ENVIRONMENTAL EARTH SCIENCES
CONTAMINATION RESOLVED

SIX MONTHLY PERFORMANCE AUDIT, STAGE 1 IVANHOE ESTATE, MACQUARIE PARK, NSW

FRASERS PROPERTY IVANHOE PTY LTD

13 JUNE 2022
122038
VERSION 1

ENVIRONMENTAL EARTH SCIENCES
CONTAMINATION RESOLVED

13 June 2022

Frasers Property Ivanhoe Pty Ltd
Level 2
1C Homebush Bay Drive
Rhodes NSW 2138

Attention: **Chris Koukoutaris**
Senior Development Manager

Environmental management system (EMS) audit at Stage 1 Ivanhoe Estate, Macquarie Park, NSW

Please find enclosed a copy of our report entitled as above. We appreciate the opportunity to undertake this next round of audit work for you. Should you have any queries, please do not hesitate to contact us on (02) 9922 1777.

For and on behalf of
Environmental Earth Sciences NSW

Project Manager / Author
Karin Azzam
Environmental Scientist

Project Director
Chris Newland
Principal

Technical Reviewer
Mark Stuckey
Senior Principal / Certified Professional Soil Scientist, Contaminated Site Assessment and Management (CPSS CSAM)

122038_Six-monthly Audit_V1

Version control

Issue	Date	Author [1] / Update [2] / Review [3]	Signed
V0	31 May 2022	Karin Azzam [1] / Chris Newland [2] / Mark Stuckey [3]	----
V1	13 June 2022	Karin Azzam [1] / Chris Newland [2] / Mark Stuckey [3]	

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1 INTRODUCTION

1.1 Requirement

Environmental Earth Sciences NSW was engaged by Frasers Property Australia (Frasers) to conduct a six-monthly performance audit of the project environmental management system (EMS) for part of Stage 1 of construction works at Ivanhoe Estate, Macquarie Park, NSW.

The work was completed in accordance with the State Significant Development (SSD) Conditions of Consent within SSD 8903 MOD 1 and SSD 8903 MOD 2. A schedule for independent environmental audits was prepared by Environmental Earth Sciences:

- Environmental Earth Sciences (2020a) *Schedule for Independent Environmental Audit(s) at Stage 1 Ivanhoe Estate, Macquarie Park NSW* (ref: 120077_Audit Schedule_V1, 14 August 2020).

The schedule was submitted to the NSW Department of Planning, Industry and Environmental (DPIE) whereby the Planning Secretary confirmed the appointment of Environmental Earth Sciences as the independent auditor. Refer to **Appendix A** for the correspondence letter from DPIE indicating appointment:

- DPIE (2020), *Audit Program, Ivanhoe Estate Stage 1 SSD-8903-PA-2* (ref: Appointment of Experts, 24 August 2020).

An independent EMS audit was required by the conditions of consent to demonstrate and verify Frasers' project and their contractor's compliance with the environmental management framework for the project.

1.2 Framework

The 6-monthly EMS performance evaluation audit was undertaken to satisfy the requirements of the following standard and requirements:

- International Organisation for Standardisation (ISO), Standards Australia / Standards New Zealand (AS / NZS) *Environmental Management Systems – Requirements with Guidance for Use* (AS / NZS ISO 14001:2015) (*Clause 9*) (the "Standard").
- NSW Department of Planning and Environment (DPE) (2015) – *Independent Audit Guideline.*
- NSW Department of Planning Environment (DPE) (2018) – *Independent Audit: Post Approval Requirements Guidance*.
- NSW DPIE (2020a) – *Compliance Reporting, Post Approval Requirements May 2020*.
- NSW DPIE (2020b) – *Independent Audit, Post Approval Requirements May 2020*.

1.3 Project context and management

Frasers engaged Parkview Constructions Pty Ltd (Parkview) as the contractor to undertake the construction works for the A1 Building on site as part of the Stage 1 project. This audit only refers to the works that has so far been completed by Parkview on the A1 Building in the northern portion of the site which will be the first residential apartment project within the Ivanhoe Estate, located directly off the main entry to the estate, bounded by Herring Road and Ivanhoe Place.

The following Construction Management Plan (CMP) was prepared by Parkview Constructions Pty Ltd to document procedures and management associated with construction of Building A1:

- Parkview Constructions Pty Ltd (2020) *Construction Management Plan for: Ivanhoe Estate – Building A1, Macquarie Park NSW* (19 November 2020; Version7.0) (the "CMP").

For the construction works, Parkview also adopted the following Integrated Management Plan (IMP) prepared by Mainland Civil detailing the requisite quality, safety, and environmental aspects of the project:

- Mainland Civil Pty Ltd (2021), *Integrated Management Plan, Ivanhoe Estate, Macquarie Park – Stage 1 Civil Roadworks, Building A1 Bulk Excavation & Building C1 Bulk Excavation* (19 October 2021, Revision A) (the "IMP").

1.4 Objective

The objective of the performance review environmental audit was to comply with Development Consent Conditions B5 – B9 of the Minister for Planning and Public Spaces, Development Consent, *Section 4.38* of the Environmental Planning and Assessment Act 1979, Consolidated Consent (ref: SSD 8903 MOD 1; 10 November 2020; and SSD 8903 MOD 2; 7 May 2021):

Part B: Prior to commencement of works / issue of a crown building works certificate / issue of subdivision work certificate:

- B5: No later than one month before the commencement of construction or within another timeframe agreed with the Planning Secretary, a program of independent environmental audits must be prepared for the development in accordance with AS/NZS ISO 19011:2014 Guidelines for auditing management systems (Standards Australia, 2014) and submitted to the Planning Secretary for information.

- B6: the scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle.

- B7: the environmental audit program prepared and submitted to the Planning Secretary in accordance with Conditions B5 and B6 must be implement and completed with for the duration of the development.

- B8: all independent environmental audits of the development must be conducted by a suitable qualified, experienced and independent team of experts and be documented in an audit report which:
    - assesses the environmental performance of the development and its effects on the surrounding environmental including the community;
    - assesses whether the development is complying with the terms of the consent;
    - reviews the adequacy of any document required under this consent; and
    - recommends measures or actions to improve the environmental performance of the development and improvements to any document required under this consent.
- B9: within three months of commencing an Independent Environmental Audit, or within another timeframe agreed by the Planning Secretary, a copy of the audit report must be submitted to the Planning Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Planning Secretary.

2 AUDIT PARTICULARS

2.1 Team

The audit team comprised:

- Mark Stuckey – Primary technical reviewer; Environmental Management Systems (EMS) Lead Auditor; and Site Auditor – accredited under the Contaminated Land Management (CLM) Act 1997 (NSW).
- Chris Newland – reviewer and Project Director.
- Karin Azzam – auditor assistant and Project Manager.

2.2 Audit scope

Environmental Earth Sciences NSW undertook the following scope of works:

- Completion of the Audit by a team of suitably qualified experts.
- Submission of a document request to Frasers and Parkview requesting relevant regulatory approvals (compliance documentation) including, but not limited to environmental monitoring results and waste disposal documentation.
- Half day site inspection by Environmental Earth Sciences NSW personnel to confirm details of the IMS plans and approvals are being followed.

- Consultation with relevant persons from Frasers and Parkview.
- Assess the environmental performance of the project and assess whether it is complying with the requirements in the Development Consent and IMP (including any assessment, plan or program required under these approvals).
- Review the adequacy and currency of strategies, plans or programs required under the abovementioned approvals.
    - Monitoring and Environmental Audits (Condition A20).
    - Independent Environmental Audit (Conditions B5 – B9).
    - Construction Environmental Management Plan (Condition B40).
    - Construction Noise and Vibration Management Plan (Conditions B42 and C7).
    - Air Quality and Odour Management Plan (Condition B43) and Dust Control Measures (Condition C38).
    - Construction Waste Management Plan (Conditions B44, C28 and C31).
    - Construction Soil and Water Management Plan (Condition B45) and Stormwater (Condition C49).
    - Contamination (Conditions B55, B56, B58, B61; C15 – C21; D5 – D6 and D52).
    - Hazardous Materials Management Plan (Conditions B64 - B65 and C32 – C33).
    - Vehicle Cleansing (Condition C35).
    - Stockpile Management (Condition C36).
    - Erosion and Sediment Control (Condition C37).
    - Bunding (Condition C52).
    - Post-Construction Dilapidation Report (Condition D19).
- Recommend appropriate measures or actions to improve the environmental performance of the project, and/or any assessment, plant or program required under the abovementioned approvals.
- Delivery of an Audit report detailing the results and recommendations of the Audit.

2.3 Audit period

The audit covers the six-monthly period between 19 October 2021 to 11 April 2022, and considers the performance against the CMP, IMP and associated documentation.

3 AUDIT METHODOLOGY

3.1 Audit and assessment team

The audit and assessment process comprised the following members:

- **Environmental Earth Sciences NSW**: Mark Stuckey, Chris Newland and Karin Azzam;
- **Frasers Property Australia**: Peter Statham / Elisha Kordiak; and
- **Parkview Constructions**: James Mackenzie.

3.2 Site interviews

The following personnel were either interviewed and/or were involved with communication throughout the duration of the Audit and assessment process:

- **Frasers Property Australia**: Peter Statham / Elisha Kordiak; and
- **Parkview Constructions**: James Mackenzie.

3.3 Site inspection

The performance review site inspection was conducted on 11 April 2022 by Karin Azzam (Environmental Earth Sciences), Peter Statham, Elisha Kordiak (Frasers Property Australia) and James Mackenzie (Parkview Constructions) and included:

- Inspection of a limited number of representative construction aspects being undertaken in April 2022 that could pose potential environmental risk.
- Audit of associated physical / operational / management controls for risk mitigation.

3.4 Community consultation

Prior to the commencement of site works, notice will be provided to nearest receivers via letter drop informing of the upcoming works, the expected noise levels, durations and contact details of the community liaison officer.

Auditor recommendation: *Parkview Constructions to provide example of letter issued.*

3.5 Consultation with relevant agencies

The Planning Secretary confirmed the appointment of Environmental Earth Sciences as the independent auditor. Refer to **Appendix A** for the correspondence letter.

3.6 Compliance status descriptors

The findings from the Audit are assessed against the *Compliance Assessment Criteria* in DPE (2018) as detailed in **Table 1**.

Table 1: Compliance status descriptors

Status	Description
Compliant	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
Non-compliant	The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met at the time when the audit is undertaken, therefore an assessment of compliance is not relevant.

4 AUDIT FINDINGS

4.1 Previous audit recommendations / status

Environmental Earth Sciences NSW conducted a six-monthly performance audit of the project environmental management system (EMS) for Stage 1 of construction works at Ivanhoe Estate in July and August 2021, with this documented in the following report:

- Environmental Earth Sciences (2021) – *Six monthly performance audit, Stage 1 Ivanhoe Estate, Macquarie Park, NSW* (ref: 120077_Review of EMS_V2; 1 October 2021).

This six-monthly compliance audit did not record any aspects or features that were considered to be “non-compliant” during that audit period, however the following opportunities for improvement were recommended:

- Limit the height of stockpiles and ensure stockpiles are compacted and secure at the end of each day.
- Due to the size of the site, multiple dust gauges should be installed for monthly monitoring.
- Regular noise monitoring was recommended which focusing on more than one noise sensitive location. Noise meter was also noted to be overdue for calibration.
- Calibration records for water quality meter needed to be available for inspection.

4.2 Site inspection

Site inspection associated with the Audit was undertaken on 11 April 2022 by Karin Azzam, Peter Statham and Elisha Kordiak of Frasers and James Mackenzie of Parkview.

At the time of the Audit inspection, construction earthworks for Building A1 had been completed, with the building within the footprint excavation at various stages of proceeding to ground level within the multi-level basement (**Photos 4 - 6** in **Appendix D**).

Export of VENM was undertaken in the early stages of the Audit period on 15-16, 19-20, 29-30 November 2021 and 31 January 2022. As this component was completed by 31 January 2022 the management of soil / water and associated erosion / dust control was of lessor concern from this date, however sediment and erosion controls were still being implemented from vehicles potentially tracking soil from internal roads (refer to controls around external drains in **Photos 11 - 12** in **Appendix D**).

Advice from Parkview informed that stormwater which entered the excavation did not come into contact with underlying soils and was pumped-out into the existing swale to the south of the Building A1 footprint. Water then flowed into two stages of sedimentation basins with turbidity of water monitored by Parkview prior to discharge into the stormwater system (**Photo 13 - 16** in **Appendix D**).

Primary activities noted included:

- Construction area (assembly of scaffolding, formwork and concrete pouring).
- Laydown areas for construction materials.
- Crane operations.
- Internal / external movements of building materials / construction waste.
- Temporary site offices / ablution blocks.

4.3 Documents reviewed

The documents reviewed as part of the six-monthly performance review Audit included:

- Bingo Industries (2022) – *Monthly Waste Report – Parkview Constructions, Site: 1 Ivanhoe Place, Macquarie Park.*
- Environmental Earth Sciences (2021a) – *Virgin Excavated Natural Material Characterisation Assessment – Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120120_ENM_No.1_V3; 1 April 2021).
- Environmental Earth Sciences (2021b) – *Virgin Excavated Natural Material (VENM) Characterisation Assessment (TP1 Area) – Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120120_ENM_No.2_V1; 12 February 2021).
- IMP (Mainland Civil, 2020a).
- CMP (Parkview, 2020).
- Frasers (2022) – *pH and Turbidity Readings* (ref: Dewatering).

Parkview provided Environmental Earth Sciences with Export Cartage Tracking documents from Mainland Civil who detailing VENM material removed from site during detailed excavations.

4.4 Compliance performance

The list of conditions imposed by the Conditions of Consent within SSD 8903 MOD 1, SSD 8903 MOD 2, IMP and CMP are detailed in **Appendix B** (**Table A** and **Table B**) with this listing the compliance status of each condition, along with recommendations for further information (where required).

4.5 Summary of agency notices, orders, penalty notices or prosecutions

There are no notices, orders, penalty notices or prosecutions relating to the site since within the audit period.

4.6 Non-compliances

There are no non-compliances in relation to the review of documents listed in Section 4.3.

4.7 Plans and compliance documents

4.7.1 Construction management plan (CMP)

The CMP (Parkview, 2020) was prepared to communicate procedures and management strategies that were to be implemented during the construction of Building A1. It describes the construction methodologies, processes, and procedures from site establishment through to practical completion. The following environmental management plans (EMPs), controls and/or subsections are incorporated in the CMP:

- Storage of materials.
- Noise and vibration controls (SSD 8903 MOD 1 and MOD 2 Condition B42).
- Dust controls (SSD 8903 MOD 1 and MOD 2 Condition B42).and dust controls (SSD 8903 MOD 1 and MOD 2 Condition B42).
- Air quality and odour management plan (SSD 8903 MOD 1 and MOD 2 Condition B43).
- Stormwater and erosion control.
- Waste transport and disposal.
- Storage of dangerous goods.
- Waste management plan and reporting.
- EMP (SSD 8903 MOD 1 and MOD 2 Condition B40).

4.7.2 Integrated management plan (IMP)

The IMP (Mainland, 2021) was prepared to detail quality, safety, and environmental management aspects construction for Stage 1 of the project, incorporating the following management plans and subsections:

- Dust management.
- Noise and vibration management plan (SSD 8903 MOD 1 and MOD 2 Condition B42).
- Construction waste management plan (CWMP).
- Soil and water management plan (SWMP).
- Traffic management plan (TMP).
- Heavy vehicle management plan.

4.8 Environmental management systems (EMS)

The Stage 1 Ivanhoe Estate, Macquarie Park does not have a standalone EMS, rather separate management plans have been prepared relating to the project (as summarised in Section 4.6), however Parkview operates under a current ISO 14001 accredited EMS.

4.9 Environmental performance

4.9.1 Water management

Export of VENM was undertaken in the early stages of the Audit period on 15-16, 19-20, 29-30 November 2021 and 31 January 2022. At the time of the Audit inspection, construction earthworks for Building A1 had been completed, with the building within the footprint excavation at various stages of proceeding to ground level within the multi-level basement (**Photos 4 - 6** in **Appendix D**). As such the management of soil / water and associated erosion / dust control was not as significant, however sediment and erosion controls were still being implemented from vehicles potentially tracking soil from internal roads (refer to controls around external drains in **Photos 11 - 12** in **Appendix D**).

Advice from Parkview informed that stormwater which entered the excavation did not come into contact with underlying soils and was pumped-out into the existing swale to the south of the Building A1 footprint. Water then flowed into two stages of sedimentation basins (**Photo 13 - 16** in **Appendix D**).

General parameters (e.g., pH and turbidity) were monitored by Parkview prior to discharge into the stormwater system. Auditor inspected the results of monitoring and confirmed that the requisite discharge quality limits had been successfully achieved. A summary of results and discharge volumes is included in **Table 2**. Refer to dewatering records in **Appendix G**.

Table 2: Water parameter results and discharge summary

Date	pH reading	Turbidity (NTU)	Visual / olfactory impact noted?	Discharge location	Volume (L)
17 Nov 21	7.8	32	No	Stormwater	300,000
29 Nov 21	7.2	35	No	Stormwater	400,000
17 Dec 21	7.0	22	No	Stormwater	250,000
24 Jan 22	7.0	21.5	No	Stormwater	250,000
10 Feb 22	7.2	22	No	Stormwater	260,000
29 Feb 22	7.5	21	No	Stormwater	250,000
31 Mar 22	7.8	30.8	No	Stormwater	300,000

4.9.2 Storage of materials

Materials storage seemingly undertaken in accordance with procedures documented in the CMP which was current at the time of Audit. Observations from site inspection for material storage outside of the Building A1 footprint excavation:

- Areas for storage of construction materials were generally defined with good housekeeping considering the challenges faced by the limited available space.
- Laydown areas and for materials used available space sufficiently (refer to **Photos 2 – 3** in **Appendix D**).
- Construction materials were generally inert (e.g., scaffold sections) and thus did not pose a potential contamination / pollution risk.
- Storage of hazardous substances (e.g., flammable liquids) were noted to be in locked cages and next to spill kits (refer to **Photos 7 - 9** in **Appendix D**).

Observations from site inspection for material storage within the Building A1 footprint excavation:

- Site inspection was able to view operations within this area taking into account access limitations for safety.
- Bulky materials / plant were primarily directly loaded into the site via crane rather then being stored upon surrounding areas.
- Concrete was pumped directly into the Building A1 footprint directly from concrete trucks which would progressively enter / leave the site.

4.9.3 Dust management

Observations from site inspection:

- Construction hoardings have been built around the work site.
- Works conducted by Parkview has so far been limited to the construction of basement structures with steel and concrete with no dust generating activities.
- As such no dust monitoring was conducted during this audit period.
- Dust management seemingly undertaken in accordance with procedures documented in the CMP and IMP which were current at the time of Audit.

4.9.4 Sedimentation management

Observations from site inspection:

- Construction status for Building A1 did not involving bulk earthworks, hence implementing environmental controls and associated checking was not as stringent as last audit round.
- Passive sedimentation management controls noted to include gravel sausages surrounding downstream stormwater drain pits upon roads leading towards the site exit (refer to **Photos 11 and 12** in **Appendix D**).
- Low-level sedimentation management seemingly undertaken in accordance with procedures documented in the SWMP (within the IMP) and were current at the time of Audit.

4.9.5 Noise and vibration management

Observations from site inspection:

- Construction work was strictly undertaken within the hours of 7.00am and 7.00pm on Monday to Friday inclusive, and 8.00am to 4.00pm on Saturdays.
- Rock breaking, rock hammering, sheet piling, pile-driving and similar activities were not being undertaken at the time of the Audit inspection. It was noted that when these works were undertaken, they were carried out between 9.00am to 2.00pm, 2.00pm to 5.00pm on Monday to Friday, and 9.00 to 2.00pm on Saturday.
- Due to no high impact construction activities during the Audit inspection, no active sound / vibration monitoring was being undertaken.
- Noise and vibration management seemingly undertaken in accordance with procedures documented in the NVMP which was current at the time of Audit.

4.9.6 Construction waste management

Management of construction waste seemingly undertaken in accordance with procedures documented in the CWMP which was current at the time of Audit. Observations from site

inspection for construction waste management outside of the Building A1 footprint excavation:

- Areas for storage of storage of waste were clearly demarcated into separate waste streams (e.g., general waste sign on side of skip bin.
- Most inert construction waste was placed into a large skip bins supplied by waste contractor Bingo Industries who arranged routine pick-ups and appropriate offsite disposal (refer to **Photos 3 and 10** in **Appendix D**).
- A summary of waste management from Bingo including breakdowns for recyclable / non-recyclable waste and associated types and weights was provided by Parkview prepared by Bingo Industries for the Audit period is included in **Appendix E**.
- A summary of exportation of approximately 2,615 tonnes of sandstone VENM from the site between 15 November 2021 and 31 January 2022 is provided in **Table 3**. This was pre-certified material documented in the Environmental Earth Sciences, 2021a and 2021b).

Table 3: Summary of VENM export from site

Date	Receiving location	Truckloads	Vehicle type
15 Nov 2021	Spring Farm	1	T&D
	Werrington	5	T&D
	Melrose Park	7	T&D
	Box Hill	21	T&D
	Camellia	3	10W
16 Nov 2021	Werrington	13	T&D
		1	10W
	Schofields	17	T&D
	Camellia	3	B
		2	10W
19 Nov 2021	Schofields	14	T&D
	Melrose	15	T&D
20 Nov 2021	Melrose	6	T&D
29 Nov 2021	Leppington	18	T&D
	Austral	31	T&D
30 Nov 2021	Austral	22	T&D
21 Jan 2022	Marsden Park	18	T&D

Notes:

T&D	Truck and dog (~ 13 tonnes of sandstone)
10W	10-wheeler (~20 tonnes of sandstone)
B	Bogey (~8 tonnes of sandstone)

4.10 Complaints

Environmental Earth Sciences was not made aware of any complaints being reported during the six-monthly period between 19 October 2021 to 11 April 2022.

4.11 Incidents

Environmental Earth Sciences was not made aware of any incidents being reported during the six-monthly period between 19 October 2021 to 11 April 2022.

4.12 Actual versus predicted environmental impacts

Environmental Earth Sciences was not made aware of any actual environmental impacts being reported during the six-monthly period between 19 October 2021 to 11 April 2022.

4.13 Site interview

The site interview associated for the Audit was undertaken on 11 April 2022 by Karin Azzam, with Peter Statham and Elisha Kordiak of Frasers and James Mackenzie of Parkview in attendance.

4.14 Previous review of compliance report recommendations

Environmental Earth Sciences NSW conducted an initial independent six-monthly environmental audit of the IMP and associated activities for the previous period. Refer to Section 4.5 for details on previous recommendations.

4.15 Improvement opportunities

The Auditor recommends the following improvement opportunities:

- Calibration records for water quality meter should be available. This supporting information has been requested and will be furnished by Parkview in due course.

4.16 Key strengths

Mainland Civil are completing civil works generally in accordance with the CMP and IMP. There are good records of waste management kept along with good communication.

5 RECOMMENDATIONS

5.1 Non-compliances

There were no aspects of non-compliance for work in Building A1 for the audit period.

5.2 Opportunities for improvement

The Auditor recommends the following improvement opportunities:

- Calibration records for water quality meter should be available and kept onsite.

6 CONCLUSION

Environmental Earth Sciences NSW was engaged by Frasers Property Australia (Ivanhoe) to conduct a six-monthly performance audit of the project environmental management systems (EMS) for Stage 1 of construction works at Ivanhoe Estate Building A1, Macquarie Park, NSW in accordance with SSD Conditions of Consent within SSD 8903 MOD 1 and MOD 2. Further information is required as per **Appendix B** (**Table A** and **Table B**).

7 LIMITATIONS

This report has been prepared by Environmental Earth Sciences NSW ACN 109 404 006 in response to and subject to the following limitations:

1. The specific instructions received from Frasers Property Australia;
2. The specific scope of works set out in PO122021_V1 issued by Environmental Earth Sciences NSW for and on behalf of Frasers Property Australia;
3. May not be relied upon by any third party not named in this report for any purpose except with the prior written consent of Environmental Earth Sciences NSW (which consent may or may not be given at the discretion of Environmental Earth Sciences NSW);
4. This report comprises the formal report, documentation sections, tables, figures and appendices as referred to in the index to this report and must not be released to any third party or copied in part without all the material included in this report for any reason;
5. The report only relates to the site referred to in the scope of works being located at Building A1, Stage 1 Ivanhoe Estate, Macquarie Park, NSW (the “site”);
6. This report is not a geotechnical or planning report suitable for planning or zoning purposes; and
7. Our General Limitations set out at the back of the body of this report.

8 REFERENCES

Department of Environment & Climate Change (DECC) (2009) – *Interim Construction Noise Guideline* (DECC, 2009).

Environmental Earth Sciences (2020a) – *Schedule for independent environmental audit(s) at Stage 1 Ivanhoe Estate, Macquarie Park, NSW* (ref: 120077_Audit Schedule_V1, 14 August 2020).

Environmental Earth Sciences (2020b) – *Preliminary findings – independent environmental audit at Stage 1 Ivanhoe Estate, Macquarie Park, NSW* (ref: 120077_EMS Audit_V2, 17 December 2020) (Environmental Earth Sciences, 2020).

Environmental Earth Sciences (2021a) – *Virgin Excavated Natural Material Characterisation Assessment – Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120120_ENM_No.1_V3; 1 April 2021) and

Environmental Earth Sciences (2021b) – *Virgin Excavated Natural Material (VENM) Characterisation Assessment (TP1 Area) – Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120120_ENM_No.2_V1; 12 February 2021).

Environmental Earth Sciences (2021c) – *Six monthly performance audit, stage 1 Ivanhoe Estate, Macquarie Park, NSW* (ref: 120077_Review of EMS_V2, 1 October 2021)

Mainland Civil Pty Ltd (2020a) – *Integrated Management Plan, Ivanhoe Estate - Macquarie Park* (dated 10 December 2020, Revision E) (the 'IMP').

Mainland Civil Pty Ltd (2020b) – *Construction Noise and Vibration Management Plan for Ivanhoe Estate - Macquarie Park, Frasers Property* (dated 19/11/2020, Revision A).

Mainland Civil Pty Ltd (2020c) – *Notice of Construction Commencement, Ivanhoe Estate* – (dated 16 December 2020).

Mainland Civil Pty Ltd (2021a) – *Asbestos Management Plan, Ivanhoe Estate – Stage 1, Ivanhoe Place, Macquarie Park, Frasers Property Pty Ltd* (dated 04 February 2021, Revision B) (the 'AMP').

Mainland Civil (2021) – *pH and Turbidity Readings* (ref: Dewatering).

Minister for Planning and Public Spaces, *Development Consent, Section 4.38 of the Environmental Planning and Assessment Act 1979*, Consolidated Consent (dated: 10 November 2020; reference: SSD 8903 MOD 1 and dated 7 May 2021; reference: SSD 8903 MOD 2).

NSW Department of Planning and Environment (DPE) (2015) – *Independent Audit Guideline, Post-approval requirements for State Significant Developments, October 2015,* (DPE, 2015).

NSW DPE (2018) *Independent Audit Post Approval Requirements* (DPE, 2018).

NSW Department of Planning, Industry and Environment (DPIE) (2020a) – *Compliance Reporting Post Approval Requirements May 2020*.

NSW DPIE (2020b) – *Independent Audit, Post Approval Requirements May 2020.*

Standards Australia / Standards New Zealand (AS / NZS) (2015) *Environmental Management Systems – Requirements with Guidance for Use* (AS / NZS ISO 14001:2015).

ENVIRONMENTAL EARTH SCIENCES
CONTAMINATION RESOLVED

ENVIRONMENTAL EARTH SCIENCES GENERAL LIMITATIONS

Scope of services
The work presented in this report is Environmental Earth Sciences response to the specific scope of works requested by, planned with and approved by the client. It cannot be relied on by any other third party for any purpose except with our prior written consent. Client may distribute this report to other parties and in doing so warrants that the report is suitable for the purpose it was intended for. However, any party wishing to rely on this report should contact us to determine the suitability of this report for their specific purpose.

Data should not be separated from the report
A report is provided inclusive of all documentation sections, limitations, tables, figures and appendices and should not be provided or copied in part without all supporting documentation for any reason, because misinterpretation may occur.

Subsurface conditions change
Understanding an environmental study will reduce exposure to the risk of the presence of contaminated soil and or groundwater. However, contaminants may be present in areas that were not investigated, or may migrate to other areas. Analysis cannot cover every type of contaminant that could possibly be present. When combined with field observations, field measurements and professional judgement, this approach increases the probability of identifying contaminated soil and or groundwater. Under no circumstances can it be considered that these findings represent the actual condition of the site at all points.

Environmental studies identify actual sub-surface conditions only at those points where samples are taken, when they are taken. Actual conditions between sampling locations differ from those inferred because no professional, no matter how qualified, and no sub-surface exploration program, no matter how comprehensive, can reveal what is hidden below the ground surface. The actual interface between materials may be far more gradual or abrupt than an assessment indicates. Actual conditions in areas not sampled may differ from that predicted. Nothing can be done to prevent the unanticipated. However, steps can be taken to help minimize the impact. For this reason, site owners should retain our services.

Problems with interpretation by others
Advice and interpretation is provided on the basis that subsequent work will be undertaken by Environmental Earth Sciences NSW. This will identify variances, maintain consistency in how data is interpreted, conduct additional tests that may be necessary and recommend solutions to problems encountered on site. Other parties may misinterpret our work and we cannot be responsible for how the information in this report is used. If further data is collected or comes to light we reserve the right to alter their conclusions.

Obtain regulatory approval
The investigation and remediation of contaminated sites is a field in which legislation and interpretation of legislation is changing rapidly. Our interpretation of the investigation findings should not be taken to be that of any other party. When approval from a statutory authority is required for a project, that approval should be directly sought by the client.

Limit of liability
This study has been carried out to a particular scope of works at a specified site and should not be used for any other purpose. This report is provided on the condition that Environmental Earth Sciences NSW disclaims all liability to any person or entity other than the client in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by any such person in reliance, whether in whole or in part, on the contents of this report. Furthermore, Environmental Earth Sciences NSW disclaims all liability in respect of anything done or omitted to be done and of the consequence of anything done or omitted to be done by the client, or any such person in reliance, whether in whole or any part of the contents of this report of all matters not stated in the brief outlined in Environmental Earth Sciences NSW's proposal number and according to Environmental Earth Sciences general terms and conditions and special terms and conditions for contaminated sites.

To the maximum extent permitted by law, we exclude all liability of whatever nature, whether in contract, tort or otherwise, for the acts, omissions or default, whether negligent or otherwise for any loss or damage whatsoever that may arise in any way in connection with the supply of services. Under circumstances where liability cannot be excluded, such liability is limited to the value of the purchased service.

APPENDIX A: PLANNING SECRETARY AUDIT TEAM AGREEMENT

By email: chris.koukoutaris@fraserspropertyaustralia.com.au

24 August 2020

Dear Chris

Audit Program
Ivanhoe Estate Stage 1 SSD-8903-PA-2

I refer to recent correspondence submitted by Frasers Property Australia (SSD-8903-PA-2) informing the Department as required by condition B5 of SSD-8903 that Environmental Earth Sciences NSW (**auditor**) has been engaged to conduct a program of independent environmental auditing of Stage 1 Ivanhoe Estate SSD-8903. It is noted that the audit program consists of the initial independent environmental audit of Stage 1 in October / November 2020 followed by an annual audit.

Please note that the Independent Audit must be lead by a suitably qualified auditor and be prepared, undertaken and finalised in accordance with the requirements of Conditions B8 and B9 of SSD 8903. The Department also requests that consideration be given to the *Compliance Reporting Post Approval Requirements* May 2020 (**PAR 2020**) to the extent that it does not contradict Conditions B8 and B9 of SSD 8903. Failure to meet these requirements will require revision and resubmission. The PAR 2020 may be accessed at https://www.planning.nsw.gov.au/-/media/Files/DPE/Other/Assess-and-regulate/About-Compliance/compliance-reporting-post-approval-requirements-2020-05-19.pdf

Please append this correspondence to the Independent Audit Report.

Yours sincerely

Julia Pope
Team Leader Compliance - Metro
As nominee of the Secretary

APPENDIX B: INDEPENDENT AUDIT TABLES

Table A: Independent Audit Table

Approval (ID) / Mainland Civil IMP Section	Number	Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
5.4: Dust management Plan (DMP)	1	**5.4.2: Dust and debris mitigation and control methods**: Mitigation methods include: • site control traffic: wetting down exposed soil haul routes. • earth moving management: the use of mist water from gurneys for general site dust suppression and to target dust generating activities. • Application of mist water from gurneys/hoses to any stockpiled materials. Use of a street sweeper to clean pavements and road. • Loading truck and dogs in a controlled manner and covering loads when entering and exiting site. • soil surface compaction of loose material ensures that soil particles are packed tightly, minimising the likelihood of excessive dust emissions. • Installation and maintenance of site fencing, hoarding and/or barriers in an effort to contain dust and minimise wind across the site. Providing barriers to discourage unwanted vehicle access causing disturbance. • Sediment traps are in place to capture sediment prior to drainage water entering the primary settling ponds and eventual use in the dust suppression system. As a result, sediment captured in the sediment traps and allowed to dry out, is a potential dust source. • During extreme winds dusty activities may be postponed until more suitable weather is prevalent.	• An Environmental Scientist from Environmental Earth Sciences (Karin Azzam) attended site on 11 April 2022 and confirmed that bulk earthworks were not in progress at Building A, hence active dust supression was not continually required. • Site fencing and barriers in place across the site and in good condition. • Sediment basin constructed in eastern portion of the site. Sediment fencing and silt socks installed and in good condition. Refer to **Photographs 11 - 12 in Appendix D**.	----	Compliant	
5.4 DMP **5.4.3 Managing exposure to silica dust in the workplace**	2	• Suppression: Water or fine mist suppression is also employed to control dust clouds which are not always amenable to use of fixed point ventilation. Some foundries utilise such systems. Water suppression is also used effectively in construction for brick, tile, stone and concrete cutting.	• An Environmental Scientist from Environmental Earth Sciences (Karin Azzam) attended site on 11 April 2022 and confirmed that bulk earthworks were not in progress at Building A1, hence active dust supression was not continually required.	---	Compliant	
5.4: DMP and Table 5.8.6: Key Performance Indicators	3	• Dust deposition levels below 4 grams per square metre per month (g/m2/month) per NSW guidelines (Test method as per AS3580.10.1 *Methods for Sampling and Analysis of Ambient Air Method 10.1: Determination of Particulate Matter-Deposited Matter-Gravimetric Method*).	• Dust monitoring was not required as bulk excavation was not being undertaken from 31 January 2022.	----	Compliant	
5.8: Air Quality and odour management plan (AQOMP). **5.8.2 Material Classification and Odour Suppressants**	4	• In the event odours are detected, the environmental consultant will be notified and area isolated until the source of contamination / odour is determined. Mainland Civil will establish odour suppressant control measures as per environmental consultant's advice whilst the material is tested and waste classification is provided.	• Mainland Civil confirmed odour suppressants were not required during the Audit period 20 October 2021 to 11 April 2022.	----	Compliant	
5.8: AQOMP **5.8.3 Stockpile Management and Cartage Control**	5	• Effective handling of excavated material and stockpiles onsite are integral to minimising potential odours and dust impacts on air quality. Minimising the transfer of excavated material within the site and loading from the source of the excavation is ideal however when this is not possible and stockpiles are generated they will be limited to 2m in height. If there is a requirement to go higher due to space/loading requirements, material stockpiles will need to wetted during the day and covered overnight. Dust control and suppression to be implemented in the form of wetting work areas and stockpiles. All trucks carting material off site will cover their loads prior to leaving the site.	• Mainland Civil confirmed odour suppressants were not required during the Audit period 20 October 2021 to 11 April 2022. • Mainland Civil confirmed no stockpiling undertaken in Audit period 20 October 2021 to 11 April 2022.	----	Compliant	
5.8: AQOMP **5.8.4: Onsite monitoring and recording:**	6	• Onsite dust monitors will be installed near construction work faces and monitored monthly. As the work faces progress, the monitors will also need to be reinstalled at the relevant locations. Results will be recorded on the dust monitoring register and available at the site office for review.	• Mainland Civil confirmed no dust monitoring required during the Audit period 20 October 2021 to 11 April 2022.	----	Not triggered.	

Approval (ID) / Mainland Civil IMP Section	Number	Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
5.8: AQOMP 5.8.5 Proactive/Reactive Management Strategies & Response Mechanisms	7	• Dust - Seize works if excessive dust noticeable. Conduct investigation into source of dust if there is a complaint received. Regular site management meetings to review environmental controls. Key performance indicators (KPI)s: **a**. No dust to be visible leaving the site boundaries. Weekly Site environmental inspection. **b**. No complaints received over the duration of the project. If complaint is received it is to be recorded in the Complaints Register. **c.** Dust deposition levels below 4g/m2/month per NSW guidelines (Test method as per AS3580.10.1.	• Mainland Civil confirmed no dust monitoring required during the Audit period 20 October 2021 to 11 April 2022.	---	Compliant	
5.8: AQOMP 5.8.5 Proactive/Reactive Management Strategies & Response Mechanisms	8	Follow unexpected finds process immediately. If odour generating material is known, either remove or treat with odour suppressants. If unknown, investigate where odour is coming from. Conduct investigation into source of odour if there is a complaint received. Regular site management meetings to review environmental controls.	• Mainland Civil confirmed odour suppressants were not required during the Audit period 20 October 2021 to 11 April 2022.	---	Compliant	
5.8: AQOMP 5.8.5 Proactive/Reactive Management Strategies & Response Mechanisms	9	Asbestos (Unknown Finds): Cease works and follow unexpected finds process. Follow asbestos management plan and control measures.	Refer to 5.6 Construction waste management plan (CWMP): 5.6.7. Hazardous waste and 4.8: Hazardous materials for information on asbestos management and control measures. Numbers 16 and 18 below.	---	Compliant	
5.8: AQOMP 5.8.5 Proactive/Reactive Management Strategies & Response Mechanisms	10	Plant: Use of well-maintained and service plant. Plant operators to conduct daily plant pre start checklists to ensure plant are in well working order with no excessive smoke.	No excessive smoke noted during performance review audit on 14 July 2021. No complaints of excessive smoke received by Frasers or Mainland Civil during January - July 2021.	Where are daily plant pre-start records kept?	Not triggered.	
5.8: AQOMP 5.8.7 Compliance Protocol and 5.8.8 Contingency Management Strategies	11	In the event that there is an exceedance of dust depositions obtained within the dust monitoring testing and/or all other air quality and odour influences, the below contingency management strategies will be implemented as part of the AQOMP.	No exceedances or complaints received.	---	Compliant	
5.5 Noise (and vibration) management plan and Mainland Civil Pty Ltd (2020), *Construction Noise and Vibration Management Plan for Ivanhoe Estate - Macquarie Park, Frasers Property* (dated 19/11/2020, Revision A) (the 'CNVMP').	12	Include a pro-active and reactive strategy for dealing with complaints including achieving the construction noise goals, particularly with regard to verbal and written response; • Detail noise monitoring, reporting and response procedures consistent with consent requirements; • Provide for internal audits of compliance of all plant and equipment; • Indicate site establishment timetabling to minimise noise impacts; • Include procedures for notifying residents of construction activities likely to affect their noise amenity;	• Osterman Consult was engaged by Mainland Civil to conduct monthly noise and vibration monitoring. One noise level meter is located north of the Midtown sales office, close to the nearest residents north of the site. Refer to **Photographs 14 and 15** in **Appendix D**. Three monthly noise reports were reviewed by Environmental Earth Sciences: • Osterman Consult (2021a), *Interval Macquarie Park Ivanhoe Place - Noise - 1 January* (ref: Time frame: 2021-01-01 00:00 - 2021-01-31 23:59). • Osterman Consult (2021b), *Interval Macquarie Park Ivanhoe Place - Noise - 3 March (* ref: Time frame 2021-03-01 00:00 - 2021-03-31 23:59). • Osterman Consult (2021c), *Interval Macquarie Park Ivanhoe Place - Noise - 5 May* (ref: Time frame 2021-05-01 00:00 - 2021-05-31 23:59).	Further information required: • Provide for internal audits of compliance of all plant and equipment; and • Indicate site establishment timetabling to minimise noise impacts. • Noise monitoring was conducted at one location only during January - July 2021. When is regular noise monitoring carried out?	Not triggered.	
			• January 2021 reported maximum noise level (Lmax) of 90.1 decibels (dB(A)) and an average noise level (Leq) of 73.90 dBA. Leq is below the highly noise affected 75 dB(A)Leq (15 min) (Osterman Consult (2021a)). • On review of Osterman Consult (2021b), sound pressure level exceeds 75 dB(A) on two occasions, with the majority of the time the noise level ranges from 45 - 65 db.(A). • On review of Osterman Consult (2021c), sound pressure level exceeds 75 dB(A) on one occasion, with the sound pressure level fluctuating between 45 - 70 dB(A) for May 2021. • No other noise monitoring event was undertaken during January - July 2021. • Mainland Civil provided Environmental Earth Sciences with the letter provided to neighbouring residents: Mainland Civil Pty Ltd (2020c), *Notice of Construction Commencement, Ivanhoe Estate* – (dated 16 December 2020). Refer to **Appendix C** for the interval noise reports and the communication letter.			

Approval (ID) / Mainland Civil IMP Section	Number	Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
7. Heavy vehicle management **7.7: Speeding Management**	13	Heavy Vehicle Risk Register: control measure for noise from vehicles and plant; • noise levels to be regularly monitored and personnel are to wear class iv or better ear plugs if levels exceed 85dba; and • regular noi*se monitoring to be carried out. Section 7 of CNVMP states: Periodic noise monitoring will be conducted at other locations as required. In the event that a noise complaint is received then the monitoring frequency may be increased following a formal review* .	Environmental Earth Sciences was advised that the only noise monitoring conducted is the full time noise monitor set up north of the Midtown Sales Office.	Environmental Earth Sciences is not aware of any noise complaints received by Frasers Property or Mainland Civil for the person of 20 Octber 2021 to 11 April 2022.	Not triggered.	
5.5 CNVMP **5.5.4 Vibration**	14	A full time vibration monitor will be installed at the same location as the noise monitor shown within Section 7 of report "Construction Noise and Vibration Management Plan" the 'CNVMP'.	Vibration monitoring not conducted during Audit period 20 October 2021 to 11 April 2022.	----	Compliant	
5.6: Construction waste management plan (CWMP)	15	Requirements for managing construction waste types / streams: The types and quantities of each type of material to be excavated from each location are monitored on a daily record of loads chart and recorded in a cartage summary document. **7.2: Roles and Responsibilities:** Project Manager All records (such as cartage and tip dockets) are kept and secured with all records of business related activity.	• Material removed from site included VENM that was pre-certified by Environmental EArth Sciecnes (2021a and 2021b) • Material removed from site was recorded on Mainland Civil - Export Cartage Tracking Summary Rev spreadsheet. The spreadsheet was reviewed by Environmental Earth Sciences. Refer to **Appendix F** of the original report for documentation of material removed from site.	----	Compliant	
5.6: CWMP **5.6.2 Requirements for Managing Construction Waste Types / Streams and** **5.6.6 Recycling and disposal facilities and** **5.6.7.1 Contaminated soil source, location, quantity and characteristics**	16	**5.6.2:** All wastes and materials generated on the site during construction (and dual operation) shall be classified in accordance with the NSW EPA's *Waste Classification Guidelines* prior to being transporting the waste off site and be disposed of to a facility that may lawfully accept the waste. **5.6.6:** Once classified, waste can then be disposed of at an Environmental Protection Authority (EPA) licensed facility. All waste to be monitored through Mainland Civil Cartage summary. **5.6.7.1:** Prior to excavation works, a preliminary investigation or testing (environmental site assessments/soil sampling) will identify any contaminated materials (whether man-made or naturally occurring) in accordance with the industrial waste resource guidelines- soil sampling.	• No solid waste was disposed in Audit period 20 October 2021 to 11 April 2022.	----	Compliant	
5.6: CWMP **5.6.2 Requirements for Managing Construction Waste Types / Streams**	17	Only the hazardous and/or industrial and/or Group A waste listed below may be generated and/or stored at the site: - Waste soil/water, hydrocarbons/water mixtures or emulsions; and - Grease trap waste.	Environmental Earth Sciences was advised by Mainland Civil that no hazardous, industrial or Group A wastes listed have been generated on site. Mainland Civil stores 100 litres (L) of diesel and 100 L of petrol onsite at any one time. Diesel and petrol are stored in fuel jerry cans locked in bunded fuel cages on site near the site accommodation sheds.	----	Compliant	

Approval (ID) / Mainland Civil IMP Section	Number	Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
5.6 CWMP: **5.6.7 Hazardous waste** **4.8: Hazardous material**	18	The collection and transport of any hazardous waste will be carried out in accordance with the statutory requirements, and collection and transport by a licenced operator, and disposal at appropriately licensed disposal facilities.	• No solid waste was disposed in Audit period 20 October 2021 to 11 April 2022.	----	Compliant	
5.6 CWMP: **5.6.7. Hazardous Waste:** **5.6.7.3 Onsite management** **and** **5.6.7.6 Monitoring** **and** **5.6.7.7 Clearance Inspection**	19	• Engagement of hygienist to undertake fibre air monitoring for the duration of the contaminated works (if required). • Dust suppression and wetting down of unknown finds / asbestos fibres. • Set up of works area around the identified impacted area (exclusions zone) with barrier tape and signage. The temporary fencing surrounding the contaminate removal area is to be covered internally with geo-fabric or plastic sheeting to help contain dust. • Black plastic polythene sheeting (200um thickness) on ground surface at access point as drop sheet. • Establish a decontamination area adjacent to the entrance of works. • Removal of contaminated material – Excavator. • Where possible, avoid relocating the contaminated soil/material onsite and load directly from the source into the truck. This will minimise the likelihood of cross contamination of clean soils.	• No air monitoring for potential asbestos fibres was required during Audit period 20 Octber 2021 to 11 April 2022.	----	Compliant	
5.6 CWMP: **5.6.7.6 Monitoring** **and** **5.6.7.7 Clearance Inspection**	20	**5.6.7.6:** An Independent Environmental consultant will be engaged to undertake representative air monitoring for the disturbance and movement of contaminated-impacted soil within the exclusion zone/s, as outlined above. Air monitor filters shall be replaced at the end of each work day where potential contaminated-impacted soil was disturbed. All airborne fibre monitoring will be conducted in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust* [NOHSCH:3003(2005)] and analysed at a NATA-accredited laboratory. **5.6.7.7:** The standards for clearance inspections will be determined by visual inspection of the work areas, ensuring that the work has been completed satisfactorily and that there is no visual evidence of contaminated material.	• No air monitoring for potential asbestos fibres was required during Audit period 20 Octber 2021 to 11 April 2022.	----	Compliant	
5.6 CWMP: **5.6.7.4: Management Practices**	21	During soil disturbance works within the exclusion zone, a water spray pump or water hose shall be available to suppress the dust at the commencement of the activity and at regular intervals during the day, i.e. every 30 minutes, when surface water evaporates or when the generation of dust becomes noticeable. The use of water spray must be monitored to ensure runoff does not occur or controls must be implemented to capture any runoff.	During removal of VENM Mainland Civil ocnfirmed that mist water was being applied for dust suppression.	----	Compliant	
5.6 CWMP: **5.6.7.5: Waste tracking**	22	A suitably qualified consultant with appropriate experience should be present on site during soil loading and removal works, to record waste tracking information (i.e. registration plates, time leaving site, and approximate volume being disposed).	• Mainland Civil documented the removal of VENM during the Audit period 20 October 2021 to11 April 2022 (refer to **Appendix F**).	----	Compliant	

Approval (ID) / Mainland Civil IMP Section	Number	Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
5.7 Soil and water management plan (SWMP) Table 5.7.2– Soil and Water Sources and Mitigation Methods	23	**Soil (sand) Management:** • Prevent sand and rock sediments entering stormwater drains. • Stockpile materials on sealed surfaces (existing roadways) away from stormwater drains (inlets). • Install silt fencing and silt socks where applicable. • Install metal rumble grid at site exit to facilitate removal of dirt and debris from wheels of exiting vehicles. • Gravel will be installed beneath the shaker ramp to allow it to act as a wash-down bay where necessary. • Water blasters will be used to clean tyres of exiting vehicles as required. • Install gravel / and filled geotextile socks or coil matts around stormwater drains to prevent sediment runoff.	• During performance review audit site inspection on 11 April 2021, Karin Azzam noted the following: • Site fencing and barriers in place across the site and in good condition. • Sediment basin constructed in eastern portion of the site. • Sediment fencing and silt socks installed and in good condition. Refer to **Photographs 1 - 12 in Appendix D**. • Metal rumble grid installed at site exit to facilitate removal of dirt and debris prior to vehicles leaving site. Water blasters used to clear tyres also.	----	Compliant	
5.7 SWMP: Table 5.7.2– Soil and Water Sources and Mitigation Methods and 5.7.3 Temporary sediment basin	24	**Water Management:** • Sediment laden water that accumulates within the site is not to be discharged into any water body or stormwater system without first being treated and tested for pH and turbidity as per Mainland Civil's pH and Turbidity Treatment Procedures. • Sediment controls - refer to Soil (sand) management above. • Dewatering of ponded stormwater or infiltrated groundwater. • Subsequent collection to the site water cart for reuse for dust suppression.	• Mainland Civil (2021g), *pH and Turbidity Readings* (ref: Dewatering) document testing 17 and 29 November 2021, 17 December 2021, 24 January 2022, 10 and 29 February 2022 and 31 March 2011. Results summary was reviewed by Environmental Earth Sciences and the following is noted: • pH readings ranged from 7.00 - 7.80 and turbidity readings ranged from 21 – 35 Nephelometric Turbidity Unit (NTU). • Water from the sediment basin was discharged to storm water on seven occasions. pH and Turbidity readings where within the acceptable criteria for the discharge of water.	Calibration record of water quality meter requested during the audit, but was not provided by Mainland Civil.	Not triggered.	
5.7 SWMP: 5.7.5: Minimising spoil removal and increase reuse and 5.7.5.1 Spoil temporary stockpile location	25	• The soil type including soil physical and chemical characteristic across the site are carefully assessed and recorded to provide information on the type of valuable resource that are available. The majority of spoil that would be generated from the construction activities is expected to meet the classifications of Virgin excavated natural Material (VENM). **• 5.7.5.1 Spoil temporary stockpile location:** Any spoil that is to be reused on site will be stockpiled in the temporary stockpile. Excess spoil would be disposed of at a location that has appropriate approval or licences to accept the material. Solid waste and more highly contaminated materials will not be reused or imported to onsite. Imported materials include; stabilised sand.	Approximately 2,615 tonnes of VENM (sandstone) was disposed offsite to 10 different facilities. Refer to **Appendix F** for list of facilities where VENM material was recycled.	---	Compliant	
5.7 SWMP: 5.7.6: Erosion and sediment control inspection checklist	26	As part of Mainland's weekly site walk, the site sediment controls are inspected to ensure they are compliant with their design intent. In the event of non-conformance, they will be immediately rectified and re-inspected by the site supervisor and site engineer. These controls are also visually monitored daily by the site supervisor to ensure they comply.	• Environmental Earth Sciences did not review any weekly site inspections. It is noted tha tbulk excavation works stoppedwith the final export of VENM on 31 january 2022.	----	Compliant	
2: Communication and Consultation	27	**2.1 Tool box Meetings:** During the course of the works, the Site Supervisor or Site Management Team will conduct pre-start Tool Box talks and Daily Prestart Meetings as part of keeping up the safety and environmental awareness of workers. Specific safety and environmental issues can be addressed, accidents/near misses can be reviewed, SWEMS Statements can be presented, safety alerts discussed or any other health, safety or environmental related issues tabled. It is an open forum for discussion and will be recorded on the "Tool Box Meeting" form, which will be signed off by all those present. These documents can be made available to Frasers Property upon request. **2.2.4:** Onsite communication and Workplace Health, Safety and Environment (WHSE) consultation methods.	These documents were not audited during the performance review audit. Environmental Earth Sciences notes there is a 'SWMS Observation' section in the	----	Compliant	
3.10: Project audits:	28	During the course of the works on this project, the HSEQ Manager will conduct regular internal reviews on the IMP to ensure that it is being implemented and conforms to Mainland Civil's certified Environmental Management System. On completion of the actions to address Non-Conformances, the document is to be submitted back to the Systems Coordinator/Manager to be closed out, IMP updated and reissued and relevant changes made to policies.	Not audited.		Not triggered.	

Approval (ID) / Mainland Civil IMP Section	Number	Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
		3.10.1: The objective of an Internal Review is to: • Identify any action, process or procedure that may lead to or has caused a non-conformance or does not comply with current road laws and regulations. • Report any action, process or procedure that has or may cause a non-conformance to the Compliance Manager. • Investigate why a non-conformance happened / what was the root cause. On completion, the onsite HSEQ Manager will prepare and submit a report to the onsite Project Manager and Site Supervisor, detailing the findings (including any non-conformances) and list any actions to be taken.	Not audited.	----	Not triggered.	
		An independent environmental audit for Mainland Civil's HSEQ Certification will be completed for Ivanhoe Estate by a suitably qualified person/team approved by the site HSEQ Manager as a requirement for Mainland's certification.	Not audited.	----	Not triggered.	
		Section 3.2: Project quality objectives and targets: Internal and external audit: To complete regular internal and external audits to monitor and maintain compliance. Regular site audits every 8 weeks and external audits bi-annually.	External audit completed by Environmental Earth Sciences In December 2020 and July 2021 on Mainland Civils compliance in accordance with their IMP, AMP and NVMP.	Further information required: When are the regular internal site audits conducted.	Not triggered.	
		3.10.1: Internal audits: The IMP will be reviewed every 3 months or unless changes are made prior by HSEQ Manager. 3.10.1: The objective of an Internal Review is to: Monitor the management system to seek further improvement and review generated documents, processes and procedures and for any legislative changes.		Further information required: When are the regular internal site audits conducted.	Not triggered.	
2.3: Complaints 2.3.2: Complaints handling procedure. 5 - Environmental Management, Table 5.1: Environmental Objectives and target:	29	"No complaints received from the community, Frasers Property or the environmental regulator (including on behalf of a local resident)". **5.5 Noise: 5.5.1:** Compliance requirements: Include a pro-active and reactive strategy for dealing with complaints including achieving the construction noise goals, particularly with regard to verbal and written response. **2.3.2: Complaints Handling Procedure**: All environment complaints received from the public and/or regulatory agency are investigated by the site HSEQ Manager. Any changes required to the HSEQ documentation are to be communicated to all relevant staff in a site tool-box discussion. The effectiveness of corrective and preventive actions taken will be reviewed by the onsite HSEQ Manager and Construction Manager.	• No complaints received during Audit period 20 October 2021 to 11 April 2022.	----	Not triggered.	
Section 3.5: Non-conformance and Corrective Action Prevention		Non Conformance Report will be raised for: • Specification deviation or work that fails to meet quality standards. • Non-compliance with the site rules. • Non-compliance with Health, Safety and Environmental Legislation requirements. • Repeated safety or housekeeping issues identified during inspections. The Non-Conformance shall be completed and issued to the offending party. Non Conformances shall be registered in the office non-conformance register. The Project Manager / Site Supervisor will decide on the appropriate disposition and corrective actions. Nonconformances raised as a result of a Safety or Environmental issue to be reviewed by the HSEQ Manager to confirm if systems need to be updated and if any company wide alerts, correspondence are required. • Specification deviation or work that fails to meet quality standards.	Non-conformance register not reviewed at the time of the performance review audit.	What corrective actions were out in place as a result of the complaint and Prevention Notice?	Not triggered.	

Table A: Independent Audit Table

Approval (ID) / Mainland Civil IMP Section	Number	Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
• **4.7: Safe Work and Environmental Method Statements (SWEMS).**	30	• **4.7.1: General:** • **4.7.2: Safe Work Procedures (SWPs)** • **Appendix B:** Project Safety and Environmental Risk Register and Control Measures. • **4.7.4: Site inspections:** On a weekly basis the Site Engineers along with the assistance of the HSEQ Manager and/or Site Supervisors will complete a Weekly Site Safety and Environmental Walk to inspect and identify where controls are adequate, inadequate or not relevant. If any inadequate, unsafe or environmentally unsuitable situations are identified which may be deemed serious or life threatening, or significant or threatening to the environment, then a 'Non-conformance Report' will be instigated detailing the corrective and/or preventive action required. • **4.7.5: Plant and equipment pre-start checks.**	Not reviewed as part of this six-monthly Audit.	----	Compliant	
3.9: Calibration	31	Mainland Civil maintains a log or register of all inspection, measuring and testing equipment and provides independent certification of calibrations. The calibrations are carried out as per the manufacturer's written recommendations and records of such work will be maintained on site. This includes; water testing kits, noise meters, air monitors and laser meters. If requested by Frasers Property, the certifications and results of any testing or calibrations will be provided.	• The noise meter was last calibrated on 19 February 2018 and is overdue for calibration. • The vibration monitor was last calibrated on 26 October 2020. • Calibration record of water quality meter requested during the audit, but was not provided by Mainland Civil.	• Calibration record of water quality meter requested during the audit, but was not provided by Mainland Civil.	Not triggered.	

Notes:	
Complaint	
Non-compliant	
Not triggered	

Table B: Independent Audit

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part A		**Monitoring and Environmental Audits**				
A20	32	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. This includes conditions in respect of incident notification, reporting and response, non-compliance notification and independent environmental auditing. Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.	Evidence of monitoring and environmental audit provided in this report.	----	Compliant	
Schedule 2 - Part B		**Independent Environmental Audit**				
B5	33	No later than one month before the commencement of construction or within another timeframe agreed with the Planning Secretary, a program of independent environmental audits must be prepared for the development in accordance with AS/NZS ISO 19011-2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Planning Secretary for information.	A schedule for independent environmental audit(s) was prepared by Environmental Earth Sciences: • Environmental Earth Sciences (2020a), *Schedule for independent environmental audit(s) at Stage 1 Ivanhoe Estate, Macquarie Park, NSW (* ref: 120077_Audit Schedule_V1, 14 August 2020). The schedule was submitted to the Department of Planning, Industry and Environmental (DPIE) whereby the Planning Secretary confirmed the appointment of Environmental Earth Sciences as the independent auditor. Refer to Appendix A for the correspondence letter: • DPIE (2020), *Audit Program, Ivanhoe Estate Stage 1 SSD-8903-PA-2* (ref: Appointment of Experts, 24 August 2020).	----	Compliant	
B6	34	The scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle.	The audit scope is defined in the following: Environmental Earth Sciences (2020a), *Schedule for independent environmental audit(s) at Stage 1 Ivanhoe Estate, Macquarie Park, NSW* (ref: 120077_Audit Schedule_V1, 14 August 2020).	----	Compliant	
B7	35	The environmental audit program prepared and submitted to the Planning Secretary in accordance with Conditions B5 and B6 above must be implemented and complied with for the duration of the development.	It is noted in DPIE (2020) that an annual audit will be implemented and complied with for the duration of the development.	----	Compliant	
B8	36	All independent environmental audits of the development must be conducted by a suitably qualified, experienced and independent team of experts and be documented in an audit report which: (a) assesses the environmental performance of the development, and its effects on the surrounding environment including the community; (b) assesses whether the development is complying with the terms of this consent; (c) reviews the adequacy of any document required under this consent; and (d) recommends measures or actions to improve the environmental performance of the development, and improvements to any document required under this consent.	Independent environmental audit conducted by Environmental Earth Sciences under the guidance of Mark Stuckey, the Environmental Management Systems (EMS) Lead Auditor; and Site Auditor – accredited under the Contaminated Land Management (CLM) Act 1997 (NSW).	----	Compliant	
B9	37	Within three months of commencing an Independent Environmental Audit, or within another timeframe agreed by the Planning Secretary, a copy of the audit report must be submitted to the Planning Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Planning Secretary. Note: The audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Planning Secretary.	A copy of the audit report is submitted by Frasers Property Australia to the Planning Secretary and the City of Ryde Council.	----	Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part B		**Pre-Construction Dilapidation Report**				
B25	38	The Applicant is to engage a suitably qualified structural engineer to prepare a Pre-Construction Dilapidation Report, detailing the current structural condition of all existing adjoining buildings, infrastructure and roads within the 'zone of influence'. The report shall be submitted to the Certifier and Council, prior to issue of the relevant Crown Building Works Certificate for Building A1, or any works commencing, whichever is earlier.	Mainland Civil engaged GreenPlus Property Services as the suitably qualified structural engineer to prepare Pre-Construction Dilapidation Reports: • GreenPlus Property Services (Nov 2020a) – *Pre-construction Dilapidation Inspection, Herring Road in Conjunction with Re-development of Midtown at 1 Ivanhoe Avenue, Macquarie Park* (ref: 820049.1_(Rs), dated 10 November 2020). • GreenPlus Property Services (Nov 2020b) – *Pre-construction Dilapidation Inspection, Display Suite, In Conjunction with Re-development of Midtown at 1 Ivanhoe Avenue, Macquarie Park* (ref: 820049.2_(Rv.1), dated 10 November 2020). • GreenPlus Property Services (Nov 2020c) – *Pre-construction Dilapidation Inspection 155 Herring Road, 1-3 Lachlan Avenue and 1, 3, 5, 7 Peach Tree Road (External Ground and Elevations), In Conjunction with Re-development of Midtown at 1 Ivanhoe Avenue, Macquarie Park* (ref: 820049.3_(Rv.1), dated 10 November 2020).	---	Compliant	
Schedule 2 - Part B		**Construction Environmental Management Plan (CEMP)**				
B40	39	Prior to the commencement of any works, the Applicant shall prepare and implement a Construction Environmental Management Plan (CEMP) for the development and be submitted to the Certifier. The CEMP must be prepared in consultation with, and address the relevant requirements of, Council. The CEMP must: a) describe the relevant stages and phases of construction including work program outlining relevant timeframes for each stage/phase;	Mainland Civil Pty Ltd (2020a), *Integrated Management Plan, Ivanhoe Estate - Macquarie Park* (dated 10 December 2020, Revision E) (the 'IMP'). a) The relevant stages and phases of construction include: Stage 1 – Roadworks – Week 1 to Week 26 Stage 2 – Roadworks – Week 8 to Week 26 Stage 3 – Bulk Excavation to A1 – Week 23 to Week 40.		Compliant	
B40	40	b) describe all activities to be undertaken on the site during site establishment and construction of the development;	Site activities include: site establishment, service locating, tree removals, strip and stockpile existing topsoil and mulch for reuse, demolish existing pavements, cap existing water and remove redundant services, bulk excavation for development of two new roads, service installation, install kerbs and asphalt to new road, install pavers to road and parking bays, design and construct shoring wall to basement and bulk excavation to basement.	---	Compliant	
B40	41	c) include a Dust Management Plan, incorporating the mitigation measures outlined in the Air Quality Assessment, prepared by WSP, dated October 2018.	Refer to **Table A** Numbers 1 - 11 for details on the DMP and AQOMP. 5.4.2: Dust and debris mitigation and control measures: the mitigation measures outlined in the Air Quality Assessment as detailed in 5.4.2	Section 5.8.4 refer to multiple monitors, but only one dust gauge installed each month. What is the reasoning for not having multiple dust gauges installed onsite?	Not triggered	
B40	42	d) clearly outline the stages/phases of construction that require ongoing environmental management monitoring and reporting;	The following require ongoing environmental management monitoring and reporting: soil and water control, dust, noise and vibration, hazardous materials, contaminated materials, construction waste management and complaints.	---	Compliant	
B40	43	e) detail statutory and other obligations that the Applicant is required to fulfil during site establishment and construction, including approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies;	Section 1.8 of the IMP details the legal requirements and other obligations that are applicable to Mainland Cavil's activities during site establishment and construction, and include the Commonwealth Laws, National Codes of Practice, NSW Legislation, NSW Codes of Practice.	----	Compliant	
B40	44	f) be prepared in consultation with Council and include specific consideration of measures to address any requirements of Council during site establishment and construction;		----		
B40	45	g) describe the roles and responsibilities for all relevant employees involved in the site establishment and construction of the works;	Roles and responsibilities for all relevant employees are detailed in Section 1.13 of the IMP and include the following: Site Manager, Health, Safety, Environment & Quality Manager, Senior Project Engineer, Site Engineer and Site Supervisor.	----	Compliant	
B40	46	h) detail how the environmental performance of the site preparation and construction works will be monitored, and what actions will be taken to address identified potential environmental impacts, including but not limited to noise, traffic and air impacts;	Refer to **Table A** Numbers 1 - 11 for Air impacts. Refer to **Table A -** Number 12 for Noise impacts.	----	Compliant	
B40	47	i) include measures to ensure adequate groundwater entitlement is sourced in order to account for groundwater flows into the construction excavations, unless any exemption applies;	Not required. 5.7.4: Construction site rainwater testing, treatment and discharge: Groundwater entitlement is not expected to flow into the excavation zones. According to Douglas Partners Groundwater Monitoring report (dated 30 July 2018, project 86043.01 Revision 5.005.Rev0), the ground water levels are typically below the bulk excavation levels of the works and therefore groundwater entitlement into the construction excavations is not expected and highly unlikely.	Not required.	Not triggered	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
B40	48	j) management of groundwater during construction;	Table 5.7.2: Stormwater and/or infiltrated groundwater (considered unlikely due depth of excavation). Water management: control measures include pH and turbidity testing prior to discharge. • Mainland Civil (2021g), *pH and Turbidity Readings* (ref: Dewatering) document reviewed by Environmental Earth Sciences and the following is noted: • pH and turbidity tested twice in March, twice in May and once in June 2021. • pH readings ranged from 6.74 – 6.99 and turbidity readings ranged from 21.8 – 29.4 Nephelometric Turbidity Unit (NTU). • Water from the sediment basin was discharged to storm water on five occasions. pH and Turbidity readings where within the acceptable criteria for the discharge of water.	Calibration record of water quality meter requested during the audit, but was not provided by Mainland Civil.	Not triggered	
B40	49	k) document and incorporate all relevant sub environmental management plans (Sub-Plans), control plans, studies and monitoring programs required under this part of the consent; and	Refer to point 'h' above.	----	Compliant	
B40	50	l) include arrangements for community consultation and complaints handling procedures during construction.	2.3.2: Complaints Handling Procedure: All environment complaints received from the public and/or regulatory agency are investigated by the site HSEQ Manager. Appendix E: Mainland Civil Site Rules: Any comments, suggestions or complaints from the public in regard to safety and environmental issues in or around the site are to be reported to the Site Supervisor.	• No compaints received during Audit period.	Not triggered	
Schedule 2 - Part B		**Construction Noise and Vibration Management Plan (CNVMP)**				
B42	51	a) be prepared in accordance with the EPA's Interim Construction Noise Guideline	Mainland Civil Pty Ltd (2020), Construction Noise and Vibration Management Plan for Ivanhoe Estate - Macquarie Park, Frasers Property (dated 19/11/2020, Revision A) (the 'CNVMP' report). The CNVMP report was prepared in accordance with • Department of Environment & Climate Change (DECC) (2009), Interim Construction Noise Guideline (DECC, 2009); and • German Standard DIN4150-3:1999 Structural vibration Part 3: Effects of Vibration on Structures. Recommendation from December 2020 audit: Please identify the suitably qualified person, experience and credentials to demonstrate compliance to B42. Rauf Osterman of Osterman Consult has 30 years of experience in the Tunnelling, Construction and Mining Industry. Osterman Consult was engaged by Mainland Civil to conduct noise and vibration monitoring. Refer to **Table A** - Numbers 12 - 14.	----	Compliant	
B42	52	b) identify nearby sensitive receivers and land uses;	Not required. Section 6 of the CNVMP: Nearest Receivers - seven receivers identified and land uses listed.	Not required.	Not triggered	
B42	53	c) identify the noise management levels for the project;	7: Noise monitoring plan - Table 11: Summarised Noise Emission Criteria - noise levels for residential and commercial land uses.	• No noise monitoring conducted during Audit period.	Compliant	
B42	54	d) identify the construction methodology and equipment to be used and the key sources of noise and vibration;	4: Construction Activities: details plant and activities required to complete works. 8: Vibration Management Plan: Mainland Civil works that are expected to cause vibration include: excavation of sandstone; hammering and sawing sandstone; and anchoring (drilling) in sandstone.	Not required.	Not triggered	
B42	55	e) details of all reasonable and feasible management and mitigation measures to be implemented to minimise construction noise and vibration;	Section 7: Noise monitoring plan: Noise control measures. Section 8: Vibration Management Plan - vibration control measures.	• No noise monitoring conducted during Audit period.	Not triggered	
B42	56	f) be consistent with and incorporate all relevant recommendations and noise and vibration mitigation measures outlined in the Stage 1 DA Acoustic Assessment, prepared by Acoustic Logic, dated 15 October 2019	Section 6: Nearest Receivers - details the nearest properties likely to be affected from the report Acoustic Logic (2020), Master Plan for Ivanhoe Estate, Macquarie Park – Additional Noise Monitoring 30/1/2020.	• No noise monitoring conducted during Audit period.	Not triggered	
B42	57	g) ensure all potentially impacted sensitive receivers are informed by letterbox drops prior to the commencement of construction of the nature of works to be carried out, the expected noise levels and duration, as well as contact details for a construction community liaison officer; and	Section 5: Communication Tools: "Prior to the commencement of site works, notice will be provided to nearest receivers via letter drop informing of the upcoming works, the expected noise levels, durations and contact details of the community liaison officer". • Mainland Civil provided Environmental Earth Sciences with the letter provided to neighbouring residents: Mainland Civil Pty Ltd (2020c), *Notice of Construction Commencement, Ivanhoe Estate* (dated 16 December 2020). Refer to **Appendix C** for the interval noise reports and the communication letter.	----	Compliant	

Table B: Independent Audit

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
B42	58	h) include a suitable proactive construction noise and vibration monitoring program which aims to ensure the construction noise and vibration criteria in this consent are not exceeded.	Section 7 : Noise monitoring plan: A full time noise monitor will be installed at monitoring location #3 for the duration of Stage 1A works. Periodic noise monitoring will be conducted at other locations as required. In the event that a noise complaint is received then the monitoring frequency may be increased following a formal review. Noise monitoring was conducted at one location only during January - July 2021. When is regular noise monitoring carried out? Environmental Earth Sciences is not aware of any noise complaints received by Frasers Property or Mainland Civil for the person of January - July 2021.	• No noise monitoring conducted during Audit period.	Not triggered	
			8: Vibration Management Plan: Mainland Civil works that are expected to cause vibration include: • Excavation of sandstone; • Hammering and sawing sandstone; and • Anchoring (drilling) in sandstone.	• No vibration monitoring conducted during Audit period period.	Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part B		**Air Quality and Odour Management Plan (AQOMP)**				
B43	59	a) staged excavation to limit the surface area of exposed odorous material;	Not required. 5.8.1: Sequencing and staging of works will be geared to minimise the area of excavated surfaces open concurrently for extended periods of time and therefore minimise the impact of potential odours.	Not required.	Not triggered	
B43	60	b) application of odour suppressants;	5.8.2: Material Classification and Odour Suppressants - in consultation with environmental consultant. Two options for odour suppression and control are provided. Mainland Civil confirm odour suppressants were not required during the January - July 2021 period.	----	Compliant	
B43	61	c) effective covering of stockpiles and truckloads of excavation spoil; and	5.8.3: Minimising the transfer of excavated material within the site and loading from the source of the excavation is ideal however when this is not possible and stockpiles are generated they will be limited to 2m in height. If there is a requirement to go higher due to space/loading requirements, material stockpiles will need to wetted during the day and covered over night. All trucks carting material off site will cover their loads prior to leaving the site.	No stockpiling undertaken during Audit period.	Not triggered	
B43	62	d) expedited removal of odorous material from the development to a facility legally able to accept those wastes.	5.8.2: Once waste classification for the odorous material is obtained, the material will be removed and transported to a facility licenced to accept the waste. • No odorous material observed. Mainland Civil confirm odour suppressants were not required during the January - July 2021 period.	----	Not triggered	
B43	63	The AQOMP must include proactive and reactive management strategies, key performance indicators (KPIs), monitoring measures, record keeping, response mechanisms, contingency and compliance reporting measures.	5.8.5: Proactive/Reactive Management Strategies & Response Mechanisms. 5.8.7: Compliance protocol. 5.8.8: Contingency Management Strategies includes KPIs. 5.8.4: Onsite Monitoring and Recording and Table 5.8.6: KPIs. Refer to **Table A** Numbers 7 - 11 for details on the AQOMP.	----	Compliant	
Schedule 2 - Part B		**B44. Construction Waste Management Plan (CWMP)**				
B44	64	a. the estimated volume or weight of materials that will be reused, recycled or removed from the site;	Approximately 2,615 tonnes of sandstone VENM disposed offsite to seven different locations. Refer to **Appendix F** for documentation of material beneficially reused.	----	Compliant	
B44	65	b. on-site material storage areas during construction;		----	Compliant	
B44	66	c. materials and methods used during construction to minimise waste;		----	Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
B44	67	d. provide details demonstrating compliance with the relevant legislation, particularly with regard to the removal of asbestos and hazardous waste, the method of containment and control of emission of fibres to the air; **Table 1.8** updated to include codes of practice and guidelines for management and removal of asbestos. NSW EPA (2014) - Waste Classification Guidelines - Part 1: Classifying Waste also referenced in Table 1.8. • 5**.3: Unexpected Finds Protocol:** If the contamination source is verified as asbestos, SafeWork NSW will be notified and approval obtained prior to handling and removal of contaminated material from site. Remediation is to be undertaken as per the Site Environmental Consultants' instruction, Asbestos Management Plan, Asbestos Removal SWMS in accordance with Protection of the Environment Operations (Waste) Regulation 2014. • **5.6.7:** details Hazardous Waste (including potential asbestos) under the following subsections: • 5.6.7.1: Contaminated soil source, location, quantity and characteristics: • 5.6.7.2: Training requirements. • 5.6.7.3: Onsite management: Engagement of hygienist to undertake fibre air monitoring. Dust suppression and wetting down of unknown finds/asbestos fibres. • 5.6.7.4.: Management Practices. • 5.6.7.5.: Waste tracking.	No solid waste or unexpected findings of contmaintion / asbestos were recorded duringt the Audit period.	----	Compliant	
B44	*68*	• 5.6.7.6: Monitoring: All airborne fibre monitoring will be conducted in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust* [NOHSCH:3003(2005)] and analysed at a NATA-accredited laboratory. • 5.6.7.7.: Clearance inspection.	No airborne momnitong for potential asbestos fibres required during Audit period. No other asbestos management required.	----	Compliant	
B44	*69*	e. nomination of the end location of all waste and recycling generated from a facility authorised to accept the material type for processing or disposal; and	*5.6.6:* ***Table 5.6.6a*** *– Recycling and Disposal Facilities: l* ists the recycling and / or waste facility that are nominated to accept the various material types to be disposed offsite. Should the unexpected finds be classified as asbestos, this will disposed at licensed facility who can legally accept asbestos.	Approximately 2,615 tonnes of sandstone VENM disposed offsite to seven different locations. Refer to **Appendix F** for documentation of material beneficially reused.	Compliant	
B44	70	f. identification within the CWMP of the responsibility for the transferral of waste and recycling bins within the property to the collection point.	*5.6.6: Recycling and disposal facilities - Table 5.6.6b – Personnel Responsible for waste transfer.*		Compliant	
Schedule 2 - Part B		**B45. Construction Soil and Water Management Plan (CSWMP)**				

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
B45	71	a. location and extent of all necessary sediment and erosion control measures for the site;	Sediment basin constructed in eastern portion of the site, upstream of Shrimptons Creek. Refer to **Photographs 13 - 16** in **Appendix D.** 5.7: Soil and Water Management Plan: Figure 5.7.2d – Erosion and Sediment Control Plan shows the proposed location of the sediment basin. Table 5.7.2: Soil and Water Sources and Mitigation Methods - provides mitigation measures for soil (sand) management, sediment fines, import of bulk supplies of material and water management for works including excavation and service trenching.	----	Compliant	
B45	72	b. catchment plan;	*5.7.3: Temporary sediment basin.*	----	Compliant	
B45	73	c. sediment basin(s) locations including details showing how runoff from the entire site will be directed to the sediment basin(s). Requirements for sediment basins are specified below;	***Figure 5.7.2d:*** *Erosion and Sediment Control Plan* shows the proposed location of the sediment basin. ***Figure 5.7.3a*** *: Basin Detail Plan* shows runoff from the entire site will be directly to the temporary sediment basin.	----	Compliant	
B45	74	d. all relevant details and calculations of the sediment basins including sizes, depths, flocculation, outlet design, all relevant sections, pump out systems, and depths;	Calculations of the sediment basin are included in ***Figure 5.7.3a*** . Details of the sediment basin are included in *Section 5.7.3: Temporary sediment basin* : size 20 m x 35 m, depth / max ponding level 0.54 m, minimum volume of 1065 m^3, outlet pipes with sieve-style *filtration system. Refer to 5.7.4.* for Flocculation methodology.	----	Compliant	
B45	75	e. all details of basement and other excavation pump out and dewatering treatment systems including flocculation and any proposed discharge from the site from dewatering and pump out systems. Requirements for dewatering are specified below;	• Mainland Civil (2021g), *pH and Turbidity Readings* (ref: Dewatering) document reviewed by Environmental Earth Sciences and the following is noted: • pH and turbidity tested twice in March, twice in May and once in June 2021. • pH readings ranged from 7.2 - 7.8 and turbidity readings ranged from 21 – 35 Nephelometric Turbidity Unit (NTU). • Water from the sediment basin was discharged to storm water on seven occasions. pH and Turbidity readings where within the acceptable criteria for the discharge of water.	----	Compliant	
B45	76	f. identification and management of any stormwater run-on to the site from adjacent sites;	City of Ryde Council issued Direction to Take Preventive Action, Section 96 Protection of the Environment Operations Act 1997 (ref: POEO2021/0008; 18 March 2021) to Mainland Civil following receipt of concerns regarding sediment ladened water in Shrimpton's Creek.	----	Compliant	
B45	77	g. location of any temporary stockpiles (soil, spoil, topsoil or otherwise) and accompanying sediment and erosion control measures;	• During performance review audit site inspection on 11 April 2022, Karin Azzam noted the following: • No stockpiling being undertaken onsite and site and in good condition. • Sediment basin constructed in eastern portion of the site. • Sediment fencing and silt socks installed and in good condition. Refer to **Photographs 11 - 12** in **Appendix D**. • Metal rumble grid installed at site exit to facilitate removal of dirt and debris prior to vehicles leaving site. Waste blasters used to clear tyres also.	----	Compliant	
B45	78	h. location and details of all vehicle wash down bays and associated erosion and sediment control measures such as earthen bunds; and	• Metal rumble grid installed at site exit to facilitate removal of dirt and debris prior to vehicles leaving site. Water blasters used to clear tyres also.	----	Compliant	
B45	79	i. a daily and weekly site inspection checklist consistent with IECA Best Practice Erosion and Sediment Control documents.	No site inspection checklists were made available or reviewed by the Auditor for the period where VENM was being exported (i.e. until 31 January 2022).	At time of inspection there were no bulk earthworks being undertaken - hence no supporitng checklists required for Best Practice Erosion and Sediment Control documents.	Not triggered	
A Sediment Basin is required for every catchment discharging from the site as part of any CSWMP. Sediment basin(s) are to be designed as follows:						
B45	80	a. according to the NSW Blue Book (section 6.3.4 and Appendix E). The calculations of the sediment basin size must be submitted with the CSWMP;	Calculations of the sediment basin are included in **Figure 5.7.3a.**	Not required.	Not triggered	
B45	81	b. using type D soils (unless otherwise demonstrated by an analysis of site soils by a qualified geotechnical);	***Figure 5.7.3a:*** *General notes:* Basin to be constructed and maintained in accordance with Blue Book and Basin to be constructed in accordance with Geotechnical Report (Reference: 86043.03; dated 8 September 2020).		Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
B45	82	c. for all events up to the peak flow rate from the 1 in 10-year ARI event for the site for the 5-day rainfall event; and	On review of Figure 5.7.3a Basin Detail Plan in the IMP, Environmental Earth Sciences is satisfied that the sediment basin is designed for all events up to the peak flow rate from the 1 in 10-year ARI event for the site for the 5-day rainfall event.		Compliant	
B45	83	d. to include a gypsum flocculent to be added to the sediment basin in accordance with Appendix E of the Blue Book.	Section 5.7.4: gypsum, liquid alum or flocculent blocks to be used as flocculent.	Not required.	Not triggered	
Schedule 2 - Part B		**Contamination**				
B55	84	The Applicant must ensure that following demolition of any existing buildings, roads, electricity substations and in-ground utilities as part of the Stage 1 works, further investigation of soil contamination is undertaken within the footprint of those buildings, roads, electricity substations and inground utilities prior to undertaking any construction works. Details confirming compliance must be submitted to the Certifier prior to the commencement of any remediation works.				
B56	85	The Applicant must conduct additional site investigations and prepare an updated Remedial Action Plan (RAP) to address any identified contamination with proper regard to the: (a) NSW EPA Sampling Design Guidelines, 1995; (b) Consultants Reporting on Contaminated Land (Contaminated Land guidelines (EPA, 2020); (d) National Environment Protection (Assessment of Site Contamination) Measure (as amended 2013); and (e) Relevant guidelines approved under section 105 of the Contaminated Land Management Act 1997. Details confirming compliance must be submitted to the Certifier prior to the commencement of any remediation works.	Environmental Earth Sciences prepared an updated RAP • Environmental Earth Sciences (2021o) – *Technical Memorandum: Addendum to Remediation Action Plan at Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120077_RAP Addendum_V1; 29 January 2021)	----	Compliant	
B58	86	The Applicant must provide details of the proposed remediation and validation strategy to the accredited site auditor in a Works Plan and a Validation Sampling and Analysis Quality Plan for review by the site auditor prior to remediation works commencing. Details confirming compliance must be submitted to the Certifier prior to undertaking any remediation works.	The following documents were submitted to the accredited site auditor prior to commencement of remediation works • Environmental Earth Sciences (2021n) – *Technical Memorandum: Additional Investigation at Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120077_Technical Memo_V1; 29 January 2021). • Environmental Earth Sciences (2021o) – *Technical Memorandum: Addendum to Remediation Action Plan at Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120077_RAP Addendum_V1; 29 January 2021).	----	Compliant	
B61	87	The Applicant is to ensure that all reports prepared for the assessment of contamination must be prepared, or reviewed and approved, by a consultant certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) Scheme (Camp(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. Details confirming compliance must be submitted to the Certifier prior to undertaking any remediation works.	All reports prepared for the assessment of contamination were reviewed and approved by: Mark Stuckey Senior Principal / Certified Professional Soil Scientist, Contaminated Site Assessment and Management (CPSS CSAM); or Dr Anna Sheldon Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM).	---	Compliant	
Schedule 2 - Part B		**B64**				
B64	88	The Applicant shall comply with any notification requirements to SafeWork NSW concerning the handling and removal of any asbestos.	Frasers engaged Environmental Earth Sciences as the environmental consultant for management of asbestos impacted material. Asbestos material was managed in accordance with the site specific AMP. • Mainland Civil are licenced with SafeWork NSW for the removal of friable and non-friable asbestos contaminated material – Licence: AD213265. The licence is included in Appendix A of Mainland Civil Pty Ltd (2021), the 'AMP': Mainland Civil Pty Ltd (2021), *Asbestos Management Plan, Ivanhoe Estate – Stage 1, Ivanhoe Place, Macquarie Park, Frasers Property Pty Ltd* (dated 4 February 2021, Revision B, Doc No.: MC-AMP-1378) (the 'AMP'). Safework NSW issued *Notice of intent to remove non-friable asbestos* to Mainland Civil (ref: Notification Number: 940R-00300402-02, dated 4/02/2021) prior to removal of asbestos impacted material from the site.		Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part B		**B65**				
B65	89	Prior to the commencement of any work, the Applicant is required to satisfy the requirements of the Protection of the Environment Operations (Waste) Regulation 2014 with particular reference to Part 7 'asbestos wastes'.	Part 7 of 2014 regulation details transport, disposal and management of asbestos waste. Part 7 - Clauses 78 - 81 - are detailed in Section 9 of the AMP and Section 3 details the contractors / consultants who will be engaged if asbestos is found onsite. • Mainland Civil are licenced with SafeWork NSW for the removal of friable and non-friable asbestos contaminated material – Licence: AD213265. • Waste Disposal Site: Veolia, Horsley Park Waste Management Facility, 716-736 Wallgrove Road, Horsley Park, NSW, 2175 - Environment Protection Licence No. 11584. • Cartage Contractor: Bulk Transport Solutions Pty Ltd. • Licenced Asbestos Assessor: Guangzhou Ju – LAA001176 - Environmental Earth Sciences International. •Asbestos Removal Supervisors: Brett Talbot, Mark Anderson – Mainland Civil. • Asbestos impacted material disposed offsite to facilities that can legally accept asbestos waste. • Frasers Property engaged Environmental Earth Sciences as the suitably qualified consultant and works were completed under the guidance of Guangzhou Ju and Linda Lenihan. • Safework NSW issued Notice of intent to remove non-friable asbestos to Mainland Civil (ref: Notification Number: 940R-00300402-02, dated 4/02/2021) prior to removal of asbestos impacted material from the site.	---	Compliant	
Schedule 2 - Part C		**Construction Noise and Vibration Management**				
C7	90	The development must be constructed with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009). All feasible and reasonable noise and vibration mitigation measures shall be implemented and any activities that could exceed the construction noise or vibration management levels shall be identified and managed in accordance with the CEMP and CNVMP.	In preparing this CNVMP plan, Mainland Civil have considered the following guideline: - DECC Interim Construction Noise Guideline.		Compliant	
C8	91	If the noise from a construction activity is substantially tonal or impulsive in nature (as described in Chapter 4 of the NSW Industrial Noise Policy), 5 dB(A) must be added to the measured construction noise level when comparing the measured noise with the construction noise management levels	Noise is not substantially tonal or impulsive in nature.		Compliant	
C9	92	The Applicant must schedule intra-day 'respite periods' for construction activities predicted to result in noise levels in excess of the "highly noise affected" levels, including the addition of 5 dB to the predicted levels for those activities identified in the *Interim Construction Noise Guideline* as being particularly annoying to noise sensitive receivers.	No noise complaints were received by Mainland Civil or Frasers Property.		Compliant	
C10	93	Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles. If driven piles are required, they must only be installed where outlined in the CEMP.				
C11	94	Vibration caused by construction at any residence or structure outside the subject site must be limited to: (a) for structural damage vibration to buildings (excluding heritage buildings), British Standard BS 7385 Part 2-1993 Evaluation and Measurement for Vibration in Buildings; (b) for structural damage vibration to heritage buildings, German Standard DIN 4150 Part 3 Structural Vibration in Buildings Effects on Structure; (c) for human exposure to vibration, the evaluation criteria presented in British Standard BS 6472- Guide to Evaluate Human Exposure to Vibration in Buildings (1Hz to 80 Hz) for low probability of adverse comment; and (d) these limits apply unless otherwise outlined in the CEMP.	Section 8 of the CNVMP details the vibration goals based on German Standard DIN4150-3 (1999-02).		Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part C		**Contamination**				
C15	95	The Applicant must implement the recommendations of the Remedial Action Plan (Condition B56) as approved by the accredited site auditor.	The following report documented the remediation works and subsequent validation assessment in accordance with the Remedial Action Plan: • Environmental Earth Sciences (2021p) – Validation Report for Ivanhoe Estate (Location BH8), Corner Herring Road and Epping Road, Macquarie Park, NSW (ref: 120077_VAL_BH8_V1; 12 March 2021). NSW EPA accredited Site Auditor (James Davis of Enviroview) issued a Site Audit Report (Enviroview, 2021a) and Site Audit Statement (Enviroview, 2021b) declaring that 'the soil remediation and validation works have been appropriately undertaken and that it is considered that the soils at the site are suitable for the proposed land use': • Enviroview Pty Ltd (2021a) – Site Audit Report, Ivanhoe Estate, Macquarie Park, NSW 2113; (ref: 600184_0301-2019; 6 April 2021) (Enviroview, 2021a). • Enviroview Pty Ltd (2021b) – NSW EPA Site Auditor Scheme, Site Audit Statement, Ivanhoe Estate, Macquarie Park, NSW 2113; (ref: 600184_0301-2019; 6 April 2021) (Enviroview, 2021b).		Compliant	
C16	96	The Applicant must ensure that an appropriate marker layer is installed above any emplaced contaminated fill material contained on the development site.	No contaminated fill material is contained on the development site and therefore marker layer is not required.	Not required.	Not triggered.	
C17	97	The Applicant must ensure all in-ground services are installed above the marker layer, referred to in Condition C16, to minimise any risks to workers undertaking future maintenance work in service trenches.	No contaminated fill material is contained on the development site and therefore marker layer is not required.	Not required.	Not triggered.	
C18	98	Where applicable, the Applicant must develop a Long-Term Environmental Management Plan following remediation of the development site to document: (a) the expected limitations on the development site use; (b) relevant environmental and health and safety processes and procedures; (c) management processes, procedures and responsibilities to be adopted by future site users within the development site; and (d) details on the location and extent of emplaced asbestos impacted soil and other contaminated soil to be contained on the site.	A Long-Term Environmental Management Plan is not required for this site as fill material and underlying natural material was excavated and disposed offsite.	Not required.	Not triggered.	
C19	99	The Applicant is to ensure that any contamination identified as meeting the trigger in the EPA Guidelines for the Duty to Report Contamination is notified in accordance with requirements of section 60 of the Contaminated Land Management Act 1997.	Not applicable.	Not required.	Not triggered.	
C20	100	The Applicant is to ensure the proposed development does not result in a change of risk in relation to any pre-existing contamination on the site that would result in significant contamination.	Pre-existing contamination was remediated and validated.	Not required.	Not triggered.	
C21	101	Should any new information come to light during demolition or construction works which has the potential to alter previous conclusions about site contamination, the Department must be immediately notified and works must cease. Works must not recommence on site until the Department confirms works can recommence.	Asbestos impacted material was identified as an unexpected findings and managed in accordance with Mainland Civils *Asbestos Management Plan:* Mainland Civil Pty Ltd (2021), Asbestos Management Plan, Ivanhoe Estate – Stage 1, Ivanhoe Place, Macquarie Park, Frasers Property Pty Ltd (dated 4 February 2021, Revision B, Doc No.: MC-AMP-1378) (the 'AMP').	----	Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part C		**Waste Management**				
C28	102	Notwithstanding the CWMP referred to in Condition B44, the Applicant must ensure that: a) all waste generated by the development is classified and managed in accordance with the EPA's Waste Classification Guidelines Part 1: Classifying Waste 2009; b) all waste generated by the development is treated and/or disposed of at a facility that has sufficient capacity to and may lawfully accept that waste; c) any vehicle used to transport waste or excavation spoil from the site is covered before leaving the premises; d) the wheels of any vehicle, trailer or mobilised plant leaving the site and cleaned of debris prior to leaving the premises.	a) All waste generated were classified and managed in accordance with the NSW EPA (2014) — *Waste Classification Guidelines – Part 1: Classifying Waste* (EPA, 2014). b) All waste generated by the development were disposed at facilities that have sufficient capacity to and may lawfully accept that waste. c) Environmental Earth Sciences field staff attended site regularly from January - March 2021 and monthly during May - July 2021 and observed trucks had covered their loads prior to leaving site. Traffic control management was also present during removal of material from site. d) Metal rumble grid installed at site exit to facilitate removal of sediment and other materials prior to vehicles leaving site. Water blasters used to clear tyres also.	No solid waste managed during this audit period.	Compliant	
Schedule 2 - Part C		**Management of Construction Waste**				
C31	103	Waste materials must be appropriately stored and secured within a designated waste area onsite at all times, prior to reuse or being sent offsite. This includes waste materials such as paper and containers which must not litter the site or leave the site onto neighbouring public or private property. Receipts of all waste/recycling tipping must be retained and produced in a legible form to any authorised officer of the Council who asks to see them.	Receipts of all waste/recycling tipping are retained by Mainland Civil and provided to Environmental Earth Sciences as part of this audit. Good housekeeping practices were noted during Environmental Earth Sciences site inspections.	----	Compliant	
Schedule 2 - Part C		**Identification and Removal of Hazardous Waste**				
C32	104	Any hazardous materials, including asbestos, must be identified before demolition work commences and be removed in a safe manner.	Buildings demolished prior to commencement of Stage 1A construction works. Environmental Earth Sciences and GreenPlus Property conducted a site wide visual inspection of the ground surface following demolition of buildings: Environmental Earth Sciences (2020) – *Clearance certificate for Stages 2, 3 and 4 at Ivanhoe Estate, Macquarie Park, NSW* (ref: 120064_CC_V1; 23 June 2020).	----	Compliant	
C33	105	Removal of asbestos and other hazardous building materials must be undertaken by a suitably licensed contractor and an asbestos clearance certificate must be provided before waste classification, disposal or site validation is undertaken.	----	No management required	Compliant	
Schedule 2 - Part C		**Covering of Loads**				
C34	106	All vehicles involved in the excavation and / or demolition process and departing from the property with materials, spoil or loose matter must have their loads fully covered before entering the public roadway.	----	----	Compliant	
Schedule 2 - Part C		**Vehicle Cleansing**				
C35	107	Prior to the commencement of work and during construction works, suitable measures are to be implemented to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site. It is an offence to allow, permit or cause materials to pollute or be placed in a position from which they may pollute waters.	Metal rumble grid installed at site exit to facilitate removal of sediment and other materials prior to vehicles leaving site. Water blasters used to clear tyres also.	---	Compliant	

Table B: Independent Audit

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part C		**Stockpile Management**				
C36	108	The Applicant must ensure: a) stockpiles of material do not exceed 4 metres in height; b) stockpiles of material are constructed and maintained to prevent cross contamination; and c) suitable erosion and sediment controls are in place for stockpiles.	a) Environmental Earth Sciences field staff attended site regularly from January - March 2021 and monthly during May - July 2021 and stockpiles were below 4 m in height. b) Stockpiles of asbestos impacted material were kept separate to avoid cross contamination prior to offsite disposal. c) During performance review audit site inspection, the following was noted: • Site fencing and barriers in place across the site and in good condition. • Sediment basin constructed in eastern portion of the site. • Sediment fencing and silt socks installed and in good condition. Refer to **Photographs 4 - 12** in **Appendix D.**		Compliant	
Schedule 2 - Part C		**Erosion and Sediment Control**				
C37	109	All erosion and sediment control measures are to be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works has been stabilised and rehabilitated so that it no longer acts as a source of sediment.	Erosion and sediment control measures are effectively implemented and in good condition on the day of the site audit inspection.	----	Compliant	
Schedule 2 - Part C		**Dust Control Measures**				
C38	110	Adequate measures shall be taken to prevent dust from affecting the amenity of the neighbourhood during construction. In particular, the following measures should be adopted: a) physical barriers shall be erected at right angles to the prevailing wind direction or shall be placed around or over dust sources to prevent wind or activity from generating dust emissions; b) earthworks and scheduling activities shall be managed to coincide with the next stage of development to minimise the amount of time the site is left cut or exposed; c) all materials shall be stored or stockpiled at suitable locations and stockpiles shall be maintained at manageable sizes which allow them to be covered, if necessary, to control emissions of dust and/or VOCs/odour; d) the surface should be dampened slightly to prevent dust from becoming airborne but should not be wet to the extent that run-off occurs; e) all vehicles carrying spoil or rubble to or from the site shall at all times be covered to prevent the escape of dust or other material; f) all equipment wheels shall be washed before exiting the site using manual or automated sprayers and drive-through washing bays; g) gates shall be closed between vehicle movements and shall be fitted with shade cloth; and h) cleaning of footpaths and roadways shall be carried out regularly.	a) Physical barriers are in place to prevent wind or activity from generating dust emissions. b) --- c) --- d) --- e) --- f) Metal rumble grid installed at site exit to facilitate removal of dirt and debris prior to vehicles leaving site. Water blasters used to clear wheels. g) Gate is fitted with shade cloth. h) Roadways regularily cleaned.		Compliant	

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part C		**Stormwater**				
C49	111	During construction, the following measures should be incorporated with direction from a suitably qualified Chartered Civil Engineer (registered on the NER of Engineers Australia) or equivalent: (a) construction equipment, materials, stockpile, access roads and work platforms should not be sited within floodways where the distribution of flood flows will be significantly altered and increase flood impacts on adjoining properties; (b) hazardous material should be sited so that the risk of such material entering a watercourse during a flood event is minimised; (c) appropriate activities and methodologies should be put in place that addresses awareness, preparedness, response and recovery from a flood event in regard to such things as work health and safety, waterway impacts, site impacts and site re-establishment should a flood event occur during construction; and (d) temporary measures shall be provided and regularly maintained during demolition, excavation and construction to prevent sediment and polluted waters discharging from the site.	(a) Environmental Earth Sciences noted good housekeeping practices during the site audit inspection. (b) Diesel and petrol are stored in fuel jerry cans locked in bunded fuel cages on site near the site accommodation sheds. (c) Sediment basin constructed in eastern portion of the site. (d) Sediment basin constructed in eastern portion of the site. Sediment fencing and silt socks installed and in good condition. Refer to **Appendix D.**	----	Compliant	
Schedule 2 - Part C		**Bunding**				
C52	112	The Applicant shall store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, EPL requirements and/or EPA's Storing and Handling Liquids: Environmental Protection – Participants Handbook.	Mainland Civil stores 100 litres (L) of diesel and 100 L of petrol onsite at any one time. Diesel and petrol are stored in fuel jerry cans locked in bunded fuel cages on site near the site accommodation sheds.	----	Compliant	
Schedule 2 - Part D		**Contamination**				
D5	113	The recommendations of the Remedial Action Plan (Condition B56) are to be implemented, including provision of a Section A Site Audit Statement, issued by an EPA accredited site auditor, to the Certifier at the completion of remediation and validation works, certifying suitability of that part of the site requiring remediation as identified in the Remedial Action Plan for the approved use.	NSW EPA accredited Site Auditor (James Davis of Enviroview) issued a Site Audit Report (Enviroview, 2021a) and Site Audit Statement (Enviroview, 2021b) declaring that 'the soil remediation and validation works have been appropriately undertaken and that it is considered that the soils at the site are suitable for the proposed land use': • Enviroview Pty Ltd (2021a) – *Site Audit Report, Ivanhoe Estate, Macquarie Park, NSW 2113* ; (ref: 600184_0301-2019; 6 April 2021) (Enviroview, 2021a). • Enviroview Pty Ltd (2021b) – *NSW EPA Site Auditor Scheme, Site Audit Statement, Ivanhoe Estate, Macquarie Park, NSW 2113* ; (ref: 600184_0301-2019; 6 April 2021) (Enviroview, 2021b).	----	Compliant	
D6	114	On completion of remediation work and prior to any occupation, the relevant requirements of clauses 17 and 18 of SEPP 55 – Remediation of Land, being notification to Council, shall be complied with. Groundwater is not to be abstracted from the site for beneficial use.	The following report documented the remediation works and subsequent validation assessment in accordance with the Remedial Action Plan: • Environmental Earth Sciences (2021p) – *Validation Report for Ivanhoe Estate (Location BH8), Corner Herring Road and Epping Road, Macquarie Park, NSW* (ref: 120077_VAL_BH8_V1; 12 March 2021). It is Environmental Earth Sciences understanding that groundwater was not abstracted from the site for beneficial use.	----	Compliant	

Table B: Independent Audit

Condition of consent number	Number	Compliance Requirement	Evidence collected (Data/document author, date, title, reference number)	Independent Audit Comment & Recommendations	Compliance status	Proponent Response to Findings
Schedule 2 - Part D		**Post-Construction Dilapidation Report**				
D19	115	Prior to the occupation or use of each building: a) the Applicant must engage a suitably qualified person to prepare a post-construction dilapidation report. This report must ascertain whether the construction works created any structural damage to adjoining buildings, infrastructure and roads. b) the report is to be submitted to the Certifier. In ascertaining whether adverse structural damage has occurred to adjoining buildings, infrastructure and roads, the Certifier must: c) compare the post-construction dilapidation report with the pre-construction dilapidation report required by these conditions; d) have written confirmation from the relevant authority that there is no adverse structural damage to their infrastructure and roads; and e) a copy of this report is to be forwarded to the Certifier, the Planning Secretary and each of the affected property owners.	----	GreenPlus Property Services is engaged by Mainland Civil to complete the post-construction dilapidation report.	Not triggered as the report is yet to be completed.	
Schedule 2 - Part D		**Contamination**				
D52	116	A Section A1 Site Audit Statement – or a Section A2 Site Audit Statement accompanied by an Environmental Management Plan (prepared by a NSW EPA-accredited Site Auditor) – certifying that the site is suitable for the proposed use, must be submitted to the Planning Secretary and the Certifier prior to use of the relevant buildings and infrastructure included in this consent.	NSW EPA accredited Site Auditor (James Davis of Enviroview) issued a Site Audit Report (Enviroview, 2021a) and Site Audit Statement (Enviroview, 2021b) declaring that 'the soil remediation and validation works have been appropriately undertaken and that it is considered that the soils at the site are suitable for the proposed land use': • Enviroview Pty Ltd (2021a) – *Site Audit Report, Ivanhoe Estate, Macquarie Park, NSW 2113* ; (ref: 600184_0301-2019; 6 April 2021) (Enviroview, 2021a). • Enviroview Pty Ltd (2021b) – *NSW EPA Site Auditor Scheme, Site Audit Statement, Ivanhoe Estate, Macquarie Park, NSW 2113;* (ref: 600184_0301-2019; 6 April 2021) (Enviroview, 2021b).	----	Compliant	
		Notes:				
		Complaint				
		Non-compliant				
		Not triggered				

APPENDIX C: INDEPENDENT AUDIT DECLERATION FORM

ENVIRONMENTAL EARTH SCIENCES
CONTAMINATION RESOLVED

Independent Audit Report Declaration Form	
Project Name	Stage 1 Ivanhoe Estate
Consent Number	SSD 8903 MOD 1
Description of Project	Review of Environmental Management Practices as part of Stage 1 Construction Works, Building A1 area
Project Address	Ivanhoe Estate, Macquarie Park, NSW
Proponent	Frasers Property Australia
Title of Audit	Independent Six-monthly Environmental Audit, Stage 1 Ivanhoe Estate, Building A 1, Macquarie Park, NSW (Version 1)
Date	13 June 2022

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge the audit has been undertaken in accordance with relevant condition(s) of consent and the Independent Audit Compliance Requirements (Department 2018):

i. the findings of the audit are reported truthfully, accurately and completely;

ii. I have exercised due diligence and professional judgement in conducting the audit;

iii. I have acted professionally, objectively and in an unbiased manner;

iv. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child;

v. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child;

vi. neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit; and

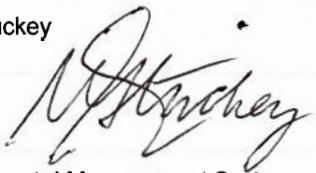
vii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Notes:

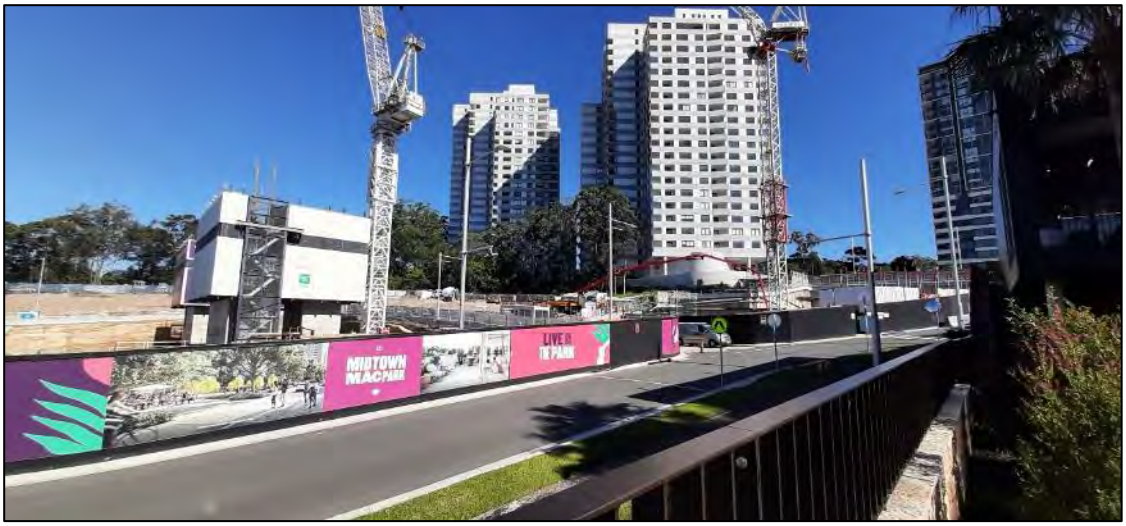
a. Under section 10.6 of the Environmental Planning and Assessment Act 1979 a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or

misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000; and

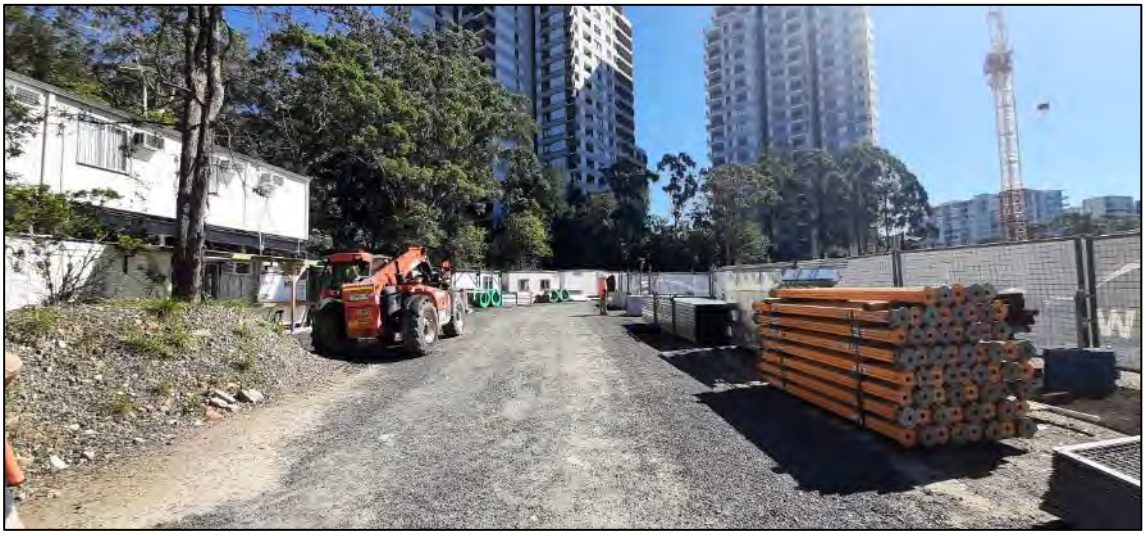
b. The Crimes Act 1900 contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Independent Auditor Declaration	
Name of Auditor	Mark Stuckey
Signature	
Qualification	Environmental Management Systems (EMS) Lead Auditor; and Site Auditor – accredited under the Contaminated Land Management (CLM) Act 1997 in New South Wales
Company	Environmental Earth Sciences NSW
Company Address	PO Box 380, North Sydney NSW 2059

APPENDIX D: SITE INSPECTION PHOTOGRAPHS



1. Facing west from sales and display centre carpark towards basement construction works for the A1 building (right) and C1 building (left).



2. Site office (left) and storage of material (right).

3.

4. Worksite at A1 building

5. Construction in progress of basement levels of A1 building.

6. Concrete vehicles onsite.

7. Spill response bin

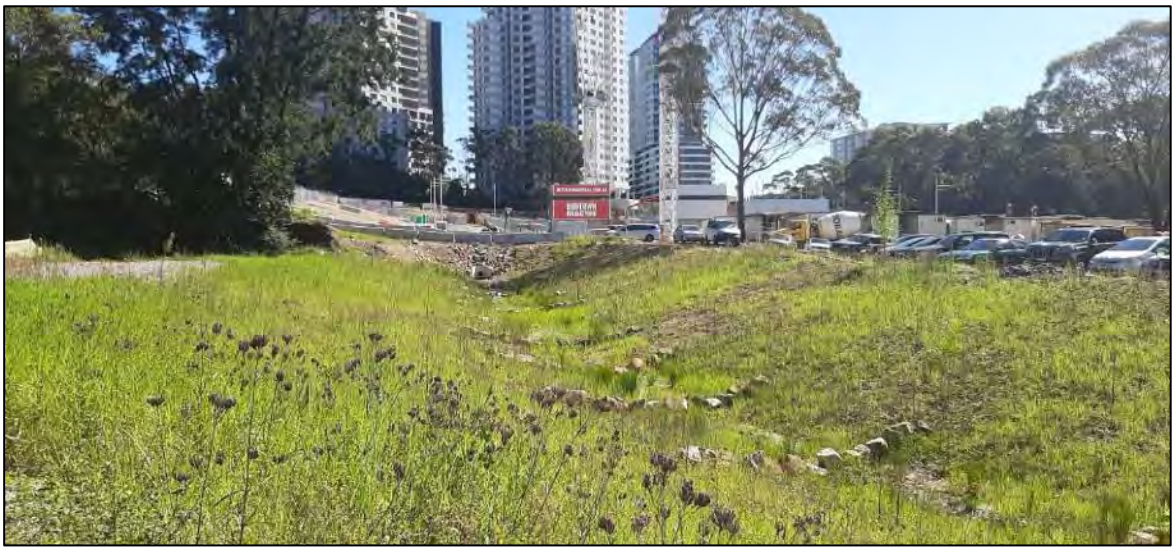
8. Flammable fuel in locked cage.

9. Secure storage for diesel.

10. Skip bin for general waste.

11. Silt bags and fabric filter installed around stormwater drain downstream from work site.

12. Stormwater drain downstream along eastern side of access road.



13. South western swale drain with rock check dams – facing north east.

14. South western swale drain – facing south towards sedimentation basin.

15. Sedimentation basin – facing south south south west.

16. Secondary sedimentation basin with overrun into third basin and evenually grass.

17. Clean access way with A class hoarding installed around construction works preventing dust and debris escaping the work zone. .

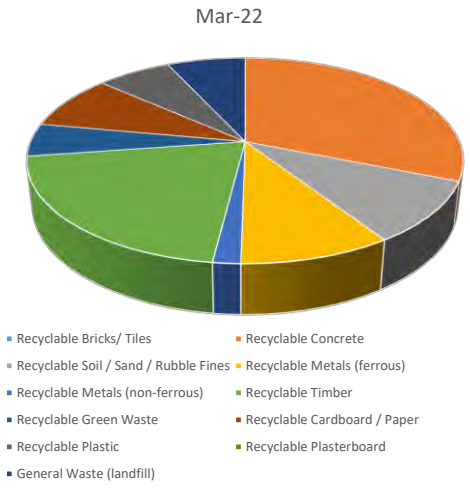
18. Hoarding installed along Road No. 2.

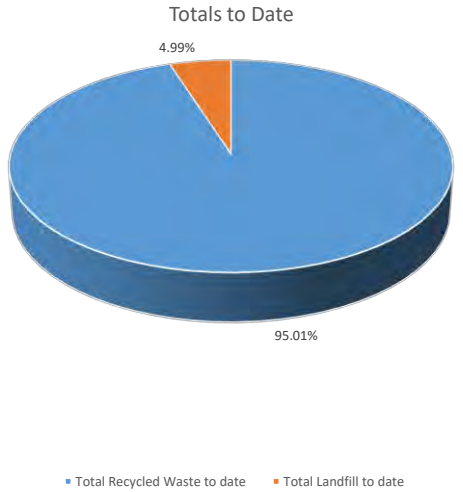
19. Main entry into the site

APPENDIX E: WASTE MANAGEMENT SUMMARY

Monthly Waste Report
Parkview Constructions
Site: 1 Ivanhoe Place, Macquarie Park

Waste Type (tonnes)	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Totals
Recyclable Bricks/ Tiles	0.432	0.000	0.000	0.000	1.368	0.000										1.800
Recyclable Concrete	13.500	0.990	3.450	23.400	10.260	9.450										61.050
Recyclable Soil / Sand / Rubble Fines	5.040	0.000	1.610	6.552	12.768	2.940										28.910
Recyclable Metals (ferrous)	0.720	0.550	1.150	2.340	2.850	2.888										10.498
Recyclable Metals (non-ferrous)	0.000	0.000	0.575	0.000	0.855	0.525										1.955
Recyclable Timber	2.700	1.980	0.690	7.020	5.130	6.300										23.820
Recyclable Green Waste	0.000	0.000	0.000	0.000	0.000	1.575										1.575
Recyclable Cardboard / Paper	0.576	0.550	0.460	0.936	2.850	2.625										7.997
Recyclable Plastic	0.180	0.484	0.345	0.780	2.508	1.995										6.292
Recyclable Plasterboard	0.000	0.000	0.000	0.000	0.000	0.000										0.000
General Waste (landfill)	0.720	0.440	0.460	1.560	2.280	2.100										7.560
Total Recycled Waste (tonnes)	23.148	4.554	8.280	41.028	38.589	28.298	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	143.897
Total Landfill Waste (tonnes)	0.720	0.440	0.460	1.560	2.280	2.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.560
Total Waste (tonnes)	23.868	4.994	8.740	42.588	40.869	30.398	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	151.457
Total Waste (cubic metres)	36	22	23	78	114	105										378.000
Total Recycled Waste (percentage)	96.98%	91.19%	94.74%	96.34%	94.42%	93.09%										
Total Recycled Waste (percentage) To Date																95.01%





APPENDIX F: VENM TRACKING DOCUMENTATION

Form MC-PA-13

DAILY RECORD OF LOADS

A1

Mainland Civil

JOB NO:	1378	TIP COMPANY:	DATE: 20/10/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	MATERIAL: VENM SANDSTONE
STREET EXIT:	Herring Road	SUBURB: BOX HILL	IMPORT / EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED 1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	LEG9CO	T+D	BT	DEAN	7:00	10:18	11:51	13:40	X						4	
					7:04	10:26	12:08	13:55	X							
2	XN32UK	T+D	BT	RONNIE	7:00	10:20	11:58	13:48	X						4	
					7:09	10:38	12:13	14:	X							
3	CI44RO	T+D	BT	MICK	7:02	10:21	11:59	13:42	X						4	
					7:13	10:39	12:19	1402	X							
4	GHOS77	T+D	GHOSSAYN GROUP	ROGER. 0405 765335	7:28	11:01	13:14	14:58	X						4	
					7:18	11:05	13:22	15:06	X							
5	GHOS59	T+D	GHOSSAYN GROUP	SIME 0420013558	7:13	10:51	12:40	14:16	X						4	
					7:22	10:54	12:45	14:22	X							
6	CL04WN	T+D	GHOSSAYN GROUP	ALEX. 0457018580	7:23	11:10	13:14	15:11	X						4	
					7:27	11:15	13:25	15:20	X							
7																
8																
9																
10																

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 24 LOADS; VOLUME

INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)

COSTED (Highlight if Costed)

IN CARTAGE SUMMARY (Highlight if Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

(A1)

Mainland Civil

JOB NO:	1378	TIP COMPANY:	DATE: 20/10/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	MATERIAL: VENM ~~SANDSTONE~~
STREET EXIT:	Herring Road	SUBURB: SPRING FARM	IMPORT / EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED 1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	TRI008	T+D	TRIPOD1		9:16 / 9:28										1	
2	TRI031	T+D	TRIPOD1		10:14 / 10:22										1	
3	TRI043	T+D	TRIPOD1		11:00 / 11:06										1	
4	TRI007	T+D	TRIPOD1		11:56 / 12:10	14:50 / 14:55									2	
5	TRI027	T+D	TRIPOD1		12:22 / 12:30	14:50 / 15:02									2	
6	TRI 028	T+D	TRIPOD 1		13:22 / 13:32										1	
7	TRI055	T+D	TRIPOD1		13:35 / 13:40										1	
8																
9																
10																

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 9 LOADS

VOLUME

INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)

COSTED (Highlight if Costed)

IN CARTAGE SUMMARY (Highlight if Entered)

Form MC-PA-13

DAILY RECORD OF LOADS A1

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	20/10/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	ENM SANDSTONE
STREET EXIT:	Herring Road	SUBURB:	WERRINGTON	IMPORT	EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED										TOTAL No.OF LOADS	TOTAL VOLUME m3
					1	2	3	4	5	6	7	8	9	10		
1	LEG900	T+D	BT	DEAN	Time In 8:35 Time Out 8:40										1	
2	XN32NK	T+D	BT	RONNIE	Time In 8:37 Time Out 8:45										1	
3	CE4420	T+D	BT	MICK	Time In 8:44 Time Out 8:50										1	
4	GHOS11	T+D	GHOSSAIN	ROGER	Time In 9:09 Time Out 9:14										1	
5	GHOS59	T+D	"	SIME	Time In 9:18 Time Out 9:18										1	
6	CLOWN	T+D	"	ALEX	Time In 9:24 Time Out 9:30										1	
7					Time In Time Out											
8					Time In Time Out											
9					Time In Time Out											
10					Time In Time Out											

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

	LOADS	VOLUME
DAILY TOTAL	6.	

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED
(Highlight if Costed)

IN CARTAGE SUMMARY
(Highlight if Entered)

Form MC-PA-13

((LY RECORD OF LOADS A1. (

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	15/11/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	VENM SANDSTONE
STREET EXIT:	Herring Road	SUBURB:	SPRING FARM.	IMPORT	EXPORT

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED										TOTAL No.OF LOADS	TOTAL VOLUME m3
				1	2	3	4	5	6	7	8	9	10		
1			Time In	15:10	X									1	
TR1043	T+D	TRIRODI	Time Out	15:20											
2			Time In												
			Time Out												
3			Time In												
			Time Out												
4			Time In												
			Time Out												
5			Time In												
			Time Out												
6			Time In												
			Time Out												
7			Time In												
			Time Out												
8			Time In												
			Time Out												
9			Time In												
			Time Out												
10			Time In												
			Time Out												

LOCATION:			
COMMENTS: (stoppages, breakdowns etc.)		DAILY TOTAL	1 LOADS / VOLUME
INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)		COSTED (Highlight if Costed)	IN CARTAGE SUMMARY (Highlight if Entered)

Form MC-PA-13

LY RECORD OF LOADS A1

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	15/11/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	VGM SANDSTONE
STREET EXIT:	Herring Road	SUBURB:	WERRINGTON	IMPORT	EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED 1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	XN221U.	T+D	BT	ROSS	Time In 12:53	14:40	X								2	
					Time Out 12:57	4:45										
2	BTPETE	T+D	BT	KEVIN	Time In 12:55	X									1	
					Time Out 13:08											
3	CI4420	T+D	BT	MICK.	Time In 12:57	X									1	
					Time Out 13:14											
4	DUKSHV	T+D	BT.	ADAM	Time In 13:35	X									1	
					Time Out 13:44											
5					Time In											
					Time Out											
6					Time In											
					Time Out											
7					Time In											
					Time Out											
8					Time In											
					Time Out											
9					Time In											
					Time Out											
10					Time In											
					Time Out											

LOCATION:			
COMMENTS: (stoppages, breakdowns etc.)		DAILY TOTAL	5 LOADS / VOLUME
INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)		COSTED (Highlight if Costed)	IN CARTAGE SUMMARY (Highlight if Entered)

Form MC-PA-13

DAILY RECORD OF LOADS A1

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	15/11/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	VENM SANDSTONE
STREET EXIT:	Herring Road	SUBURB:	MELROSE PARK.	IMPORT	EXPORT

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1 LEG950	T+D	BT	SHANE	Time In	8:16	9:14	10:02	10:56	11:44	12:42	13:29	X			7	
				Time Out	8:24	9:18	10:18	11:07	12:08	12:51	13:36					
2				Time In												
				Time Out												
3				Time In												
				Time Out												
4				Time In												
				Time Out												
5				Time In												
				Time Out												
6				Time In												
				Time Out												
7				Time In												
				Time Out												
8				Time In												
				Time Out												
9				Time In												
				Time Out												
10				Time In												
				Time Out												

LOCATION:		DAILY TOTAL	7. LOADS / VOLUME
COMMENTS: (stoppages, breakdowns etc.)			
INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)		COSTED (Highlight if Costed)	IN CARTAGE SUMMARY (Highlight if Entered)

Form MC-PA-13

DAILY RECORD OF LOADS A1

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	15/11/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	VENM SANDSTONE
STREET EXIT:	Herring Road	SUBURB:	BOX HILL	IMPORT	EXPORT

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1 XN41RN	T+D	BT	TRAVIS	Time In	7:47	9:35	10:56	12:31	13:56	15:16	X				6	
				Time Out	8:04	9:41	11:15	12:40	14:03	15:30						
2 BTPETE	T+D	BT	KEVIN	Time In	8:03	9:55	11:31	12:55	14:42	X					4	
				Time Out	8:11	10:13	11:40	13:00	14:54							
3 XN22LU	T+D	BT	ROSS	Time In	8:08	9:55	11:24	12:53							3	
				Time Out	8:18	10:07	11:32	X								
4 DUKSHV	T+D	BT	ADAM	Time In	8:16	10:07	11:45	X							3	
				Time Out	8:30	10:30	12:16									
5 CI4420	T+D	BT	MICK	Time In	8:27	10:05	11:42	14:50	X						4	
				Time Out	8:36	10:24	11:55	15:00								
6 LEG950	T+D	BT	SHANE	Time In	14:15	X									1	
				Time Out	14:22	X										
7				Time In												
				Time Out												
8				Time In												
				Time Out												
9				Time In												
				Time Out												
10				Time In												
				Time Out												

LOCATION:	DAILY TOTAL	21 LOADS / VOLUME
COMMENTS: (stoppages, breakdowns etc.)		
INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)	COSTED (Highlight If Costed)	IN CARTAGE SUMMARY (Highlight If Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	Concrete Recyclers	DATE:	15/11/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	20mm Ag
STREET EXIT:	Herring Road	SUBURB:	Camelling	IMPORT / EXPORT	

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED										TOTAL No.OF LOADS	TOTAL VOLUME m3
				1	2	3	4	5	6	7	8	9	10		
1 CM49TM	10	Concrete Recyclers	Time In / Time Out	7:18	8:34	10:15	X							3	
2			Time In / Time Out												
3			Time In / Time Out												
4			Time In / Time Out												
5			Time In / Time Out												
6			Time In / Time Out												
7			Time In / Time Out												
8			Time In / Time Out												
9			Time In / Time Out												
10			Time In / Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL	3 LOADS	VOLUME

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED
(Highlight If Costed)

IN CARTAGE SUMMARY
(Highlight If Entered)

Form MC-PA-13

LY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	
STREET EXIT:	Herring Road	SUBURB:	WERRINGTON.

DATE: 16/11/21
MATERIAL: VENM SANDSTONE
IMPORT / EXPORT (EXPORT)

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1 XO44BP	T+D			Time In	7:05	9:20	11:18	13:17	X						4	
				Time Out	7:19	9:28	11:33	13:32								
2 XN220Q	T+D			Time In	7:35	9:47	11:53	13:59	X						4	
				Time Out	7:50	9:54	12:01	14:09								
3 BLKD4C	~~T+D~~ 10			Time In	7:37										1	
				Time Out	8:04											
4 XNO1QZ	T+D			Time In	7:37	9:55	11:41	13:28	15:07	X					5	
				Time Out	7:57	10:02	11:52	13:34	15:13							
5				Time In												
				Time Out												
6				Time In												
				Time Out												
7				Time In												
				Time Out												
8				Time In												
				Time Out												
9				Time In												
				Time Out												
10				Time In												
				Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 13 T+D, 1 10W. (LOADS / VOLUME)

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED
(Highlight If Costed)

IN CARTAGE SUMMARY
(Highlight If Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	16/11/21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	VENM SANDSTONE
STREET EXIT:	Herring Road	SUBURB:	SCHOFIELDS	IMPORT	EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	LEG950	T+D	BT	SHANE	Time In	7:10	8:45	X								2	
					Time Out	7:29	8:59										
2	DUKSHV	T+D	BT	ADAM	Time In	7:20	8:45	10:01	11:14	12:31	13:53	X				6	
					Time Out	7:33	8:53	10:10	11:25	12:41	14:00						
3	BTPETE	T+D	BT	KEVIN	Time In	7:24	9:02	10:22	11:37	13:00	14:19	X				6	
					Time Out	7:38	9:10	10:27	11:45	13:10	14:25						
4	XNS60H	T+D	BT	SHANE	Time In	10:45	12:09	13:37	X							3	
					Time Out	10:50	12:14	13:46									
5					Time In												
					Time Out												
6					Time In												
					Time Out												
7					Time In												
					Time Out												
8					Time In												
					Time Out												
9					Time In												
					Time Out												
10					Time In												
					Time Out												

LOCATION:			
COMMENTS: (stoppages, breakdowns etc.)		DAILY TOTAL	17 LOADS / VOLUME
INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)		COSTED (Highlight If Costed)	IN CARTAGE SUMMARY (Highlight If Entered)

Form MC-PA-13

LY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	Concrete Recyclers
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	
STREET EXIT:	Herring Road	SUBURB:	Coolum

DATE: 16/11/21

MATERIAL: 20mm AGG

IMPORT / EXPORT

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1		Concrete Recyclers		Time In	7:00										1	
				Time Out	7:10											
2 XOO8CU	B	Concrete Recyclers		Time In	8:19										1	
				Time Out	8:25											
3 ASC440.	B	Concrete Recyclers		Time In	8:38										1	
				Time Out	8:48											
4 CM49TM	10.	Concrete Recyclers		Time In	10:20	14:02									2	
				Time Out	10:26	14:10										
5				Time In												
				Time Out												
6				Time In												
				Time Out												
7				Time In												
				Time Out												
8				Time In												
				Time Out												
9				Time In												
				Time Out												
10				Time In												
				Time Out												

LOCATION: 8.

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 5 LOADS; VOLUME

INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)

COSTED (Highlight If Costed)

IN CARTAGE SUMMARY (Highlight If Entered)

Form MC-PA-13

LY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	19-11-21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	SAND STONE
STREET EXIT:	Herring Road	SUBURB:	SCHOFIELDS	IMPORT	EXPORT

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED										TOTAL No.OF LOADS	TOTAL VOLUME m3
				1	2	3	4	5	6	7	8	9	10		
1 LEG900			Time In	07:15	08:34	09:46	11:03	12:16	13:33	14:52				7	
			Time Out	07:21	08:38	09:53	11:09	12:20	13:40	15:00					
2 XN32VK.			Time In	07:21	08:39	09:56	11:14	12:27	13:46	15:05				7	
			Time Out	07:24	08:43	10:02	11:19	12:32	13:51	15:14					
3			Time In												
			Time Out												
4			Time In												
			Time Out												
5			Time In												
			Time Out												
6			Time In												
			Time Out												
7			Time In												
			Time Out												
8			Time In												
			Time Out												
9			Time In												
			Time Out												
10			Time In												
			Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL	LOADS	VOLUME

INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)		COSTED (Highlight If Costed)	IN CARTAGE SUMMARY (Highlight If Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	
STREET EXIT:	Herring Road	SUBURB:	MELROSE

DATE: 19-11-21
MATERIAL: SANDSTONE
IMPORT / EXPORT (EXPORT)

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1 BT PETE				Time In	07:27	08 24	09 21	10 16	11 22	12 20	13 21	14 12			8	
				Time Out	07:31	08 30	09 26	10 22	11 27	12 25	13 27	14 20				
2 CG15MM				Time In	07:31	08 30	09 28	10 25	11 35	13 27	14 20	15			7	
				Time Out	07:36	08 25	09 32	10 32	11 40	13 33	14 21					
3				Time In												
				Time Out												
4				Time In												
				Time Out												
5				Time In												
				Time Out												
6				Time In												
				Time Out												
7				Time In												
				Time Out												
8				Time In												
				Time Out												
9				Time In												
				Time Out												
10				Time In												
				Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.) LOAD 5 (MM) Trailer couldn't be filled ASIDE with tail gate - 1/2 LOAD

	DAILY TOTAL	LOADS	VOLUME
INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)	COSTED (Highlight if Costed)	IN CARTAGE SUMMARY (Highlight if Entered)	

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	
STREET EXIT:	Herring Road	SUBURB:	MELROSE

DATE: 20-11-21

MATERIAL: SANDSTONE

IMPORT / EXPORT

TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1 BTPETE	T&D			Time In	7.03	7.55	8.55	X							3	
				Time Out	7.12	8.03	9.00									
2 CG15MM	T&D			Time In	7.13	8.03	9.00	X							3	
				Time Out	7.20	8.11	9.05									
3				Time In												
				Time Out												
4				Time In												
				Time Out												
5				Time In												
				Time Out												
6				Time In												
				Time Out												
7				Time In												
				Time Out												
8				Time In												
				Time Out												
9				Time In												
				Time Out												
10				Time In												
				Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 6 LOADS; VOLUME

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED
(Highlight If Costed)

IN CARTAGE SUMMARY
(Highlight If Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	
STREET EXIT:	Herring Road	SUBURB:	LEPPINGTON

DATE: 29-11-21
MATERIAL: SANDSTONE VENM
IMPORT / EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	LEG900	T&D		DEAN	Time In	7.02	9.46	12.15	X	NO	DOCKET					3	
					Time Out	7.14	9.53	12.22									
2	XN32VK	T&D		RON	Time In	7.16	9.50	12.30	X	NO	DOCKET					3	
					Time Out	7.23	10.00	12.37									
3	3T PETE	T&D		KEV	Time In	7.28	10.16	12.58	X							3	
					Time Out	7.34	10.27	1.06									
4	XN41RN	T&D		TRAVIS	Time In	7.48	10.39	1.36	X							3	
					Time Out	7.56	10.50	1.48									
5	C144ZO	T&D		MICHAEL	Time In	8.08	11.04	2.38	X							3	
					Time Out	8.13	11.14	2.48									
6	WAZ408	T&D		AUSTIN	Time In	8.15	11.12	1.51	X							3	
					Time Out	8.25	11.28	2.06									
7					Time In												
					Time Out												
8					Time In												
					Time Out												
9					Time In												
					Time Out												
10					Time In												
					Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 18 LOADS; VOLUME

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED (Highlight if Costed)

IN CARTAGE SUMMARY (Highlight if Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	
STREET EXIT:	Herring Road	SUBURB:	AUSTRAL

DATE: 29-11-21
MATERIAL: SANDSTONE VENM
IMPORT / EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	XN35VK	T&D		SEAN	Time In	7.02	9.58	12.19	2.47	X						4	
					Time Out	7.17	10.06	12.28	2.55	X							
2	XN22IU	T&D		ROSCOE	Time In	7.22	10.03	12.33	X	NO	DOCKET					3	
					Time Out	7.29	10.11	12.43									
3	XN34VK	T&D		FRANK	Time In	7.32	10.08	12.43	X	NO	DOCKET					3	
					Time Out	7.40	10.18	12.53	X								
4	XN33VK	T&D		STEVE	Time In	7.37	10.35	12.52	X							3	
					Time Out	7.46	10.43	12.02	X								
5	XN70GC	10	MLC	GREG	Time In	7.52	X									1	
					Time Out	7.59	X										
6	BUKSHV	T&D		ADAM	Time In	7.54	10.43	1.33	X							3	
					Time Out	8.06	11.02	1.40	X								
7	REG950	T&D		SHANE	Time In	8.04	10.41	1.05	X							3	
					Time Out	8.12	10.55	1.12	X								
8	CN85UK	T&D		STEVE	Time In	8.23	11.00	1.14	X							3	
					Time Out	8.33	11.09	1.20	X								
9	XN71GC	10	MLC	AARON	Time In	8.25	10.13	X	NO	DOCKET						2	
					Time Out	8.35	10.21	X									
10	CJ74RJ	T&D		GAV	Time In	8.29	11.24	2.19	X							3	
					Time Out	8.41	11.40	2.31	X								

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 28 LOADS

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED (Highlight if Costed)

IN CARTAGE SUMMARY (Highlight if Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:		DATE:	29-11-21
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	SANDSTONE VENM
STREET EXIT:	Herring Road	SUBURB:	AUSTRAL	IMPORT	EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED 1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	CN40VU	T&D		JOSH	Time In 8.33	11.12	2.11	X							3	
					Time Out 8.47	11.33	2.25									
2	XN20EP	T&D		STEVE	Time In 8.43	11.05	2.11	X							3	
					Time Out 8.54	11.21	2.17									
3					Time In											
					Time Out											
4					Time In											
					Time Out											
5					Time In											
					Time Out											
6					Time In											
					Time Out											
7					Time In											
					Time Out											
8					Time In											
					Time Out											
9					Time In											
					Time Out											
10					Time In											
					Time Out											

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

INVOICE NUMBERS: (Highlight Loads to Corresponding Invoice Numbers)		DAILY TOTAL	6 LOADS / VOLUME
		COSTED (Highlight If Costed)	IN CARTAGE SUMMARY (Highlight If Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	WEM	DATE:	30/11/2021
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:		MATERIAL:	Sandstone
STREET EXIT:	Herring Road	SUBURB:	Austral	IMPORT	EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED 1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	LEG-900	T&D		Time In	7:00	9:00	10:35	12:10								
				Time Out	7:15	9:05	10:40	12:15								
2	XN-32VK	T&D		Time In	7:15	9:15	10:55	12:35								
				Time Out	7:20	9:20	11:00	12:40								
3	CI-44-20	T&D		Time In	7:20	9:10	10:45	12:25								
				Time Out	7:25	9:15	10:50	12:30								
4	XN-33VK	T&D	?	Time In	7:25	9:25	X									
				Time Out	7:30	9:30										
5	BT-PETE	T&D		Time In	7:30	9:30	11:15	12:55								
				Time Out	7:35	9:35	11:20	1:00								
6	OUK-SHV	T&D		Time In	7:35	9:20	11:05	12:40								
				Time Out	7:40	9:25	11:10	12:45								
7				Time In												
				Time Out												
8				Time In												
				Time Out												
9				Time In												
				Time Out												
10				Time In												
				Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 22 Loads (LOADS) | VOLUME

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED (Highlight If Costed)

IN CARTAGE SUMMARY (Highlight If Entered)

Form MC-PA-13

DAILY RECORD OF LOADS

Mainland Civil

JOB NO:	1378	TIP COMPANY:	
JOB TITLE:	Ivanhoe Estate, Macquarie Place	STREET:	
STREET EXIT:	Herring Road	SUBURB:	Marsden Pk.

DATE: 31/01/22
MATERIAL: Sandstone
IMPORT / EXPORT

	TRUCK REGO No.	TRUCK TYPE B = Bogie, 10 = 10-Wheeler, T&D = Truck & Dog	TRUCKING COMPANY NAME	DRIVER'S MOBILE NUMBER	TIME LOADED	1	2	3	4	5	6	7	8	9	10	TOTAL No.OF LOADS	TOTAL VOLUME m3
1	XN32VK	T&D	AT Civil		Time In	7.00	8.24	9.39	10.55	12.21	X					5	
					Time Out	7.13	8.29	9.44	10.09	12.36							
2	GUNN54	T&D	↓		Time In	7.15	8.36	9.55	11.13	12.38	X					5	
					Time Out	7.20	8.42	10.00	11.23	13.04							
3	XN76TJ	T&D	↓		Time In	7.26	8.52	10.12	11.43	X						4	
					Time Out	7.32	8.58	10.19	11.49								
4	CN24VQ	T&D	↓		Time In	7.35	9.03	10.22	11.54	X						4	
					Time Out	7.41	9.10	10.36	12.10								
5					Time In												
					Time Out												
6					Time In												
					Time Out												
7					Time In												
					Time Out												
8					Time In												
					Time Out												
9					Time In												
					Time Out												
10					Time In												
					Time Out												

LOCATION:

COMMENTS: (stoppages, breakdowns etc.)

DAILY TOTAL: 18 LOADS

INVOICE NUMBERS:
(Highlight Loads to Corresponding Invoice Numbers)

COSTED
(Highlight if Costed)

IN CARTAGE SUMMARY
(Highlight if Entered)

ENVIRONMENTAL EARTH SCIENCES
CONTAMINATION RESOLVED

APPENDIX G: DEWATERING RECORDS

Mainland Civil

PH AND TURBIDITY READINGS

Form: WHSE – 117

PROJECT NUMBER: 1378 PROJECT: Ivanhoe Estate, Macquarie park

Name of Tester	Date	Time	pH Meter Reading	Turbidity Reading	Discharged to (Stormwater / Sewer)?	Area of Site being de-watered	Any substances visible on the surface of water?	Any Odour present?	Test Water Acceptable for Discharge?	Discharge Duration	Total Volume Discharged
Tim	5/7/21	8:30am	7.7	21.3	Storm water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	6hrs	250kL
Tim	19/7/21	9:00am	7.5	33.0	Storm Water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	4hrs	150kL
Tim	27/8/21	9:00am	7.1	25.8	Storm Water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	8hrs	300kL
Tim	17/9/21	8:00	7.0	23.3	Storm Water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	8hrs	300kL
Tim	18/10/21	8:00	7.0	27.7	Storm Water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	6hrs	250kL
Tim	17/11/21	8:00	7.8	32.0	Storm Water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	8hrs	300kL
Tim	29/11/21	8:00	7.2	35.0	Storm Water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	10hrs	400kL
Tim	17/12/21	9:00	7.0	22.0	Storm Water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	6hrs	250kL
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		

The acceptance criteria for the discharge of water into any water body or storm water system is:

pH	Turbidity (NTU)
6.5 – 8.0	0 – 50

Source: ANZECC Guidelines for Fresh and Marine Water Quality 2000 – Tables 3.3.2 and 3.3.3

PH AND TURBIDITY READINGS

Form: WHSE – 117

PROJECT NUMBER: 1378 **PROJECT: Ivanhoe Estate, Macquarie park**

Name of Tester	Date	Time	pH Meter Reading	Turbidity Reading	Discharged to (Stormwater / Sewer)?	Area of Site being de-watered	Any substances visible on the surface of water?	Any Odour present?	Test Water Acceptable for Discharge?	Discharge Duration	Total Volume Discharged
TIM	24/1/22	9:00am	7.0	21.5	Storm water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	6hrs	250kL
TIM	10/2/22	8:30am	7.2	22.0	Storm water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	7hrs	260kl
TIM	29/2/22	9:00am	7.5	21.0	Storm water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	6hrs.	250kL
TIM	31/3/22	8:00am	7.8	30.8	Storm water	Sed Basin	Yes / (No)	Yes / (No)	(Yes) / No	8hrs	300kL
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		
							Yes / No	Yes / No	Yes / No		

The acceptance criteria for the discharge of water into any water body or storm water system is:

pH	Turbidity (NTU)
6.5 – 8.0	0 – 50

Source: ANZECC Guidelines for Fresh and Marine Water Quality 2000 – Tables 3.3.2 and 3.3.3