Minutes – 30 April 2015

Dundowran Quarry

Local Liaison Group Meeting
Dundowran Recreation Hall, Lower Mountain Road, Craignish

Attendees

- Keith Sewell
- Kevin Reilly
- Susan & Lionel Volker

Council
- Cr Rolf Light, Division 5

Boral
- Clare Anderson, Administration Officer, Boral Property Group (Chair)
- Andrew Lyndon, Planning & Development Manager, Boral Property Group (Northern Region)
- Jessica van Soest, HSE Advisor, Boral CM&C (QLD/NT)
- David Hackett, Resource Planning & Development Management, Boral CM&C (QLD/NT)
- Sam Hatchard, Country North Operations Manager, Boral Quarries (QLD/NT)
- Matthew Walker, Dundowran Quarry Manager, Boral Quarries (QLD/NT)
- Jolin Evans, Dundowran Quarry Supervisor, Boral Quarries (QLD/NT)
- Thomas Corr, Project Engineer, Boral Asphalt (Widebay)

Apologies

- David Murray, Fraser Coast Regional Council
- Barry Smith, Contracting Manager, Boral Asphalt (Widebay)
- Elke Stapf, Stakeholder Manager, Boral Property Group (Northern Region)
- Paul West, Regional Manager, Boral Property Group (Northern Region)

Meeting started: 5:10pm

Clare Anderson introduced Sam Hatchard to the liaison group members. Sam Hatchard is the Operations Managers for Country Quarries Queensland.

Clare introduced David Hackett to the members. David is the Manager for Resource Planning and Development National Resources Group.

1. **Action items (from last meeting – 20 November 2014)**

Update on Quarry Development

Andrew Lyndon advised the next stages of development at the Quarry. He advised the extension area has been cleared of vegetation and overburden removal, which has now been finished. The bund along the southern and northern flanks of the extension area have been completed, the bund was constructed using the overburden material that had been removed.

Andrew advised that extraction works have commenced using machines on site to establish the upper benches. Operations are carrying on as normal and at the time of the meeting no dust issues were noted.
Update on progress of rehabilitation work on site

Jessica van Soest provided the group with an update of the rehabilitation works on site. Between the time of the meeting and the previous meeting in November 2014 work had mainly been focused on plating and maintenance of seedlings.

Jessica advised 4470 seedlings had been planted in February 2015 which brought the site total to 5750 seedlings. Jessica provided the group with an aerial image to indicate where the new seedlings had been planted. The planting occurred on the bunds around the site, including the stockpile area and the new extraction area.

Jessica provided the group with a list of the species planted and the quantities of each plant:

<table>
<thead>
<tr>
<th>Common name</th>
<th>Scientific name</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weeping Lilly Pilly</td>
<td>Waterhousia floribunda</td>
<td>150</td>
</tr>
<tr>
<td>Blue Lilly Pilly</td>
<td>Syzygium oleosum</td>
<td>350</td>
</tr>
<tr>
<td>Broad-leaved Paperbark</td>
<td>Melaleuca quinquenervia</td>
<td>150</td>
</tr>
<tr>
<td>Broad-Leaved Palm Lilly</td>
<td>Cordyline petiolaris</td>
<td>350</td>
</tr>
<tr>
<td>Tuckeroo</td>
<td>Cupaniopsis anacardioides</td>
<td>350</td>
</tr>
<tr>
<td>Maidens Wattle</td>
<td>Acacia maidenii</td>
<td>350</td>
</tr>
<tr>
<td>Hickory Wattle</td>
<td>Acacia disparrima</td>
<td>70</td>
</tr>
<tr>
<td>Narrow-leaved ironbark</td>
<td>Eucalyptus crebra</td>
<td>50</td>
</tr>
<tr>
<td>Lemon Scented Gum</td>
<td>Corymbia citriodora</td>
<td>50</td>
</tr>
<tr>
<td>Forest RedGum</td>
<td>Eucalyptus Tereticornis</td>
<td>250</td>
</tr>
<tr>
<td>Broad-leaved Paperbark</td>
<td>Melaleuca quinquenervia</td>
<td>250</td>
</tr>
<tr>
<td>Native Mulberry</td>
<td>Pipturus argenteus</td>
<td>150</td>
</tr>
<tr>
<td>Brown Macaranga</td>
<td>Macaranga involucrata</td>
<td>650</td>
</tr>
<tr>
<td>Lomandra</td>
<td>Lomandra longifolia</td>
<td>650</td>
</tr>
<tr>
<td>Blady Grass</td>
<td>Imperata cylindrica</td>
<td>650</td>
</tr>
</tbody>
</table>

**TOTAL 4470**

Jessica advised that the success rates had been lower than expected but this issue was being managed with the contractor NatureCall. From the review appropriate actions can be put in place to improve success rates. Jessica added that natural regeneration had been occurring in the vine forest.

Jessica advised that weeding had occurred in the rehabilitation areas and around the seedlings on the bund walls. The main species of weeds being targeted were lantana, spear thistle, stinking roger, scotch thistle and tabaco trees.

2. Site Geology

David Hackett was a guest speaker who provided a presentation on the site geology. David advised that Dundowran is hosted in an Olivine Basalt flow which is columnar. The material is mostly hard and crystalline with columns that have five to eight sides depending on how they have cooled. The upper layer when exposed is often layered looks like paving stones. The deeper layers are tall columns or pseudo columns.

David advised that the basalt exists in a line of small hills extending from just north of the quarry to the Torbanlea road to the south-west at Takura, other basalts exists at Burrum Heads and near the Maryborough–Hervey Bay road. Two basalt flows exist on the site, with only one being extracted.

David discussed that two possible emplacement options have been postulated.
- Sheet flow eroded over the intervening years resulting in the ridge.
- Older river channel filled with basalt eroded to leave the “Channel behind”

David went on to inform the group regarding the olivine basalt details for the quarry. David advised that it is 300 meters wide. The base of the quarry pit is at approximately 17 m rl as quality is poor below this level.
David discussed the different operation issues faced by the quarry advising that mechanical extraction is impractical due to the hardness and “locked in” nature of the deposit. David added that due to the site being columnar basalt it can lead to some loss of blasting and fragmentation energy due to columns and joint surfaces. Energy does not transmit across joints easily resulting in less than ideal impact of blasting energy. Load and haul to primary crusher then common type of multiple stage crushing and screening to produce a range of construction products.

1. **Current Local Issues**

**Local Residents**
- No issues raised.

**Council**
- No issues raised.

4. **Operational Issues**
- No issues raised.

**Meeting closed 5:40pm**

*Next Meeting: 5 November 2015*

**Action Items**

<table>
<thead>
<tr>
<th>Owner</th>
<th>Task</th>
<th>Actioned by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrew Lyndon</td>
<td>Update on Quarry Development</td>
<td>Next meeting</td>
</tr>
<tr>
<td>Jessica van Soest</td>
<td>Update on progress of rehabilitation work on site</td>
<td>Next meeting</td>
</tr>
</tbody>
</table>