

**Hanson Lysterfield Quarry
Community Reference Group**

MINUTES OF MEETING

Meeting No.:	32	Status of Minutes:	DRAFT
Date:	16 February 2022	Time:	6:00pm
Location:	Via Microsoft Teams		
Minutes Confirmed for upload to website:	Minutes of Meeting 31 approved by 50% of meeting attendees plus one, and uploaded to website		

Chairman:	Brian Oates (BO)
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Present:

Members:	Wendy Belli (WB) Alan Birchall (AB) Virginia Bright (VB) Richard Farragher (RF) Trevor Harley (TH) Shane Logan (SL) Clifford Matthews (CM) Sally Orr (SO) Susan Pearce (SP) Pablo Perez-Reigosa Monica Varcoe (MV)
Presenters/ Observers:	Davis, Griff IGD), Chairperson, Hanson Wollert CRG Paul Dickie, Knox City Council (PD) Rob Francis, Hanson (RFs) Daniel Fyfe (DF), Hanson Garrett Hall, Golder, Hanson consultant (GH) Nick James (NJ), Hanson Cr Darren Pearce, Knox City Council (DP) Jo Prendergast, EPA (JP) Adam Rayner, EPA (AR) Lyndel Hunter, LHSC, CRG Secretariat (LH)

Item	
1	<p>Welcome</p> <p>Acknowledgement of Country</p> <p>The Lysterfield CRG acknowledges that this meeting is being held on the traditional lands of the Bunurong and Wurundjeri people of the Kulin nation, and pay our respect to their Elders both past, present and emerging.</p>

	<p><i>Apologies received from:</i> Clayton Collins John Farrer Alice McKenzie Barry Strong, Regional Manager, ERR Metro Compliance</p> <p><i>Absent:</i> Johanna Selleck</p> <p>BO introduced Griff Davis advising that he had recently been appointed as Chair of the soon to be developed Hanson Wollert CRG and is attending this meeting to observe the conduct of the meeting.</p> <p>BO advised that Jo Prendergast, Senior Engagement Lead, South Metropolitan Melbourne Region, EPA Victoria had emailed requesting to attend the meeting. JP advised that EPA wanted to see how the CRG works and contribute to the conversation. EPA will be regular attendees. Adam Rayner, Acting Environment Protection Team Leader, EPA Victoria, was also in attendance and concurred with JP's remarks.</p>
2	<p>Minutes of previous meeting</p> <p>Meeting 31 Minutes were approved for online publication and uploaded to website. Meeting 31 Minutes were also confirmed during the meeting.</p> <p>Action Tracker from Meeting 31, 24 November 2021</p> <p>Issue: <i>Investigate potential to alter starting time of bin vibrator in concrete plant.</i> NJ advised that he had addressed this issue at the last meeting and that the permitted starting time of operations is 6:00am and the bin vibrator does not commence operations before this time.</p> <p>Issue: <i>Email Air Quality Report summary to all CRG members.</i> LH distributed to members via email on 7 January 2022.</p> <p>Issue: <i>Hanson to investigate potential of comparing earthquake reading of 5.8 with quarry blast data.</i> To be presented by NJ in Item 5.a. Operational Report.</p> <p>Issue: <i>Proposed 2022 meeting dates to be emailed to all members.</i> LH distributed via email on 28 November 2021.</p>
3	<p>Communication and Consultation</p> <p><u>Community Complaints:</u> <i>Rob Francis, Hanson</i> <i>(Refer to ATTACHMENT A)</i></p> <p>RFs outlined community complaints received by Hanson since the last meeting.</p> <ul style="list-style-type: none"> · A Rowville resident had sent a message via Hanson website complaining of a truck speeding on Wellington Road. The Victorian Supply Chain Manager called three times and left messages. The Drivers' Code of Conduct was redistributed to drivers. · A Rowville resident called Hanson on 3 December 2021 to report long grass close to the fence causing concern re risk of snakes. Hillview Agistment arranged for horses to eat down the long grass. Hanson offered to lop the trees, but the resident declined. · A Rowville resident emailed Hanson on 16 December 2021 regarding a fallen tree branch which had crossed the fence and was against the house and had damaged the fly screen. Hanson

	<p>contacted seven tree lopping contractors, but none were available, so SES was contacted. SES made the tree safe, and Hanson offered to cover fly screen repair or replacement costs.</p> <ul style="list-style-type: none"> · A Rowville resident called Hanson on 13 December 2021 concerned that treated gorse in horse paddocks was a fire risk. Hanson cleared the gorse within four days. · A new Rowville resident called Hanson on 20 December 2021 concerned about blasting. Quarry Manager provided information, provided link to CRG web page and subscribed resident to SMS blast notification service. <p>As BS was not present, complaints received by ERR were not reported.</p> <p><u>Information distributed to members since last meeting:</u></p> <p>LH advised that two emails had been distributed:</p> <ul style="list-style-type: none"> · 13 December 2021, email sharing letter send by ERR to community members who had registered an interest with ERR relevant to the proposed extension of the Hanson Lysterfield Quarry; and · 31 January 2022, email sharing link to Engage Victoria for Wellington Road Upgrade update. <p>LH reported that Knox City Council had set up a web page, Lysterfield Quarries, (https://www.knox.vic.gov.au/lysterfield-quarries) providing information relevant to the Boral and Hanson quarries.</p>
<p>4</p>	<p>Project Updates <i>Rob Francis, Hanson</i> <i>Garrett Hall, Golder</i> <i>(Refer to ATTACHMENT B)</i></p> <p><u>Extension Application:</u></p> <p>RFs re-presented the quarry extension application process indicating the current status of the application as being referred back to Hanson to provide responses to DELWP's objections.</p> <p>RFs outlined the three options available to referral authorities under the MRSD Act when reviewing an application to ERR:</p> <ol style="list-style-type: none"> 1. Object 2. Approve 3. Approve with conditions. <p>The Department of Environment, Land, Water and Planning (DELWP) objected. No other referral authorities objected.</p> <p>Under the MRSD Act, ERR was obliged to refuse Hanson's application and notified Hanson of the refusal on 27 August 2021.</p> <p>As the MRSD Act does not allow referral authorities to seek additional information, this will take place under the VCAT process, which includes mediation.</p> <p>A Practice Day Hearing was conducted on 26 November 2021 during which VCAT ruled that community members and groups were not permitted to join the proceedings of this action, and that Hanson must address concerns raised by DELWP, conduct additional studies and update technical reports as required.</p> <p>A Compulsory Conference was conducted on 28 January 2022, which was conducted without prejudice and is aimed at resolving issues prior to the hearing.</p>

	<p>An Administrative Mention has been set for 11 March 2022, and the VCAT hearing will be from 4 to 8 April 2022.</p> <p><u>Overburden Earthworks Application:</u></p> <p>RFs reported that KCC is currently assessing some further information they requested and KCC requested additional detail. The application has not moved past the stage current at the last CRG meeting.</p>
5	<p>5.a Operational Report</p> <p><i>Nick James, Hanson</i> (refer to ATTACHMENT C)</p> <p>NJ presented annual rainfall data, noting that rain was below average for the final three months of the year. NJ also presented dust monitoring data for November and December 2021 and January 2022. TH queried the dust data in light of massive winds on 19 January 2022. NJ advised that dust monitors are read mid-month, therefore that weather event will appear in the next reading.</p> <p>NJ reported that blast data indicated all blasts were well within the limits, however blasting had occurred in the north west corner closest to residents. To manage this, blasts were reduced to compensate.</p> <p>TH advised that CRG members know that Hanson is well within the limits, however they are more interested in anything above or outside the norm. However, the online data is very useful.</p> <p>NJ reiterated that compliance data including blast and dust deposition data reports and videos of the blasts are available online at https://vimeo.com/user138431484 via the CRG web page.</p> <p>In response to CRG members' queries about comparison of the earthquake on 22 September 2021 which registered a magnitude of 5.8, NJ presented images of damaged buildings in Melbourne, but no evidence was found of any earth impact or damage on the Lysterfield Quarry. NJ presented video footage of the earthquake captured on the quarry camera and advised that it is available to view online at https://vimeo.com/user138431484. NJ also presented information provided by Terrock Consulting Engineers which stated that:</p> <p style="padding-left: 40px;">Displacement from the Mansfield earthquake is estimated to have been at least 2.0 mm around Lysterfield, or 40 times greater than a PPV event of 2.5 mm/s. Major earthquakes may generate substantially higher displacements of up to hundreds of millimetres.</p> <p style="padding-left: 40px;">Additionally, the main September earthquake event had a duration greater than 90 seconds, whereas ground vibration from quarry blasts have durations of 2-5 seconds depending on distance from the blast site.</p> <p>NJ provided images, a video and description of Hydro Mulch applied to approximately 3 hectares of the eastern face rehabilitation site on 18 January 2022. The hydro mulch made up of straw, Lucerne, wood fibre, binders and natural nutrients and is seeded with native grasses indigenous to the region including Weeping Grass, Wallaby Grasses, Spear Grasses, Kangaroo Grass and Poa (tussock grass). It provides a base for further tree planting and further supplementary seeding to support weed exclusion and slope stabilisation. The revegetated slopes will support fauna nutrition and biodiversity linkages in the future. Also, it improves the visual amenity for National Park visitors. The spray grass video is available to view on the CRG web page at https://vimeo.com/671764441.</p> <p>5.b Questions and Answers</p> <p>MV queried whether the wheel wash was fully operational as she had noticed a few trucks releasing dust. NJ advised that not all trucks went through wheel wash. Empty trucks departing from the</p>

	<p>transport depot miss the wheel wash. NJ also stated that the wheel wash was for mud, but he will speak with operators to assess ability to remove dust.</p> <p>MV queried the status of the fire trails. NJ reported that he had been trying to get CFA to come out, but COVID had impacted the visit and planning. NJ will follow up.</p> <p>RFs reminded all CRG members to contact Hanson as soon as they see anything that should be reported, such as dust from trucks. This enables Hanson to investigate more effectively, identify specifics and take action asap.</p> <p>TH advised that a community member had complained to him about mechanical grating noise from the quarry at 8.15pm. NJ advised that it would be the tertiary screen house, which is part of the secondary crushing plant which is permitted to run through until 10.00pm. The tertiary screen house crushes and screens the material after its size has been reduced in the primary crushing plant. NJ described that the primary crushing plant is where big rocks are crushed into smaller material and that this part of the plant only operates 6am to 6pm along with pit operations.</p> <p>CM advised that there are houses for sale in Somerset Drive for in excess of \$1 million, and prospective buyers are querying quarry impacts. He said Hanson should expect new resident complaints. CM stated that he had recommended the Hanson Lysterfield web site for information or to call Hanson direct.</p> <p>SO queried whether real estate agents should be advised. LH responded that KCC's new Lysterfield Quarries web page has all the information required.</p> <p>WB advised that she had sold last year and that she had a lot of people inspect, 22 offers and only one query about the quarry, even though the quarry could be seen from the property.</p> <p>Action:</p> <p>NJ to follow up CFA re fire trails.</p>
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Meeting Closed:	6.55pm
Next Meeting:	Meeting 33 27 April 2022 Churchill Waverley Golf and Bowls Club, 82 Bergins Road, Rowville

ACTION TRACKER

Item	Issue	Action	By
5b	Follow up CFA regarding fire trails	NJ	asap



Community Complaints Update

Lysterfield Quarry

16th February 2022

Complaints received by Hanson

Address	Complaints / Allegations	Response	Source
Rowville	Truck speeding on Wellington Rd	Victorian Supply Chain Manager called 3 times and left messages. Drivers' Code of Conduct re-distributed to drivers.	Feedback via Hanson website 22/11/21.
Rowville	<ol style="list-style-type: none"> 1. Long grass close to fence causing concern re risk of snakes. 2. Fallen tree branch crossed the fence and was up against house. Damage to fly. 	<ol style="list-style-type: none"> 1. Hillview Agistment arranged for horses to eat down long grass. Hanson offered to lop trees, but resident declined. 2. Hanson contacted seven (7) tree lopping contractors but none were available, so the SES was contacted. SES made the tree safe. Hanson offered to cover fly screen repair or replacement costs. 	<ol style="list-style-type: none"> 1. Phone call to Hanson 3/12/21. 2. Email to Hanson 16/12/21.
Rowville	Concern that treated gorse in horse paddocks was a fire risk	Gorse cleaned up within 4 days.	Phone call to Hanson 13/12/21.
Rowville	New resident concerned about blasting.	Quarry Manager phoned resident, listened to concerns, provided information, provided link to information on CRG web page and added subscribed the resident to the SMS blast notification service.	Phone call to Hanson 20/1/22.

Complaints received by ERR

Questions?



Nick James

Lysterfield Quarry Manager

P: 03 9274 3700

M: 0418 478 281

E: Nick.James@hanson.com.au



Rob Francis

Project Development Manager

P: 03 9274 3700

M: 0407 530 262

E: robert.francis@hanson.com.au



Project Update

Lysterfield Quarry Community Reference Group

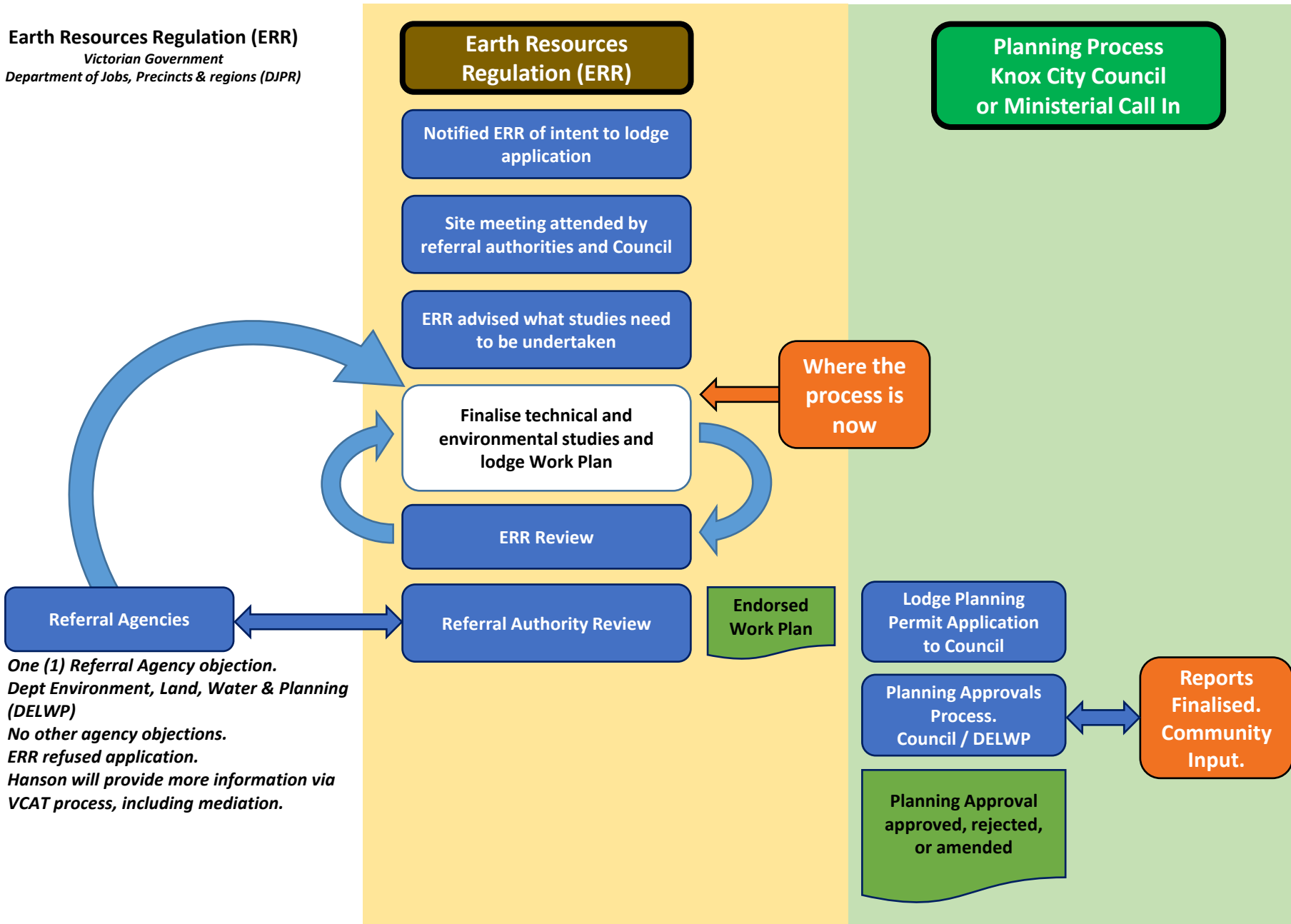
16th February 2022

Current Quarry Application Projects

1. Quarry Extension
2. Overburden Placement

Quarry Extension Application Process

Earth Resources Regulation (ERR)
Victorian Government
Department of Jobs, Precincts & regions (DJPR)



Referral Authorities Options

- Under the MRSD Act, Referral Authorities have only 3 options:
 1. Object
 2. Approve
 3. Approve with conditions
- One Referral Authority objected; Dept Environment, Land, Water & Planning (DELWP)
 - No other objections were made by Referral Authorities .
- Under the Act, ERR was obliged to refuse Hanson's application and notified of the refusal on 27th August 2021.
- As the MRSD Act does not allow Referral Authorities to seek additional information, this response will take place under the VCAT process which includes mediation.

VCAT Process Update

- Practice Day Hearing, Friday 26/11/21.
 - VCAT ruled that community members and groups were not permitted to join the proceedings.
 - VCAT ruled that Hanson must address concerns raised by DELWP, conduct additional studies and update technical reports as required.
- Compulsory Conference, Friday 28/1/22.
 - Without prejudice conference (confidential for all parties).
 - Aimed at resolving issues prior to hearing.
- Administrative Mention, Friday 11/3/22.
- VCAT Hearing, 4-8/4/22.

Overburden Earthworks Application

- ✓ Lodge Planning Permit
- ✓ Permit Public Display
- ✓ Community Submissions
- ✓ DELWP referrals
- ✓ Council assessment
- ✓ Permit issued with strict conditions
- ✓ Hanson to submit required documentation to meet conditions
- Council Assessment
 - Additional detail required
- Council Re-assessment
- Equestrian Facilities Relocation Plan
 - Facilities to remain during early construction
- Vegetation Offsets purchased by Hanson
- Fill and machinery availability
- Commencement of Prefilling

Current Phase in Process

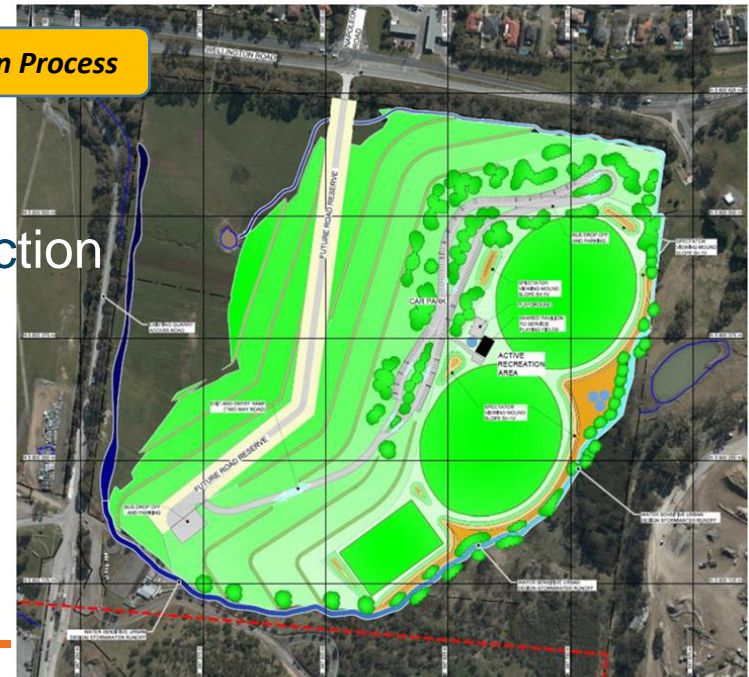


Plate 3: Potential Future Land Use

Questions?



Rob Francis

Sustainability Support & Project Development Manager, Hanson

P: 03 9274 3700

M: 0499 833 499

E: robert.francis@hanson.com.au



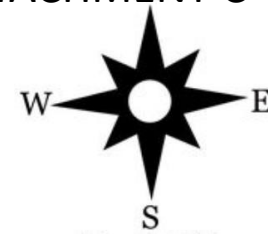
Operational Report

Lysterfield Quarry

16th February 2022

Dust Deposition Gauges Report

ATTACHMENT C



Dust Deposition Gauge near Montague Cres

Dust Deposition Gauge "Boral"

Dust Deposition Gauge "Weather St."

Hanson Lysterfield Quarry

Dust Deposition Gauge "Park"

1011 m

2005

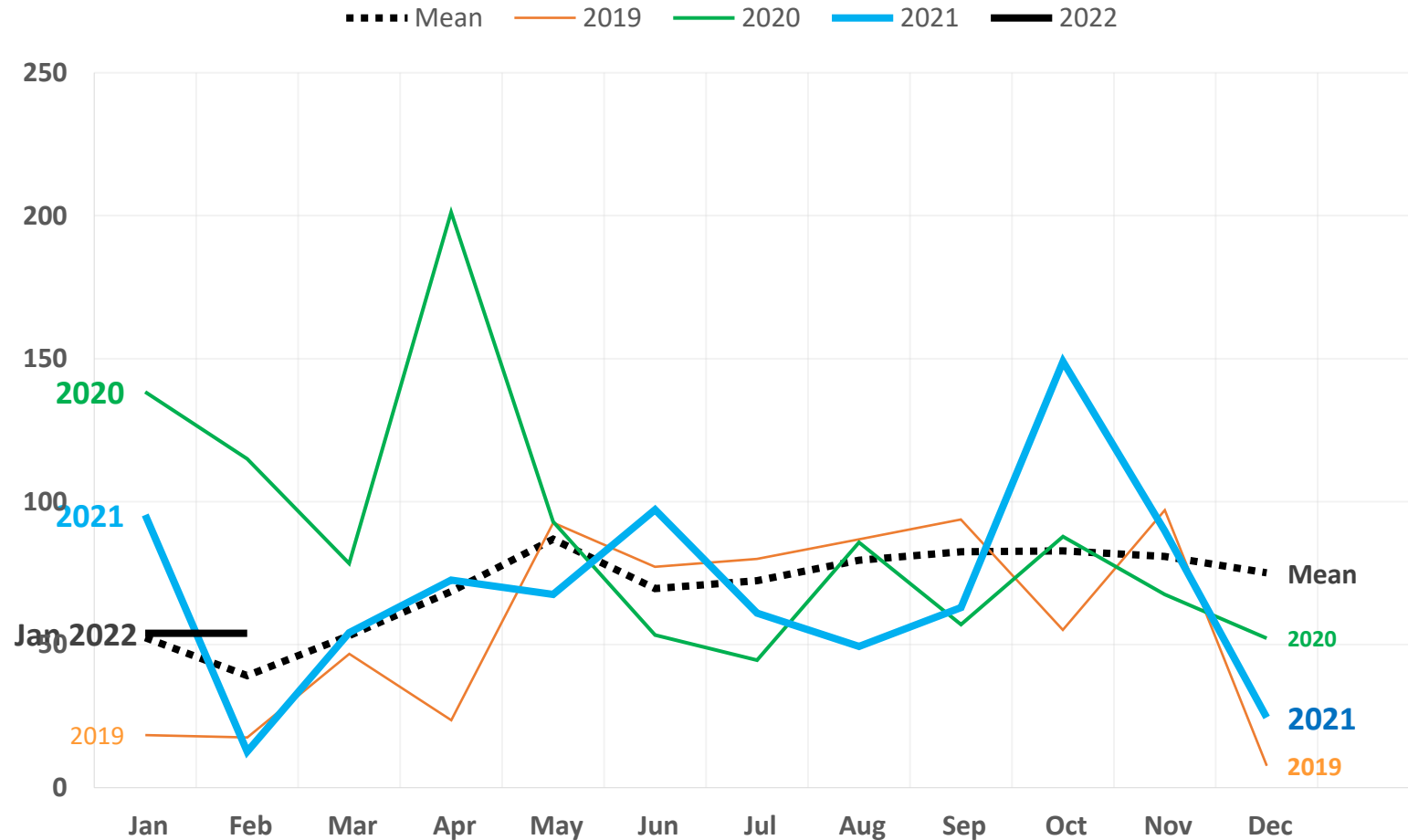
Imagery Date: 10/18/2017 37°5



Rainfall Data

http://www.bom.gov.au/jsp/ncc/cdio/weatherData/av?p_nccObsCode=136&p_display_type=dailyDataFile&p_startYear=&p_c=&p_stn_num=086104

TOTAL VS MEAN RAINFALL SCORESBY



Statistic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	53.8	52.6	53.2	68.6	86.9	69.6	72.4	79.5	82.2	82.5	80.9	75.1
Median	52.4	39.2	46.8	64.7	83.1	64.6	70.6	82.4	78.3	77.8	72.5	72.2

Soluble & Insoluble Dust Data

January 2022

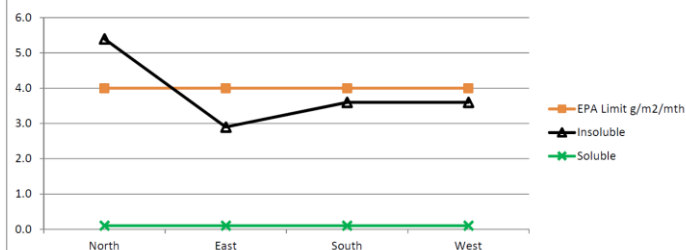
Montague Cres

Monthly Directional Dust - Montague



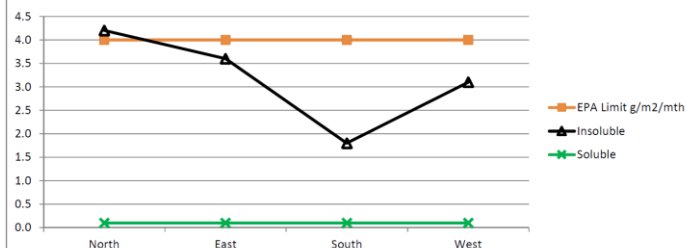
Boral Boundary

Monthly Directional Dust - Boral



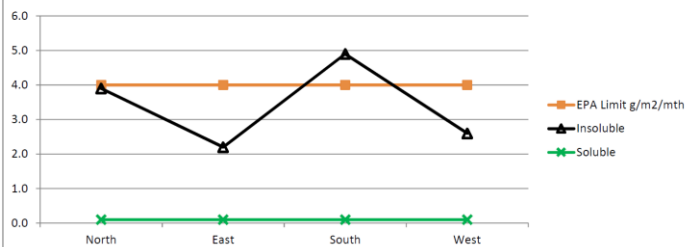
Weather Station

Monthly Directional Dust - Weather St.



Park Boundary

Monthly Directional Dust - Park



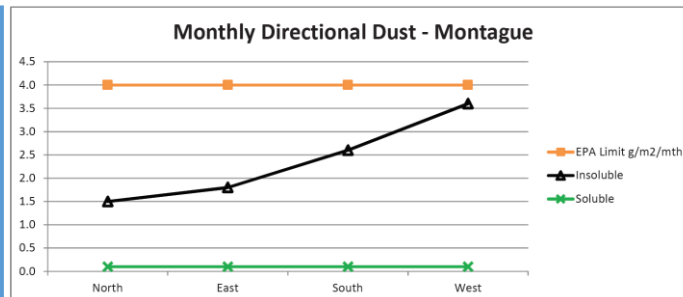
Comments.

Levels were low in all gauges, except Park & Boral Boundary. The north reading on the Boral Boundary gauge and the South reading on the Park Boundary gauge indicate external dust sources.

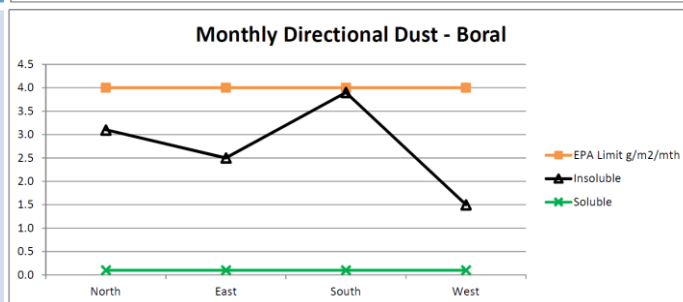
Soluble & Insoluble Dust Data

December 2021

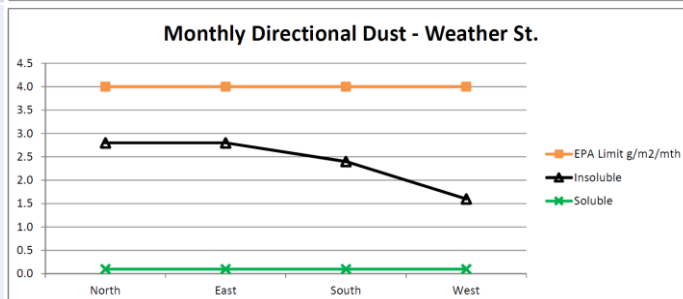
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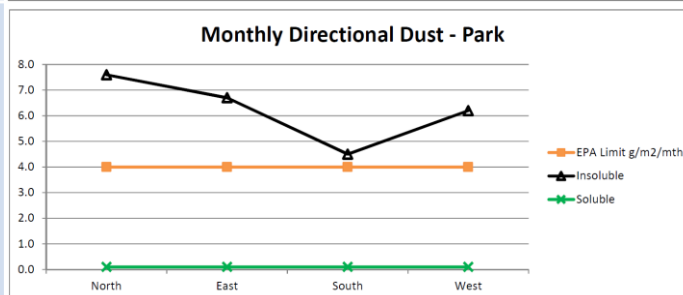
Boral Boundary



Weather Station



Park Boundary



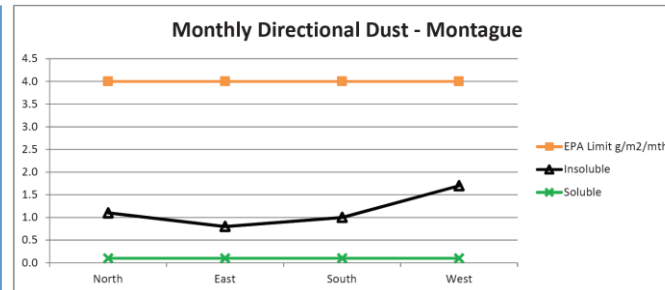
Comments.

Levels were low in all gauges, except Park Boundary. Dry conditions during the sample collection period from mid Nov – mid Dec may have contributed site dust and dust blowing in from the park.

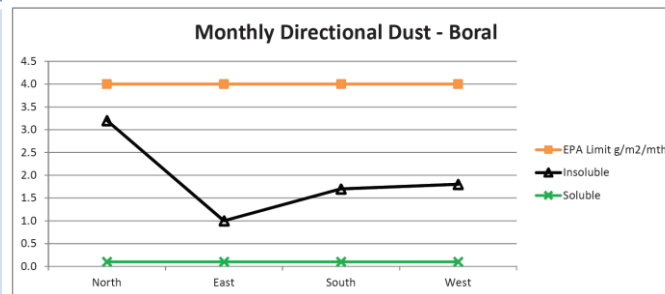
Soluble & Insoluble Dust Data

November 2021

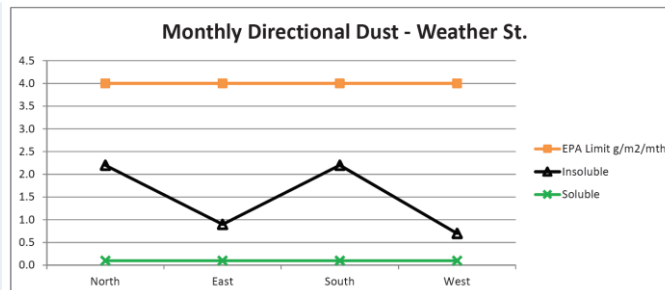
Montague Cres



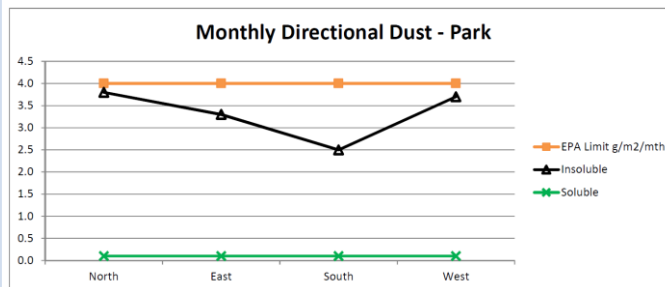
Boral Boundary



Weather Station



Park Boundary



Comments.
Levels low in all gauges.

Blast Monitor Locations



Blast monitoring results since last previous meeting

SHOT no.	Estimated Tonnes	Date	Sandford Close		Quarry Gate Slab		Battersby Way		Reservoir Crescent		Somerset Court		Weather Conditions
			VIBRATION mm/s	AIR BLAST dbL	VIBRATION mm/s	AIR BLAST dbL	VIBRATION mm/s	AIR BLAST dbL	VIBRATION mm/s	AIR BLAST dbL	VIBRATION mm/s	AIR BLAST dbL	
Limits			10.00	120.00	10.00	120.00	10.00	120.00	10.00	120.00	10.00	120.00	
2146	14,030	26-Nov-21	1.31	98.19	0.25	97.10	0.23	97.00	1.56	92.98	1.44	102.07	WINDY
2147	24,244	3-Dec-21	1.17	99.74	0.39	100.01	0.42	96.62	2.25	94.60	1.16	101.42	WINDY OVERCAST
2148	34,000	10-Dec-21	0.92	105.31	0.44	106.52	0.72	98.19	3.03	100.87	1.49	107.44	OVERCAST
2149	13,444	13-Dec-21	0.53	99.63	0.33	95.45	0.11	97.79	0.74	98.88	1.29	101.47	SUNNY
2150	52,844	17-Dec-21	1.38	99.06	0.58	100.57	0.61	100.72	2.19	97.86	2.30	97.92	WINDY
2201	25,129	17-Jan-22	1.51	106.81	0.77	105.37	0.37	99.41	1.90	104.84	1.68	108.91	SUNNY
2202	27,076	20-Jan-22	0.60	106.72	0.52	99.52	0.20	104.62	0.90	105.02	1.82	103.13	SUNNY
2203	18,696	28-Jan-22	0.90	99.41	0.60	95.54	0.20	99.41	0.98	96.54	1.39	99.63	SUNNY
2204	14,200	04-Feb-22	0.80	102.79	0.36	103.17	0.25	96.85	0.81	99.06	1.17	105.23	SUNNY
2205	23,353	04-Feb-22	1.35	102.20	0.42	98.94	0.13	98.51	0.97	99.23	2.10	103.64	SUNNY
2206	27,643	11-Feb-22	1.04	103.98	0.56	102.20	0.16	95.08	0.89	101.86	3.33	106.03	OVERCAST

Compliance data now online

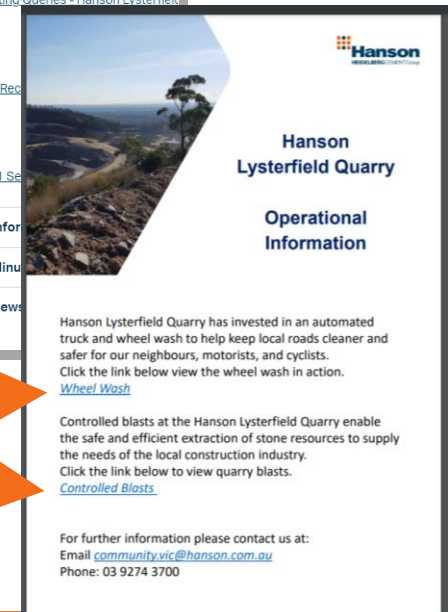
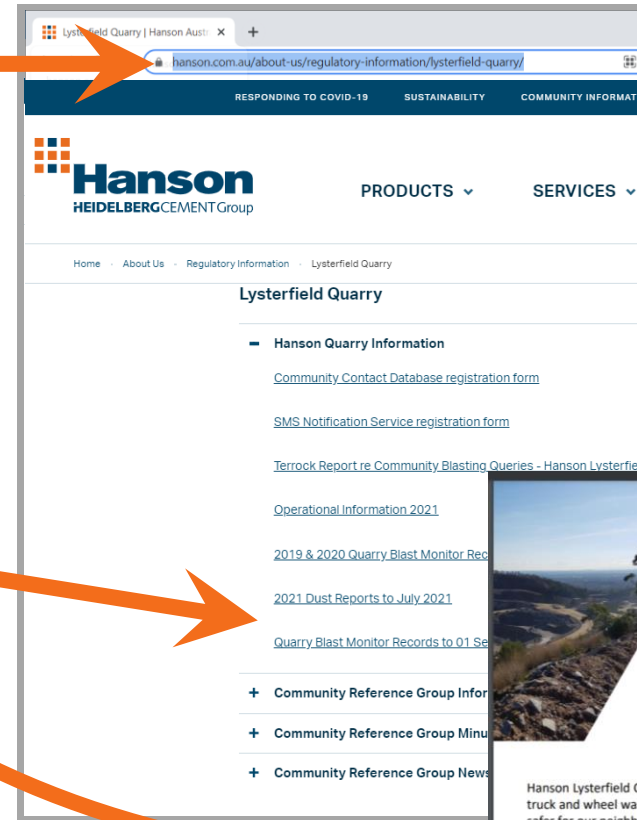
Same web page

<https://www.hanson.com.au/about-us/regulatory-information/lysterfield-quarry/>

- Compliance data now online

Operational Information pages

- Blast monitor records
- Dust deposition gauge reports
- Operational & Environmental Initiatives
- Compliance Records
 - Blast videos
 - <https://vimeo.com/user138431484>
- Further updates may follow

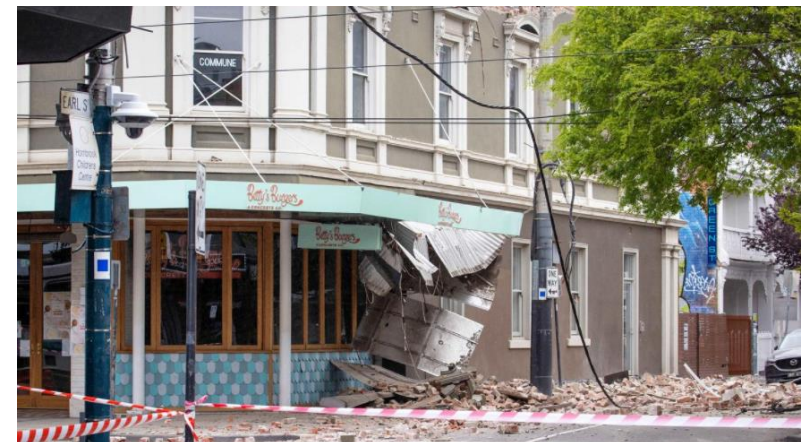


Earthquake 22nd Sept 2021

The quarry was inspected after the 5.8 magnitude earthquake on 22nd Sept 2021.

Buildings in Melbourne were damaged, but no evidence was found of any earthquake impact or damage on the Lysterfield Quarry.

Video footage of the earthquake was captured on the quarry camera and is available online at <https://vimeo.com/649710482>



Betty's Burgers damaged by earthquake

Source: Herald Sun

The 2021 Mansfield Earthquake, an event felt by most Victorians, provides us with a good opportunity to compare natural seismicity with ground vibration from quarry blasting. The two types of event have similarities but also some important differences, including event duration and the frequencies of the ground motions.

As blast monitors are only put in place for blast events, none were present at Lysterfield or Rowville at the time of the earthquake on 22nd September 2021. However, a monitor was in place at Eltham that recorded a peak ground vibration level (PPV) of 12.7 mm/s. Lysterfield Quarry is only 1km closer to the earthquake epicentre than Eltham so PPV levels at Lysterfield would have been similar.

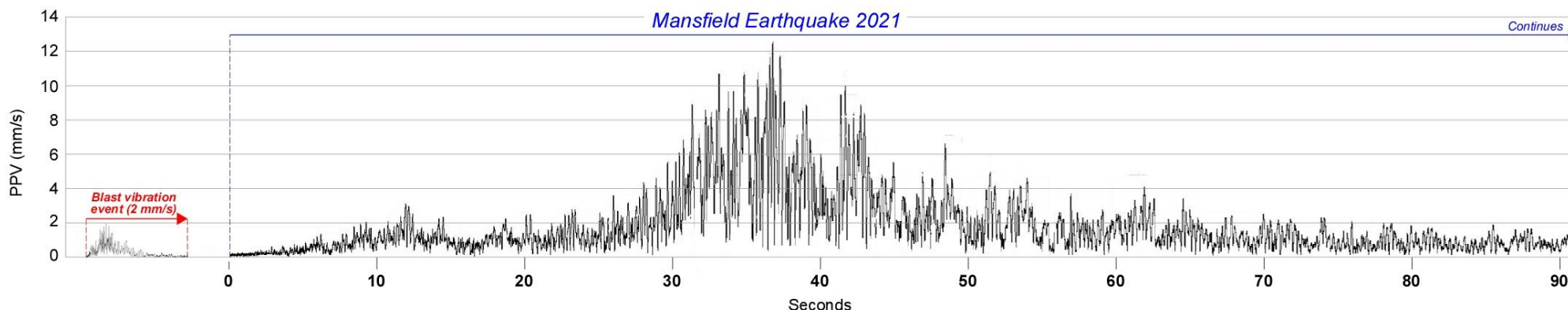
It is important to note that blast monitors record ground motions in the frequency range 2-250 Hz and quarry blasts typically generate frequencies in the range 4-20 Hz. Ground motions from earthquakes normally have dominant frequencies of less than 2 Hz and therefore blast monitors cannot provide a complete picture of earthquakes because the low frequency ground motions are not recorded.

Ground displacement (the distance a surface particle moves in response to passing vibration waves) also differs. For example, a blast vibration event of 2.5 mm/s with a dominant frequency of 6 Hz has an approximate ground displacement of 0.05mm. Displacement from the **Mansfield earthquake is estimated to have been at least 2.0 mm around Lysterfield, or 40 times greater than a PPV event of 2.5 mm/s**. Major earthquakes may generate substantially higher displacements of up to hundreds of millimetres.

Additionally, the main September earthquake event had a duration greater than 90 seconds, whereas ground vibration from quarry blasts have durations of 2-5 seconds depending on distance from the blast site.

So, while there are some similarities between earthquakes and blast events, there are significant differences with respect to frequency, displacement and duration of the ground motions.

Mansfield earthquake in relation to a typical blast wave trace.





Hydro Mulch. Eastern Face Rehabilitation.



17th January 2022



Hydro Mulch. Eastern Face Rehabilitation.

16th Feb 2022 (4 weeks after planting)



Hydro Mulch. Eastern Face Rehabilitation.

- Application completed 18th Jan 2022.
- Approximately 30,000 square metres, or 3 hectares (7.4 acres)
- Made up of straw, lucerne, wood fibre, binders and natural nutrients.
- Seeded with native grasses indigenous to the region, Weeping Grass, Wallaby Grasses, Spear Grasses, Kangaroo Grass and Poa (tussock grass).
- Base for further tree planting and further supplementary seeding to support weed exclusion and slope stabilisation.
- Re-vegetated slopes will support fauna nutrition and biodiversity linkages in the future.
- Visual amenity vistas for National Park visitors also being improved.
- Spray Grass video on CRG web page at <https://vimeo.com/671764441>



Progressive Rehabilitation – National Park View



Questions?



Nick James

Lysterfield Quarry Manager

P: 03 9274 3700

M: 0418 478 281

E: Nick.James@hanson.com.au