

MOOREBANK PRECINCT WEST (SSD 7709) MOOREBANK PRECINCT WEST (SSD 10431)

Stage 2 and Stage 3: Summary of Monitoring Results

January – December 2021

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Acronyms

Acronym	Meaning
CAQMP	Construction Air Quality Management Plan
CEMP	Construction Environmental Management Plan
CFFMP	Construction Flora and Fauna Management Plan
CNVMP	Construction Noise and Vibration Management Plan
CoC	Conditions of Consent
CSWMP	Construction Soil and Water Management Plan
DPE	Department of Planning and Environment (formerly the Department of Planning, Industry and Environment)
EPA	NSW Environment Protection Authority
EPL	Environment Protection Licence
ESC	Erosion and Sediment Control
IMT	Multi-purpose intermodal terminal
IPC	NSW Independent Planning Commission (formerly the NSW Planning Assessment Commission)
MLP	Moorebank Logistics Park
MPE	Moorebank Precinct East
MPW	Moorebank Precinct West
NTU	Nephelometric Turbidity unit
NMLs	Noise Management Levels
OSD	Onsite Detention
REMMs	Revised Environmental Mitigation Measures
SIMTA	Sydney Intermodal Terminal Alliance
SSD	State significant development
SSFL	Southern Sydney Freight Line
TSS	Total suspended solids

1. Introduction

1.1 Background

This Moorebank Precinct West (MPW) Stage 2 and Stage 3 Summary of Monitoring Results Report (this Report) has been prepared by Aspect Environmental Pty Limited on behalf of Sydney Intermodal Terminal Alliance (SIMTA) for the 2021 reporting period. This report has been prepared in accordance with condition of consent (CoC) C21 of the MPW Stage 2 SSD 7709 development consent dated 11 November 2019, as modified and CoC A38 of the MPW Stage 3 SSD 10431 development consent dated 11 May 2021.

1.2 Moorebank Logistics Park Overview

In 2017, SIMTA and Moorebank Intermodal Company entered into an agreement to develop the Moorebank Precinct East (MPE) MPE Project and MPW Project into the Moorebank Logistics Park (MLP).

When completed, the MLP will move 1.55 million shipping containers annually by rail instead of road. It will also feature Australia's largest purpose-built warehouse and distribution precinct serviced by the latest automated technology which will see driverless shuttle carriers collect and transport containers around the precinct to be processed, unpacked and stored on site prior to distribution.

Construction activities are underway across the MLP, for both the MPW and MPE developments.

1.3 The MPW Stage 2 Development

SIMTA received consent for the construction and operation of Stage 2 of the MPW Project on 11 November 2019, being the second stage of development under the MPW Concept Approval (SSD 5066, as modified). The consent instrument is Development Consent SSD 7709.

SSD 7709 has been subject to the following modifications:

- MPW Stage 2 Modification 1 (SSD 7709- MOD 1), approved on 24 December 2020 by NSW Independent Planning Commission (IPC) and
- MPW Stage 2 Modification 2 (SSD 7709- MOD 2), approved on 30 September 2021 by IPC.

Environmental monitoring and reporting, and compliance reporting took place in accordance with the consent and can be found on the SIMTA Website (www.simta.com.au).

The SSD 7709 development consent (as modified) enables the construction and operation of a multi-purpose intermodal terminal (IMT) facility, rail link connection, warehousing, freight village, and upgrades to the Moorebank Avenue and Anzac Road intersection at Moorebank in western Sydney. Construction activities as part of the Development commenced in December 2020.

1.4 The MPW Stage 3 Development

SIMTA received approval from IPC for the subdivision and construction of MPW Stage 3 (SSD 10431) on 11 May 2021.

The MPW Stage 3 Project involves the progressive subdivision of the MPW Site into nine allotments, importation of unconsolidated clean fill for compaction up to final land level and structural fill for warehouse pad completion, establishment of a temporary works compound area in the southern portion of the MPW Site, and ancillary development. The MPW Stage 3 Site is located wholly within the MPW Stage 2 construction footprint in the southern portion of the site. Construction activities as part of the Development commenced in November 2021.

1.5 Purpose and Scope

This Report has been prepared to address:

CoC C21 of the MPW Stage 2 SSD 7709 Development Consent that requires:
At least 48 hours before the commencement of construction until the completion of all works under this consent the Applicant must:

vi. Regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;

vii. A comprehensive summary of the monitoring results of the development, reported in accordance with the specification in any conditions of this consent, or any approved plans and programs.

- CoC A38 of the MPW Stage 3 SSD 10431 Development Consent that requires:

At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Planning Secretary, the Applicant must:

iv. Regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent;

v. A comprehensive summary of the monitoring results of the development, reported in accordance with the specification in any conditions of this consent, or any approved plans and programs.

This Report satisfies the requirements of CoC C21(a)(vi) and (vii) of SSD 7709 and CoC A38 (a)(iv) and (v) of SSD 10431 by providing a summary of the environmental monitoring, undertaken under CoC C20 (SSD 7709) and CoC A37 (SSD 10431):

Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act.

2. Environmental Performance

This section provides a summary of the monitoring results and associated environmental outcomes for the reported period, against the requirements of the relevant statutory requirements, limits or performance measures/criteria and requirements of any plan or program required under the SSD 7709 and SSD 10431 development consent.

2.1 Air Quality and Dust

Table 1 provides the air quality requirements defined by conditions on consent and results for reporting period.

Table 1: Air quality results

Monitoring Type/ Trigger Levels/ Requirements	Source/ Methodology	Results
Compliance Monitoring: Must ensure dust generated by the development do not cause exceedance of the following criteria at private property not associated with the development: <ul style="list-style-type: none"> (a) 2g/m²/month maximum increase in deposited dust level; and (b) 4g/m²/month maximum deposited dust level. 	CoC B46 (SSD 7709) CoC C17 (SSD 10431) MPW Dust deposition gauges	12-month average of deposited dust were recorded below the 4g/m ² /month.

2.2 Water Quality

Table 2 provides the water quality requirements defined by the Environment Protection Licence (EPL) and Construction Soil and Water Management Plan (CSWMP) and results for the reporting period.

Table 2: Water Quality Monitoring Requirements and Results

Monitoring Type/ Trigger Levels/ Requirements	Source/ Methodology	Results
<p>EPL 21054 discharge criteria:</p> <ul style="list-style-type: none"> pH: 6.5-8.5 Turbidity <25 NTU TSS <50 mg/L PFOS 0.13 µg/L PFHxS 2 µg/L PFOA 10 µg/L PFOS and PFHxS total 2 µg/L 	<p>EPL L2.4:</p> <p>Monitoring prior to discharge or basin specification are exceeded</p>	<p>Required monitoring were undertaken and results showed 2 exceedances of EPL discharge criteria at discharge point (DP) 3.</p> <p>Uncontrolled water discharge occurred twice at DP3. A 320 mm rainfall event in the period 19-20 March 2021 and 64 mm rainfall event in the period 24-25 August caused the uncontrolled water discharges. Laboratory results identified that EPL discharge criteria had been exceeded for TSS and turbidity. Reports were provided to the EPA on the 26 March and 3 September and the EPA advised no further action was required.</p>
<p>Water discharge performance:</p> <ul style="list-style-type: none"> - Rainfall data - Water quality data - Dates of rainfall - Dates of sampling, results - Dates of release. 	<p>Section 3.6 Construction Soil and Water Management Plan (CSWMP):</p> <p>Bi-monthly monitoring</p>	<p>Weather conditions were monitored, sampling was undertaken, and discharge permits were issued as necessary.</p>
<p>Site inspection of every sediment control device includes:</p> <ul style="list-style-type: none"> - Condition and maintenance requirements of each sediment control device and - Volume of sediment removed from each sediment retention system where applicable - Sediment disposal location. 	<p>Section 3.6 CSWMP:</p> <p>Weekly and post rainfall event monitoring</p>	<p>In accordance with CoC B32 (SSD 7709), monthly site inspections were undertaken by a Certified Professional in Erosion and Sediment Control to report on the implementation of the CSWMP and provide improvement recommendations. Erosion and Sediment Control (ESC) inspections were also conducted pre and post rain events and weekly to verify controls were in place and effective.</p> <p>Overall sediment controls were effective, free of excessive sediment deposition and batters had appropriate controls in place. No non-conformances were identified during the period and erosion and sediment controls were consistent with the approved CSWMP and suitable to manage ESC risk.</p>

2.3 Noise and Vibration

Table 3 provides noise and vibration monitoring requirements defined by the Construction Noise and Vibration Management Plan (CNVMP) and results for the reporting period.

Table 3: Noise and Vibration Monitoring Requirements and Results

Monitoring Type/ Trigger Levels/ Requirements	Source/ Methodology	Results
Construction noise and vibration management levels	Section 4.3 CNVMP Monthly monitoring reports	Results of noise and vibration monitoring were summarised in monthly reports with no non-conformances identified.
Continuous vibration monitoring for construction works within 100 m of the relevant ABB building.	Sections 4.4.6.1 CNVMP	Vibration and attended noise monitoring was conducted for works within 50 m of the ABB boundary. Results identified no vibration impacts and noise levels were in accordance with the approved levels defined in the CNVMP.
Continuous vibration monitoring construction works within 100 m of Kitchener House	Sections 4.4.6.1 CNVMP	N/A no work was conducted with in the vicinity of Kitchener House.
Attended noise measurements within 28 days of significant equipment arriving on site to establish the actual noise levels and to confirm that the operating levels comply with table 30 CNVMP.	Sections 5.1.1 CNVMP	The Project engaged an acoustic consultant and completed the required assessment on 18 October 2021. All results were compliant with the CNVMP requirements.
Attended community noise monitoring	Sections 5.1.2 CNVMP	Following the receipt of a community noise complaint and in accordance with the CNVMP, attended noise monitoring was completed. The construction noise levels during the measurement period were below the project construction noise management levels at all nearby noise sensitive receiver locations. No additional review of construction mitigation and management measures from these construction works was required.

2.4 Traffic

Table 4 provides traffic monitoring requirements defined by the Construction Traffic and Access Management Plan (CTAMP) and results for the reporting period.

Table 4: Traffic Monitoring Requirements and Results

Monitoring Type/ Trigger Levels/ Requirements	Source/ Methodology	Results
Monitoring incident/complaints for: <ul style="list-style-type: none"> - Road Safety - Network efficiency - Heavy vehicle route plan - Access and parking arrangement - Traffic on Moorebank Avenue during peak period 	Section 4-1 CTAMP Bi-monthly Complaints Register Incident Register Contractor Vehicle Tracking Report	No incident and/or complaint was registered.

2.5 Biodiversity

Table 5 provides biodiversity monitoring requirements defined by the Construction Flora and Fauna Management Plan (CFFMP) and Koala Management Plans and the results for the reporting period.

Table 5: Biodiversity Monitoring

Monitoring Type/ Trigger Levels/ Requirements	Source/ Methodology/ Frequency	Results
Nest box monitoring in compliance with Nest Box Monitoring Strategy (NBS) - Annually during spring	Section 3.2.4 CFFMP/ CoC D21(d)(ii)(b) and Revised Environmental Mitigation Measures (REMM) 6AA under MPW Concept Plan Development Consent (SSD 5066).	2021 annual nest box monitoring was conducted in spring. The report was not finalised at the time this report was being prepared.

Monitoring Type/ Trigger Levels/ Requirements	Source/ Methodology/ Frequency	Results
<p>Inspect the delineation of “NO-GO” areas to ensure that the clearing boundary is intact and clearly visible</p> <p>Inspect areas immediately adjoining the clearing boundary to ensure no material stockpiling, plant or equipment storage is located within a “NO-GO” area</p>	<p>Section 4.1 CFFMP</p> <p>Daily monitoring by Site Supervisor</p>	<p>Daily site inspections were conducted that identified minor repairs to flagging no-go areas. Flagging was repaired and the action closed out.</p>
<p>Inspection of sediment control measures (sediment fencing) to ensure all measures are intact and functioning properly, to avoid indirect impacts on adjoining areas</p>	<p>Section 4.1 CFFMP</p> <p>Weekly, and as soon as practical following rainfall monitoring by Contractor’s EM/ Site Supervisor</p>	<p>Weekly and wet weather inspections were carried out. Basins and swales were operating effectively.</p>
<p>Inspection of cleared and disturbed areas, to confirm that appropriate stabilisation measures have been implemented.</p> <p>Inspection of cleared and disturbed areas, to identify the presence of establishing weeds</p>	<p>Section 4.1 CFFMP</p> <p>Weekly monitoring by Contractor’s EM</p>	<p>Weekly inspections were conducted that identified minor weeds outbreaks on stockpiles. Weeds were treated and removed periodically.</p> <p>Long term stockpiles were stabilised.</p>
<p>Inspect Project site to determine weeds, vermin and pest species are not present in sufficient numbers to pose an environmental hazard, or cause the loss of amenity in the surrounding area</p>	<p>Section 4.1 CFFMP</p> <p>No less than every three months monitoring by Contractor’s EM</p>	<p>Quarterly inspections were completed. No significant numbers were identified.</p>
<p>Inspection of macroinvertebrate communities undertaken upstream and downstream of the proposed impact at the Georges River Bridge and reference locations to assist identify any changes in aquatic communities</p>	<p>Section 4.1 CFFMP</p> <p>Prior to, during and following construction monitoring by Contractor’s EM</p>	<p>Sampling took place on the 13 April 2021. A total of 10 family groups were collected across all monitoring locations. The family groups ranged from tolerant to sensitive species. The abundance of animals collected was relatively low, which may be associated with heavy rains (299.6mm in the two weeks prior to sampling).</p>

Monitoring Type/ Trigger Levels/ Requirements	Source/ Methodology/ Frequency	Results
Monitoring Bootland and Moorebank Offset	Section 9.1 Koala Management Plan	2020 spring monitoring was conducted. The report was not finalised at the time of drafting this report.
Habitat monitoring	Section 9.1.3 Koala Management Plan	2020 spring monitoring was conducted. The report was not finalised at the time of drafting this report.

2.6 Heritage

No unexpected finds were identified in the reporting period.

2.7 Community Engagement

The following community engagement activities were completed during the reporting period:

- The Moorebank Intermodal website (<https://simta.com.au/>) was updated with relevant project documentation, including the Construction Environmental Management Plan (CEMP), associated Sub-plans and monitoring results.
- Complaints and enquiries were managed via an independent contractor and details were recorded in a community complaint register, which is available on the website.
- Three newsletters were published during the reporting period, in April 2021, October 2021 and December 2021. The newsletters were posted to residents and uploaded to the Project website.
- The Community Consultative Committee met on four occasions during the reporting period, however these meetings were in a virtual format due to the ongoing COVID-19 pandemic. The Community Consultative Committee meetings cover the entire MLP precinct and meeting minutes are publicly available on the SIMTA website.

2.8 Community Complaints

The summary of the community complaints received, and the actions completed are available on the SIMTA Website (www.simta.com.au).

3. Non-Compliances

There were three non-compliances during the reporting period (Table 6).

Table 6: Non-compliances Identified in the Reporting Period

CoC Ref	Detail	Proposed or Completed Action	Status
B43 (SSD 7709)	Stockpiles generated under MPW2 were being maintained as per MPW1 consent conditions.	The report set out a process to manage stockpiles going forward based on the requirements of their consent of origin. B43 was modified 30 September 2021. This allows for geotechnical advice regarding batter slope.	Closed
B138 (SSD 7709)	Noise assessment for mechanical plant and other noisy equipment had not been submitted to the DPE prior to the commencement of construction of the JN Warehouse.	An acoustic consultant was engaged to conduct the noise assessment and the completed assessment was submitted to DPE on 18 October 2021. DPE advised no further comment on 15 December 2021.	Closed
A3 (SSD 7709)	Precast stormwater pipes were stored within the site boundary but outside the construction boundary.	The pipes were relocated to inside the construction boundary and the disturbed area was reinstated.	Closed
C1 (SSD 10431)	The site notices do not present the hours of work.	Signage will be updated to include approved hours of work.	Pending

4. Statement of Compliance

In accordance with CoC C21(a) (vi) and (vii) of the MPW Stage 2 SSD 7709 Development Consent, and CoC A38 (a)(iv) and (v) of the MPW Stage 3 SSD 10431 Development Consent, SIMTA must review the environmental performance of the development and make the report publicly available on its website on a regular basis.

This Summary of Monitoring Results has been prepared to address the requirements of CoC C21(a) (vi) and (vii) (SSD 7709) and CoC A38 (a)(iv) and (v) (SSD 10431) and has provided a comprehensive summary of the monitoring results of the development. The report is prepared in accordance with the CoC C20 (SSD 7709) and CoC A37 (SSD 10431) and reporting requirements under approved plans and programs.

The overall assessment of environmental performance for this reporting period demonstrated compliance with the relevant development conditions and commitments.

Additional details regarding the environmental performance of the MPW Stage 2 and Stage 3 developments are provided in the compliance reports in accordance with CoC C14 (SSD 7709) and CoC A47-A49 (SSD 10431), which are available on the SIMTA website (www.simta.com.au).