



6 March 2022

Ref: 2103.02\_03

Department of Planning and Environment (DPE)

**Environmental Representative (ER) Quarterly Report**  
**Project: SSD-10448 – Aspect Industrial Estate**  
**Period: December 2022 to February 2023**

Condition C31(k) of the Conditions of Approval for the Project requires the ER to prepare and submit to the Secretary and other relevant regulatory agencies, for information, an Environmental Representative Quarterly Report.

The attached report details the activities undertaken by the ER for the nominated period, in accordance with the Environmental Representative Protocol, May 2020.

Yours sincerely,

Maurice Pignatelli  
*Environmental Representative for Aspect Industrial Estate*  
*OptimE Pty Ltd*



## Environmental Representative (ER) Quarterly Report

**Project: SSD-10448 – Aspect Industrial Estate**

**Period: December 2022 to December 2023**

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<b>Key construction activities</b>	Construction works during the reporting period included: <ul style="list-style-type: none"><li>• Bulk earthworks across the entire site were ongoing</li><li>• Temporary access to site off Mamre Road</li><li>• Electrical Works along Bakers Lane</li><li>• Contractor for warehouse at Lot 1 (Richard Crookes (RC)) has mobilised on site.</li></ul>
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<b>Upcoming construction activities</b>	<ul style="list-style-type: none"><li>• Construction of access roads</li><li>• Continuation of earthworks in future Lots</li><li>• Construction of a warehouse at Lot 1</li></ul>
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<b>ER Activities (site inspections and audits)</b>	<ul style="list-style-type: none"><li>• 5/12/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 12/12/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 19/12/22 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 1/1/23 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 16/1/23 Site inspection with ER, Mirvac, WEM (B Bracken)</li><li>• 23/1/23 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 30/1/23 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 6/2/23 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 13/2/23 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 20/2/23 Site inspection with ER, Mirvac, WEM (M Pignatelli)</li><li>• 27/2/23 Site inspection with ER, Mirvac, WEM and RC (M Pignatelli)</li></ul>
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<b>Complaints received by project</b>	Two (2) complaints were recorded during the reporting period. Both were related to dust and corrective actions were taken to minimise dust impacts.
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<b>Environmental Incidents</b>	<p>Incidents are defined by the Approval as “<i>An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not cause non-compliance</i>”.</p> <p>Mirvac have been efficient in informing the ER of incidents as they arise however the Incident register was not available at the time of drafting this report. Incident data will be provided for the next reporting period.</p>
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<b>Environmental non-compliances</b>	Mirvac have been efficient in informing the ER of non-compliances as they arise however the non-compliance register was not available at the time of drafting this report. Non-compliance data will be provided for the next reporting period.
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<b>Lessons learnt/ Opportunities for Improvement</b>	NIL
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<b>Changes to Project Plans/ Approvals</b>	Nil								
<b>Meetings attended by ER</b>	<ul style="list-style-type: none"> <li>Refer to site inspections</li> <li>Mirvac Aspect Industrial Estate - Community Consultation Meeting dated 9/12/23</li> </ul>								
<b>Documents received by ER for review</b>	<ul style="list-style-type: none"> <li>AIE complaints register summary sheet (December 2023 to February 2023)</li> <li>WEM Investigation form: Reference SI-000403 and advice from CER</li> <li>Mirvac letter to DPE dated 31/1/23 - Incident report SSD-10448-PA-71</li> <li>DPE letter to Mirvac dated 3/2/23 - Incident report - Intersection signage - 11 Jan 23 (SSD-10448), Aspect Industrial Estate - 788-882 Mamre Road, Kemps Creek NSW 2178</li> <li>WEM Christmas and Inclement Weather Shutdown Action Plan dated 19/12/23</li> <li>Notification of Dust complaint dated 8/12/23</li> <li>DPE Warning letter BREACH OF SECTION 4.2(1)(b) of the EPA ACT 1979 dated 6/12/23 (Ref: 51924970)</li> <li>WEM – AIE turbidity- suspended solids correlation curve dated 3/2/23</li> <li>SSD-10448: Aspect Industrial Estate – Approved Project ER - Development Conditions Compliance Statement – Lead in Electrical Construction dated 8/12/22</li> </ul>								
<b>Documents issued by ER</b>	<ul style="list-style-type: none"> <li>ER inspection reports (weekly)</li> <li>2103.02 AIE Quarterly Report September to November 2022</li> <li>ER response to Development Conditions Compliance Statement – Lead in Electrical Construction dated 8/12/22.</li> </ul>								
<b>Requests or CARs issued by ER</b>	<p>Nil non-compliance was raised during the reporting period:</p> <p>NIL</p> <p>Thirteen (13) corrective actions were raised during the reporting period as detailed below. All corrective action were progressively closed out by WEM, although improved timeliness is required.</p> <table border="1"> <tr> <td>CA 221121-01</td> <td>Document the oil spill as an incident/corrective action in accordance with your management plan. Maintain a record of the clean-up.</td> </tr> <tr> <td>CA 221212-03</td> <td>Toolbox plant operators on when to flag to management that conditions on site are generating dust that may be migrating off site.</td> </tr> <tr> <td>CA 221212-01</td> <td>Ensure that erosion and sediment control in accordance with the PESCP are maintained / installed on site before works commence, as required by the CEMP.</td> </tr> <tr> <td>CA 221212-02</td> <td>Maintain a high level of surveillance for dust across the site, particularly during windy conditions; and implement trigger and response plan as detailed in Table 11 of the AQMP.</td> </tr> </table>	CA 221121-01	Document the oil spill as an incident/corrective action in accordance with your management plan. Maintain a record of the clean-up.	CA 221212-03	Toolbox plant operators on when to flag to management that conditions on site are generating dust that may be migrating off site.	CA 221212-01	Ensure that erosion and sediment control in accordance with the PESCP are maintained / installed on site before works commence, as required by the CEMP.	CA 221212-02	Maintain a high level of surveillance for dust across the site, particularly during windy conditions; and implement trigger and response plan as detailed in Table 11 of the AQMP.
CA 221121-01	Document the oil spill as an incident/corrective action in accordance with your management plan. Maintain a record of the clean-up.								
CA 221212-03	Toolbox plant operators on when to flag to management that conditions on site are generating dust that may be migrating off site.								
CA 221212-01	Ensure that erosion and sediment control in accordance with the PESCP are maintained / installed on site before works commence, as required by the CEMP.								
CA 221212-02	Maintain a high level of surveillance for dust across the site, particularly during windy conditions; and implement trigger and response plan as detailed in Table 11 of the AQMP.								

CA 230116-01	Remove the un-banded oil containers and place in a protected banded area accordingly. Remove the stained soil material and dispose of appropriately, ensuring material disposal is tracked and relevant documentation is retained. Document the oil spill as an incident / corrective action in accordance with WEM management plans.
CA_230123-01	Remove sediment from the dirty water channel and reinstate its capacity to convey dirty water to Pond 1.
CA 230130-02	Store hydrocarbon contaminated materials within impervious containers on site. The containers should also be covered or under cover to prevent ingress of rainwater.
CA 230130-01	Corrective action 230130-01: To control this ongoing hydrocarbon and chemical storage issue: <ul style="list-style-type: none"> <li>a) Provide secondary containment to hydrocarbon and chemical substances on site.</li> <li>b) Relocate all hydrocarbon and chemical substances to the site compound, where feasible, to minimise potential for heavy vehicle impact.</li> <li>c) Provide a <u>robust barrier</u> or <u>physical buffer</u> and bunting between trafficable areas and hydrocarbon and chemical storage on site, to minimise potential for heavy vehicle impact.</li> <li>d) Provide refresher training to all site personnel on appropriate hydrocarbon and chemical management on site.</li> </ul>
CA230206-01	If the Sediment basins are to be used as water storages, consult with the WEM CPESC to document a management strategy to ensure that the design storage volume is maintained at all times.
CA230206-02	Install a berm at the top of the embankment (at PAD 8) to control erosion of the embankment and inundating the dirty water channel along the boundary.
CA230213-02:	Clean-out and reinstate the capacity of the dirty water channel along the western boundary of the site.
CA230220-01:	Construct a spillway to SB2 as per the ESCP, as raised by IO230130-01.
CA230227-01:	Establish a supervision regime for the Bakers Lane Lead in Electrical work to ensure compliance with the Development Conditions Compliance Statement dated 8/12/22 and address the following as a priority: <ul style="list-style-type: none"> <li>a) All spoil stockpiles are to be placed on a geofabric bed and have sediment fences around their perimeters.</li> <li>b) Chemical substances must be stored in accordance with the EPA secondary containment guideline and spill kits must be provided adjacent to plant with hydraulic components.</li> <li>c) Clean-up any discharge of wastewater adjacent to the site.</li> <li>d) Provide controls for containment of mud around dirty activities to prevent the spread of mud adjacent to Bakers Lane.</li> <li>e) Ensure work activities do not coincide with school pick-up and drop off periods.</li> </ul>

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**Review of monitoring results by ER**

Environmental monitoring on the site is undertaken by the Bulk Earthworks Contractor, Western Earth Moving (WEM) including:

- 2022 November CER Dust Monitoring report
  - 2022 November CER Noise Monitoring report
  - 2022 December CER Dust Monitoring report
  - 2022 December CER Noise Monitoring report
  - 2023 January CER Dust Monitoring report
  - 2023 January CER Noise Monitoring report
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**Real time noise monitoring**

WEM established a real time noise monitoring network (SiteHive) with six locations around the site and have been running continuously during the reporting period.

Average LAeq levels at the northern, eastern and southern boundary of the site (L01, L02, L03, L04 and L06) were below the day NML when construction works occurred; average LAeq levels at the western boundary (L05) marginally exceeded the day NML, however this location is dominated by road traffic noise. During the out of hours work, LAeq(15-minute) measurements exceeding the Night NML were recorded at L05 on multiple occasions (+100). All of these measurements were reviewed and it was confirmed they were attributable to passing road traffic. None of the exceedances were associated with the out of hour works.

The WEM CER concluded that the results indicate that the daytime noise levels (when construction activities occur) are at an acceptable noise level. The evening and night time averages are consistently above the evening and night period NML at all monitoring locations, however none of the exceedances are attributable to the project.

**Attended noise monitoring**

WEM provided noise monitoring readings (3 events) for night works undertaken on 9/1/23 however no criteria was provided to assess the data. The ER will work with WEM to ensure that future data is provided in a manner that can be assessed.

**Vibration**

No vibration monitoring was undertaken within the reporting period.

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**Dust Deposition**

A network of dust deposition gauges has been established to monitor for nuisance dust as NSW EPA Criterion of Nuisance Dust Deposition. Results for the following months were reviewed during the reporting period:

- For the period 1 November 2022 to 2 December 2022, dust deposition results were below the NSW EPA standard criterion of 4 g/m<sup>2</sup>/month at all locations.
  - For the period 2 November 2022 to 4 January 2023, dust deposition results were below the NSW EPA standard criterion of 4 g/m<sup>2</sup>/month at all locations.
  - For January 2023, dust deposition results were not available at the time of drafting this report.
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## Particulate matter

WEM have established a real time dust monitoring network (SiteHive) with six unattended air particulate monitoring devices located around the site and have been running continuously during the reporting period. The SiteHive devices measure PM<sub>10</sub> and PM<sub>2.5</sub> (ug/m<sup>3</sup>) in 15-minute increments 24hrs a day. The data is relayed to an online portal and provides notifications when the 1hr averaging period dust criteria (190um/m<sup>3</sup>) is exceeded, allowing WEM to investigate and mitigate the causes of elevated dust generation in real time.

It is noted that the site hives do report false exceedances when the monitors are affected by condensation in the evening and early mornings which trigger alerts for the 15-minute and hourly averages. In these instances, each event is individually reviewed to determine whether the alert is genuine. In instances where the alert is due to condensation (which is visible from the image taken by the system), the alert is discounted. The following results for the reporting period do not include the false exceedances caused by condensation:

- During November 2022, four days were recorded with exceedances of PM10 24-hr average criterion of 50 µg/m<sup>3</sup>, due to construction activities. The exceedances were between 3- 94 µg/m<sup>3</sup> above the 24-hr criterion.
- During December 2022, there were 6 events where real-time monitoring indicated an exceedance above the PM10 24-hr average criterion of 50 µg/m<sup>3</sup>. The exceedances were between 2-44 µg/m<sup>3</sup> above the 24-hr criterion.
- During January 2023, there were no events where real-time monitoring indicated an exceedance above the PM10 and PM2.5 24-hr average criteria.

During November and December 2022, active work zones including the ripping of rock with dozers followed by loading of dump trucks (moxys) with excavators to transport the spoil to the fill areas on the northern side of the site (Lot 1, 2 and 3). Excavation of the deep rock material contributed to dust generation. WEM implemented controls to minimise the generation of dust at the boundaries including increasing the use of water carts to a total of four, scheduling work away from site boundaries where off-site dust was observed and cessation of work when other controls were not effective.

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## Photographs

### WEM - Sediment Basins

Sediment basins functioning in accordance with the ESCP (Photo 27/2/23).



### WEM - Dust mitigation

Water carts were observed on site wetting haul roads. Localised dust was observed around active plant however dust was not observed leaving the site (Photo 6/2/23)



### WEM - New driveway entrance

Night works were undertaken for the new entrance. Erosion and sediment controls for works related to the new entrance continue to be maintained (Photo 27/2/23)



### WEM - Bakers Lane

Electrical work along Bakers Lane including directional drilling to minimise surface disturbance. (Photo 27/2/23)



### Richard Crookes (RC) – Pad 1

Contractor (RC) for the construction of the warehouse on Pad 1 has mobilised. Perimeter drains with checks and a sediment pond were installed by WEM prior to handover of the site. The ATF fencing was being installed by RC.



End.