



LYSTERFIELD QUARRY : NEWSLETTER

Community Reference Group

We are a group of individuals who acknowledge the quarry is in our backyard and care about how it is managed.

Who are we?



CRG members inspect quarry operations and rehabilitation projects on 18 May 2019.

The Lysterfield Quarry Community Reference Group (CRG) was formed in April 2016. It comprises 17 community members who live near, work close by or have an interest in the Hanson Lysterfield Quarry and its environs.

The structure of the CRG has been designed to respond to the community engagement requirements of the State Government statutory authority, Earth Resources Regulation, while ensuring the ability of CRG members to conduct the meeting according to our needs.

The CRG is chaired by Mr Brian Oates, a former Mayor of the City of Casey, and we meet every few months for presentations from Hanson, government representatives and operational specialists. We develop the meeting agenda, provide information to Hanson and contribute to the review of operational practices that provide greater benefit to the community.

The guiding principles for participation as a member of the CRG are to:

- Contribute to an open, encouraging, motivating environment for discussion
- Present a responsive and active approach toward safety and environmental management of the quarry
- Be willing to introduce or consider new and innovative ideas to assist Hanson to develop and grow in a sustainable manner with due regard to the community, the environment and the economy
- Operate in a responsible, ethical and honest manner in all dealings and negotiations relevant to the Lysterfield Quarry CRG.

As a group, we are neither for, nor against the operation of the Hanson Lysterfield Quarry. We are however a group of individuals who acknowledge that the quarry is in our backyard and care about how it is managed, how the environment and community are protected, and how we as individuals and

in this issue

Who are we	1
About our work	2
Dealing with dust	3
The quarrying process	4
Who is Hanson and what do they do?	5
Quarry extension	6
The Swift Parrot watch	8

collectively can provide input to Hanson to make sure our concerns are addressed.

Since its inception, we have met 21 times, had two tours of the Hanson Lysterfield Quarry and its operations, and conducted a walking tour of Churchill National Park to provide Hanson with a better understanding of the view of the quarry from the park.

Meetings provide an opportunity for us to interact directly with Hanson, seeking information regarding the operations of the quarry processing facilities; and provides an opportunity for input to Hanson on a wide range of operational, environmental and community topics.

Learning has been mutual. Hanson now better understands the issues that concern us as neighbours of the facility, and as community members who have an interest in the site. Equally, we have learned a great deal about the requirements of the State Government and Knox City Council to make sure Hanson is operating within regulation at all times, and what Hanson does to meet those standards and to respond to community concerns about its operation.

About our work

Our key responsibility as a group is to represent the community, making sure Hanson understands and responds to our concerns. We regularly seek information from Hanson, their specialist consultants, the statutory regulator, Earth Resources Regulation and Knox City Council on a wide range of issues. Some of the issues we have raised and the outcomes we have achieved include:

ISSUE	OUTCOMES ACHIEVED
Concern that blasting vibration is causing cracks in nearby properties For further information, see page 4.	<ul style="list-style-type: none"> Vibration monitors placed at several properties. Report of every blast provided at all CRG meetings. Consulting engineers commissioned to provide report on short and long term effects on blasting.
Dust For further information, see page 3.	<ul style="list-style-type: none"> Hanson now undertake 24/7 directional dust deposition monitoring. Results are provided at all CRG meetings. A three month particulate monitoring campaign did not detect any respirable silica dust. A 110 tonne water truck with a 50,000 litre capacity sprays the internal roads all day, five and a half days per week. Gluon® dust suppressant, a waterborne polymer emulsion, is sprayed on stockpiles, creating a wind resistant 'veneer' or 'crust'. The crushing plant is now completely enclosed and water and dust suppressants are used in the crushers.
Mud and gravel on Wellington Road	<ul style="list-style-type: none"> Route and schedule of street sweeper increased. Upgrade of tarping area where drivers ensure load is well covered. Included asphaltting of area to minimise mud transfer by keeping trucks on sealed surface. Installation of wheel wash which every truck must pass through before exiting the site.
Truck driver behaviour and speed past Wellington Village Shopping Centre	<ul style="list-style-type: none"> Introduction of Driver Code of Conduct at all Hanson quarries which could result in drivers' behaviour being managed. Representations to State Government Ministers, MPs and VicRoads Meetings with VicRoads. VicRoads agreement to increase the all-red time at the Wellington Village Shopping Centre intersection by 66% from 1.5 seconds to 2.5 seconds. This is the time when all the lights at the intersection will show red so no vehicles can move and will improve safety. VicRoads review and analysis of crash history at the intersection.
Quarry extension (including footprint, visual amenity, future use and community facilities) For further information, see page 6.	<ul style="list-style-type: none"> Project report and update provided at every CRG meeting. Specialist consultants, Knox City Council and statutory regulators made available to discuss various aspects of projects. CRG input sought and integrated into design of final landform, rehabilitation program and future use of site post closure. Development of lines of sight from populated locations to make sure there is no visual impact. Including walk of Lysterfield Park to make sure Hanson understands the view of the quarry from the park.
Better communication with broader community and more CRG members	<ul style="list-style-type: none"> Development of CRG Newsletters. Presented 2018 CCAA Innovation Award for Community Leadership by then Treasurer and Minister for Resources, The Hon Tim Pallas Hanson's agreement and support to distribute the CRG Newsletter to all residents of Rowville, Lysterfield and Lysterfield South. Pop Up Display at Wellington Village Shopping Centre to encourage membership of the CRG. Five new members joined.



Further information on all of these issues can be found in the Meeting Minutes which can be viewed at: <https://www.hanson.com.au/about-us/regulatory-information/lysterfield-quarry/>



(L-R): Lysterfield Quarry Manager Bruce Webster, CRG member and local resident Trevor Harley, Minister Pallas, CRG member and local business owner Virginia Bright and Hanson National Land and Resources Manager Daniel Fyfe.



Dealing with dust

Stockpiles are sprayed with waterborne polymer dust suppressant.



Trucks must pass through wheel wash prior to leaving site.

A major issue of discussion amongst CRG members and the community when either of the quarries are mentioned, is the amount of dust being experienced locally. Reports of cars, patios, verandas and outdoor areas being covered in dust shortly after cleaning is a common experience.

Since our second meeting in June 2016, the CRG has received reports on dust mitigation management, and has persistently ensured that Hanson understands the community's concerns.

Hanson has a dust monitoring system that measures dust and air quality from all directions. Four permanent dust deposition gauges strategically located across the site are tested and assessed monthly, with the results being reported to us at every CRG meeting. Interestingly, dependent on the wind direction, some results indicate dust is occasionally being blown into the Hanson site from Churchill National Park and the Rowville housing estate.

The issue of the potential impact of silica dust on the health of the community has also been high on the list of CRG concerns. To respond to this, Hanson engaged specialist consultants to conduct a three month Respirable Silica Monitoring program that included the installation of a fixed Partisol monitoring station, a 24 hour a day sampling process, and data collected then

modelled against meteorological and EPA ambient air quality data. The result was that no respirable silica dust was detected. Also, Hanson employees undergo a regular comprehensive health monitoring program commencing from pre-employment. To date, there have been no proven cases of silicosis.

Operationally, managing dust on site is a constant process which is consistently reviewed by the CRG.

has been asphalted and Wellington Road is regularly swept to reduce dust and mud.

In May this year, CRG members toured the site to look at the rehabilitation being undertaken. By commencing site rehabilitation early rather than waiting until the quarry is closed, planting of indigenous trees will help manage the dust – as well as benefit the views from the neighbourhood, Lysterfield Park and Churchill National Park.

Four permanent dust deposition gauges strategically located across the site are tested and assessed monthly, with the results being reported to us at every CRG meeting.



Since the issue was raised, existing operational processes have been updated and new practices introduced. Internal road spraying now runs all day, five and a half days a week (subject to wet weather); dust suppressant is sprayed on the stockpiles; water is used in the crusher to suppress dust; a wheel wash has been constructed; the Driver Code of Conduct requires trucks to use tarpaulin covers; the tarping area

We encourage you to read the CRG Meeting Minutes of Meeting 16 to obtain the information and reports.



The quarrying process

One of the benefits of being a CRG member is the opportunity to learn what goes on in the Hanson Lysterfield Quarry and how the rock is extracted for processing into various grades of aggregates for use in the construction industry.

Blasting at quarries is a controlled and regulated operation. Victorian quarries must comply with regulatory controls for ground vibration, airblast overpressure and the safety of quarry personnel and the community.

Hanson has expert blasting specialists plan, set up and carry out each blast. When a blast is detonated, the rock is sent forward to form a pile on the ground in front of the blast site. Blasting is conducted in accordance with product demand and occurs once during most weeks, but occasionally twice in a week. Hanson provides an SMS alert service prior to each blast for many neighbours and community members. Most CRG members are registered for the service and we encourage you to do so by sending an email to community.vic@hanson.com.au or by calling 9274 3700 during business hours.

All blasts are monitored for ground vibration and air pressure, and all results are assessed by the Victorian Government statutory authority, Earth Resources Regulation. This report is then presented to us at every CRG meeting, including a video

of every blast undertaken since the previous CRG meeting.

Persistent comments on the effects of blasting on neighbouring properties compelled the CRG to seek responses to what we saw as rising community angst. We had a lengthy and comprehensive presentation from consulting engineers specialising in blasting design and management, and Hanson and the consulting engineers undertook inspections of several homes located within a kilometre of the quarry boundary. The report was

consistent blasting would damage their homes. To address this concern, Hanson contracted the specialist consultant engineers to provide a further report, this time on the cumulative effects of blasting on properties. The report can be viewed in full on the CRG web page, but the key messages are that “at a maximum of 50 quarry blasts per year, fatigue failure may occur after 718 years”, and “blasting at the Hanson Lysterfield Quarry will not cause permanent ground displacement or damage to houses in the short or long term, either directly or by fatigue failure”.

Blasting at quarries is a controlled and regulated operation. Victorian quarries must comply with regulatory controls for ground vibration, airblast overpressure and the safety of quarry personnel and the community.

We encourage you to read the CRG Meeting Minutes of Meetings 12 and 17 to obtain the information and reports.

presented to the CRG and delivered to each of the respective property owners.

While the presentation and the report provided extensive information, some community members believed that

CONCLUDING COMMENT

While blast vibration is perceptible in areas up to 2km from the Hanson Lysterfield Quarry, residents and building owners should have confidence that **blasting at the Hanson Lysterfield Quarry will not cause permanent ground displacement or damage to houses in the short or long term, either directly or by fatigue failure**, whilst compliance with strict Victorian Government regulation is adhered to by the quarry operators.



Adrian Moore
Principal Engineer

Terrock Pty Ltd



James Richards
Technical Services Manager



Who is Hanson

& what do they do?

Becoming a member of the Hanson Lysterfield Quarry CRG meant that all of us had to learn about who Hanson was and what actually happened at the quarry site. This is what we have learned.

Hanson is part of the global HeidelbergCement group. In Australia, Hanson operates 226 ready mix concrete plants and 75 aggregate operations located in capital cities, major metropolitan areas, regional towns and the remote outback.

The quarry has operated since the early 1980s. The site is a total area of 162.1 hectares, and currently, less than 48% (76.51 hectares) is approved for excavation, and approximately 1.4 million tonnes is processed through the site annually.

Quarrying activity comprises extracting rock, processing it through an onsite crushing plant, then stockpiling the processed stone for sale. The quarry supplies markets in the surrounding southern and eastern suburbs and the CBD with construction materials for use in the concrete and road construction industries.

In the past five years, Hanson has supplied aggregates and concrete to a wide range of local community projects, including:

- more than 30,000 tonnes of aggregate and 4,250m³ of concrete to schools and kindergartens
- over 27,000 tonnes of aggregate and 1,600m³ of concrete to parks and reserves
- nearly 10,000 tonnes to shopping centres
- over 9,000 tonnes of aggregate and 1,000m³ of concrete to retirement villages
- 1,100m³ of concrete to Knox Private Hospital

Materials have also been provided to recent infrastructure projects including upgrades to the Monash Freeway, Thompson Road duplication and Tucker Road, and numerous residential developments including Liliam Estate Clyde and Minta Farm Berwick.

All of these activities are regularly monitored by Earth Resources Regulation and, following introduction of the new legislation in July 2020, will also be monitored by EPA Victoria. Information relevant to major projects are also provided to CRG members in the Operations Report at every meeting.

The Lysterfield Quarry employs 25 full time local staff and supports a casual contractor base of more than 100 from cleaners to heavy diesel mechanics. The onsite transport business employs 52 staff and, annually, there are hundreds more driving contractor vehicles.

Essentially, what we have learned is that Hanson is supported by global specialist expertise and that the Lysterfield Quarry is a well located resource for the State Government's major infrastructure program and for local urban development. Their activity is closely monitored by Victorian government regulatory agencies and the Knox City Council, and Hanson is willing to receive community feedback on their current and future operations.

If you want to learn more, we encourage you to review all the information on the Lysterfield Quarry CRG website at <https://www.hanson.com.au/about-us/regulatory-information/lysterfield-quarry/>

And if you have a specific question you want answered, we encourage you to send an email to community.vic@hanson.com.au.





Quarry Extension

For the past 18 months, CRG members have received presentations from State Government, Knox City Council and Hanson contracted specialist consultants briefing us on the State Government's Extractive Resources Strategy to support the increased major metropolitan infrastructure program. This program is now supported, and will be fast-tracked by the Federal Government's acceleration of infrastructure expenditure to stimulate the economy.

The Victorian Government states that it needs to build 2.2 million new homes as well as upgrade its community infrastructure including its schools, hospitals and transport networks to meet the rapid population growth of metropolitan Melbourne.

A key ingredient for all this new infrastructure currently lies beneath the ground in Victoria – more specifically, in

Lysterfield. Resulting in both the Hanson and Boral quarries being considered one of the State Government's top five strategic resource locations - and will continue to be so for many years to come.

To meet this growing need, Hanson is midway through the process to receive the approval of the State Government and Knox City Council to extend the Lysterfield Quarry's existing extraction limit in the south-west corner of the site.

A quarry extension project update is presented to us at every CRG meeting and our concerns and input have been considered.

There will also be several opportunities throughout the planning process for the community to source information, review studies and documents and provide their comments to both the City of Knox Council and the State Government of Victoria

through the regulator, Earth Resources Regulation. Check the webpage for updates at <https://www.hanson.com.au/about-us/regulatory-information/lysterfield-quarry/>.

Hanson's proposal is to continue to operate the quarry without significantly changing operation methods, including the number of trucks that access the site. Whilst the life of the quarry would be extended, the current 400 metre minimum buffer distance from houses would be maintained. Cross section visualisations produced by specialist consultants demonstrated that there would be no visibility of the extended quarry faces from homes, and, as mentioned, views from Lysterfield Park and Churchill Park are now being considered.

The key studies being undertaken by Hanson to meet the regulatory requirements of the proposed extension include:



**Air
Quality**



**Geo-
technical**



Flora



Fauna



Noise

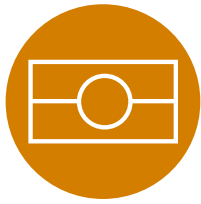


Vibration

LYSTERFIELD QUARRY Community Reference Group

NEWSLETTER

Other assessments being undertaken include:



**Aboriginal
Heritage**



**Buffer
Distances**



**Community
Facilities**



**European
Heritage**



**Fire
Safety**



**Fly
Rock**



**Future Use &
Rehabilitation**



**Ground &
Surface Water**



**Landscape &
Visual Amenity**



**Public
Safety**



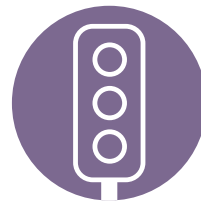
**Public
Infrastructure**



**State, National
Parks &
Crown Land**



Security



Traffic

As CRG members, we want to make sure that its presence (the Quarry) and progress has minimal impact on neighbours and the community.



Hanson's response to stakeholder feedback.



Potential future land use presented by Hanson

Updates on the progress of these studies and assessments are provided at CRG meetings. All studies will be included in the submission to the regulators and will also be available for public viewing and comment.

In addition to the operational expansion, Hanson has offered the City of Knox Council the opportunity to fast track the rehabilitation program and commence construction of a level platform to accommodate potential future sporting facilities in the north-eastern corner of the site facing Wellington Road.

Hanson and Knox City Council have agreed to work together to develop a plan aimed at delivering sporting fields for community use many years earlier than originally planned.

Hillview Park Agistment Centre, a long-term tenant of the site and a popular local equine facility, will be remaining at the Hanson quarry site.

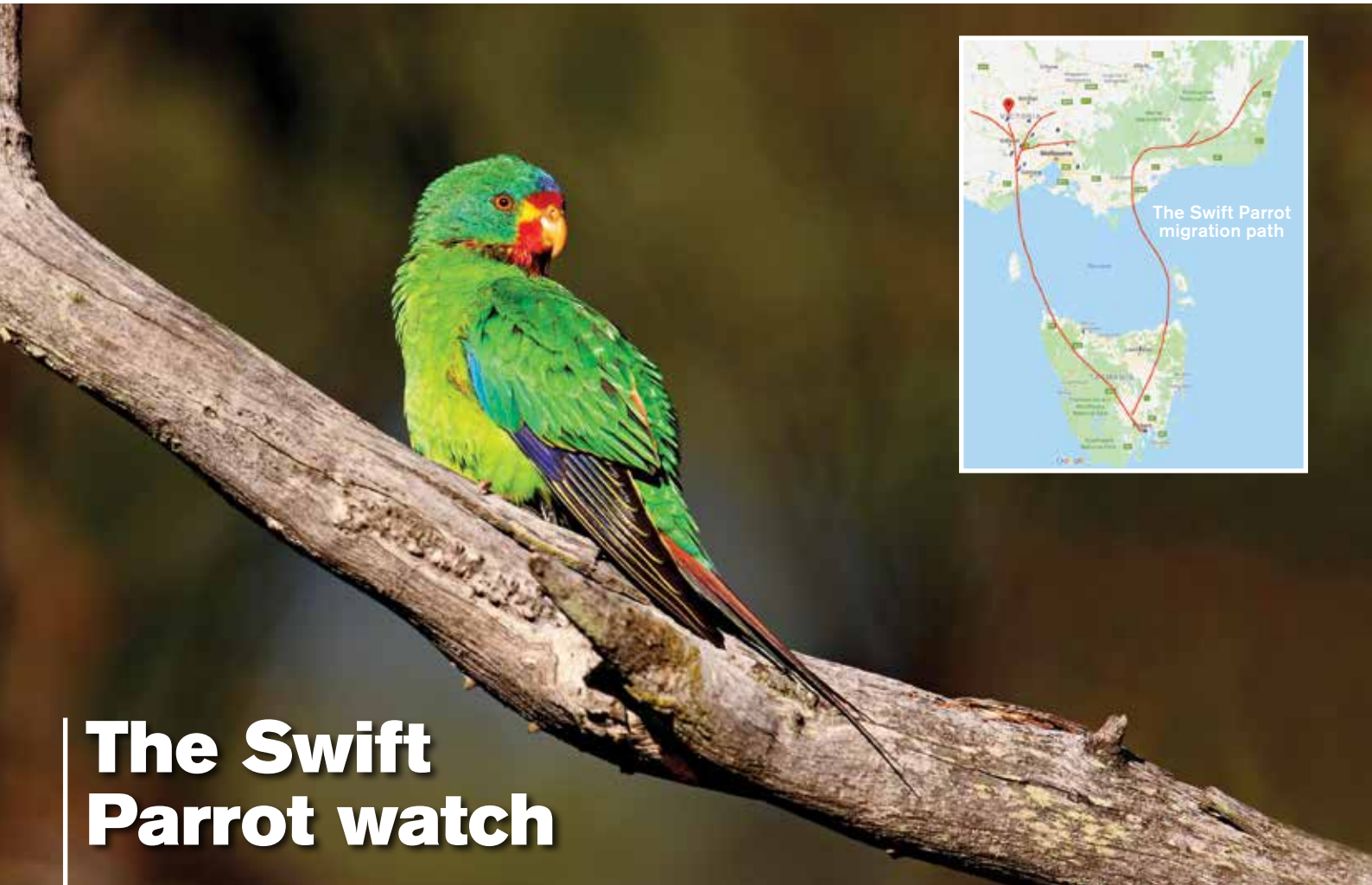
While nobody wants a quarry in their backyard, CRG members recognise that the Hanson Quarry will be operating for many

years to come. So, as CRG members, we want to make sure that its presence and progress has minimal impact on neighbours and the community. Most importantly, we encourage Hanson to respond to our concerns and to add value to community wherever possible.

We encourage you to read the CRG Meeting Minutes of Meeting 12 to obtain the information and reports.

LYSTERFIELD QUARRY : NEWSLETTER

Community Reference Group



The Swift Parrot watch

At a recent meeting, Hanson's Environmental Compliance Manager provided CRG members with information on how Hanson rehabilitates its quarries. In addition to progressive rehabilitation with indigenous planting, rather than waiting until the quarry is closed, Hanson actively plans for the conservation of threatened birds.

We were presented with many examples, nationally and internationally, where Hanson is providing habitats for bird species while sites are operational and into the future. At Lysterfield in particular, they are working to establish a winter feeding area for the Swift Parrot. With approximately 2,000 in the population, the Swift Parrot is listed by the Australian government as critically endangered.

The Swift Parrot is notable as it is one of only a few parrots that migrate across open ocean. Migrating from the summer breeding grounds in Tasmania, they cross the Bass Strait to winter feeding areas in south-eastern mainland Australia.

With approximately 2,000 in the population, the Swift Parrot is listed by the Australian government as critically endangered.

At the Hobart Quarry, nest boxes have been installed. At the Lysterfield Quarry, Hanson plant winter flowering eucalypts such as Ironbarks, Yellow Gum and Yellow Box, and make sure that the prime nectar trees are irrigated. Working with 15 other Hanson sites across four states, Lysterfield contributes to the monitoring of the species migration. Also the Swift Parrot is included in the quarry's Biodiversity Management Plan.

This information sparked the interest of many of us and we are now on Swift Parrot watch.

We encourage you to read the CRG Meeting Minutes of Meeting 19 to obtain the information and reports. www.hanson.com.au/about-us/regulatory-information/lysterfield-quarry/