



# Buttai Quarry

Community Consultative Committee Meeting  
November 2024

- Issues arising from previous meetings;
- Summary of operations;
- Overview of quarry operations:
  - Air quality;
  - Noise;
  - Flora and Fauna management;
  - Blast Management;
  - Incidents / Complaints
  - Rehabilitation;
- Summary of temporary increase in laden truck movements from the quarry, discuss potential extension;
- Resource Recovery Facility (RRF) update including Old Buttai Rd upgrade matter;
- Planned quarry activities for remainder of 2024;

- Previous meeting minutes reviewed with any outstanding actions noted and agreed;
- Kate Baartz to allocate actions and responsibilities for all ongoing items;

- Quarrying continuing in Lot 76;
- Crushing and stockpiling of quarried materials continuing;
- The quarry continues to provide various essential construction materials for the local construction industry and government sectors;
- 2024 continues to be busy from a quarrying perspective with the ability to export up to 100 laden trucks per day greatly assisting our capacity to supply local projects efficiently;
- A total of 9 blasts have been conducted during 2024 so far;

- 1 external site environmental inspection occurred during 2024 (Rubicon);
- 2 external site inspections by the Resource Regulator during 2024 so far;
- 2 Internal Environmental Audits occurred during 2024 so far;

- **Air quality**

- Assessed against NSW EPA Annual Average Criterion ( $4 \text{ g/m}^2/\text{month}$ ) for Dust Deposition Gauges (DDG);
- All annual average results received for all DDG's are below the  $4 \text{ g/m}^2/\text{month}$  threshold including the Buttai Barn results;
- We continue to report the elevated results obtained at 'Buttai Barn' and 'Buttai Barn #2' and they intermittently appear to be erroneous and inconsistent with the adjacent DDG monitors;

# Overview of quarry operations

## Air quality monitoring results January to September 2024

	D1 - Tetratheca	D2 - Norma	D3 - Buttai Barn	D4 - Bishop	D5 - Buttai Barn #2
19/12/23 to 16/01/24	0.7	0.8	1.4	2.7	0.5
16/01/24 to 13/02/24	0.8	0.8	1	<b>5.9</b>	0.9
13/02/24 to 12/03/24	0.9	1.3	1.8	1.1	0.6
12/03/24 to 09/04/23	1.8	0.6	2	0.5	0.4
09/04/24 to 07/05/24	0.5	1.7	<b>10.1</b>	0.9	1.1
07/05/24 to 04/06/24	0.4	0.7	<b>5.4</b>	0.3	0.4
04/06/24 to 02/07/24	0.7	0.7	<b>9.9</b>	0.3	<b>7.3</b>
02/07/24 to 30/07/24	0.6	0.5	<b>11.1</b>	0.6	<b>26</b>
30/07/24 to 27/08/24	0.3	0.6	<b>4.2</b>	0.2	<b>8.3</b>
27/08/24 to 24/09/24	0.7	0.7	0.5	0.8	0.7
<b>Annual Average</b>	<b>0.78</b>	<b>0.82</b>	<b>3.82</b>	<b>1.18</b>	<b>3.72</b>

# Overview of quarry operations



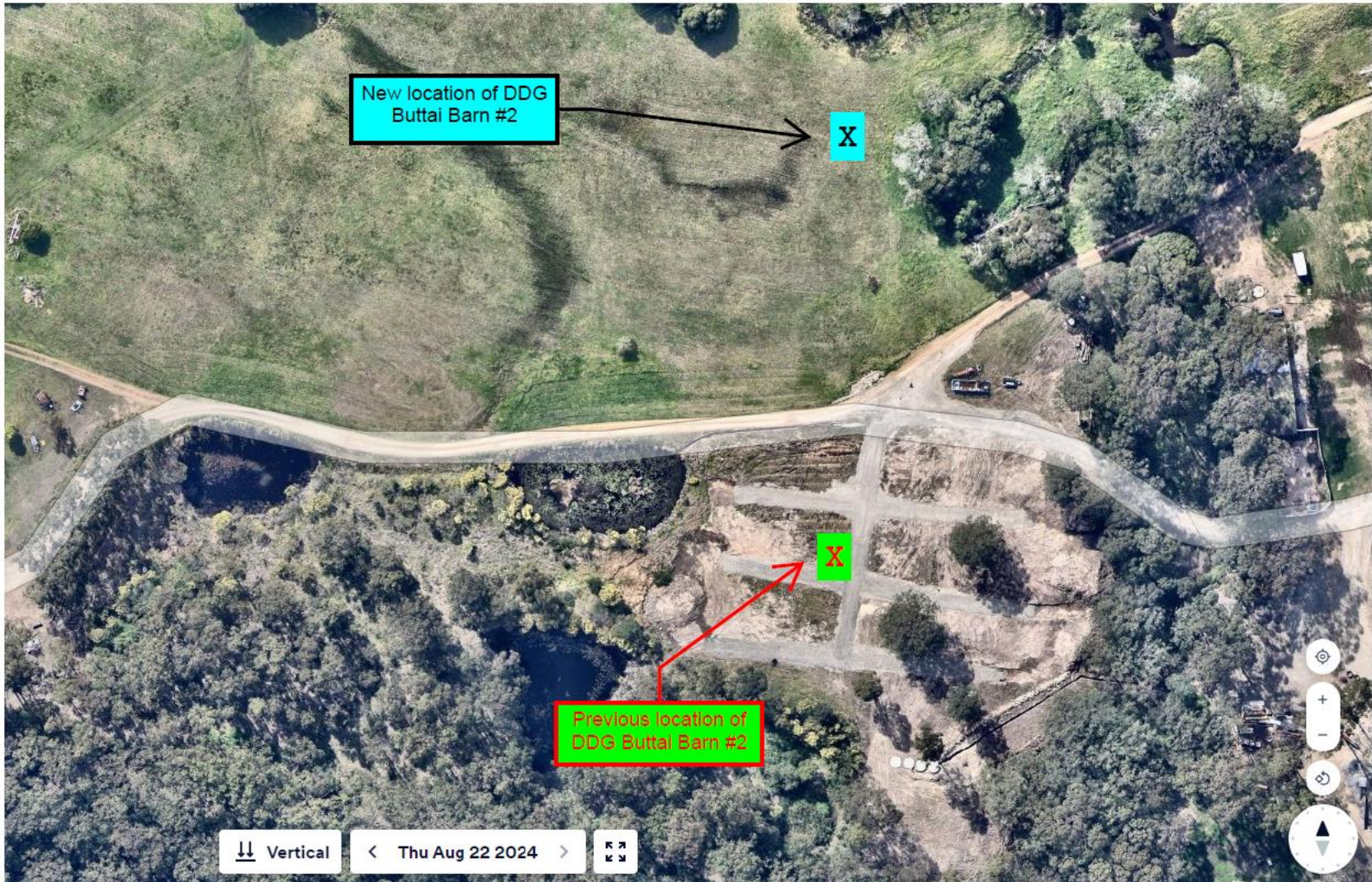
These images show DDG Buttai Barn #2 in its original location. The top image was taken on the 10<sup>th</sup> July and the bottom taken on the 5<sup>th</sup> August 2024





- As shown in the images on the previous slide, the land-owners completed substantial earthworks and then road construction immediately adjacent to the ‘Buttai Barn #2’ DDG;
- We therefore had no choice but to relocate the ‘Buttai Barn #2’ DDG in September 2024 shown in the image overleaf;
- It must be noted that all DDG annual averages are still compliant (less than 4) even with the elevated results associated with the land-owner site activities;

# Overview of quarry operations



- **Noise**

- Noise monitoring is undertaken by Spectrum Acoustics who conducted 3 monitoring sessions during 2024 so far. This is in accordance with the noise management plan;
- All results obtained were within the specified limits as shown in the following slides;

## Noise monitoring results for 2024 so far

Table 1 Buttai Quarry Noise Monitoring Results – 28 February 2024				
Location	Time	dB(A) L <sub>10</sub>	Wind speed/ direction	Identified Noise Sources
1	9:30 am	43	1.0 m/s N	Birds & insects (42), traffic (36), <b>BQ inaudible (&lt;20)</b>
2	9:50 am	40	2.0 m/s N	Birds & insects (39), traffic (34), <b>BQ inaudible (&lt;20)</b>
3	10:15 am	36	1.5 m/s E	Birds & insects (36), traffic (24), <b>BQ inaudible (&lt;20)</b>

Table 1 Buttai Quarry Noise Monitoring Results – 30 May 2024				
Location	Time	dB(A) L <sub>10</sub>	Wind speed/ direction	Identified Noise Sources
1	12:45 pm	46	2.0 m/s NW	Birds & insects (45), traffic (38), <b>BQ inaudible (&lt;20)</b>
2	1:05 pm	42	1.0 m/s NW	Birds & insects (42), traffic (31), <b>BQ inaudible (&lt;20)</b>
3	1:20 pm	37	2.0 m/s N	Birds & insects (36), traffic (28), <b>BQ inaudible (&lt;20)</b>

Table 1

Buttai Quarry Noise Monitoring Results -20 August 2024

Location	Time	dB(A) L <sub>10</sub>	Wind speed/ direction	Identified Noise Sources
1	1:58pm	44	1.0 m/s W	Birds & insects (42), traffic (40), <b>BQ inaudible (&lt;20)</b>
2	2:21pm	42	0.5 m/s N	Traffic (41), birds & insects (35), <b>BQ inaudible (&lt;20)</b>
3	2:42pm	47	0.5 m/s NW	Dog (47), birds & insects (30), traffic (29), <b>BQ inaudible (&lt;20)</b>

- **Flora and Fauna**

- The quarry footprint and extent of clearing was slightly altered along the eastern edge of the quarry pit;
- Wild Thing Ecological services continue to be used to inspect and plan for clearing operations whilst also assisting during vegetation removal activities;
- Maintenance of fire trails and boundary lines continued to occur during 2024;
- Ongoing consultation with the Rural Fire Service (RFS) continues to occur as necessary;

- **Blast Management**

- 9 blasts have been conducted during 2024 so far with all being within the allowable limits;
- Blast monitoring results are shown on the next slide;

# Overview of quarry operations

## Blast monitoring results for 2024 so far

			Norma Brookes		Lings Rd		Buttai Barn	
<u>Date</u>	<u>Time</u>	<u>Blast No.</u>	<u>PPV mm/s</u>	<u>O/pressure dBL</u>	<u>PPV mm/s</u>	<u>O/pressure dBL</u>	<u>PPV mm/s</u>	<u>O/pressure dBL</u>
1/02/2024	11:58	P_118	0.74	113.4	No trigger	No trigger	0.7	105.7
27/02/2024	11:48	P_119	0.91	107.9	0.74	108.1	No trigger	No trigger
13/03/2024	12:16	P_120	0.53	109.6	0.67	109.1	No trigger	No trigger
10/04/2024	12:18	P_121	No trigger	No trigger	0.64	107.1	0.65	95.1
30/04/2024	13:40	P_122	0.46	106.3	0.69	110	0.85	105.6
26/06/2024	11:46	P_123	0.79	112.7	0.65	110.7	1.6	101.7
23/07/2024	12:30	P_124	No trigger	No trigger	0.58	108.9	0.56	108.9
29/08/2024	11:13	P_125	0.8	103.6	0.93	110.6	1.6	101.3
21/10/2024	12:08	P_126	No trigger	No trigger	0.93	108.1	0.91	107.8



- **Incidents / complaints**

- Some elevated DDG results at Buttai Barn as previously explained;
- Feedback received during the February 2024 CCC meeting regarding air quality, which was promptly addressed;
- Truck Access via Lings Rd complaint received on the 7<sup>th</sup> of November, which was immediately addressed;
- We still intermittently experience trespassing and theft issues on site, but the installation of a monitored security network may reduce the frequency of these incidents;

# Overview of quarry operations



- **Rehabilitation**

- Maintenance of the rehabilitation of Bench 2 and 3 continued during 2024 so far;
- Maintenance of various other rehabilitated areas also occurred during 2024 so far;
- More plants were installed on Benches 2 and 3 using the suggested ‘sticky hop-bush’ (*Dodonaea viscosa* subsp. *cuneata*) along with additional mulch in May 2024 (photo overleaf);

# Overview of quarry operations



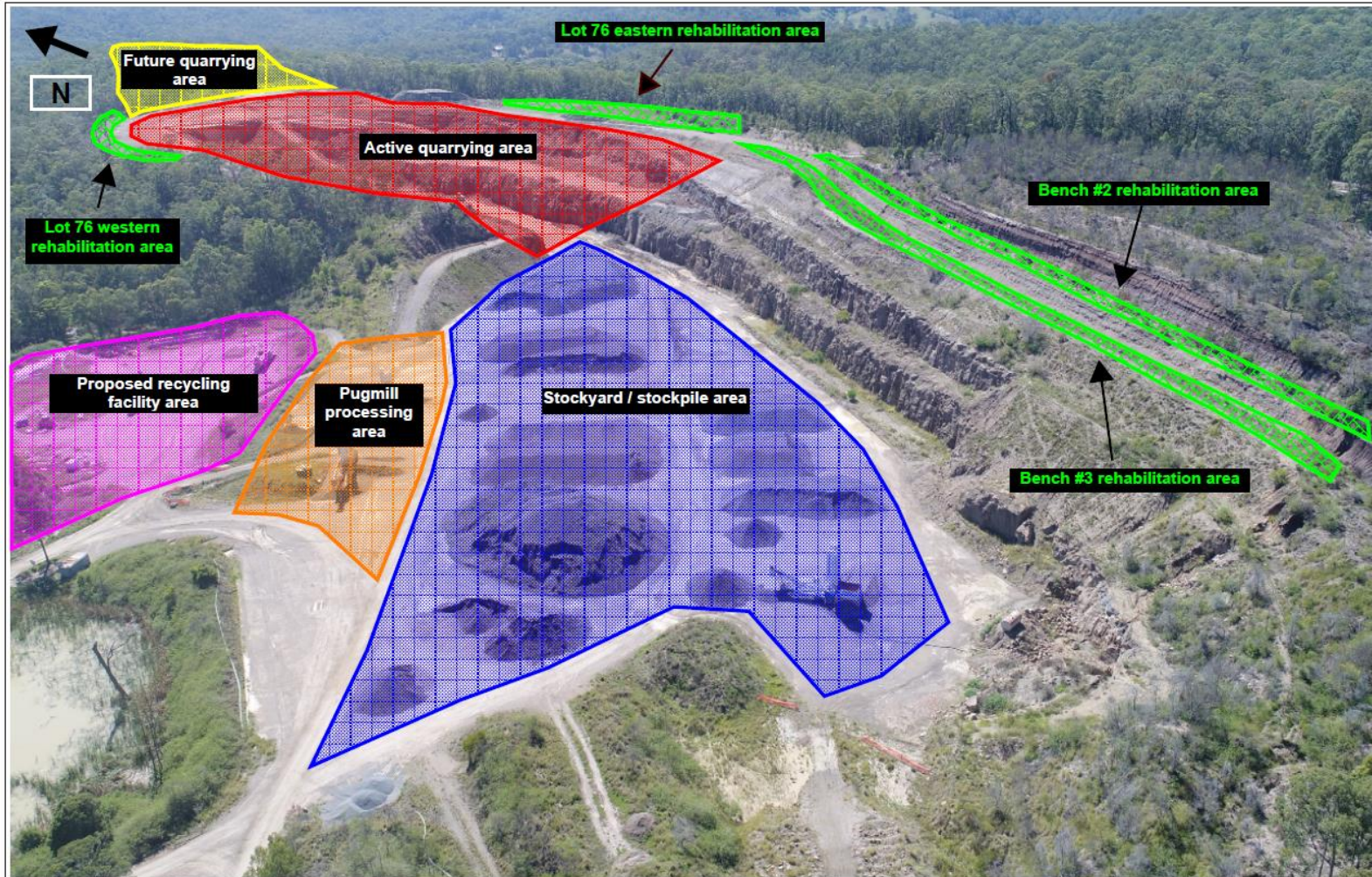
# Overview of quarry operations



These images show the 'Lot 76 western rehabilitation area'



# Overview of quarry operations



- The submission of a 'standalone DA' to temporarily increase laden truck movements from the quarry (60 laden to 100 laden) resulted in a short-term approval in May 2023;
- The additional truck movements commenced on 7<sup>th</sup> June 2023 and are now permitted until June 2025. Daracon submits quarterly reports including, but not limited to a daily summary of laden truck movements;
- The quarterly reports are regularly submitted to Council with a copies provided to the CCC (included in the 'share file');

# Increase in laden trucks

**Laden truck movements from Buttai quarry for the period 07/12/23 to 07/03/24**

Date	Laden truck count
07-December-2023	99
08-December-2023	100
09-December-2023	87
11-December-2023	99
12-December-2023	90
13-December-2023	81
14-December-2023	83
15-December-2023	91
16-December-2023	24
18-December-2023	99
19-December-2023	76
02-January-2024	79
03-January-2024	36
04-January-2024	69
08-January-2024	24
09-January-2024	32
10-January-2024	90
11-January-2024	92
12-January-2024	48
15-January-2024	45
16-January-2024	54
17-January-2024	98
18-January-2024	24
19-January-2024	96
20-January-2024	33
22-January-2024	96
23-January-2024	100
24-January-2024	92
25-January-2024	20
29-January-2024	90
30-January-2024	100
31-January-2024	92
01-February-2024	72
02-February-2024	96
03-February-2024	83
05-February-2024	78
06-February-2024	50
07-February-2024	8
08-February-2024	41
09-February-2024	72

10-February-2024	6
12-February-2024	18
13-February-2024	98
14-February-2024	95
15-February-2024	89
16-February-2024	54
17-February-2024	48
19-February-2024	52
20-February-2024	50
21-February-2024	57
22-February-2024	78
23-February-2024	85
24-February-2024	30
26-February-2024	95
27-February-2024	69
28-February-2024	87
29-February-2024	100
01-March-2024	91
02-March-2024	62
04-March-2024	78
05-March-2024	68
06-March-2024	73
07-March-2024	83



# Increase in laden trucks

**Laden truck movements from Buttai quarry for the period 08/03/24 to 07/06/24**

Date	Laden truck count
8-Mar	96
9-Mar	70
11-Mar	90
12-Mar	97
13-Mar	92
14-Mar	99
15-Mar	74
16-Mar	65
18-Mar	31
19-Mar	54
20-Mar	79
21-Mar	34
22-Mar	63
23-Mar	51
25-Mar	95
26-Mar	94
27-Mar	97
28-Mar	100
2-Apr	68
3-Apr	84
4-Apr	12
8-Apr	68
9-Apr	99
10-Apr	94
11-Apr	98
12-Apr	99
13-Apr	65
15-Apr	93
16-Apr	100
17-Apr	98
18-Apr	75
19-Apr	96
22-Apr	6
23-Apr	87
24-Apr	68
26-Apr	2
29-Apr	92
30-Apr	89
9-May	4
14-May	2

15-May	22
16-May	79
17-May	74
20-May	62
21-May	34
23-May	36
24-May	94
25-May	24
27-May	62
28-May	61
29-May	39
30-May	39
31-May	35
3-Jun	3
4-Jun	19
5-Jun	30
6-Jun	18

# Increase in laden trucks

<b>Laden truck movements from Buttai quarry for the period 08/06/24 to 07/09/24</b>	
Date	Laden truck count
11/06/2024	10
12/06/2024	79
13/06/2024	76
14/06/2024	79
17/06/2024	12
18/06/2024	4
19/06/2024	5
20/06/2024	52
21/06/2024	35
22/06/2024	3
25/06/2024	12
26/06/2024	49
27/06/2024	35
28/06/2024	30
29/06/2024	27
1/07/2024	8
2/07/2024	5
10/07/2024	15
11/07/2024	28
12/07/2024	27
13/07/2024	19
15/07/2024	22
16/07/2024	65
17/07/2024	40
18/07/2024	55
19/07/2024	44
20/07/2024	41
22/07/2024	100
23/07/2024	96
24/07/2024	71
25/07/2024	74
26/07/2024	14
27/07/2024	16
29/07/2024	15
30/07/2024	77
31/07/2024	74
1/08/2024	69
2/08/2024	84
5/08/2024	45
6/08/2024	5

7/08/2024	85
8/08/2024	32
9/08/2024	61
10/08/2024	8
12/08/2024	19
13/08/2024	16
14/08/2024	6
19/08/2024	9
20/08/2024	46
21/08/2024	47
22/08/2024	53
23/08/2024	72
26/08/2024	15
27/08/2024	67
28/08/2024	49
29/08/2024	90
30/08/2024	70
31/08/2024	27
2/09/2024	93
3/09/2024	88
4/09/2024	100
5/09/2024	98
6/09/2024	83
7/09/2024	5

- As the previous slides demonstrate, laden truck movements between December 2023 and September 2024 have been at or below the maximum 100 laden truck movements permitted;
- For the period from December 2023 to September 2024, the average laden truck movements per day is 59.1;

- This temporary increase has allowed several major infrastructure projects, including those listed below, to be serviced with essential construction materials:
  - John Holland M1 to Raymond Terrace (M12RT);
  - Seymour Whyte M1 to Raymond Terrace (M12RT);
  - Hexham Straights Widening Alliance (HSWA);
  - Fulton Hogan Jesmond to Rankin Park (J2RP);
  - NCC Astra St Landfill;
  - Many others;
- Whilst the temporary increase to laden trucks has been operating, we've received only one piece of adverse feedback from the community or other stakeholders (truck accessing via Lings Rd 7<sup>th</sup> November 2024);

- There's not been any incidents or accidents associated with this operation;
- All noise and air quality monitoring results have been compliant;
- In a similar fashion to the first CCC meeting of 2024, we'd like the first CCC meeting in 2025 to occur in mid-February please;
- This would allow for ongoing matters associated with the laden truck temporary increase to be resolved in early 2025;

- The RRF was approved in June 2021;
- Construction work associated with the Old Buttai road upgrade is complete and it's now been bitumen sealed;
- Construction work associated with the remainder of the access road is currently underway;
- The weighbridge, wheel wash and new site office / facilities will be installed shortly;
- We're hoping to commence operating the RRF some time early 2025;

- Further extraction and sale of quarried materials;
- Continued dust, noise and blast monitoring;
- Continued maintenance of rehabilitation work as required;
- Progression of the Resource Recovery Facility (RRF);
- Continuation of quarterly reporting on the temporary increase in laden truck movements from the quarry.

Further questions?