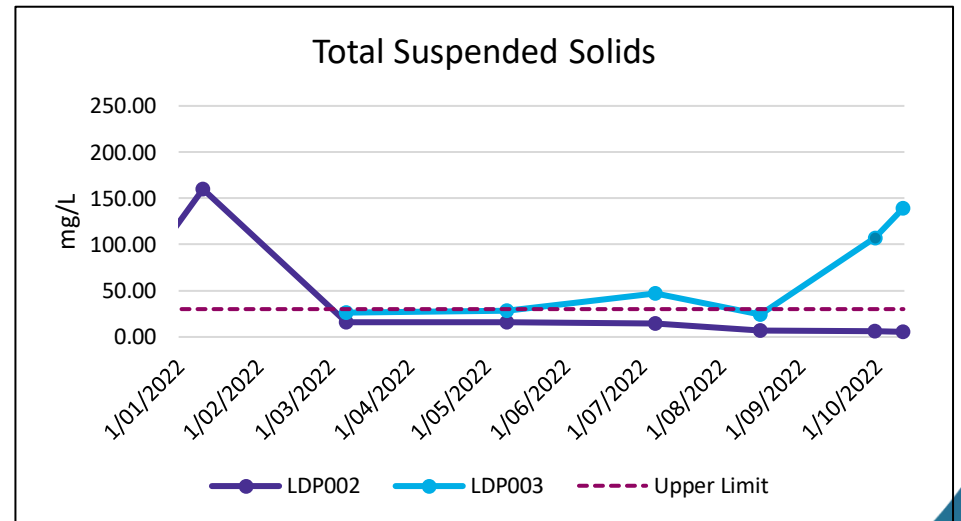
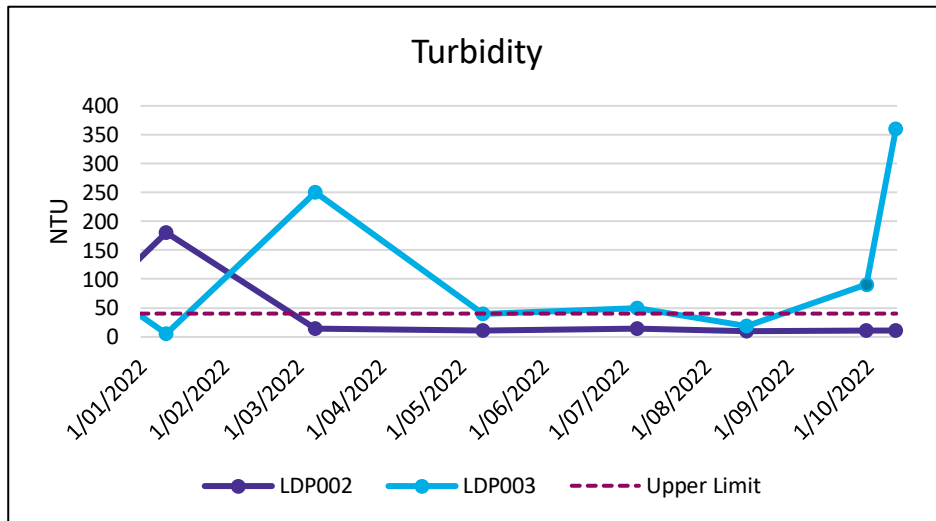
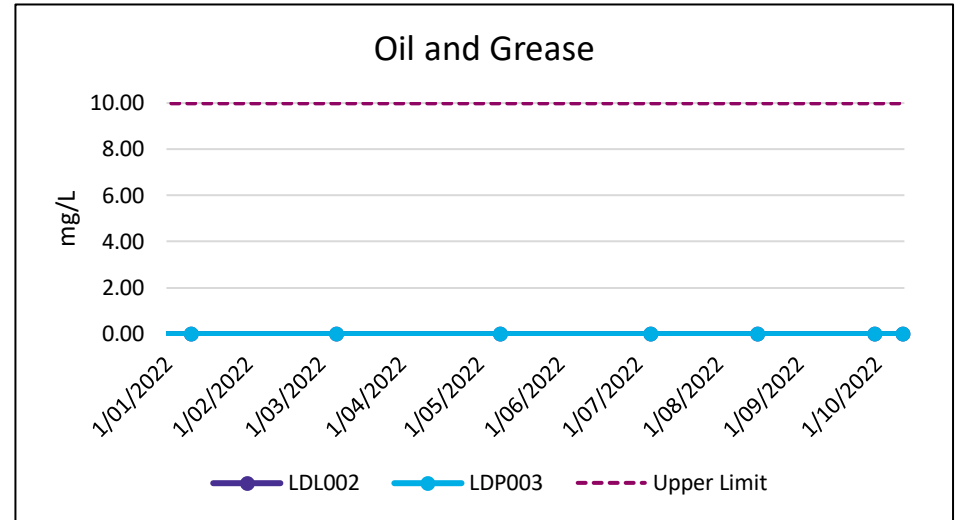
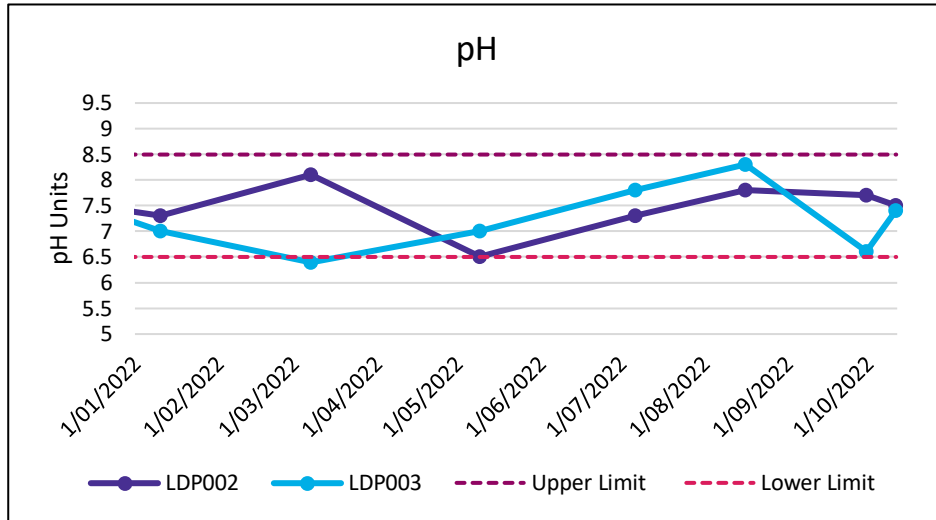
IA – Inaudible

Depositional Dust

Rolling Annual Average Depositional Dust Results



Water Data



Upcoming Activities

- EIS finalisation for Angus Place West Q4 2022
- Underground secondary support campaign in 910N
- Planning to submit a license variation to remove monitoring points 16 – 19 in EPL 467, as recommended by ‘Angus Place Temporary Water Treatment Plant Water Quality Assessment’ report.
- Studies regarding Ivanhoe closure planning
- Investigate progressive rehabilitation opportunities for APE Ventilation Facility
- Review of water management plans and structures
- Upcoming modification to development consent – modification 7
 - Introduce a new Rehabilitation Strategy condition
 - Ensure the new Rehabilitation Management Plan Reforms recently introduced by the Resource Regulators are:
 - appropriately considered within the consent conditions;
 - not in conflict with existing conditions

The logo consists of a stylized white flame or leaf symbol to the left of the word "CENTENNIAL".

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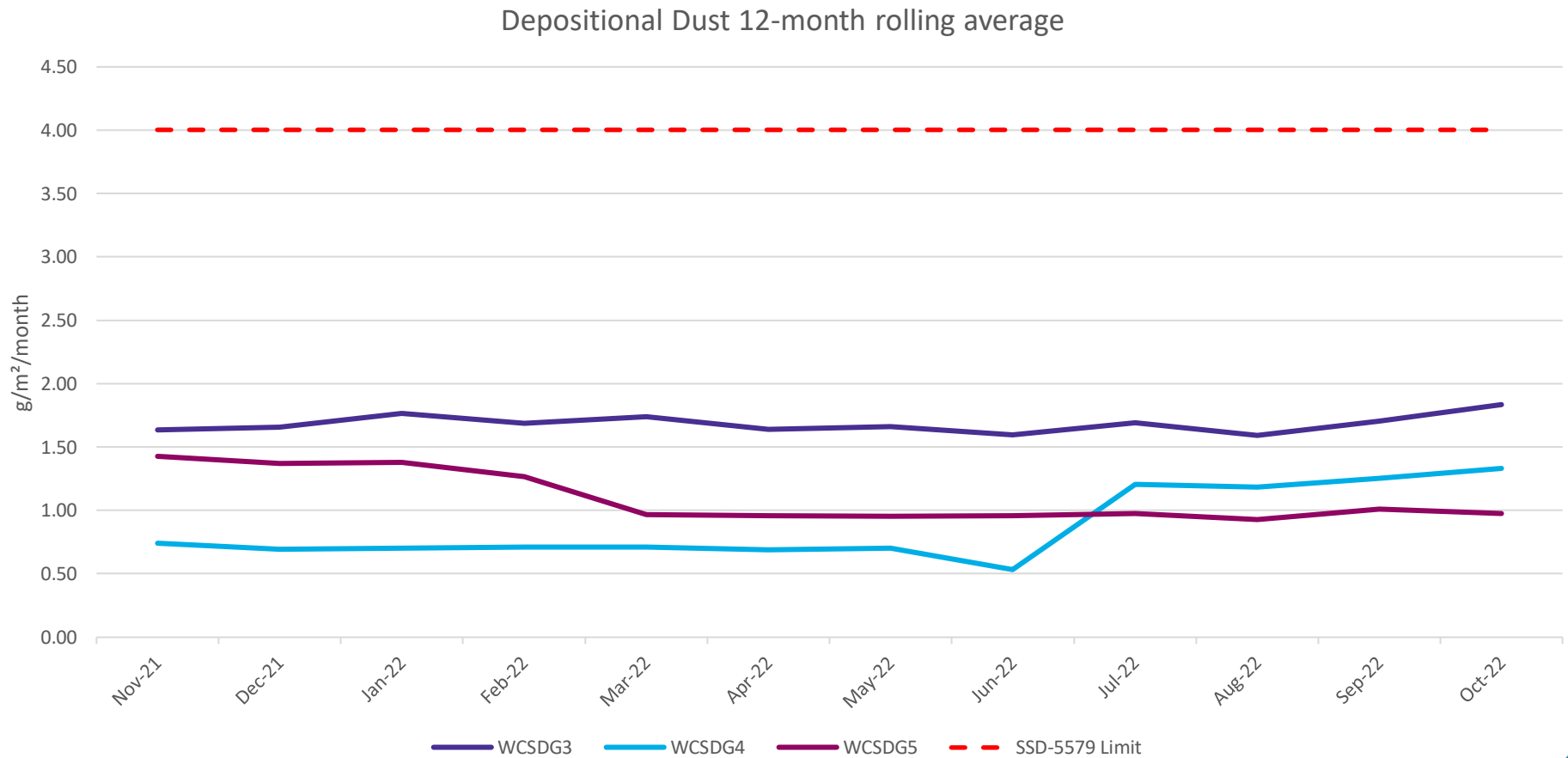
November 2022 CCC Meeting Presentation

Springvale Coal Services and Lidsdale Siding

Springvale Coal Services Environmental Performance Overview

SCS – Air Quality (Depositional Dust)

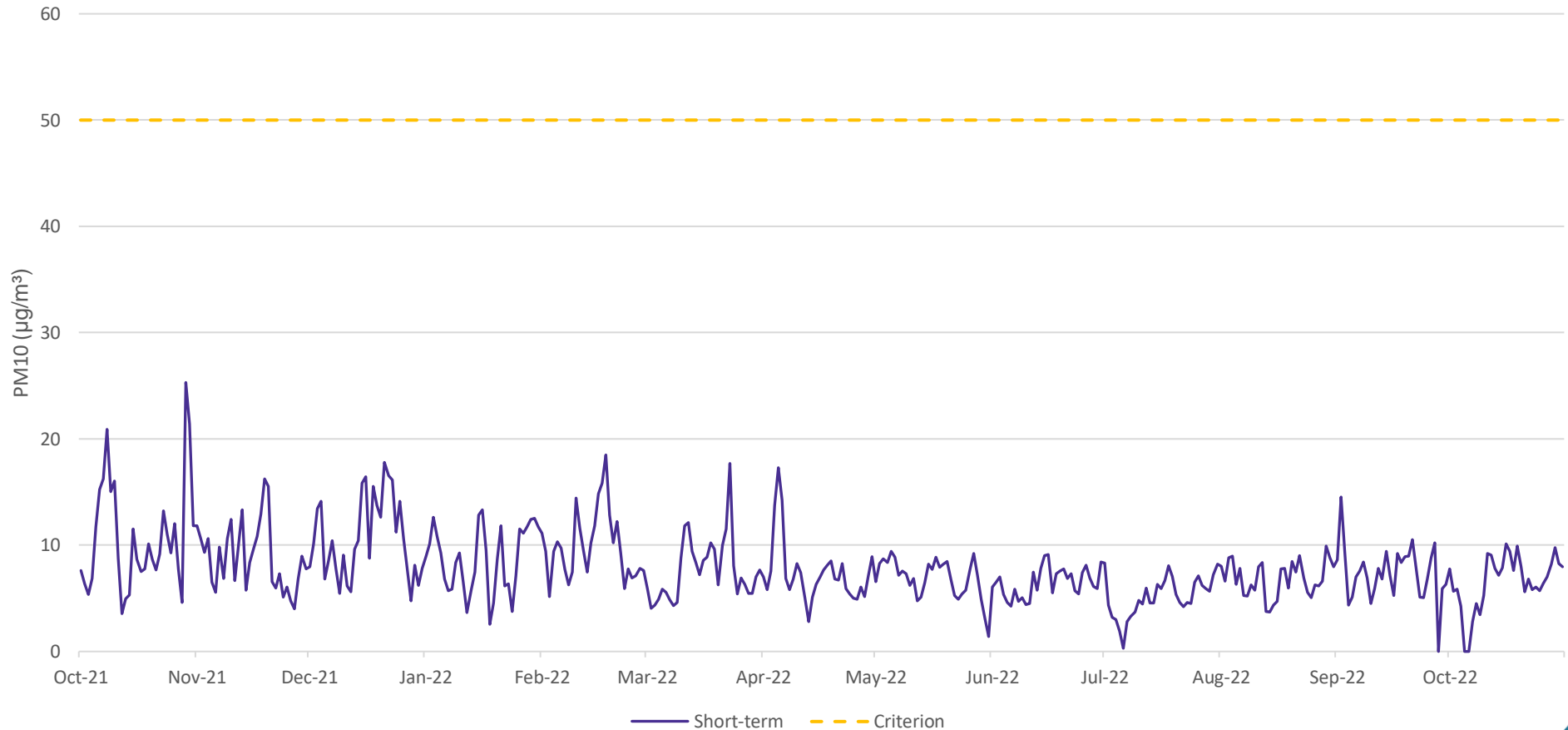
- Compliant with the depositional dust criteria of $4\text{g}/\text{m}^2$ at all three monitoring locations.



SCS – Air Quality (PM¹⁰)

- Compliant with the 24 hour PM¹⁰ criteria of 50 µg/m³.

24 hour PM10 Average



SCS – Noise

- No exceedances of noise criteria since 2017.

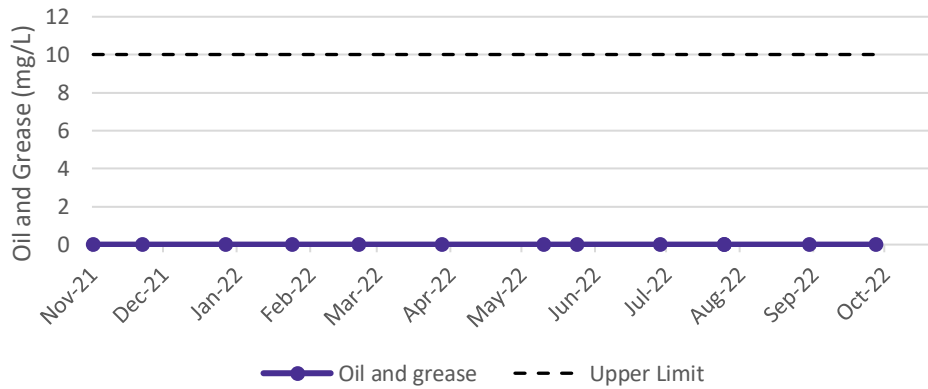
Location SSD/EPL Locations	Estimated $LA_{eq(15minute)}$ Contribution dBA October 2022			Noise Criteria $LA_{eq(15minute)}$ dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
WNM1	NA	NA	NA	40	35	35	Y	Y	Y
WNM2	NA	NA	NA	41	35	35	Y	Y	Y
WNM3	NA	NA	NA	36	35	35	Y	Y	Y
WNM4	NA	NA	NA	35	35	36	Y	Y	Y

Note- NA= Not Audible

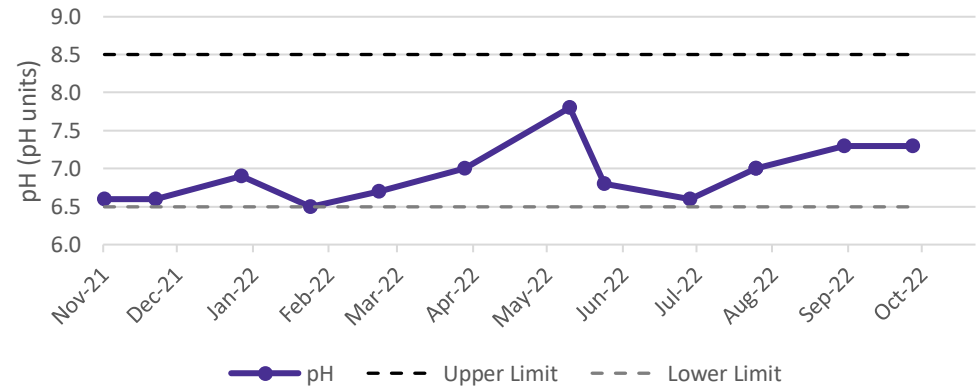
SCS – Water

- All discharges compliant with EPL requirements year to date
- Water management has been a key focus considering El Nino trends

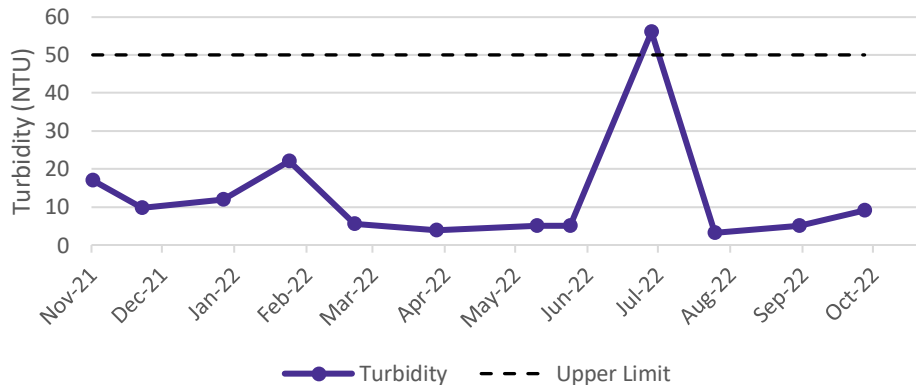
LDP001 Oil and Grease



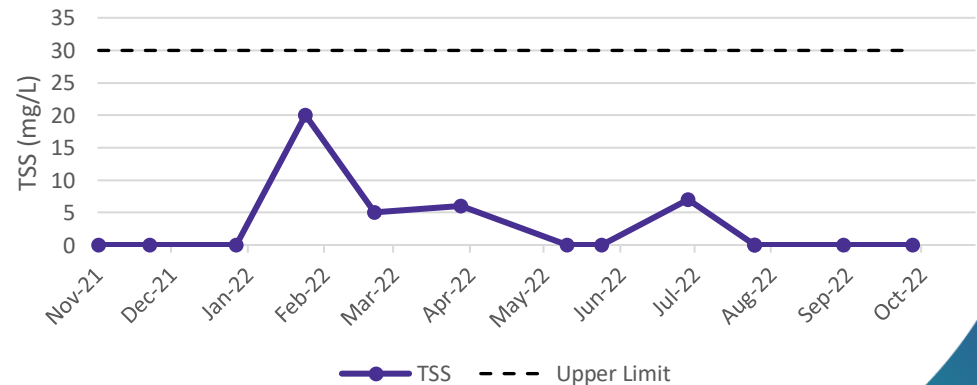
LDP001 pH



LDP001 Turbidity



LDP001 TSS



Operational Update: WCS MOD 4 Approved

SSD_5579 Schedule 2, Condition 8B

- **Water Transfers**
- 8B The Applicant must not:
 - (a) transfer more than 15.6 megalitres per day up to a maximum of 790 megalitres per year of water via the SCSS Water Transfer System to the SCSS/Regis Transfer System;
 - (b) transfer more than 2.6 megalitres per day via the SCSS Water Transfer System to Mount Piper Power Station; and
 - (c) receive more than 2.6 megalitres per day of raw water from the Angus Place Water Transfer System.

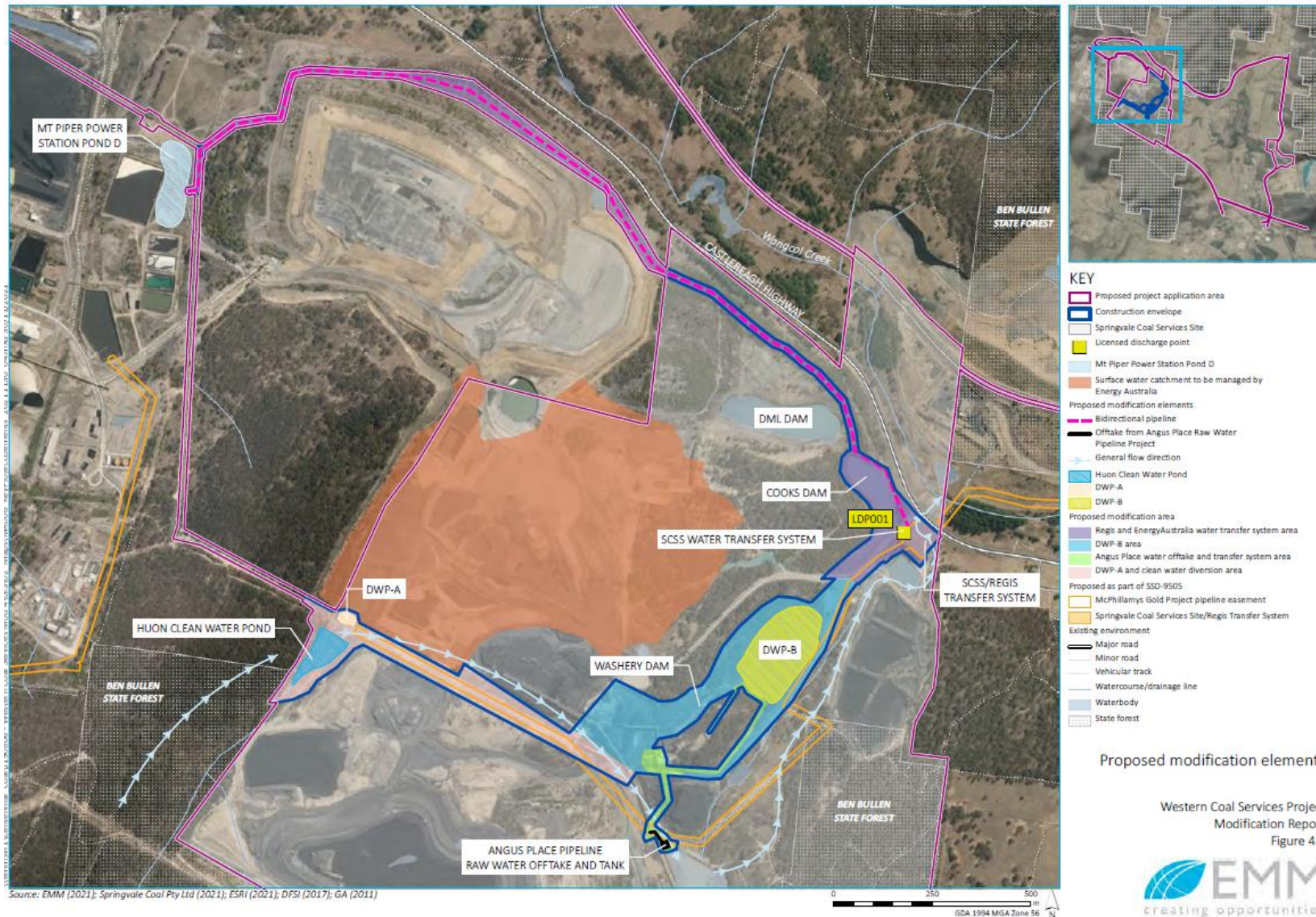
Next Step: Offsetting rehabilitation areas, water access licenses

WCS MOD 4 : Water Management Overview and Risk

- Clean and dirty water is managed on-site at SCSS as part of existing operations.
- The SCSS catchment drains towards LDP 001 on the northern-eastern side of the site.
- Due to the connectivity of the local groundwater system and the existing surface water management system at SCSS, discharges through LDP001 are predominantly untreated groundwater.
- This water is characterised by relatively high electrical conductivity (EC) and has elevated concentrations of metals, including cobalt, iron, manganese, nickel and zinc.
- Runoff is discharged through LDP001 into Wangcol Creek as licensed by EPL 21229.
- Clean water from Lamberts Gully also discharges to Wangcol Creek downstream of LDP001.
- Wangcol Creek flows south-east to the Coxs River.



Project Modification Elements



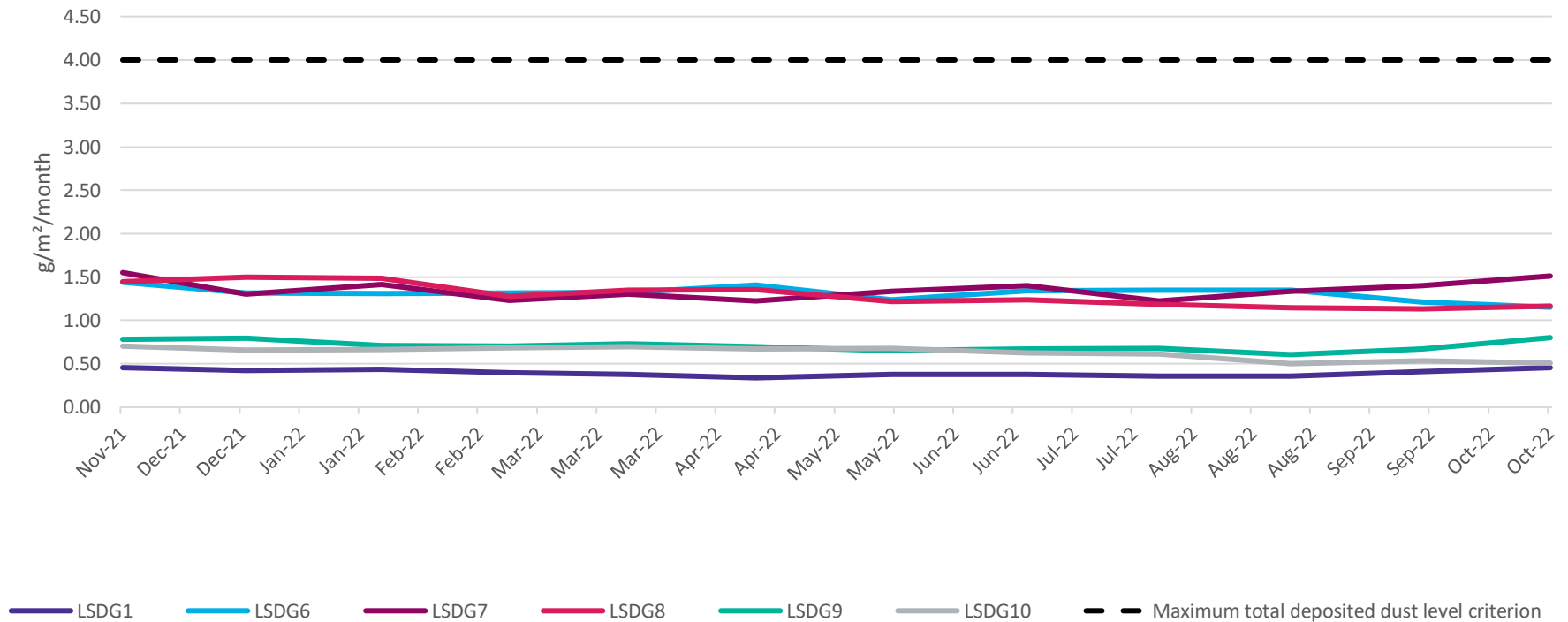
Lidsdale Siding

Environmental Performance Overview

Lidsdale Siding – Air Quality (Depositional Dust)

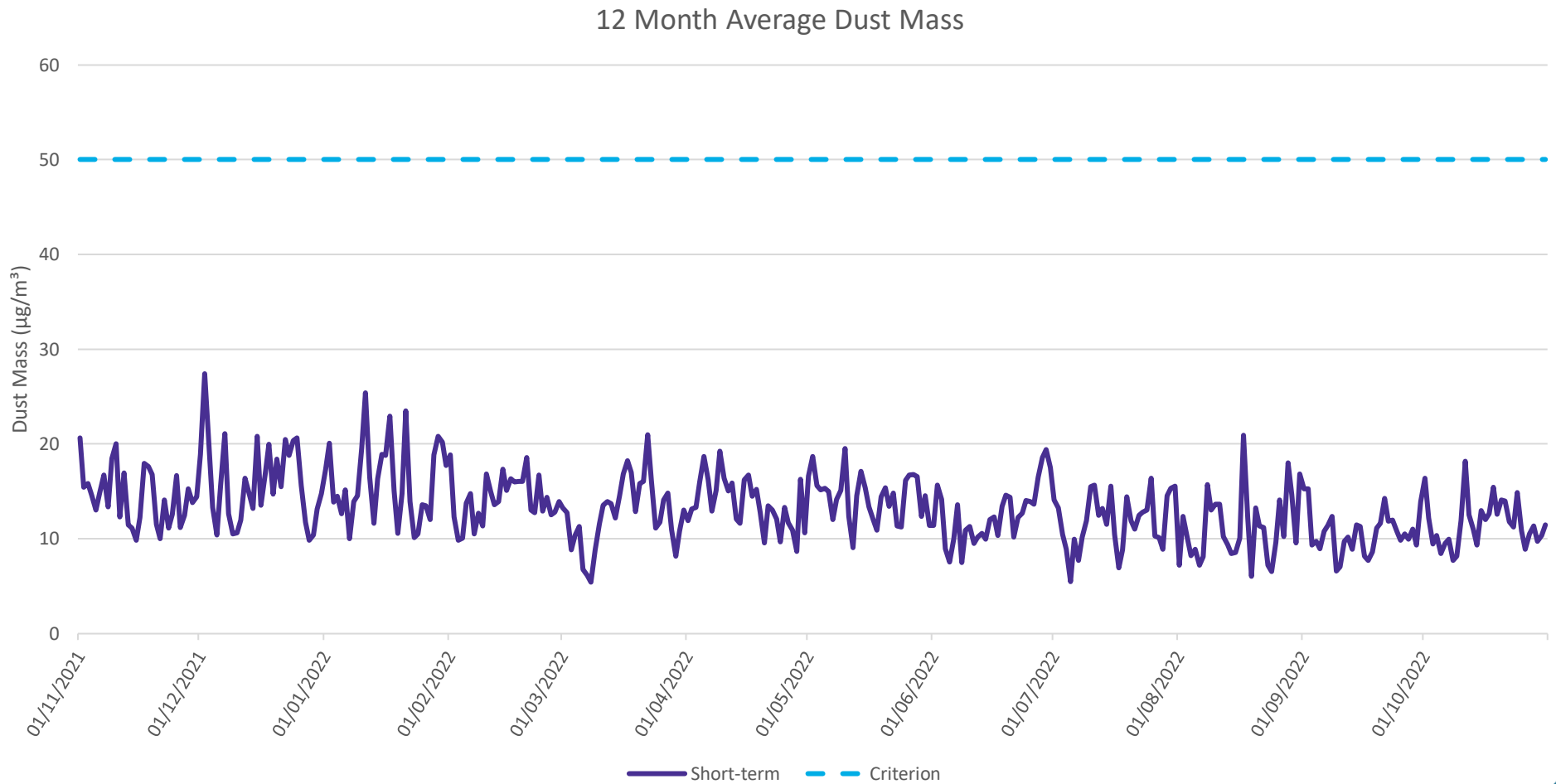
- Compliant with the depositional dust criteria of $4\text{g}/\text{m}^2$ at all six monitoring locations.

Depositional Dust 12-month rolling average



Lidsdale Siding – Air Quality (PM¹⁰)

- PM¹⁰ criteria limit of 50 µg/m³. Compliant over previous period.



Lidsdale Siding – Noise

- No exceedances of noise criteria since 2017.

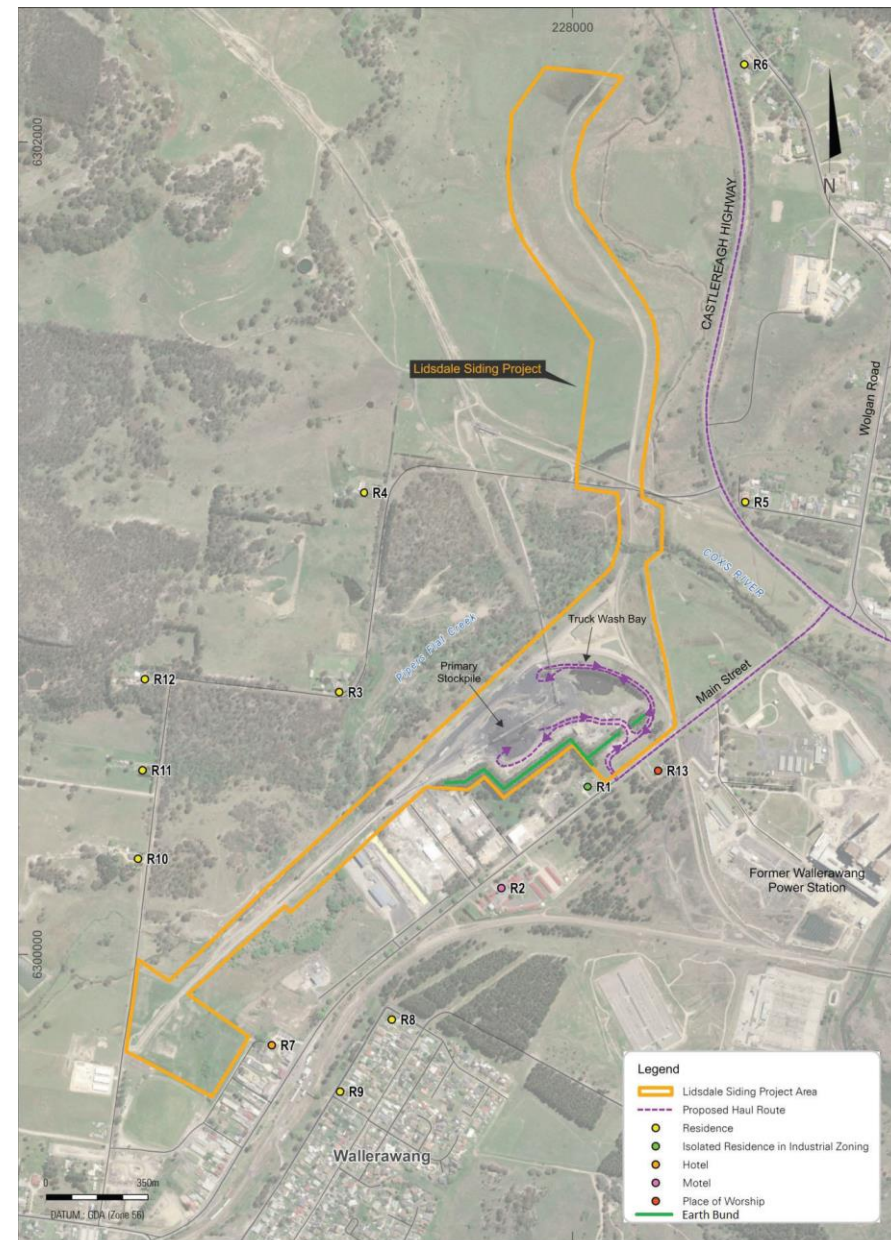
Location SSD/EPL Locations	Estimated Lidsdale Siding LA _{eq(15minute)} Contribution dBA October 2022			Noise Criteria LA _{eq(15minute)} dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
LNM1	NA	NA	NA	50	50	50	Yes	Yes	Yes
LNM2	NA	NA	NA	48	46	46	Yes	Yes	Yes
LNM3	NA	NA	NA	46	46	46	Yes	Yes	Yes
LNM4	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM5	NA	NA	NA	44	41	41	Yes	Yes	Yes
LNM6	NA	NA	NA	43	40	40	Yes	Yes	Yes
LNM7	NA	NA	NA	40	39	39	Yes	Yes	Yes
LNM8	NA	NA	NA	45	45	45	Yes	Yes	Yes
LNM9	NA	NA	NA	45	45	45	Yes	Yes	Yes
LNM10	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM11	NA	NA	NA	43	43	43	Yes	Yes	Yes
LNM12	NA	NA	NA	48	47	47	Yes	Yes	Yes

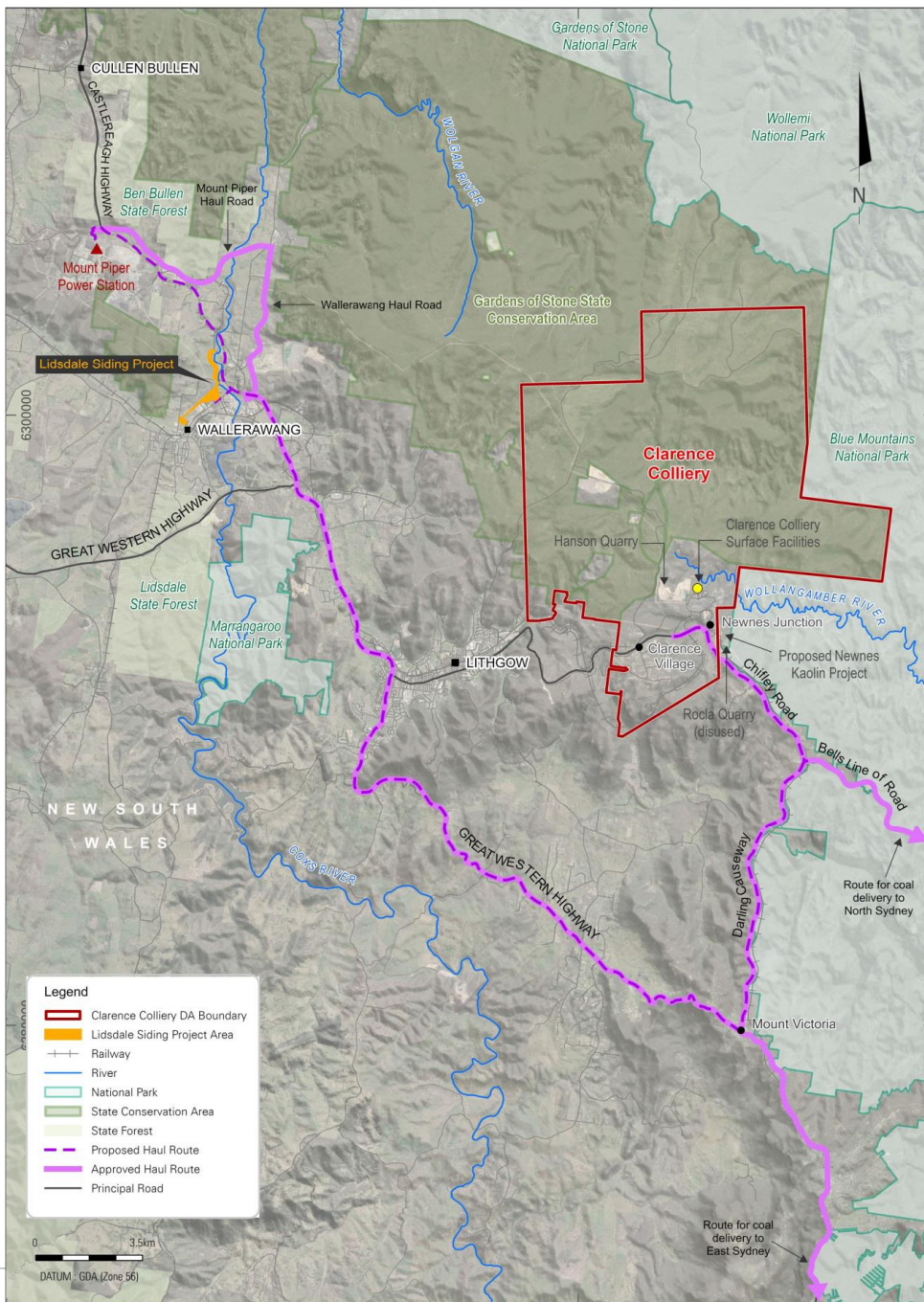
Note- NA= Not Audible

Operational Update: Lidsdale Siding Mod 4 Approved



Main change in Mod (NOTE: APPROVED)
Until 31st December 2023, the Proponent may receive up to 25 laden trucks per day to deliver coal to the site between 7 am to 10 pm Monday to Saturday and 8 am to 10 pm on Sundays and public holidays.





Lidsdale Siding & Springvale Coal Services

Incidents & Complaints

Incidents and Complaints

- **Lidsdale Siding**

- 2 Incidents occurred on the 11th of July 2022 at 8:20pm, and the 19th of November 2022. A loaded coal train from Airly Mine was received outside the day period for the purpose of unloading during the day period. These incidents have been reported to the DPE and corrective actions have been implemented.
- No Community complaints received year to date in 2022.
- Last complaint received for the site was on 18 February 2016.

- **Springvale Coal Services**

- 1 Non-Compliance on the 18th and 19th of October 2022. Greater than 0.43 Megalitres of residual waste received on site. These were minor exceedances and caused no harm to the environment.
- 5 Community complaints since February 2022. All noise related. Multiple investigations have been conducted.

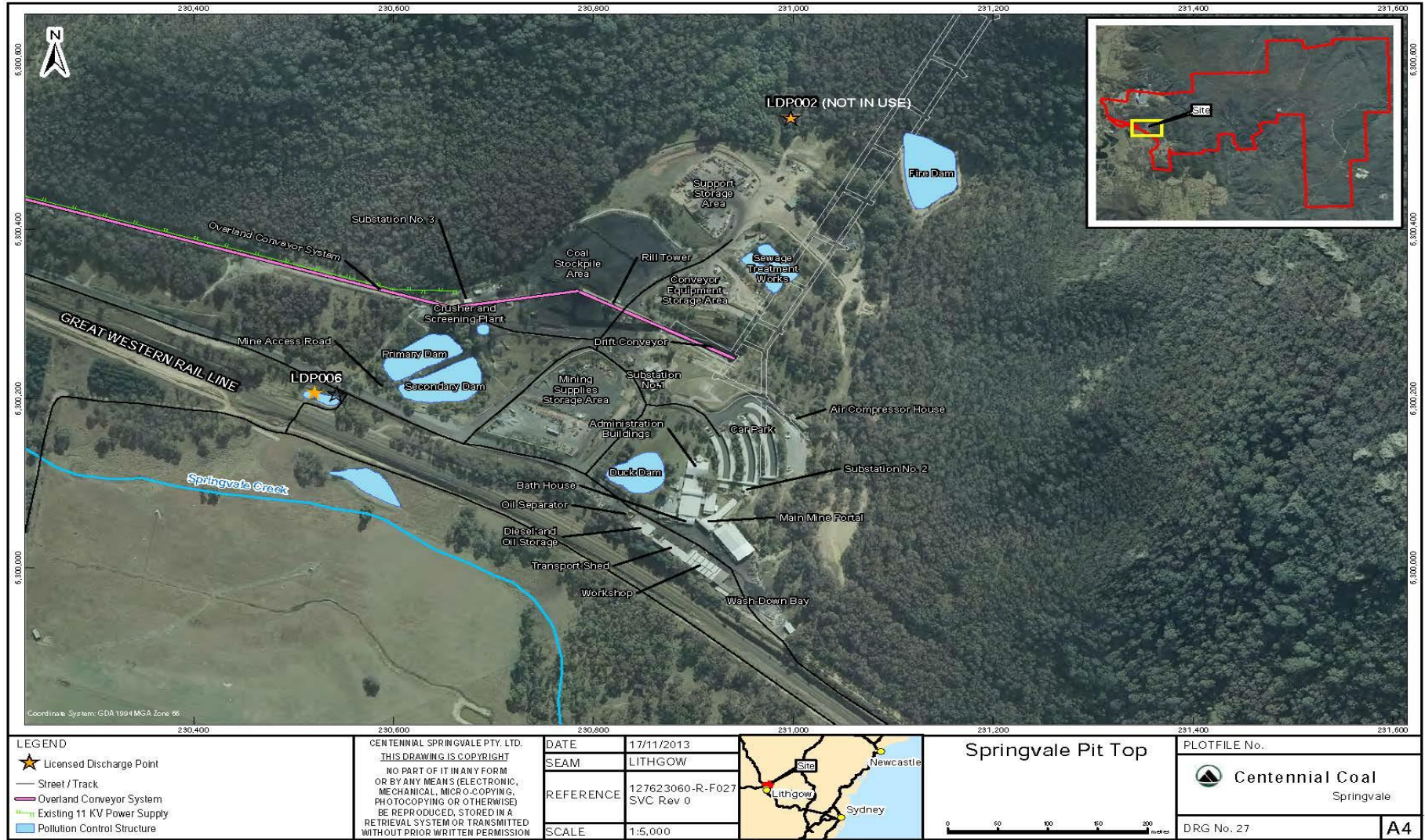
The logo consists of a stylized white flame or leaf symbol to the left of the word "CENTENNIAL".

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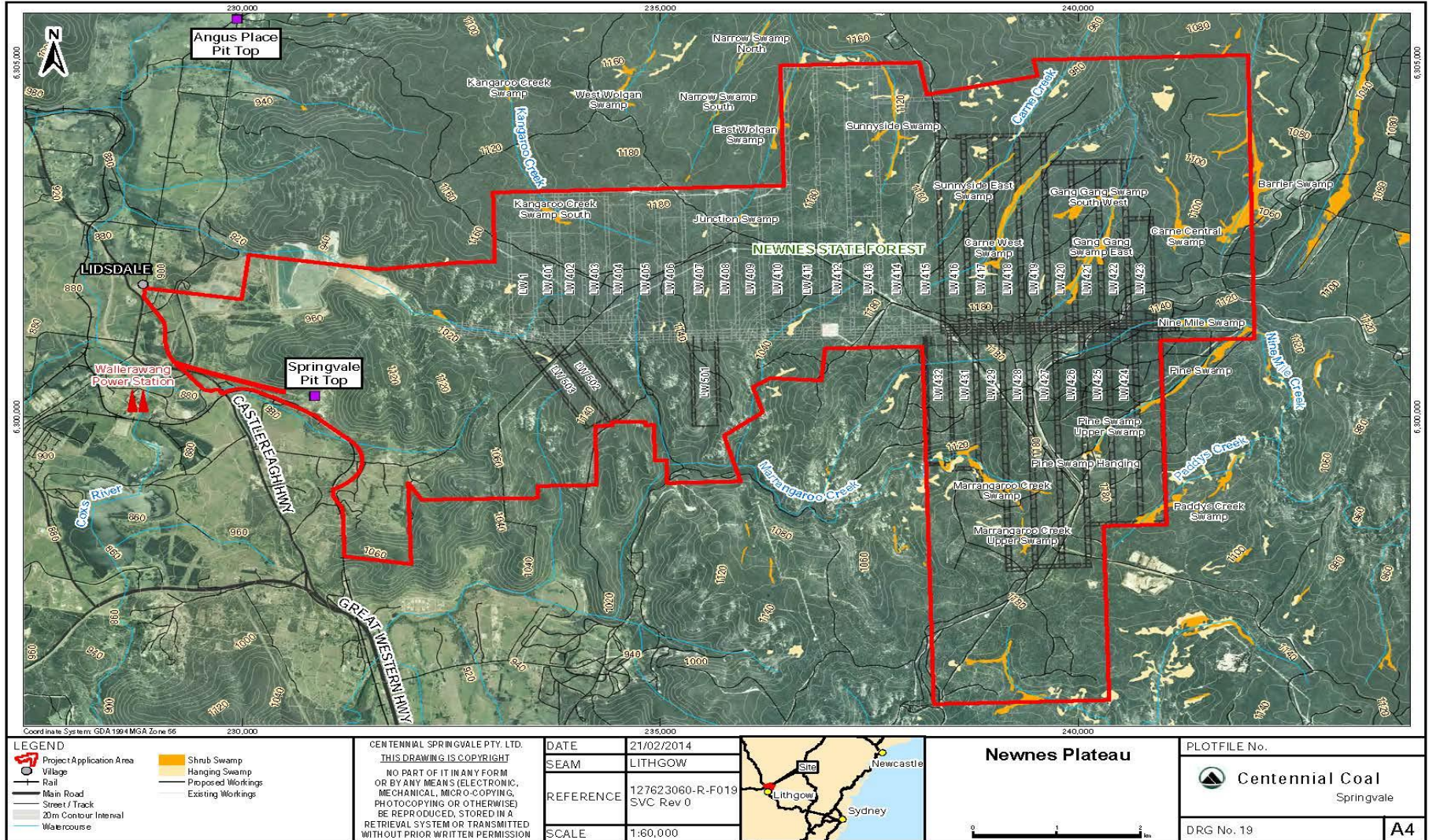
Springvale Colliery CCC Update

November 2022

Springvale Pit Top



Newnes Plateau



Introduction

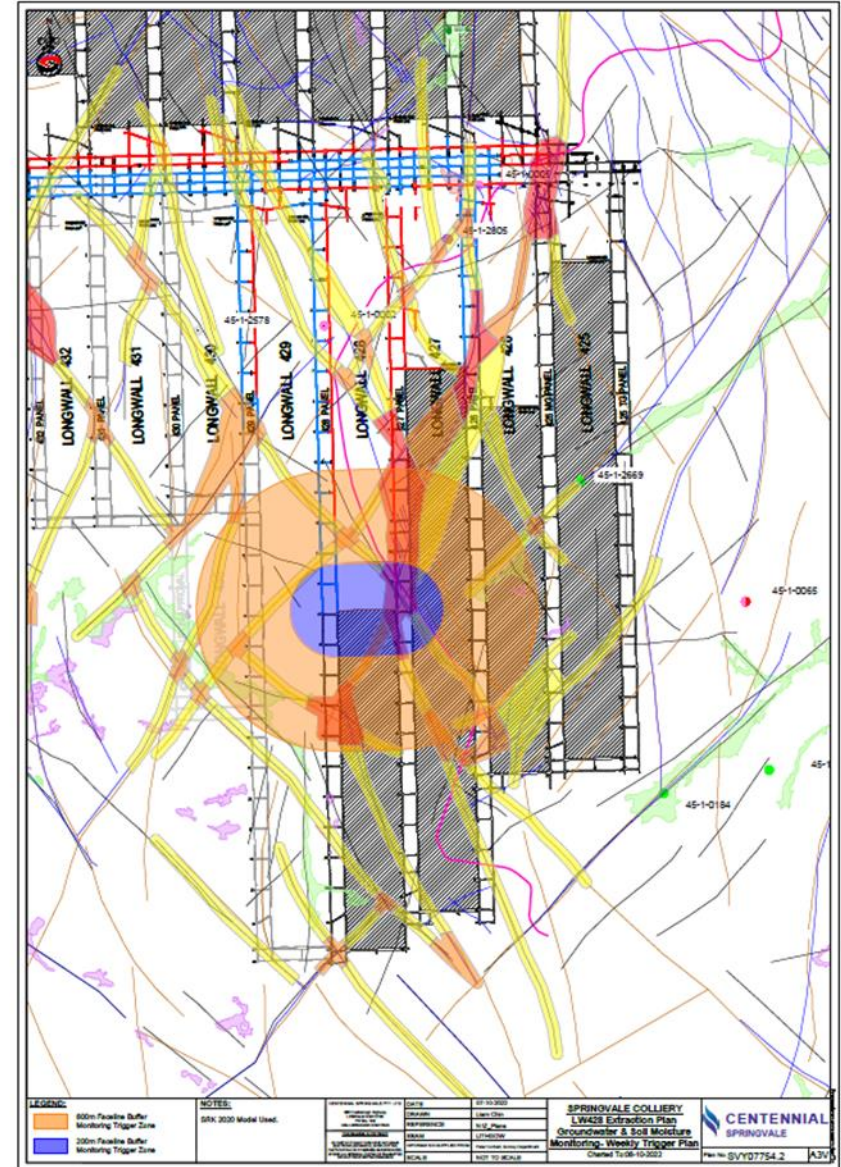
Reporting Period	August 2022 to October 2022
Site	Springvale
Consent Site	SSD_5594: 3 modifications (last 20/6/2021)
Consent WTP	SSD_7592: 7 modifications (Mod 7 Approved 19/6/2021)
EPBC Approvals	2011/5949 Mining of Longwalls 415 – 417 2013/6881 Mining associated with Springvale Mine Extension Project
Licenses	EPL3607
Other	Mining Tenements (14), Dangerous Goods, Groundwater, Occupation Permit, Section 95, TS Licences
All Other Licences and Approvals	Mining Tenements – Regulator driven changes to mining tenements issued. There were primarily issued in relation to changing reporting processes from annual reports to event driven notifications

Changes to Approvals During the Reporting Period	<ul style="list-style-type: none"> NA
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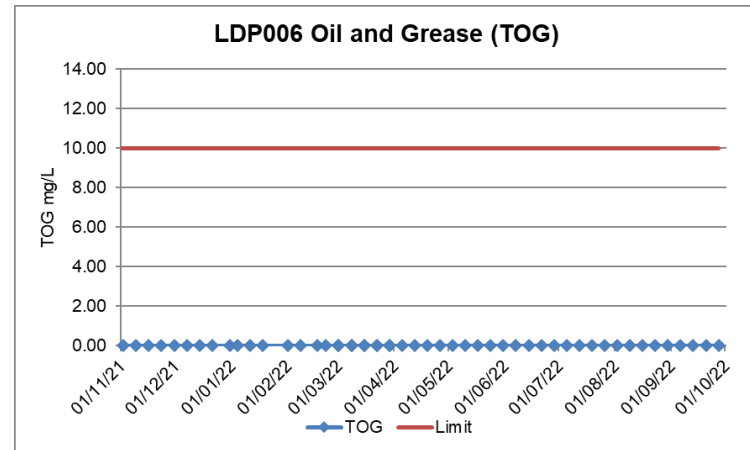
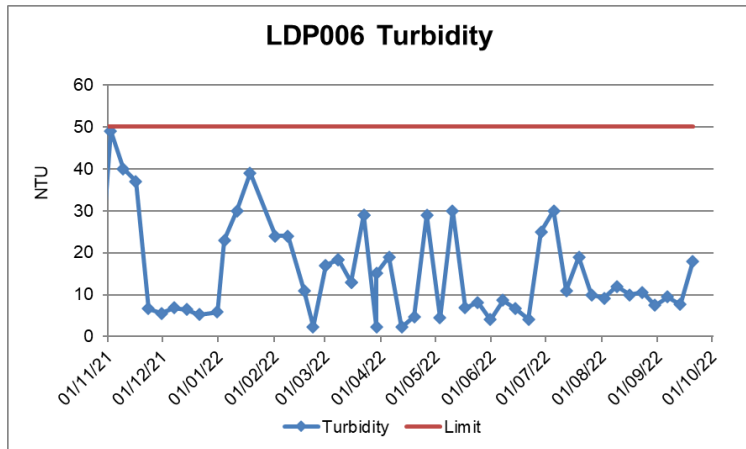
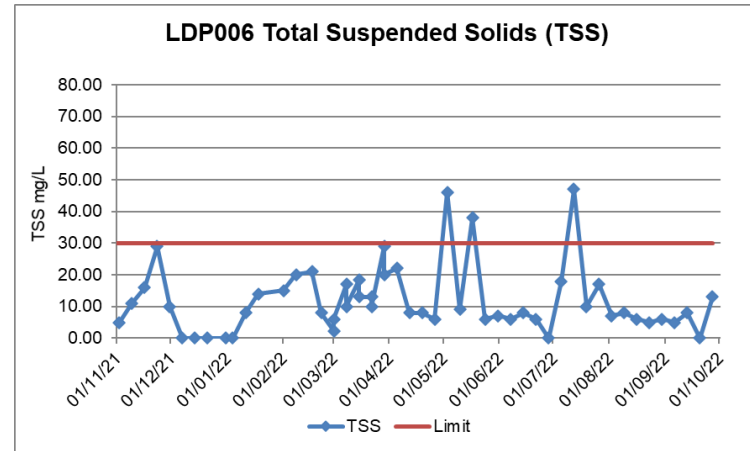
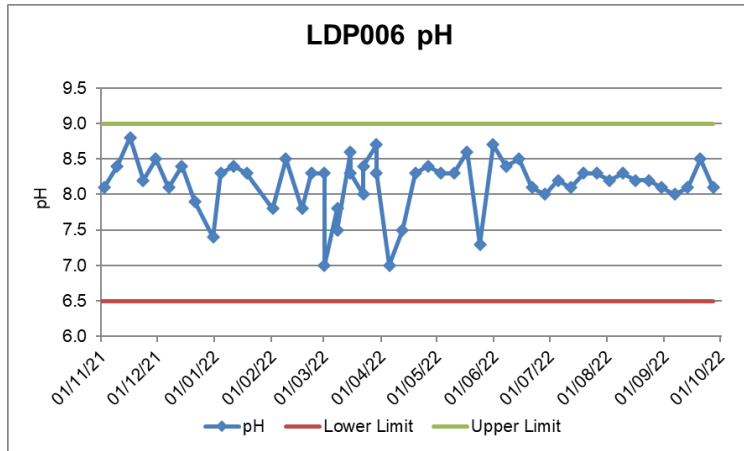


Operations Summary

LW428 commenced 25 March 2022	
ROM Coal Mined 2021	2.093 Mt
ROM Coal Mined YTD 2022 (01/01/2022 – 31/10/2022)	2.088 Mt
Coal trucked via roads	0t
Surface disturbance	Nil disturbance pit-top



Water Quality

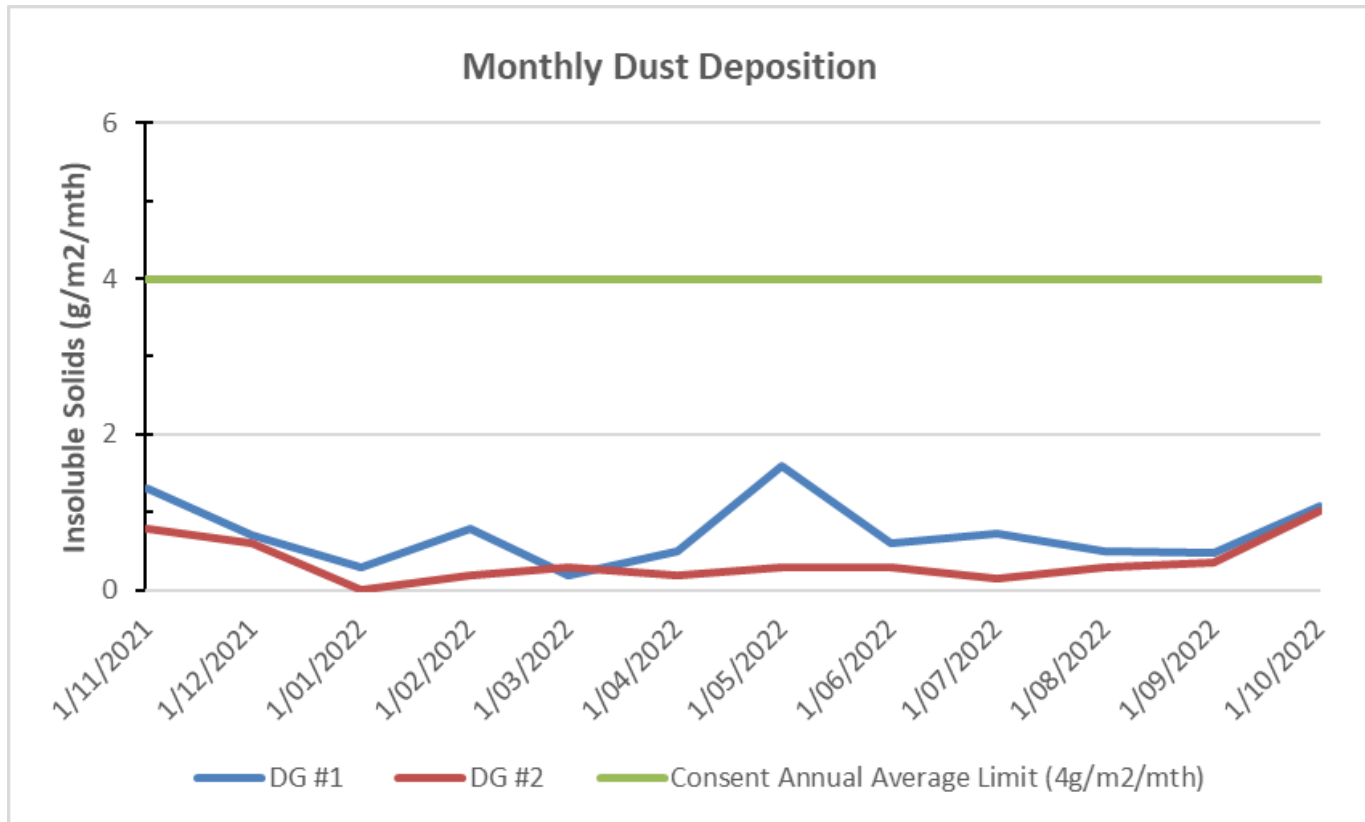


Water Volume

Month	Discharge Point	Unit	Licence Monitoring Frequency	Frequency Measured	Min. Value (kL)	Max. Value (kL)	Volume Limit (kL)	Exceedance (yes/no)
August	LDP006	kL	Weekly during discharge	Daily	704	3377	10000	No
September	LDP006	kL	Weekly during discharge	Daily	678	2497	10000	No
October	LDP006	kL	Weekly during discharge	Daily	964	10187	10000	Yes

One LDP006 water volume exceedance in October
 9th October 2022 – 10187 kL
 Rainfall in 24-hour period = 42mm

Air Quality



Noise

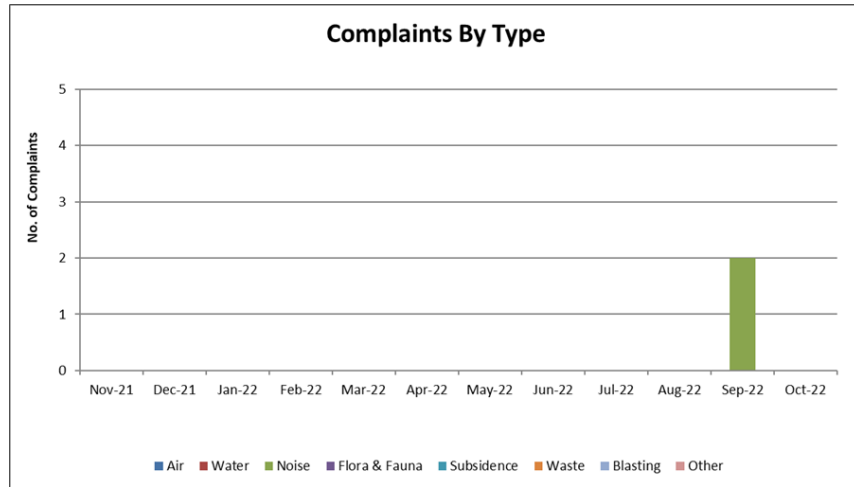
Location	Estimated Springvale LA _{eq(15minute)} Contribution dBA			Noise Criteria LA _{eq(15minute)} dBA			Compliance		
	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
SSD/EPL Locations	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
S1/EPL Point 3	<40	42	44 ₂	44	44	42	Yes	Yes	Yes
S2/EPL Point 4	~43	44 ₂	44 ₂	43	43	43	Yes	Yes	Yes
S3	I/A	I/A	I/A	35	35	35	Yes	Yes	Yes
S4/EPL Point 5	<35	I/A	<35	35	35	35	Yes	Yes	Yes
S5	~32	<30	~34	35	35	35	Yes	Yes	Yes

I/A = Inaudible

2 = Within 2 dB tolerance as per Section 11.1.3 of the NSW industrial Noise Policy (INP).



Community Complaints



Two noise complaints in September

1. Additional track noise heard from stockpile dozers due to faulty hydraulic cylinders.

2. Excessive mine noise

- Investigation ongoing
- Noise monitoring equipment set up for two-week period on property
- Noise report from GHD to come, due at beginning of December.

Community Complaints Register			
Date of Complaint	Complaint Method	Nature of Complaint	Springvale Response
20/09/2022	Email	Noise - Complainant reported dozer noise	Investigation determined that there were faulty hydraulic cylinders on one of the stockpile dozers which contributed to track slap noise. Temporary blocks have been put into place to keep tension on the tracks until the faulty cylinders can be replaced.
29/09/2022	Email	Noise - Complainant reported excessive general mine noise	Investigation ongoing

The 3 Year Independent Environmental Audit

The IEA reviewed the consents and associated Statement of Commitments, Environment Protection Licence, mining tenements, Environmental Management Plans, and the status of previous IEA recommendations. In general, the site was considered largely compliant with only administrative and low-level non-compliance identified.

- **Springvale was assessed against (Audit Period June 2019 – August 2022):**
 - Development consent SSD-5594
 - Environment Protection Licence 3607
 - Mining Leases
 - ML 1537
 - ML 1588
 - ML 1303
 - ML 1323
 - ML 1326
 - ML 1670
 - ML 1727
 - MPL 314
 - Management Plans and Programs
 - Status of previous IEA recommendations

IEA Compliance Summary

Springvale response and action plan to IEA recommendations was submitted to DPE 1st November 2022

Compliance Status	SSD-5594	SSD-5594 SOC	DA 11/92	EPL 3607	ML 1537	ML 1588	ML 1727	MPL 314	ML 1303	ML 1323	ML 1326	ML1670	Total
Compliant	64	12	23	51	26	8	8	7	7	3	14	10	233
Not triggered	8	2	14	9	11	7	2	4	9	8	1	5	80
Admin Non-Compliance	4	0	0	1	0	0	0	0	0	0	0	0	5
Low Non-Compliance	2	0	0	2	0	0	0	0	0	0	0	0	4
Medium Non-Compliance	0	0	0	0	0	0	0	0	0	0	0	0	0
High Non-Compliance	0	0	0	0	0	0	0	0	0	0	0	0	0
Note	5	1	2	10	8	11	1	1	3	1	7	1	51
Total	77	15	39	73	45	26	11	12	19	12	22	16	373

Triggers

- **BMWS:** A consultant will be engaged to perform an investigation of the potential impacts to BMWS populations.
- **Boronia deanei:** Following upcoming 2022 monitoring campaign an investigation report will be prepared to determine if impacts are associated with mining activities.

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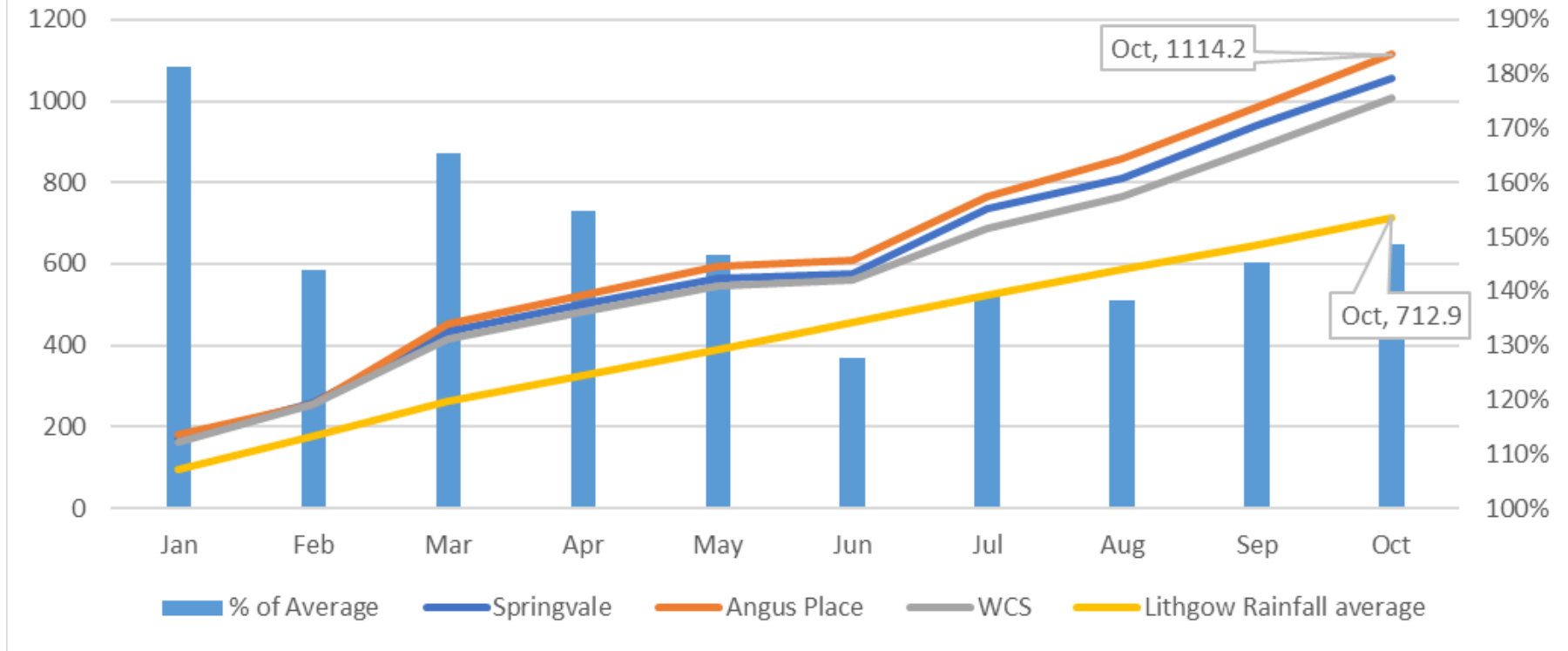
Regional Environmental Rainfall Data – Western Region CCC 23 November 2022

Rainfall

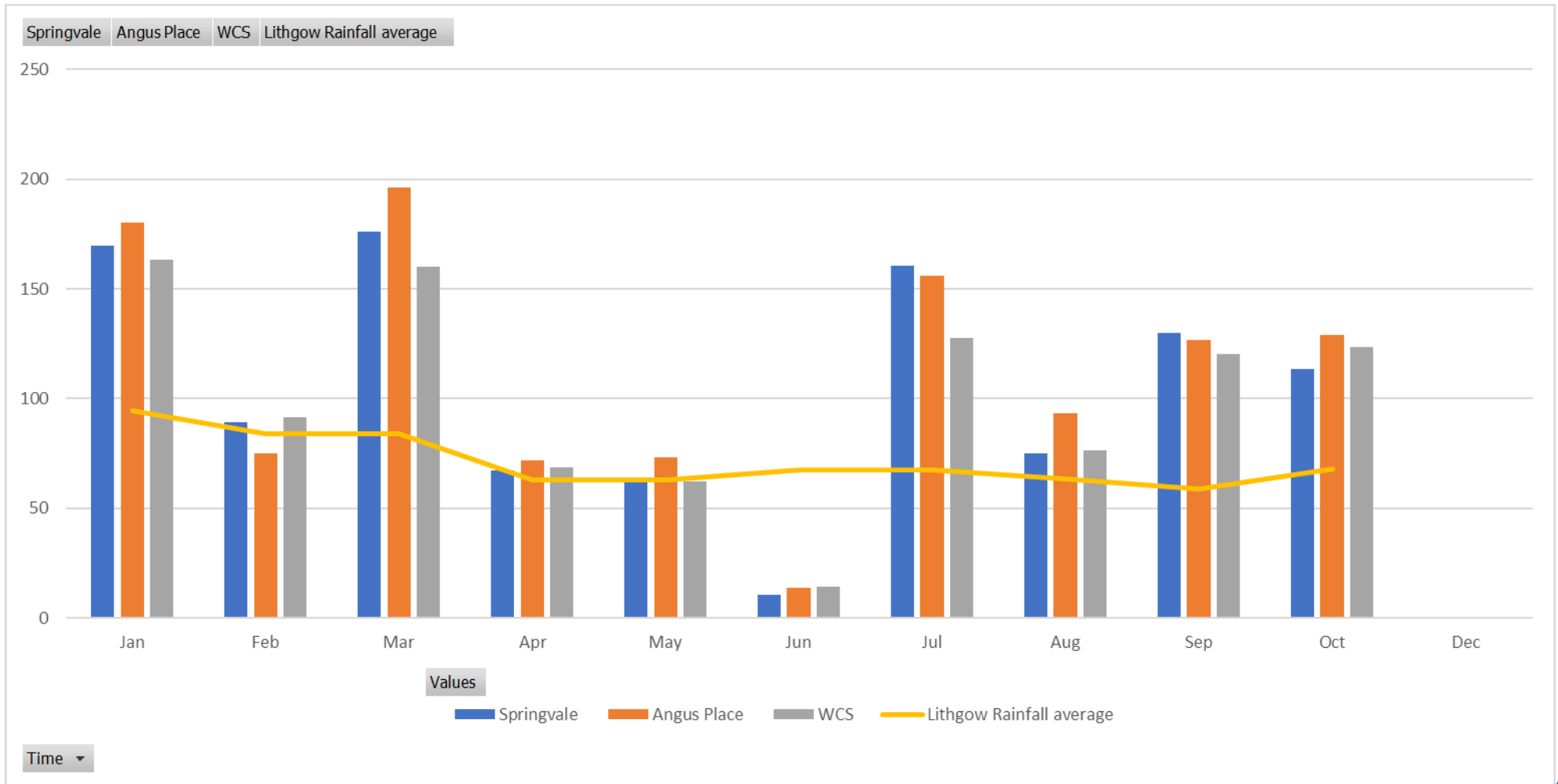
Across all site Weather Stations

- Rainfall to end of October 2022 1007-1114 mm
- Lithgow long term average rainfall to October 712 mm
- Nearly 50% more rain than average to this time of year.

Cumulative rainfall 2022



Monthly total rainfall for each site



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