

SIX MONTHLY PERFORMANCE AUDIT, STAGE 1B IVANHOE ESTATE, MACQUARIE PARK, NSW FRASERS PROPERTY IVANHOE PTY LTD

25 OCTOBER 2022 122038 RP02 VERSION 2



25 October 2022

Frasers Property Ivanhoe Pty Ltd

Level 2 1C Homebush Bay Drive Rhodes NSW 2138

Attention: **Peter Statham**

Project Manager

Environmental management system (EMS) audit at Stage 1B 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

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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 1B of construction works at Ivanhoe Estate, Macquarie Park, NSW (the "project").

The work was completed in accordance with the State Significant Development (SSD) Conditions of Consent within SSD 8903 MOD 4. The following schedule for independent environmental audits was prepared and 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:

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 following response from DPIE indicating concurrence with the abovementioned schedule and appointment is referred to below, and presented in **Appendix A**:

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

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

1.2 Framework

These 6-monthly EMS performance evaluation audits are being 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 DPE (2018), Independent Audit: Post Approval Requirements Guidance.
- 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.



1.3 Project context and management

Frasers engaged Christie Civil Pty Ltd (Christie) as the contractor to undertake the construction of Stage 1B civil and bridge works for project, commencing in March 2022. This audit only pertains to the work activities that have been completed thus far by Christie in the central and south eastern portions of the site.

Works being undertaken for Stage 1B comprise:

- Construction of an access road from the Stage 1B portion of site through to Lyonpark Road.
- Construction of a curved post tensioned bridge.
- Drainage works.
- Construction of a carpark for existing operations building.

The following Construction Environmental Management Plan (CEMP) was prepared by Christie to document procedures and management associated with Stage 1B construction works:

Christie Civil Pty Ltd (2022), Construction Environmental Management Plan – CEMP - Ivanhoe Estate Stage 1B Civil Works, Epping & Lyonpark Roads, Macquarie Park NSW (01 April 2022; Revision F) (the "CEMP").

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; SSD 8903 MOD 2; 7 May 2021, SSD 8903 MOD 3; 21 December 2021 and SSD 8903 MOD 4; 05 August 2022):

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 Christie requesting relevant regulatory approvals (compliance documentation) including, but not limited to environmental monitoring results and waste disposal documentation.
- Site inspection by Environmental Earth Sciences NSW personnel to confirm details of the CEMP plans and approvals are being followed.



- Consultation with relevant persons from Frasers and Christie.
- Assess the environmental performance of the project and assess whether it is complying
 with the requirements in the Development Consent, the Independent Audit Post Approval
 Requirements (IAPAR) and CEMP (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 (AQOMP) (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 this Audit report detailing the results and recommendations of the Audit.

2.3 Audit period

The audit covers the six-monthly period between 12 April 2022 and 5 September 2022 and considers the performance against the CEMP 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, Sarah Martin, Elisha Kordiak; and
- Christie Civil: Liam Bell, Martin Carey and James Seaton.

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 Project Manager
- Sarah Martin Assistant development Manager

Christie Civil:

- Liam Bell Site Engineer
- Martin Carey Construction Manager
- James Seaton Site Safety Officer

3.3 Site inspection

The performance review site inspection was conducted on 5 September 2022 by Karin Azzam (Environmental Earth Sciences), Sarah Martin (Frasers Property Australia) and Liam Bell, Martin Carey and James Seaton (Christie) and included:

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

3.4 Community consultation

Community consultation was completed prior to the lodgement of the SSD DA and is detailed in the Consultation Outcome Report prepared by Elton Consulting – *Appendix Q* within the EIS (Elton, 2021).



The report outlies the following consultation initiatives that have been undertaken:

- A dedicated project email account has been setup for interested community members to ask questions and provide feedback.
- A letterbox drop was conducted to just over 7600 households within an 1km distribution area around the site on 3 June 2021. The drop provided affected landowners with postcards detailing the project, contact details and an invitation to a community drop-in session.
- A community drop-in session was held on 16 June 2021 between 5:30-7:30pm at Dunmore Lang College.

3.5 Consultation with relevant agencies

The Planning Secretary confirmed the appointment of Environmental Earth Sciences as the independent auditor. In accordance with the IAPAR, the Auditor must consult with the department, who may request that other parties or agencies are consulted, to obtain their input into the scope of the audit. Refer to **Appendix A** for the submission letter of the Audit Schedule to the Planning Secretary of the NSW DPIE as well as correspondence with NSW DPIE and the City of Ryde regarding input into the audit scope.

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 has conducted the following independent environmental audits of the project environmental management system (EMS) for Stage 1 of construction works at Ivanhoe Estate.



Relevant reports include:

- Environmental Earth Sciences (2020), 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 (2021), Six monthly performance audit, Stage 1 Ivanhoe Estate, Macquarie Park, NSW (ref: 120077 Review of EMS V2; 1 October 2021).
- Environmental Earth Sciences (2022), Six monthly performance audit, Stage 1 Ivanhoe Estate, Macquarie Park, NSW (ref: 120038 Six-monthly Audit V2; 16 August 2022).

The recommendations from the previous audit reports have been addressed, with the present status or outcome presented in **Table B** (**Appendix B**).

The outcome of the following two recommendations from the previous audit reports are progressing and are complete pending implementation of recommendations in respect to the audit:

• Calibration records for water quality meter used on site should be available.

Status: Water quality monitoring using a water quality meter was not undertaken in the audit period between 12 April and 5 September 2022.

Environmental Earth Sciences has been informed by Frasers that Christie Civil Pty Ltd are now responsible for managing water monitoring on site.

Christie Civil will implement water quality monitoring on a monthly basis with a calibrated water quality meter. This will be in effect immediately, as per response received 13/10/2022.

Recommendation: Regular water quality monitoring of Shrimpton Creek and the sedimentation basin have been recommended in this September 2022 audit.

 Routinely update the Parkview CMP and all relevant sub environmental management plans.

Status: After request, Parkview provided their updated CMP on 13 October 2022, further outlining present site activities / stages / scope of works in Section 8.3 as recommended. Parkview are still to update relevant sub environmental management plans in accordance with development consent SSD 8903 conditions, including:

- Dust Management Plan (B40 c)
- Construction Noise and Vibration Management Plan (B42)
- Air Quality and Odour Management Plan (AQOMP) (B43)
- Construction Waste Management Plan (B44)



Construction Soil and Water Management Plan (B45)

4.2 Site inspection

The Audit inspection was undertaken on 5 September 2022 by Karin Azzam (Environmental Earth Sciences), Sarah Martin (Frasers) and Liam Bell, Martin Carey and James Seaton (Christie).

At the time of the Audit inspection, clearing and grubbing of all vegetation at the site had been completed and construction earthworks for Stage 1B were in progress with excavation and export of VENM observed. Main activities observed at the time of inspection included:

- Earthworks and export of soil material / VENM material across site (Photographs 2 7 in Appendix D).
- Excavation and installation of stormwater drainage (Photograph 6 in Appendix D).
- The temporary relocated swale had just been excavated to divert upslope water directly into staged sediment retention basins allowing sediments to be deposited by settlement with water decanting into lower lying ponds with any overflow being discharged into grassy area (**Photographs 8, 10, 11** in **Appendix D**).
- Construction of the piling and the reinforced concrete slab over the creek crossing were observed to be complete. The concrete slab will support the weight of falseworks and the overall bridge construction process.
- Preparation earthworks for construction of road access between the Stage 1B project area and Lyonpark Road was noted to be underway in south-eastern portion of the site (Photograph 19 in Appendix D).
- Laydown areas observed for inert construction materials.
- Internal / external movements of building materials / inert construction waste.
- Temporary site offices / ablution blocks noted to be present.

4.3 Documents reviewed

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

- CEMP.
- Christie (2022), Daily Site Checklists (May to August) Ivanhoe Estate 1B Civil Works.
- Christie (2022), Safety & Environmental Inspection Checklists (May to August) Ivanhoe Estate 1B Civil Works.
- Alliance Geotechnical Pty Ltd (2022a), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-1; 14 April 2022).



- Alliance Geotechnical Pty Ltd (2022b), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-1 Rev 1; 3 May 2022).
- Alliance Geotechnical Pty Ltd (2022c), Asbestos Clearance Certificate (ref: 15030-ER-1-2; 16 May 2022).
- Alliance Geotechnical Pty Ltd (2022d), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-3; 16 May 2022).
- Alliance Geotechnical Pty Ltd (2022e), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-3 Rev 1; 30 June 2022).
- Alliance Geotechnical Pty Ltd (2022f), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-3 Rev 2; 12 July 2022).
- 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).

Christie provided Environmental Earth Sciences with Export Cartage Tracking documents detailing VENM material removed from site during excavations.

4.4 Compliance performance

The list of conditions imposed by the Conditions of Consent within SSD 8903 MOD 4 and CEMP are detailed in **Appendix B** (**Table A**) 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 activities undertaken at the site 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 environmental management plan (CEMP)

The CEMP was prepared to communicate procedures and management procedures to be implemented during the project, describing 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 CEMP:

- Site Environmental Aspects, Impacts and Safeguards.
- Construction Soil & Water Management Plan (SSD 8903 MOD 4 Condition B42).
- Construction Noise and Vibration Management Plan (SSD 8903 MOD 4 Condition B42).
- Air Quality and Odour Management Plan (SSD 8903 MOD 4 Condition B43).
- Waste Management Plan (SSD 8903 MOD 4 Condition B44).
- Asbestos Management Plan (SSD 8903 MOD 4 Conditions B55, B64, B65, C19, C20, C21, C32 and C33).

4.8 Environmental management systems (EMS)

Project activities for the Stage 1B component did not have a standalone EMS, rather separate management plans have been prepared relating to the project (as summarised in **Section 4.1**), however Christie operates under a current ISO 14001 accredited EMS.

4.9 Predicted environmental performance

Predicted outcomes associated with the construction of the Project are described in the Construction Waste Management Plan (CWMP) (*Appendix 10* within the CEMP) and the following reports:

- Ethos Urban (2021), Environmental Impact Statement SSD 15822622 Ivanhoe Estate, Macquarie Park Stage 2 'Midtown', 26 August 2021 Version 1.1 (the 'EIS').
- Frasers Property (2021), Preliminary Construction Management Plan, May 2021
 Revision: A For Development Application (the "PCMP").

An assessment of compliance between actual and predicted impacts documented in the EIS and PCMP documents was undertaken, and as required by the IAPAR this included an assessment of potential off-site impacts. Through the course of the audit period, daily and weekly site inspections were undertaken to ensure environmental controls were performing as expected.

A summary of the actual versus predicted environmental impacts resulting from the civil works is reported at the end of each subsection below. Refer to **Appendix E** for completed daily site checklists and Safety and Environmental Inspection Checklist for the audit period.



4.10 Actual environmental performance & comparison

Environmental issues and corrective actions / comments are recorded in the daily and weekly checklists are summarised below:

- Daily site checklists:
 - Heavy rainfall was recorded as having flooded the site during the week commencing 4 July 2022 resulting in heavy mud and debris blocking drainage pipes in the sediment basin. Dredging of the sediment basin was recommended.
 - Heavy rain was also recorded in the week commencing 18 July 2022 resulting in turning "the site to mud".
- Weekly inspection checklists:
 - Uncovered soil stockpiles exceeding the fence height were noted on site during weekly site inspection on 17 June 2022.
 - Extra silt controls were installed and the sediment basin was recorded as having been dredged on 1 July 2022.
 - The need for further dredging of the sediment basin was recorded on 8 July 2022.
 - The need for servicing and maintaining the sediment basin was recorded during the seven consecutive weekly site inspections; 15, 22, 28 July 2022 and 5, 12, 19, 26 August 2022.
 - The need for new silt controls and subsequent installation of silt controls around existing stormwater was recorded on 28 July 2022.
 - The need to repair silt controls was recorded on 26 August 2022.

4.10.1 Construction soil & water management

Observations from site inspection:

Soil management

- Site fencing and barriers in place across the site. Refer to Photographs 9 and 13 in Appendix D.
- Metal rumble grid installed at site exit to facilitate removal of dirt and debris prior to vehicles leaving site (Photograph 2 in Appendix D).
- Excavated material was being stockpiled and exported from site. Refer to the Waste Management Register in **Appendix F** for a summary of material removed from site.
- Stockpiles of mulch and excavated material were mostly uncovered but were present on site in manageable sizes, not exceeding 4 m in height.



- There were signs of uncontrolled sedimentation around one stormwater drain to the south
 of the site adjacent to Shrimpton Creek, likely exacerbated from recent heavy rain
 (Photograph 15 in Appendix D).
- Storm water drains were well protected with gravel sausages, and along Road No.1 from Herring Road leading onto the site there was no evidence of heavy vehicles tracking soil from the internal roads (**Photographs 27 30** in **Appendix D**).

Water management

- The larger sedimentation basin in the centre of the Stage 1B area was empty at the time of the inspection. Christie advised that the basin had been desilted and the water having been pumped into the staged detention ponds to the south of the site.
- A buoyant sediment and debris trap was installed downstream in Shrimpton Creek which
 was noted to be full of debris at the time of the inspection (Photograph 17 in Appendix
 D).
- The water in the creek upstream of the bridge work and downstream from the sediment and debris trap was clear and slow moving with no visual and / or olfactory signs of contamination (Photographs 16 – 18 in Appendix D).
- No water testing of creek surface water and/ or from sediment basin had been undertaken during the audit period.
- The temporary relocated swale had just been excavated to divert upslope water directly into staged sediment retention basins, allowing sediments to be deposited by settlement (water is decanted into lower lying ponds with any overflow being discharged into a grassy area) (Photographs 7, 8, 10 and 11 in Appendix D).
- Low-level sedimentation management seemingly undertaken in accordance with procedures documented in the SWMP (within the CEMP) and were current at the time of Audit.

Actual versus predicted environmental impacts

To ensure erosion and sediment controls (ESCP) are performing as expected, Section 6 of the Construction Soil & Water Management Plan (*Appendix 5* within the CEMP) lists the following controls:

- Daily & Weekly Site Inspections (Appendix E);
- Daily monitoring of the Bureau of Meteorology and, if inclement weather is forecast, a
 pre-rain inspection will be conducted to ensure all erosion and sediment controls are
 implemented or where they require repairing;
- Inspection of erosion and sediment controls post rain event and repair and cleaning of controls as required; and

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Review and amendment of ESCP plans if deemed ineffective during rain events.



In 2022, Greater Sydney has recorded the wettest July since records began in 1900 with many sites recording five to eight times their monthly averages. It is understood that that the unseasonably heavy rainfall events in July caused uncontrolled erosion and sedimentation issues across the site, recorded in the daily and weekly site inspection checklists.

Environmental Earth Sciences notes that whilst environmental issues were recorded in the daily and weekly inspection checklists, corrective actions / status and maintenance of ESCP such as the dredging of the sediment basin that was observed were not always recorded.

No Public Complaints regarding construction soil and water management were received during the Audit period.

4.10.2 Dust and air quality / odour management

Observations from site inspection:

- Construction hoardings have been built around the work site.
- Whilst most stockpiles were not covered, they were kept on site at manageable sizes not
 exceeding 4 m in height. Advice from Christie informed that earthworks on site was
 scheduled so that stockpiles of excavated material were taken offsite expediently to
 minimise the amount of time exposed stockpiles were left on site and thus control
 emissions of dust and/or VOCs/ odour.
- No trucks were exporting soil during the time of the inspection. Christie advised that all truckloads of excavation spoil are covered when leaving the site.
- No dust emissions and / or odours were noted during the time of the inspection.
- No active dust monitoring had been taken place during the audit period.

Actual versus predicted environmental impacts

Predicted environmental impacts documented in the Air Quality (WSP, 2018) (*Appendix AA* of the EIS) mention that emissions to air were predicted to be higher during periods of earthworks from disturbance of soil (excavation / storage), and transportation / vehicle movements. Assessment criteria for relevant air pollutants are tabulated in Section 4 of the air quality assessment.

The wet weather during the audit period has kept exposed soil material and stockpiles wet and Christie advised that active dust suppression has not been needed.

No dust emissions were noted in the daily and weekly safety and environmental inspections (**Appendix E**).

No Public Complaints regarding dust, air quality or odour were received during the Audit period.

Environmental Earth Sciences notes that there was no active dust and air quality monitoring during the audit period and any comparison of actual air pollutants to assessment criteria was not possible.



4.10.3 Construction noise & 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. Christie informed that minimal work on site was undertaken 8.00am to 4.00pm on Saturdays. No work was undertaken on Sundays and public holidays.
- Rock breaking, rock hammering, sheet piling, pile-driving and similar activities was not being undertaken at the time of the Audit inspection. It was noted that when these works were required, they were undertaken between 9.00am to 2.00pm, 2.00pm to 5.00pm on Monday to Friday, and 9.00 to 2.00pm on Saturday.
- No active sound / vibration monitoring was being undertaken during the Audit inspection.

Actual versus predicted environmental impacts

The Noise Impact Assessment (Acoustic Logic, 2021) (*Appendix V* within the EIS) mentions that proposed development activities are not expected to have any adverse impacts on surrounding sensitive receivers during construction. The report states that construction noise is predicted to generally comply with the nominated acoustic criteria (listed in **Table 2**).

Occasional exceedances of the noise criteria are not considered to be unreasonable and expected noise impacts will generally decrease throughout the construction period as building facades are erected and enclose the building construction works. The noise and vibration thresholds that construction activity should not exceed, taken from the noise impact assessment are listed below.

Table 2: Noise management levels

| Receiver | Daytime Background Noise levels | 'Noise affected' | 'Highly noise affected' |
|-------------------------------------------------------------------------------------------------|------------------------------------|---------------------|-------------------------|
| Residential receivers to the north of work site (R2) | 43 | 53 | 75 |
| Residential properties across Epping Road to the west of the site (R5) | 50 | 60 | 75 |
| Sensitive receivers (commercial/ residential) to the east and south of work site (R4/ R3) | Commercial | | 70 |

The predicted noise levels from the construction phase to sensitive receivers are tabulated in Section 10.3 of the Noise Impact Assessment report (Acoustic Logic, 2021). The report lists construction activities that are predicted to generate noise levels during the construction phase with the activities with the greatest potential to generate noise and vibration being:

- Hammering (Excavator with hydraulic hammer / jack hammering).
- Rock / concrete saws.



Piling activities.

Where noise management levels are exceeded (which may occur when working close to the site's western, northern, and southern boundaries), the following appropriate mitigation measures should be adhered to:

- Providing construction hoarding around the site perimeter to assist with noise screening to northern receivers.
- Using alternative equipment as much as practicable to minimise activities with the greatest noise impacts (hammering; rock/concrete saws; piling activities).
- Using silencing devices such as engine shrouding or industrial silencers fitted to exhausts and requiring on-site work vehicles to turn off their engines when practicable.
- Implementing noise respite periods as consistent with ICNG recommendations where continuous exceedances are unavoidable.

No Public Complaints regarding noise and / or vibration were received during the Audit period.

Environmental Earth Sciences notes that there was no active noise and vibration monitoring during the audit period and any comparison of actual noise and vibration to management levels was not possible.

4.10.4 Waste management

Waste material for the Stage 1B area was sampled by Douglas Partners, David Lane & Associates Environmental Services Pty Ltd (DLA), JBS&G Australia Pty Ltd, Environmental Earth Sciences and Alliance Geotechnical Pty Ltd. Waste was classified in accordance with NSW EPA (2014) — Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014) (the "Waste Guidelines").

The results of the material classification are documented in the following reports:

- Environmental Earth Sciences (2021a), Waste Classification of Material at Ivanhoe Estate, Corner of Herring Road and Epping Road, Macquarie Park NSW (ref: 120120_WC_V3; 31 March 2021).
- Alliance Geotechnical Pty Ltd (2022a), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-1; 14 April 2022).
- Alliance Geotechnical Pty Ltd (2022b), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-1 Rev 1; 3 May 2022).
- Alliance Geotechnical Pty Ltd (2022c), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-3; 16 May 2022).
- Alliance Geotechnical Pty Ltd (2022d), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-3 Rev 1; 30 June 2022).



 Alliance Geotechnical Pty Ltd (2022e), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-3 Rev 2; 12 July 2022).

Waste tracking documentation was recorded by Christie and provided to Environmental Earth Sciences. Refer to **Appendix F** for documentation of waste material disposed from site.

General Solid Waste (GSW)

During the audit period:

- Approximately 2,193 m³ or ~4,005 tonnes GSW (recyclable spoil) was disposed offsite to MET Recycling, 134 Carnarvon Street, Silverwater NSW 2128; and to Ecorr Eco Resource Recovery, 155A Newton Road, Wetherill Park NSW.
- Approximately 608.5 tonnes GSW (Non- recyclable) was disposed offsite to Sydney Recycling Park, 17 – 23 Clifton Ave, Kemps Creek NSW 2178.

GSW (Special Waste – Asbestos)

During the audit period, 62 m³ or 114 tonnes GSW (Special Waste – Asbestos) was disposed offsite to Bingo Waste Services Pty Ltd, Eastern Creek Ecology Park.

One fragment of bonded asbestos material was detected during *in-situ* material classification field work of an area to be excavated during bridge abutment construction works on 5 April 2022 by a Senior Environmental Consultant from Alliance Geotechnical Pty Ltd. The Waste classification process was documented in the following report:

 Alliance Geotechnical Pty Ltd (2022a), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-1; 14 April 2022).

Asbestos management

Asbestos remediation works were conducted in accordance with:

 Christie Civil Pty Ltd (2022a), Asbestos Management Plan, Ivanhoe Estate – Stage 1B Civil Works, Epping & Lyonpark Roads, Macquarie Park, (dated 22 March 2022, Rev: A, Doc Name: SSPF1 – Asbestos Management Plan) (the "AMP").

Following removal of asbestos impacted material, a suitably qualified person from Alliance Geotechnical Pty Ltd conducted an asbestos clearance inspection with results and findings formalised in the following report:

 Alliance Geotechnical Pty Ltd (2022) Asbestos Clearance Certificate (ref: 15030-ER-2-1; 16 May 2022).

Please refer to **Appendix G** for documentation of asbestos management including waste classification report, clearance certificate and weighbridge dockets from receiving facilities.



Asphalt, brick and concrete

For this stage 359.4 tonnes of asphalt, brick and concrete were disposed offsite to:

- Concrete Recyclers, 14 Thackeray Street, Camellia NSW 2142;
- Cleanaway Ryde Resource Recovery Centre, 145 Wicks Road, North Ryde 2116.

Refer to **Appendix F** for disposal documentation of GSW (recyclable), GSW Non-recyclable, GSW (Special Waste – Asbestos) and asphalt, brick and concrete.

Excavated natural material (ENM) and Virgin excavated material (VENM)

Assessment was undertaken to determine whether natural materials met the chemical and physical properties for VENM defined in Schedule 1 of the Protection of the Environment Operations Act 1997 (POEO Act).

To ascertain whether the unconsolidated weathered bedrock (clay) material was suitable for beneficial reuse, assessment of chemical and physical attributes was undertaken with reference to the Resource Recovery Order under Part 9, Clause 93 of the Protection of the Environment Operations (POEO) (Waste) Regulation 2014 – the excavated natural material order 2014 (the "ENM Order").

Results and findings from the VENM assessments were documented in the following reports:

- Environmental Earth Sciences (2021I) 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 (2021m) 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).

During this audit period, approximately 3,582 m³ or 5,394 tonnes of VENM (clay, sandstone and shale) were beneficially reused offsite and was exported to Lugard Street, Penrith. Refer to **Appendix F** for details of the VENM exported from the site.

Actual versus predicted environmental impacts

The PCMP delineates management during the construction phase of the development. It should be noted that waste management during demolition was assessed and approved as part of the Stage 1 SSDA (SSD 8903).

The PCMP states that the engaged Principal Contractor will be responsible for transporting all non-recyclable materials to EPA approved landfill sites. Recyclable materials will be disposed by the Principal Contractor at the most appropriate recycling depot. Waste bins will be stored on-site and separated between recyclable and non-recyclable material for construction staff.

The Waste Management Register kept by Christies was provided to Environmental Earth Sciences for review and documented that approximately 11,507 tonnes to date of waste have left the site with approximately 95% having been recycled. The Waste Management



Register is provided in **Table C** (**Appendix F**) with associated weighbridge dockets from receiving facilities.

The forecast of the types and percentages of waste that will be produced (listed in *Table 8* in *Section 5* of the CWMP) have been compared to the current Waste Management Register provided to Environmental Earth Sciences and is presented in **Table 3**.

Table 3: Comparison of forecasted waste percentages and actual

| Foreca | asted | | Actual* | | |
|--------------------|-----------------------------|------------------------------------------------|---------|----------------------|--|
| Material | Estimated waste percentages | Material | Tonnes | Waste percentages | |
| General Site Waste | 10% | General Solis Waste (non- recyclable) | 608.5 | 5.3% | |
| Timber / formwork | 5% | | | | |
| Concrete | 10% | Concrete | 239.24 | 2% | |
| Asphalt | 5% | Asphalt | 60.16 | 0.5% | |
| Excavated spoil | 67% | Excavated General Solid Waste – recycled | 4005.1 | 34.8% | |
| | | VENM | 5394.35 | 46.8% | |
| Steel | 3% | | | | |

Notes:

As predicted, to date the majority of waste that has been taken offsite consists of excavated spoil with 46.8% consisting of VENM and 34.8% consisting of excavated General Solid Waste – Recyclable.

4.10.5 Storage of materials

Materials storage seemingly undertaken in accordance with procedures documented in the CEMP which was current at the time of Audit. Observations from site inspection for material storage in the southern portion of the site:

- Areas for storage of construction materials were generally defined with good housekeeping considering the challenges faced by the limited available space.
- Areas for storage of storage of waste were clearly demarcated into separate waste streams (e.g., general waste sign on side of skip bin).
- Laydown areas and for materials used available space sufficiently (refer to Photograph 19 in Appendix D).
- There was a dedicated area for hazardous substances (e.g., flammable liquids), in the southern portion of the site away from earthworks and next to spill kits. Some containers

^{*} As of September 2022



were noted to be stored in unlocked cages and cabinets. Some containers (mostly empty) were stored on the ground outside the cages and cabinets (refer to **Photographs 21 – 26** in **Appendix D**).

Management of construction waste seemingly undertaken in accordance with procedures documented in the CWMP which was current at the time of Audit. In accordance with SSD 8903 MOD 4 Condition B44 and the CEMP, general inert construction waste is being separated between recyclable and non-recyclable offsite at an EPA licenced facility.

4.11 Complaints

Environmental Earth Sciences was not made aware of any complaints being reported during the six-monthly period between 12 April 2022 to 5 September 2022.

4.12 Incidents

Environmental Earth Sciences was not made aware of any incidents being reported during the six-monthly period between 12 April 2022 to 5 September 2022.

4.13 Site interview

The site interview associated for the Audit was undertaken on 5 September 2022 by Karin Azzam, with Sarah Martin (Frasers) and Liam Bell, Martin Carey and James Seaton (Christie) in attendance.

4.14 Previous review of compliance report recommendations

Environmental Earth Sciences NSW has conducted previous independent environmental audits of the project and associated activities. Refer to **Table B** (**Appendix B**) for details on previous recommendations.

4.15 Key strengths

Christie is completing civil works generally in accordance with the Consolidated Consent CEMP. 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 (minor or otherwise) for the Stage 1B civil works for the audit period, however opportunities for improvements are listed in **Section 5.2**.



5.2 Opportunities for improvement

The Auditor recommends the following improvement opportunities:

- The buoyant sediment and debris trap installed downstream in Shrimpton Creek should be routinely checked and emptied when near to full. The status of the sediment trap will need to be evaluated and documented in the daily and weekly Safety and Environmental Inspection checklists and corrective action noted where required.
- Uncontrolled sedimentation was noted around certain stormwater drains. Sediment
 controls around stormwater drains need to be cleaned and maintained more frequently
 especially before and after heavy rainfall events. Status and corrective actions need to
 be recorded in the daily and weekly Safety and Environmental Inspection checklists.
- The quality of surface water in the creek, upstream and downstream of bridge works, and in the sediment retention basins should be monitored monthly using a calibrated water quality meter, noting water quality parameters (e.g., pH, electrical conductivity and turbidity / suspended solids) and any visual / olfactory indications of contamination or eutrophication. Calibration records for water quality meter should be available.
- The area for storage of hazardous chemicals on site should be tidied up and all
 containers should be clearly labelled and kept in lockable and ventilated storage. Empty
 containers need to be disposed of appropriately.
- Update to the Construction Waste Management Plan (Appendix 10 of the CEMP) to include nominated authorised receiving facilities of all waste and recycling generated.
- There is no active dust monitoring onsite. Dust monitors should be set up adjacent to sensitive receptors.
- The AQOMP does not include key performance indicators, monitoring measures, response mechanisms and contingencies. It is recommended that the AQOMP should be updated to include these.
- The project has established noise management levels (Acoustic Logic 2019) however no
 active noise monitoring was conducted during the Audit period. Any exceedances of the
 "highly noise affected level" cannot be quantified. Noise meters should be set up
 adjacent to sensitive receptors.
- Ensure that corrective actions such as dredging of the sediment basin and the clearing and maintenance of sediment controls around stormwater drains are recorded in the daily and weekly site checklists.
- Routinely update the CEMP and all relevant sub environmental management plans, and/or specifically update CEMP and all relevant sub environmental management plans when changes to construction methods occur.
- Routinely update the Parkview CMP and all relevant sub environmental management plans. The CMP needs to clearly outline the present site activities / stages / scope of works and be updated in accordance with the development consent SSD 8903.

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5.3 Proponent response to draft Independent Audit report

As permitted by IAPAR (*section 4.3.1*), Christie Civil provided a response to the draft Independent Audit Report which is tabulated and provided in **Appendix B** (**Table C**).

It is noted that the response from Christie Civil provides a timetable for implementation of the recommendations and commentary.

As required by the IAPAR (*section 4.3.1*), **Appendix B** (**Table C**) presents a summary of the Auditor's view in relation to the response provided by Christie Civil and additional information provided by Parkview.

6 CONCLUSION

Environmental Earth Sciences NSW was engaged by Frasers Property Australia (Ivanhoe) to conduct a six-monthly performance audit of the project EMS for Stage 1B of construction works at Ivanhoe Estate, Macquarie Park, NSW in accordance with SSD Conditions of Consent within SSD 8903 MOD 4.

The construction of Stage 1B was awarded to Christie Civil Pty Ltd and this audit report presents the findings from the period between 12 April 2022 and 5 September 2022.

The overall outcome of the independent audit was generally positive. Compliance records were organised and available at the time of the site inspection and project personnel from Christie Civil were available for interviews and were forthcoming with requests for information.

Relevant environmental and compliance monitoring records were being collected and reported as required to provide verification of compliance to statutory requirements and the broader Project environmental requirements.

In summary:

- There were 38 conditions assessed.
- There were no aspects of non-compliance (minor or otherwise) for the Stage 1B civil works for the audit period.
- There were eleven opportunities for improvements identified relating to improvement to water quality monitoring, erosion and sediment controls, active noise and dust monitoring and CEMP updates.

Detailed findings are presented in **Table A** (**Appendix B**). Recommendations and actions proposed to address the findings are presented in **Table C** (**Appendix B**) together with proponent response to the draft Independent Audit report.

The relatively small number of findings – mainly administrative with low environmental / community impact – is a testament to good compliance focus of the auditees.



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

- Alliance Geotechnical Pty Ltd (2022a), *Waste Classification and Virgin Excavated Natural Material Report* (ref: 15030-ER-1-1; 14 April 2022).
- Alliance Geotechnical Pty Ltd (2022b), *Waste Classification and Virgin Excavated Natural Material Report* (ref: 15030-ER-1-1 Rev 1; 3 May 2022).
- Alliance Geotechnical Pty Ltd (2022c), *Asbestos Clearance Certificate* (ref: 15030-ER-1-2; 16 May 2022).
- Alliance Geotechnical Pty Ltd (2022d), *Waste Classification and Virgin Excavated Natural Material Report* (ref: 15030-ER-1-3; 16 May 2022).
- Alliance Geotechnical Pty Ltd (2022e), *Waste Classification and Virgin Excavated Natural Material Report* (ref: 15030-ER-1-3 Rev 1; 30 June 2022).
- Alliance Geotechnical Pty Ltd (2022f), *Waste Classification and Virgin Excavated Natural Material Report* (ref: 15030-ER-1-3 Rev 2; 12 July 2022).



- Christie Civil Pty Ltd (2022a), Construction Environmental Management Plan CEMP Ivanhoe Estate Stage 1B Civil Works, Epping & Lyonpark Roads, Macquarie Park NSW (01 April 2022; Revision F) (the "CEMP").
- Christie (2022b), Daily Site Checklists (May to August) Ivanhoe Estate 1B Civil Works.
- Christie (2022c), Safety & Environmental Inspection Checklists (May to August) Ivanhoe Estate 1B Civil Works.
- Christie (2022d), Weighbridge dockets of material going offsite (May to August) Ivanhoe Estate 1B Civil Works.
- Department of Environment & Climate Change (DECC) (2009) *Interim Construction Noise Guideline* (DECC, 2009).
- Elton Consulting (2021), *Midtown Stage 2SSDA Engagement Outcomes Report* (dated: 1 July 2021 (Elton, 2001).
- Ethos Urban (2021), Environmental Impact Statement SSD 15822622 Ivanhoe Estate, Macquarie Park Stage 2 'Midtown', 26 August 2021 Version 1.1 (the 'EIS').
- 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)
- Environmental Earth Sciences (2022), Six monthly performance audit, Stage 1 Ivanhoe Estate, Macquarie Park, NSW (ref: 120038 Six-monthly Audit V2; 16 August 2022).
- Frasers Property (2021), *Preliminary Construction Management Plan*, May 2021 Revision: A For Development Application (the "PCMP").
- 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.
- Parkview Constructions Pty Ltd (2020), Construction Management Plan for: Ivanhoe Estate Building A1, Macquarie Park NSW (29 September 2022; Version 7.0, Revision D) (the "CMP").

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



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 & NSW DPIE CORRESPONDENCE



By email: chris.koukoutaris@frasersproperty.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

Karin Azzam

From: Maria Divis <Maria.Divis@planning.nsw.gov.au>

Sent: Tuesday, 20 September 2022 6:42 AM

To: Mark Stuckey; DPE PSVC Compliance Mailbox

Cc: peter.statham@frasersproperty.com.au; sarah.martin@frasersproperty.com.au;

elisha.kordiak@frasersproperty.com.au; Karin Azzam; Chris Newland

Subject: RE: 122038 EMS audit, Ivanhoe East

Some people who received this message don't often get email from maria.divis@planning.nsw.gov.au. <u>Learn why this is important</u>

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good morning Mark,

Thank you for consulting with the Department of Planning and Environment (the **department**) in order to obtain input into the scope of the Independent Environmental Audit (**IEA**), in accordance with the Independent Audit Post Approval Requirements 2020 (**IAPARs**).

The department is not aware of any specific areas of concern in relation to the project that need to be included within the scope of the audit, further to those referenced in your below email. Please ensure that the requirements of the Conditions of Consent and the IAPARs are satisfied in the submission.

The department suggests consultation with local Council.

Kind regards,

Maria Divis Senior Compliance Officer (Mon-Thurs)

Planning & Assessment | Department of Planning and Environment T 02 8275 1156 | E Maria.Divis@planning.nsw.gov.au Locked Bag 5022 | PARRAMATTA NSW 2124 www.dpie.nsw.gov.au



The Department of Planning and Environment acknowledges that it stands on Aboriginal land.

We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.

From: Mark Stuckey <mstuckey@eesigroup.com>

Sent: Friday, 16 September 2022 3:32 PM

To: Maria Divis <Maria.Divis@planning.nsw.gov.au>; DPE PSVC Compliance Mailbox



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Table A: Independent Audit Table

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| monitoring or an environmental audit, whether dir way of a plan, strategy or program, is taken to be a requiring monitoring or an environmental audit un Division 9.4 of Part 9 of the EP&A Act. This include conditions in respect of incident notification, repor response, non-compliance notification and independent environmental auditing. Note: For the purposes of this condition, as set out EP&A Act, "monitoring" is monitoring of the development data on compliance with the consent or on environmental impact of the development, and an "environmental audit" is a periodic or particular do evaluation of the development to provide information. | provided in this report. provided in this report. provided in this report. provided in this report. | | Compliant | |
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| construction or within another timeframe agreed we Planning Secretary, a program of independent envious audits must be prepared for the development in activity Management Systems (Standards Australia, 2014) and the construction of the constructio | 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 | | Compliant | |
| | Any condition of this consent that requires the carr monitoring or an environmental audit, whether dir way of a plan, strategy or program, is taken to be a requiring monitoring or an environmental audit undivision 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, report response, non-compliance notification and indeper environmental auditing. Note: For the purposes of this condition, as set out EP&A Act, "monitoring" is monitoring of the development data on compliance with the consent or on environmental impact of the development, and an "environmental audit" is a periodic or particular do evaluation of the development to provide informat compliance with the consent or the environmental management or impact of the development. Independent Environmental Audit No later than one month before the commenceme construction or within another timeframe agreed we Planning Secretary, a program of independent envitaudits must be prepared for the development in act with AS/NZS ISO 19011-2014: Guidelines for Auditin Management Systems (Standards Australia, 2014) as | 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 aimpact of the development, and an "environmental aim?" 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. B Independent Environmental Audit 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) of 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: | A Monitoring and Environmental Audits 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 responses, one compliance notification in divependent 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 audits a periodic or particular documented evaluation of the development, and an "environmental audits and particular documented evaluation of the development or impact of the development or impact of the development or impact of the development in accordance with the Planning Secretary, a project of the development audits must be prepared for the development in accordance with Association or within another timeframe agreed with the Planning Secretary, a project. Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Planning Secretary for information. A schedule for independent environmental audits must be prepared for the development in accordance with Association or within another timeframe agreed with the Planning Secretary, a project. For Auditing Management Systems (Standards Australia, 2014) and submitted to the Planning Secretary for information. The schedule was submitted to the Department of Planning, Industry and Environmental (PIPE) whereby the Planning Secretary confirmed the appointment of Environmental Earth Sciences sa the independent eletter: **DIPE (2020), Audit Program, Ivanhoe Estate Stoge 1550-8903-PA-2 (ref. Appointment of Environment of E | Compliance Requirement (Data/document author, date, title, reference number) 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, 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 PRA Act. This includes conditions in respect of incident notification, reporting and response, non-compliance with the consent or on the environmental audit; Note: For the purposes of this condition, as set out in the FRA Act, "monitoring" is monitoring of the development to provide information on compliance with the consent or the environmental impact of the development or provide information on compliance with the consent or the environmental audit; Independent Environmental Audit No later than one month before the commencement of construction or within another timeframe agreed with the Planing Secretary, a program of independent environmental Earth Sciences: Invitronmental Earth Sciences (2020a), Schedule for independent environmental audit(s) was prepared by Environmental Earth Sciences (2020a), Schedule for independent environmental audit(s) and submitted to the Planning Secretary for information. A schedule for independent environmental audit(s) was prepared by Environmental Earth Sciences. Forting the environmental Earth Sciences (2020a), Schedule for independent environmental audit(s) was prepared by Environmental Earth Sciences. Forting for independent environmental (DPIE) whereby the Planning Secretary onlined the 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: Dere (2020), Audit Program, Ivanhoe Estate Store (21 SSD 803-PA-2 (RF Appointment of Environmental Earth Sciences). |



Table A: Independent Audit Table

| | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| 3 | 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 | |
| 4 | 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 | |
| 5 | 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 | |
| 6 | 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 | |
| | 5 | 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 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. 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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 | 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. 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Note: The audit team must be led by as suitably qualified auditor and include | 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 forms the audit scope is assessed at least once in each audit cycle. The environmental audit program prepared and submitted to the Planning Secretary in accordance with Conditions 85 and 18 above must be implemented and complied with for the duration of the development. Independent environmental audit will be implemented and complied with for the duration of the development. Independent environmental audit will be implemented and complied with for the duration of the development. Independent environmental audit so 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; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequacy of any document required under this consent; c) reviews the adequa |



Table A: Independent Audit Table

| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B25 | 7 | 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 Redevelopment 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 Redevelopment 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 Redevelopment 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 | 8 | 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; | Christie Civil Pty Ltd (2022), Construction Environmental Management Plan, Ivanhoe Estate - Stage 1B Civil Works Epping & Lyonpark Roads, Macquarie Park (dated 1 April 2022, Revision F) (the 'CEMP'). a) The relevant stages and phases of construction are listed in the CEMP in section 1.4. The stages of the falsework foundation construction work over Shrimpton Creek are described Section 2, Appendix 1 of the CEMP | | Compliant | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B40 | 9 | b) describe all activities to be undertaken on the site during site establishment and construction of the development; | Site activities are listed in Section 1.1 of the CEMP. Site activities include: dilapidation report, site clearing, new driveway entrance to LIF building carpark, temporary access over Shrimptons Creek, 10 bored piles, form, reo pour abutments, retaining walls, bridge piers, falsework to bridge deck, post tensioning of bridge deck, relocating of electrical kiosk, electrical works, services works, stormwater works including GPT, paving, landscaping Road construction activities include: - Excavation - Place basecourse - Kerb and gutter - Asphalt, - Line marking | | Compliant | |
| B40 | 10 | c) include a Dust Management Plan, incorporating the mitigation measures outlined in the Air Quality Assessment, prepared by WSP, dated October 2018. | Refer to the Air Quality and Odour Management Plan (AQOMP) – Appendix 9 of the CEMP for details of dust, air quality and odour management. 5.4.2: mitigation measures outlined in the Air Quality Assessment (WSP,2018) as detailed in 5.4.2 | The AQOMP acknowledge that there is potential for dust and particulate matter to have a nuisance impact on sensitive receptor that would trigger mitigating measures. However, there is no active dust monitoring on site to measure any potential impact. What is the reasoning for not having dust gauges installed onsite? | Not triggered | Dust generated is minimal as there is a watercart onsite full time. Should complaints of dust from sensitive receivers be advised, dust monitoring may be implemented. |
| B40 | 11 | 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 | 12 | 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 1.3 of the CEMP refers to SSPF21 - Project Legal Register and SOPF3.02.6 - Site Environmental Aspects, Impacts & Safeguards for the relevant NSW legislation Section 1.3.2 states that prior to commencement of any works including clearing works on site, approval to proceed shall be issued by Frasers Property. | | Compliant | |
| B40 | 13 | f) be prepared in consultation with Council and include specific consideration of measures to address any requirements of Council during site establishment and construction; | | | | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B40 | 14 | 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 1.5.4 of the CEMP and include the following: Project Manager, Site Supervisor (Foreman) and Site Engineers. | | Compliant | |
| B40 | 15 | 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; | Project operations and activities that have a significant impact on the environment are monitored during daily and weekly site checks. Daily Site checklists and Weekly Safety and Environmental Checklists have been provided to Environmental Earth Sciences for review. | There are no active noise or dust monitoring on site. Active noise and dust monitoring on site is recommended. | Not triggered | If noise complaints are received, noise monitors can be considered adjacent to sensitive receivers. Dust generated is minimal as there is a watercart onsite full time. Should complaints of dust from sensitive receivers be advised, dust monitoring may be implemented. |
| B40 | 16 | 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. 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 | |
| B40 | 17 | j) management of groundwater during construction; | Refer to point 'I' above. | | Not triggered | |
| B40 | 18 | 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 | The CEMP contain all relevant environmental management plans (Sub-plans) required under this consent. | | Compliant | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B40 | 19 | I) include arrangements for community consultation and complaints handling procedures during construction. | Section 1.6.3 (CEMP): Complaints Handling Procedure: All environment complaints received from the public and/or regulatory agency are investigated by the Project Manager and ensure Frasers Properties are notified immediately. All public complaints received (either written or verbal) must be documented to contain the following information: • The nature and extent of the complaint • The method by which the complaint was made • The name and address of the person lodging the complaint • Details of location, dates, times and effects of the complaint • The action taken to address the complaint including follow up contact with the complainant When verbal complaints are received, they shall be documented by company personnel who shall ensure the complaint has been correctly recorded. All public complaints shall be recorded using the Complaints Register, or the Client's system. From here the issue raised is recorded as a Non-conformance in an NCR Report. Refer to Section 1.6.3 (CEMP) for prescribed corrective/preventative actions to be taken to address all Public Complaints. | No complaints received during Audit period. | Not triggered | |
| Schedule 2 - | Part B | Construction Noise and Vibration Management Plan (C | CNVMP) — Appendix 8 of the CEMP | | | |
| B42 | 20 | a) be prepared in accordance with the EPA's Interim Construction Noise Guideline | Christie Civil Pty Ltd (2022), Construction Noise and Vibration Management Plan for Ivanhoe Estate, Stage 1B Civil Works - Macquarie Park, Frasers Property (dated 22/02/2022, Revision A) (the 'CNVMP' report) – Appendix 8 of the CEMP. Section 4: The CNVMP report was prepared in accordance with the EPA's Interim Construction Noise Guidelines. | | Compliant | |
| B42 | 21 | b) identify nearby sensitive receivers and land uses; | Section 5: Nearest Receivers - seven receivers identified and land uses listed. | | Compliant | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B42 | 22 | c) identify the noise management levels for the project; | Section 7: Noise Management Level Construction noise management levels applicable to the development have been determined based on the minimum background noise level recorded and the construction noise management level detailed in this report. | Noise management levels have been determined for the project, however there is no quantitative assessment with active noise monitoring conducted during Audit period. | Compliant | |
| B42 | 23 | d) identify the construction methodology and equipment to be used and the key sources of noise and vibration; | Section 7: details noise making activities required to complete works. Section 9 of the CNVMP: Vibration Management: Christie Civil works that are expected to cause vibration is vibrating roller during roadworks. | | Compliant | |
| B42 | 24 | 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. | The project has established noise management levels (Acoustic Logic 2019) however no active noise monitoring was conducted during the Audit period. Any exceedances of the "highly noise affected level" cannot be quantified. — Active noise monitoring on site is recommended. | Not triggered | If noise complaints are received, noise monitors can be considered adjacent to sensitive receivers. |
| B42 | 25 | 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 5: Nearest Receivers - details the nearest properties likely to be affected. | The project has established noise management levels (Acoustic Logic 2019) however no active noise monitoring was conducted during the Audit period. Any exceedances of the "highly noise affected level" cannot be quantified. — Active noise monitoring on site is recommended. | Not triggered | If noise complaints are received, noise monitors can be considered adjacent to sensitive receivers. |
| B42 | 26 | 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 | Community consultation was completed prior to the lodgement of the SSD DA and is detailed in the Consultation Outcome Report prepared by Elton Consulting – <i>Appendix Q</i> within the EIS (Elton, 2021). | | Compliant | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B42 | 27 | 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 8 lists noise mitigation methods to minimise noise and complaints. | Active noise monitoring on site is recommended to record any potential exceedances of the "highly noise affected level". | Not triggered | If noise complaints are received, noise monitors can be considered adjacent to sensitive receivers. |
| | 28 | | Section 9 notes that the activity that have the potential to produce significant ground vibration include – Vibration roller during roadworks. The vibration produced from a 10t vibrating roller and the frequency of the vibration is not expected to impact either of the adjoining buildings on Lyonpark Road. The subgrade is expected to be a clay base which will also assist in absorbing vibration. It is not proposed to establish vibration monitors. | Environmental Earth Sciences is satisfied that vibration monitors are not needed for the Stage 1B Project. | Not triggered | |
| Schedule 2 - | Part B | Air Quality and Odour Management Plan (AQOMP) – App | endix 9 of the CEMP | | | |
| B43 | 29 | Prior to the commencement of any works, an Air Quality and Odour Management Plan (AQOMP) must be prepared and submitted to the Certifier. The AQOMP must recommend measures to minimise and manage any odours arising from excavation, stockpiling and removal of contaminated soils including, but not limited to: a) staged excavation to limit the surface area of exposed odorous material; | Christie Civil Pty Ltd (2022), Air Quality and Odour Management Plan for Ivanhoe Estate, Stage 1B Civil Works - Macquarie Park, Frasers Property (dated 22/02/2022, Revision A) (the 'AQOMP' report) – Appendix 9 of the CEMP. Section 3 describes mitigation measures to be implemented to limit any emissions to air during construction. | Not required. | Not triggered | |
| | | | Observations from audit site inspection (05/09/2022): Whilst most stockpiles were not covered, they were kept on site at manageable sizes not exceeding 4 m in height. Advice from Christie informed that earthworks on site was scheduled so that stockpiles of excavated material were taken offsite expediently to minimise the amount of time exposed stockpiles were left on site and thus control emissions of dust and/or VOCs/odour. | | | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B43 | 30 | b) application of odour suppressants; | Section 3 describes mitigation measures to be implemented to limit any emissions to air during construction. No application of odour suppressants were taking place during the audit period. No odorous material observed and no odour was detected during audit site inspection. | Christie confirmed odour suppressants were not required during the January - September 2022 audit period. | Not triggered | |
| B43 | 31 | c) effective covering of stockpiles and truckloads of excavation spoil; and | Section 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 4m 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. All trucks carting material off site will cover their loads prior to leaving the site. | Uncovered stockpiles are present on site but are all under 4 m in height. The export of material is staged to limit the time stockpiles are present on site. All truckloads leaving the site are covered. | Not triggered | |
| B43 | 32 | d) expedited removal of odorous material from the development to a facility legally able to accept those wastes. | Section 3: 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. Christie Civil confirm odour suppressants were not required during the audit period. | Not triggered | |
| B43 | 33 | The AQOMP must include proactive and reactive management strategies, key performance indicators (KPIs), monitoring measures, record keeping, response mechanisms, contingency and compliance reporting measures. | Section 3 lists mitigation measures. Daily and weekly site inspections did not record any dust or odours during the audit period. | The AQOMP does not include key performance indicators, monitoring measures, response mechanisms and contingencies. — Active noise monitoring on site is recommended. | Not triggered | Christie Civil do not believe these are required. |
| Schedule 2 - | Part B | B44. Construction Waste Management Plan (CWMP) – Ap | ppendix 10 of the CEMP | | | |
| B44 | 34 | a. the estimated volume or weight of materials that will be reused, recycled or removed from the site; | Refer to Waste Management Register provided to Environmental Earth Sciences in Appendix F for documentation of material reused, recycled or removed from site. Storage areas were during audit field visit. | The CWMP does not include estimation of volume and / or weight of material reused, recycled or removed from site but percentage alone. It is recommended to amend the CEMP to include estimation of volume of material leaving the site. | Not triggered | |
| B44 | 35 | b. on-site material storage areas during construction; | Section 5 lists materials and methods used during construction to minimise waste in. | | Not triggered | |
| B44 | 36 | c. materials and methods used during construction to minimise waste; | | | Compliant | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B44 | 37 | 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; | Section 3 lists relevant legislations and guidelines and; Section 5: tabulates checklists for waste streams, listing requirements and evidence needed for Building and Demolition waste, Asbestos waste, VENM, ENM and other. An Asbestos Management Plan is included in Appendix | | Compliant | |
| | | | 12 of the CEMP and outlines general procedures for asbestos removal. | | | |
| B44 | 38 | | No airborne monitoring for potential asbestos fibres required during Audit period. | | Compliant | |
| | | | One fragment of bonded asbestos material was detected during in situ material classification field work of an area to be excavated during bridge abutment construction works on the 5 April 2022 by a Senior Environmental Consultant from Alliance Geotechnical Pty Ltd. The Waste classification process was documented in the following report: | | | |
| | | | Alliance Geotechnical Pty Ltd (2022a), Waste Classification and Virgin Excavated Natural Material Report (ref: 15030-ER-1-1; 14 April 2022). | | | |
| | | | Following removal of asbestos impacted material, a suitably qualified person from Alliance Geotechnical Pty Ltd conducted an asbestos clearance inspection with results and findings formalised in the following report: | | | |
| | | | Alliance Geotechnical Pty Ltd (2022) Asbestos Clearance Certificate (ref: 15030-ER-2-1; 16 May 2022). | | | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| B44 | 39 | 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 | Section 5 – Tables 2 to 6 are checklists for different waste streams. Receiving facilities have not been nominated in the CWMP. | Refer to Appendix F for the Waste management Register. It is recommended to update the CWMP nominating receiving facilities for waste generated and taken offsite. | Complete / Compliant. | A table of nominated facilities used for waste will be added to Waste Management Plan as advised. Christie provided their updated Construction Waste Management Plan on 24 October 2022, outlining nominated authorised receiving facilities of all waste and recycling generated in Appendix D. |
| B44 | 40 | f. identification within the CWMP of the responsibility for the transferral of waste and recycling bins within the property to the collection point. | Section 5 – Tables 2 to 6 are checklists for different waste streams identifying the responsibilities for the transferral of waste. | | Compliant | , , |
| Schedule 2 - | Part B | B45. Construction Soil and Water Management Plan (CSW | /MP) | | | |
| B45 | 41 | 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. Figures 3, 10, 13 and 15 show the proposed locations of the sedimentation basin, silt fences, ground cover (geofabric). | | Compliant | |
| B45 | 42 | b. catchment plan; | Figures 3, 10, 13 and 15 show the elevation contours and overland flow paths across the site. | | Compliant | |
| B45 | 43 | 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 3 show the location of the sediment basins and the relocated swale redirected to divert upslope water around work area. | | Compliant | |
| B45 | 44 | 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 Section 2.2.8 of the CSWMP 5.7.3: Temporary sediment basin: size 20 m x 35 m, depth / max ponding level 0.54 m, minimum volume of 1065 m³, outlet pipes with sieve-style filtration system. | | Compliant | |



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| B45 | 45 | 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; | The larger sedimentation basin in the centre of the Stage 1B area was empty at the time of the inspection. Christie advised that the basin had been desilted and the water having been pumped into the staged sediment retention basins to the south of the site. | | Not triggered | |
| | | | The staged basins are allowing sediments to be deposited by settlement (water is decanted into lower lying ponds with any overflow being discharged into a grassy area). | | | |
| | | | Photographs of the staged basins from the audit inspection are presented in Appendix D. | | | |
| B45 | 46 | f. identification and management of any stormwater run-on to the site from adjacent sites; | The CSWMP has not identified stormwater run-on from adjacent sites. Daily Site checklists and Weekly Safety and Environmental Checklists have been provided to | | Compliant | |
| | | | Environmental Earth Sciences for review. No stormwater run-on from adjacent sites was recorded. | | | |
| B45 | 47 | g. location of any temporary stockpiles (soil, spoil, topsoil or otherwise) and accompanying sediment and erosion control measures; | Figures 3, 10, 13 and 15 show locations of stockpile locations and sediment and erosion control measures across the site. | | Compliant | |
| | | | During performance review audit site inspection on 5 September 2022, Karin Azzam noted the following: • Soil stockpiles were present onsite. • Sediment basin constructed in eastern portion of the site. • Sediment fencing and silt socks installed. • Metal rumble grid installed at site exit to facilitate removal of dirt and debris prior to vehicles leaving site. | | | |
| B45 | 48 | 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 | |



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| B45 | 49 | i. a daily and weekly site inspection checklist consistent with IECA Best Practice Erosion and Sediment Control documents. | Daily and weekly site inspection checklists were made available and reviewed by the Auditor (Appendix E) and issues recorded are summarised in Section 4.10 of this audit report. | The auditor recommends that corrective actions such as dredging of the sediment basin and the clearing and maintenance of sediment controls around stormwater drains should be better recorded in the daily and weekly site checklists. | Not triggered | Noted and these will be captured |
| B45 | 50 | 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 Section 2.2.8 of the CSWMP Details of the basin are as follows: - Total minimum volume = 1065m3 - Base RL. = 47.0 - Max ponding level in 100YR = RL 47.54. size 20 m x 35 m, depth / max ponding level 0.54 m, minimum volume of 1065 m³, outlet pipes with sievestyle <i>filtration system</i> . | | Not triggered | |
| B45 | 51 | b. using type D soils (unless otherwise demonstrated by an analysis of site soils by a qualified geotechnical); | 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 | |
| B45 | 52 | 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 Integrated Management Plan (Mainland Civil), 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 | 53 | d. to include a gypsum flocculent to be added to the sediment basin in accordance with Appendix E of the Blue Book. | · | | Not triggered | |
| B55 | 54 | 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. | | | | |



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| B56 | 55 | 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 | 56 | 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 | 57 | 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 | | Compliant | |



| B64 | 58 | The Applicant shall comply with any notification requirements | Asbestos material was managed in accordance with | C | ompliant |
|-----|----|---------------------------------------------------------------|---------------------------------------------------------------------|---|----------|
| | | to SafeWork NSW concerning the handling and removal of | the site-specific AMP (Appendix 12 of the CEMP). | | |
| | | any asbestos. | During the guidit poried C2 mg ³ and 4.4.4 to mg = CC144 | | |
| | | | During the audit period, 62 m³ or 114 tonnes GSW | | |
| | | | (Special Waste – Asbestos) was disposed offsite to | | |
| | | | Bingo Waste Services Pty Ltd, Eastern Creek Ecology | | |
| | | | Park. | | |
| | | | One fragment of bonded asbestos material was | | |
| | | | detected during in-situ material classification field | | |
| | | | work of an area to be excavated during bridge | | |
| | | | abutment construction works on 5 April 2022 by a | | |
| | | | Senior Environmental Consultant from Alliance | | |
| | | | Geotechnical Pty Ltd. The Waste classification process | | |
| | | | was documented in the following report: | | |
| | | | Alliance Geotechnical Pty Ltd (2022a), Waste | | |
| | | | Classification and Virgin Excavated Natural | | |
| | | | Material Report (ref: 15030-ER-1-1; 14 April 2022). | | |
| | | | | | |
| | | | Asbestos remediation works were conducted in | | |
| | | | accordance with: | | |
| | | | Christie Civil Pty Ltd (2022a), Asbestos | | |
| | | | Management Plan, Ivanhoe Estate – Stage 1B Civil | | |
| | | | Works, Epping & Lyonpark Roads, Macquarie Park, | | |
| | | | (dated 22 March 2022, Rev: A, Doc Name: SSPF1 – | | |
| | | | Asbestos Management Plan) (the "AMP"). | | |
| | | | | | |
| | | | Following removal of asbestos impacted material, a | | |
| | | | suitably qualified person from Alliance Geotechnical | | |
| | | | Pty Ltd conducted an asbestos clearance inspection | | |
| | | | with results and findings formalised in the following | | |
| | | | report: | | |
| | | | Alliance Geotechnical Pty Ltd (2022) Asbestos | | |
| | | | Clearance Certificate (ref: 15030-ER-2-1; 16 May | | |
| | | | 2022). | | |
| | | | | | |
| | | | Please refer to Appendix G for documentation of | | |
| | | | asbestos management including waste classification | | |
| | | | report, clearance certificate and weighbridge dockets | | |
| | | | from receiving facilities. | | |
| | | | | | |



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| B65 | 59 | 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'. | Refer to evidence collected to consent B65 above. | | Compliant | |
| C7 | 60 | 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, Christie have considered the following guideline: - DECC Interim Construction Noise Guideline. | | Compliant | |
| C8 | 61 | 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 | 62 | 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 <i>Interim Construction Noise Guideline</i> as being particularly annoying to noise sensitive receivers. | No noise complaints were received by Christie or Frasers Property. | | Compliant | |
| C10 | 63 | 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. | | | | |



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| C11 | 64 | 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 | |
| C15 | 65 | 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 | 66 | 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. | |



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| C17 | 67 | 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 | 68 | 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. | required for this site as fill material and underlying natural material was excavated and disposed offsite. required for this site as fill material and underlying natural material was excavated and disposed offsite. required for this site as fill material and underlying natural material was excavated and disposed offsite. | | Not triggered. | |
| C19 | 69 | 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 | 70 | 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 | 71 | 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 finding and managed in accordance with Christies Asbestos Management Plan (Appendix 12 of the CEMP). | | Compliant | |



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| C28 | 72 | 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) Christie advised that all trucks had covered their loads prior to leaving site. d) Metal rumble grid installed at site exit to facilitate removal of sediment and other materials prior to vehicles leaving site. | | Compliant | |
| C31 | 73 | 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 Christie Civil and provided to Environmental Earth Sciences as part of this audit. Good housekeeping practices were noted during Environmental Earth Sciences site inspections. | | Compliant | |
| C32 | 74 | 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 | 75 | 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 | |
| C34 | 76 | 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 | |



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| C35 | 77 | 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. | | Compliant | |
| C36 | 78 | 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 | |
| C37 | 79 | 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 were noted on the day of the audit inspection. There were signs of uncontrolled sedimentation around one stormwater drain to the south of the site adjacent to Shrimpton Creek, likely exacerbated from recent heavy rain (Photograph 15 in Appendix D). Storm water drains were well protected with gravel sausages, and along Road No.1 from Herring Road leading onto the site there was no evidence of heavy vehicles tracking soil from the internal roads (Photographs 27 - 30 in Appendix D). A buoyant sediment and debris trap was installed downstream in Shrimpton Creek which was noted to be full of debris at the time of the inspection (Photograph 17 in Appendix D). | Erosion and Sediment Controls need to be cleaned and maintained more frequently especially before and after heavy rainfall events. Status and corrective actions need to be recorded in the daily and weekly Safety and Environmental Inspection checklists. | Not triggered. | The sedimentation around stormwater pits and drains will be cleaned out regularly and monitored. Areas around drains have been lined with Geofabric to provide ground cover and minimise erosion or chance for contaminated water to enter the stormwater system. |



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| C38 | 80 | 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) Earthworks were in progress during the time of the audit inspection. Christie advised that earthworks were being scheduled so excavated material could be taken offsite expediently. c) minimal amount of construction material was noted being stored on site. d) The grounds were wet due to recent rainfall events. e) Christie advised that all vehicles carrying spoil offsite were covered. f) Metal rumble grid installed at site exit to facilitate removal of dirt and debris prior to vehicles leaving site. g) Gate is fitted with shade cloth. h) Roadways regularly cleaned. Any tracking of soil from the internal to external roads was not noted during audit inspection. | | Compliant | |



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| C49 | 81 | 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 reestablishment 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 generally good housekeeping practices during the site audit inspection. (b) Diesel and petrol are stored in fuel jerry cans away from site works. (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. | (a) The area for storage of hazardous chemicals on site should be tidied up and all containers should be clearly labelled and kept in lockable and ventilated storage. Empty containers need to be disposed of appropriately. | Not triggered. | Noted. The area will be tidied up and ensure all materials are labelled. The area is already well ventilated, and substances are stored in a lockable storage container (bunded) |
| C52 | 82 | The Applicant shall store all chemicals, fuels and oils used onsite 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. | Christie stores diesel and petrol onsite. Diesel and petrol are stored in fuel jerry cans in bunded fuel cages on site away from earthworks. | The area for storage of hazardous chemicals on site should be tidied up and all containers should be clearly labelled and kept in lockable and ventilated storage. Empty containers need to be disposed of appropriately. | Compliant | Noted. The area will be tidied up and ensure all materials are labelled. The area is already well ventilated, and substances are stored in a lockable storage container (bunded) |



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| D5 | 83 | 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 | 84 | 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 | |
| D19 | 85 | 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. | |



| SSD 8903 MOD 4 Condition of Consent | | Compliance Requirement | Evidence collected (Data/document author, date, title, reference number) | Independent Audit Comment & Recommendations | Compliance status | Proponent Response to Findings |
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| D52 | 86 | 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 | | | | |



| Condition | Compliance Requirement | Independent Audit Finding | Independent Audit Recommendation | Proponents Proposed Action / Action taken / Response (as applicable) | Proposed Action Due Date |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Proponent response to En | vironmental Earth Sciences (2020) Prelimir | nary findings – independent environ | mental audit at Stage 1 Ivanhoe Estate, Ma | cquarie Park, NSW (ref: 122077_EMS Aud | dit_V2, 17 December (2020) |
| B42. Construction Noise and Vibration Management Plan (CNVMP) | Prior to the commencement of any works, a CNVMP prepared by a suitably qualified person shall be submitted to the Certifier. The CNVMP must be prepared in consultation with, and address the relevant be prepared in accordance with the EPA's Interim Construction Noise Guideline. | | Environmental Earth Sciences (2020) Auditor Recommendation: Please identify the suitably qualified person, experience and credentials to demonstrate compliance to Condition B42. | Osterman Consult was engaged by Mainland Civil to conduct noise and vibration monitoring. Refer to Appendix C of <i>Version 1</i> of this audit (ref: 120077_Review of EMS_V1, 27 August 2021) for noise and vibration monitoring reports. | Complete / Compliant. |
| B42. CNVMP | Ensure all potentially impacted stakeholders 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. | | Auditor recommendation: Mainland Civil to provide example of letter issued. | Mainland Civil provided Environmental Earth Sciences with the letter provided to neighbouring residents. Refer to Appendix C of Version 1 of the previous six-monthly compliance audit (ref: 120077_Review of EMS_V1, 27 August 2021) for the notification letter: • Mainland Civil Pty Ltd (2020c), Notice of Construction Commencement, Ivanhoe Estate – (dated 16 December 2020). | Complete / Compliant. |



| Condition | Compliance Requirement | Independent Audit Finding | Independent Audit Recommendation | Proponents Proposed Action / Action taken / Response (as applicable) | Proposed Action Due Date |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| B45. Construction Soil and Water Management Plan (CSWMP) Proponent response to En | 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: 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. | nonthly performance audit, Stage 1 Ivan | Auditor recommendation: Further information required as cannot find reference to this. Please provide evidence that these events were factored for the sediment basin design. | 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. | Complete / Compliant. |
| C36 Stockpile Management | 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. | Frasers Property received a complaint on 14 March 2021 from a local resident concerned about spoil in a stockpile collapsing towards her residence due to heavy rainfall. Mainland Civil investigated the complaint on 15 March and recommended flattening out of the stockpiles to improve the unsightly view for the neighbouring residents. | Limit the height of stockpiles and ensure stockpiles are compacted and secure at the end of each day. | Bulk and detailed earthworks by Mainland Civil have since been completed site. | Complete / Compliant. |
| B40 (c) Construction Environmental Management Plan (CEMP) | Include a Dust Management Plan, incorporating the mitigation measures outlined in the Air Quality Assessment, prepared by WSP, dated October 2018. | Section 5.8.4 refers to multiple monitors, but only one dust gauge installed each month. What is the reasoning for not having multiple dust gauges installed onsite? | Due to the size of the site, multiple dust gauges should be installed for monthly monitoring. | Bulk and detailed earthworks by Mainland Civil have been completed at the site. | Complete / Compliant. |



| Condition | Compliance Requirement | Independent Audit Finding | Independent Audit Recommendation | Proponents Proposed Action / Action taken / Response (as applicable) | Proposed Action Due Date |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B42 (f) Construction Noise and Vibration Management Plan (CNVMP) | 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. | Regular noise monitoring should be conducted focusing on more than one noise sensitive location. | Not required to be undertaken during this audit reporting period. | Complete / Compliant. |
| B45. Construction Soil and Water Management Plan (CSWMP) | | Calibration records for water quality meter should be available. | Water quality meter to be calibrated and records provided to Environmental Earth Sciences. | Records not provided at the time of issue of this audit report. Deadline provided, with advice to provide any such calibration records for meters used. Item to be closed out upon provision of information. Recommended to be submitted in the next audit cycle. Water quality monitoring with a water quality meter was not undertaken in the audit period between 12 April 2022 and 5 September 2022. Environmental Earth Sciences has been informed by Frasers that Christie Civil Pty Ltd are now responsible for managing the construction water on site. Regular water quality monitoring of Shrimpton Creek and the sedimentation basin using a calibrated water quality meter has been recommended in the September 2022 audit. | Progressing. Compliant pending records of water quality parameters by calibrated water quality meter are provided to Environmental Earth Sciences. Christie Civil will implement water quality monitoring on a monthly basis with a calibrated water quality meter. This will be in effect immediately, as per response received 13/10/2022. |



| Condition | Compliance Requirement | Independent Audit Finding | Independent Audit Recommendation | Proponents Proposed Action / Action taken / Response (as applicable) | Proposed Action Due Date |
|-----------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|----------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|
| B42 Construction Noise and Vibration Management Plan (CNVMP) | | Noise meter is overdue for calibration. | Noise meter to be calibrated. | Not required to be implemented during this audit reporting period. | Complete / Compliant. |
| 2022). | vironmental Earth Sciences (2022) – Six r | monthly performance audit, Stage 1 Ivan | | | |
| B45. Construction Soil | | | Calibration records for water quality | Water quality monitoring with a water | Progressing. |
| and Water Management | | | meter should be available. This | quality meter was not undertaken in | |
| Plan (CSWMP) | | | supporting information has been | the audit period between 12 April | Compliant pending records of water |
| 5.7 SWMP: Table | | | requested and will be furnished by Parkview. | 2022 and 5 September 2022. | quality parameters by calibrated water quality meter are provided to |
| | | | | Environmental Earth Sciences has | Environmental Earth Sciences. |
| 5.7.2 Soil and Water | | | | been informed by Frasers that Christie | |
| Sources and Mitigation | | | | Civil Pty Ltd are now responsible for | Christie Civil will implement water |
| Methods | | | | managing water monitoring on site. | quality monitoring on a monthly basis with a calibrated water quality meter. |
| 5.7.3 Temporary | | | | Regular water quality monitoring of | This will be in effect immediately, as |
| sediment basin | | | | Shrimpton Creek and the | per response received 13/10/2022. |
| | | | | sedimentation basin using a calibrated | |
| | | | | water quality meter has been | |
| | | | | recommended in the September 2022 | |
| | | | | audit. | |



| Condition | Compliance Requirement | Independent Audit Finding | Independent Audit Recommendation | Proponents Proposed Action / Action taken / Response (as applicable) | Proposed Action Due Date |
|---------------------------------------------------------------------------|------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| B40, B42, B43, B44, B45 Construction Environmental Management Plan (CEMP) | | | Routinely update the Parkview Construction Management Plan (CMP) and all relevant sub environmental management plans. The CMP needs to clearly outline the present site activities / stages / scope of works and be updated in accordance with the development consent SSD 8903. The integrated management plan (Mainland Civil 2020) refers to Stage 1 Bulk excavations and roadworks. | After request, Parkview provided their updated CMP on 13 October 2022, outlining present site activities / stages / scope of works in Section 8.3. Parkview are still to update relevant sub environmental management plans in accordance with development consent SSD 8903 condition B40, B42, including: Dust Management Plan Construction Noise and Vibration Management Plan Air Quality and Odour Management Plan Construction Waste Management Plan Construction Soil and Water Management Plan | Progressing. Compliant pending Parkview updates relevant sub environmental management plans. |



Table C: Proponent response to draft Independent Audit Report

| ltem | Description of item | Proponent Response | Timetable for implementation | Auditor comment |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Proponent - Christie Civil Pt | y Ltd | | , | |
| 1 | The buoyant sediment and debris trap installed downstream in Shrimpton Creek should be routinely checked and emptied when near to full. The status of the sediment trap will need to be evaluated and documented in the daily and weekly Safety and Environmental Inspection checklists and corrective action noted where required. | Christie Civil will include this the checking of the silt boom downstream of Shrimptons Creek into the weekly site inspection. | Immediate | Records of the daily / weekly 'Safety and Environmental Inspection' checklists with comments and requested actions undertaken will be reviewed as part of the next and subsequent 6-monthly audits. The buoyant sediment and debris trap installed downstream in Shrimpton Creek will be inspected as part of the next 6-monthly audit. |
| 2 | Uncontrolled sedimentation was noted around certain stormwater drains. Sediment controls around stormwater drains need to be cleaned and maintained more frequently especially before and after heavy rainfall events. Status and corrective actions need to be recorded in the daily and weekly Safety and Environmental Inspection checklists. | The sedimentation around stormwater pits and drains will be cleaned out regularly and monitored. Areas around drains have been lined with Geofabric to provide ground cover and minimise erosion or chance for contaminated water to enter the stormwater system. | Immediate | Records of the daily / weekly 'Safety and Environmental Inspection' checklists with comments and requested actions undertaken will be reviewed as part of the next 6-monthly audit. Stormwater pits & silt fences will be inspected for any sedimentation impacts will be inspected as part of the next and subsequent 6-monthly audits. |
| 3 | The quality of surface water in the creek, upstream and downstream of bridge works, and in the sediment retention basins should be monitored monthly using a calibrated water quality meter, noting water quality parameters (e.g., pH, electrical conductivity and turbidity / suspended solids) and any visual / olfactory indications of contamination or eutrophication. Calibration records for water quality meter should be available. | Christie Civil will implement the monitoring of water quality upstream and downstream each month. | Immediate | Records of monthly water quality monitoring of Shrimptons Creek and of surface water from the sedimentation basin will be reviewed in will be reviewed as part of the next and subsequent 6-monthly audits. Calibration records for water quality meter have been requested to be made available for inspection. |
| 4 | The area for storage of hazardous chemicals on site should be tidied up and all containers should be clearly labelled and kept in lockable and ventilated storage. Empty containers need to be disposed of appropriately. | Noted. The area will be tidied up and ensure all materials are labelled. The area is already well ventilated, and substances are stored in a lockable storage container (bunded) | 14/10/2022 | The storage area for hazardous chemicals will be inspected again as part of the next 6-monthly audit to ensure appropriate labelling and storage is being undertaken. |
| 5 | Update to the Construction Waste Management Plan (Appendix 10 of the CEMP) to include nominated authorised receiving facilities of all waste and recycling generated. | A table of nominated facilities used for waste will be added to Waste Management Plan as advised. | 14/10/2022 | Complete / Compliant. Christie provided their updated Construction Waste Management Plan on 24 October 2022, outlining nominated authorised receiving facilities of all waste and recycling generated in Appendix D. |



Table C: Proponent response to draft Independent Audit Report

| Item | Description of item | Proponent Response | Timetable for implementation | Auditor comment |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | There is no active dust monitoring onsite. Dust monitors should be set up adjacent to sensitive receptors. | Dust generated is minimal as there is a watercart onsite full time. Should complaints of dust from sensitive receivers be advised, dust monitoring may be implemented. | N/A | It is noted that dust generation was minimal due to prevailing wet weather over the period of this audit, however the current audit requirement remains. According to SSD 8903 MOD 4 Condition of Consent B43, the 'Air Quality and Odour Management Plan' (AQOMP) must include proactive and reactive management strategies, key performance indicators (KPIs), monitoring measures, record keeping, response mechanisms, contingency and compliance reporting measures. |
| 7 | The AQOMP does not include key performance | We do not believe these are required. | N/A | As above the current audit requirement remains. |
| | indicators, monitoring measures, response mechanisms and contingencies. It is recommended that the AQOMP should be updated to include these. | | | According to SSD 8903 MOD 4 Condition of Consent B43 the AQOMP must include proactive and reactive management strategies, KPIs, monitoring measures, record keeping, response mechanisms, contingency and compliance reporting measures. |
| 8 | The project has established noise management levels (Acoustic Logic 2019) however no active noise monitoring was conducted during the Audit period. Any exceedances of the "highly noise affected level" cannot be quantified. Noise meters should be set up adjacent to sensitive receptors. | If noise complaints are received, noise monitors can be considered adjacent to sensitive receivers. | N/A | Noted, however current audit finding remains. According to SSD 8903 MOD 4 Condition of Consent B42h, the 'Construction Noise and Vibration Management Plan' (CNVMP) must include a suitable and proactive construction noise and vibration monitoring program which aims to ensure the operational construction noise and vibration criteria in this consent are tracked and not exceeded. |
| | | | | The project has established noise management levels (Acoustic Logic, 2019) however no active noise monitoring was conducted during the Audit period. Any exceedances of the "highly noise affected level" cannot be quantified. |
| 9 | Ensure that corrective actions such as dredging of the sediment basin and the clearing and maintenance of sediment controls around stormwater drains are recorded in the daily and weekly site checklists. | Noted and these will be captured | Immediate | Records of the daily / weekly 'Safety and Environmental Inspection' checklists with comments and actions undertaken will be inspected as part of the next 6-monthly audit. |
| 10 | Routinely update the CEMP and all relevant sub environmental management plans, and/or specifically update CEMP and all relevant sub environmental management plans when changes to construction methods occur. | Noted and to be updated regularly as advised within CEMP. | Immediate | Updated CEMP will be reviewed as part of the next 6-monthly audit. |



Table C: Proponent response to draft Independent Audit Report

| ltem | Description of item | Proponent Response | Timetable for implementation | Auditor comment |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Proponent - Parkview Construction | ion Pty Ltd | | | |
| 11 | Routinely update the Parkview CMP and all relevant sub environmental management plans. The CMP needs to clearly outline the present site activities / stages / scope of works and be updated in accordance with the development consent SSD 8903. | After request, Parkview provided their updated CMP on 13 October 2022, outlining present site activities / stages / scope of works in Section 8.3. | | Part of audit requirement remains applicable. The updates to present site activities, stages and scope of works detailed in Section 8.3 have been noted and are considered compliant. Parkview are still yet to update relevant environmental management sub-plans in accordance with development consent SSD 8903 condition B40, B42, including: Dust Management Plan Construction Noise and Vibration Management Plan Air Quality and Odour Management Plan Construction Waste Management Plan Construction Soil and Water Management Plan |



APPENDIX C: INDEPENDENT AUDIT DECLARATION FORM



| 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 A1, Macquarie Park, NSW (Version 2) | |
| Date | 16 August 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 | Matrohey |
| 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 |





1. Entrance to Christie Civil site office – facing east from access road.



2. Heavy vehicle entrance to Christie Civil site – facing northwest towards access road. Shaker grid in foreground and Christie site office (right).



3. Earthworks in progress - facing west from eastern corner of site.



4. Sedimentation basin in central portion of site – drained and desilted.



5. Earthworks in progress – facing southeast towards Shrimpton Creek.



6. Excavation and installation of stormwater drainage



7. Excavated swale for temporary diversion of upslope stormwater along the southwestern boundary of the site – facing northwest.



8. The initial and furthermost upslope sedimentation retention basin in the southwestern portion of the site - facing south with trees lining the southwestern boundary beyond.



9. Silt fence present with the sedimentation retention ponds beyond (right).



10. The second and main sedimentation retention basin. Water appeared clear with no signs of algae, visual and / or olfactory signs of contamination.



11. Overflow water from sedimentation retention basin being discharged into grassy area. Vegetation appears healthy with no signs of die-back or signs of contamination.



12. Mulch stockpiles in souther portion of site — facing northeast.



13. Class A hoarding installed around the site - facing east.



14. Construction over Shrimptons Creek crossing, piling and reinforced concrete slab – facing southeast.



15. Signs of uncontrolled sedimentation around stormwater drain in the south south the site adjacent to Shrimpton Creek.



16. Shrimpton Creek – downstream.



17. Shrimpton Creek – downstream. Buoyant sediment trap full of debris.



18. Shrimpton Creek – upstream.



19. Temporary laydown area for inert bridge construction material south of Shrimptons Creek – facing southwest towards Lyonpark Road.



20. Covered stockpile in area southeast of Shrimpton Creek.



21. Area for storage of equipment and chemicals.



22. Unlocked storage for flammable liquid.





25. Spill response kit.



24. Containers inside and outside unlocked cage.



26. Secure storage for flammable liquid.



27. Access Road (Road No. 1) from Stage 1B work site to Herring Road – facing northwest towards Herring Road.



28. Silt bags and fabric filter installed around stormwater drain along Road 1.



29. Sedimentation basin – facing south south west.



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



| APPENDIX E: DAILY AND WEEKLY SITE CHECKLISTS |
|----------------------------------------------|
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| |
| |
| |



| Project: Ivanhoe Estate | Stage 1B Civil Works | | |
|-------------------------|----------------------|-------|---------|
| For Week Commencing | (Date): 02/05/2022 | | |
| Person completed by: | Dani Belani | Date: | 6/05/22 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|------|-------------------------------------------|----------|----------|----------|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | NA | N/A | N/A | NIA | NIA | |
| Service search complete, all workers aware of service locations | Foreman/SE | V | V | V | / | / | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 1 | / | 1 | / | 1 | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | XXAP | MAN AND AND AND AND AND AND AND AND AND A | CAN) | ani | OF | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | / | / | 1 | / | / | |
| Visually check all environmental controls around site are in good condition and as per EMP or other plans | Foreman/SE | / | / | 1 | V | 1 | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | V | 1 | 1 | V | 1 | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | V | / | 1 | V | / | |
| Review and update ITPs as required | Site Engineer | / | ✓ | / | / | / | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | V | / | 1 | V | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | V | / | J | 1 | / | |



| Drawing revisions checked and Register | Site Engineer | WEEKLY | |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|-----------------------------------------|
| updated | | Completed Not Complete | ea 🔲 |
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed Not Complete | ed 🗌 |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed Not Complete | ed 🗌 |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed Not Complete | ed 🗬 |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Complete | ed 🗌 |
| COMMENTS: | | | |
| | *************************************** | | |
| | | | |
| | | | |
| | | | |
| | | | _ |
| | | | |
| ACTION ARISING (issue NCRs as required): | | | |
| | | | |
| | | | |
| | | | *************************************** |
| | ************************************** | | |
| | | | |
| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 6/05/22 | |



| Project: Ivanhoe | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|----------|--------------|------|--------------|-----|
| For Week Commencing (Date): 9/05/22 | | | | | | | |
| Completed by: Dani | | | Date | : 13, | 105/ | 202 | 2 |
| Site Inspection to be conducted by Foreman All high-risk non-complying items to be isolated and re Lower-risk items to be rectified within 48 hours NCRs to be issued for high-risk non-compliances | ectified immediately | | | | | | |
| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | Dig | Dig | Dig | Dig | Dig | |
| Service search complete, all workers aware of service locations | Foreman/ŞE | | Ø | | | | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | Ø | | | I | V | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | MA | D | N/A | N/A | N/A | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | M | | \checkmark | I | \checkmark | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 7 | S | | 1 | Y | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | | | | | Y | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | | | V | | | |
| Review and update ITPs as required | Site Engineer | V | 1 | | V | | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | | | | □ | V | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | \Box | | d | | V | |



| Drawing revisions checked and Register updated | Site Engineer | Completed |
|---------------------------------------------------------------------------------------------------------------|---------------|--------------|
| | | WEEKLY |
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | \checkmark |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non-conforming aspects resolved | Foreman/SE | WEEKLY |
| Veekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY |
| COMMENTS: | | |
| ACTION ARISING (issue NCRs as required): | | |
| | | |
| | | |
| | | |
| VERIFIED CLOSED-OUT | | |



| Project: Ivanhoe Estate | Stage 1B Civil Works | | |
|-------------------------|----------------------|-------|----------|
| For Week Commencing | g (Date): 16/05/2022 | | |
| Person completed by: | Dani Belani | Date: | 20/05/22 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|----------|----------|-----|----------|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | NA | NIA | NIA | NIA | N/A | |
| Service search complete, all workers aware of service locations | Foreman/SE | / | 1 | ~ | 1 | V | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 1 | V | 1 | 1 | 1 | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | N/A | NIA | NIA | NA | NIA | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | / | / | 1 | ~ | / | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | / | ✓ | 1 | / | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | ~ | 1 | / | V | / | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | ~ | 1 | 1 | 1 | / | |
| Review and update ITPs as required | Site Engineer | ~ | V | 1 | / | / | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | V | 1 | V | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | ~ | 1 | / | V | / | |



| Drawing revisions checked and Register updated | Site Engineer | | NEEKLY Not Completed |
|----------------------------------------------------------------------------------------------------------------|---------------|-------|-----------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | V | NEEKLY Not Completed |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | | WEEKLY ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | | WEEKLY ☑ Not Completed □ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | | NEEKLY ✓ Not Completed ☐ |
| COMMENTS: | | | |
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| ACTION ARISING (issue NCRs as required): | | | |
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| | | | |
| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: | 20/05/22 |



| Project: Ivanhoe Estate Stage 1B Civil Works | | |
|----------------------------------------------|-------|------------|
| For Week Commencing (Date): 23/05/2022 | | |
| Person completed by: James Seaton | Date: | 23/05/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|--------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | 1 | / | 1 | 1 | 1 | |
| Service search complete, all workers aware of service locations | Foreman/SE | / | 1 | 1 | 1 | / | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 1 | 1 | 1 | 1 | 1 | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | / | NIA | NIA | J | NIA | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | / | 1 | 1 | 1 | 1 | |
| Visually check all environmental controls around site are in good condition and as per EMP or other plans | Foreman/SE | / | / | / | / | 1 | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | 1 | / | / | / | / | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | 1 | / | / | 1 | |
| Review and update ITPs as required | Site Engineer | / | / | / | 1 | 1 | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | | / | / | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 1 | / | / | / | 1 | |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed Not Completed □ |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ● |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| COMMENTS: | | |
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| ACTION ARISING (issue NCRs as required): | | |
| ACTION ARISING (issue NCRs as required): | | |
| ACTION ARISING (issue NCRs as required): | | |



| Project: Ivanhoe Estate Stage 1B Civil Works | | |
|----------------------------------------------|-------|------------|
| For Week Commencing (Date): 30/05/2022 | | |
| Person completed by: James Seaton | Date: | 30/05/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | / | / | 1 | 1 | 1 | 1 |
| Service search complete, all workers aware of service locations | Foreman/SE | / | / | 1 | 1 | / | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 1 | / | 1 | / | / | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | 1 | NIA | NA | NIA | NA | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | / | / | / | / | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | 1 | / | / | / | |
| All fire extinguishers are tagged, in date, charged and easily accessible New To CHECK | ENSPECTION PLUE TOURS FOREMAN/SE 2022 X 2 March Relumper | 1 | 1 | 1 | / | / | |
| Review controls nominated in SWMS's for effectiveness and update if required | From There of Foreman/SE | 1 | V | 1 | / | 1 | |
| Review and update ITPs as required | Site Engineer | / | / | 1 | / | / | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | / | / | / | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | / | / | / | 1 | / | |



| Drawing revisions checked and Register | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|--------------------------------------------------------------------------|---------------|-------------------------------------|
| Container is clean and tidy, tools stored | F | WEEKLY |
| correctly and no hazardous chemicals stored inside | Foreman | Completed Not Completed |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection | | WEEKLY |
| Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | Completed ☑ Not Completed ☐ |
| | | WEEKLY |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | Completed ☑ Not Completed ☐ |
| COMMENTS: | | |
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| ACTION ARISING (issue NCRs as required): | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 03/06/2022 |



| Project: Ivanhoe Estate Stage 1B Civil Works | | |
|----------------------------------------------|-------|---------|
| For Week Commencing (Date): 30/05/2022 | | |
| Person completed by: Dani Belani | Date: | 3/06/22 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|----------|----------|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | Dig | Dig | Dig | Dig | Dig | |
| Service search complete, all workers aware of service locations | Foreman/SE | ~ | V | V | > | V | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | > | > | 1 | V | V | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | 15T | YA. | NJA | \ 18T | NA | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | V | V | 5 | V | V | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | V | V | 1 | <i>y</i> | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | V | V | V | V | 1 | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | V | V | 1 | J | V | |
| Review and update ITPs as required | Site Engineer | J | V | 1 | V. | V | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | V | V | V | V | 1 | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 1 | 1 | 1 | 1 | 1 | |



| Drawing revisions checked and Register updated | Site Engineer | I come or a first | WEEKLY Not Completed |
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| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | | WEEKLY Not Completed |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | | WEEKLY ✓ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | | WEEKLY ✓ Not Completed |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | | WEEKLY ✓ Not Completed |
| COMMENTS: | | | |
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| ACTION ARISING (issue NCRs as required): | | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: | 03/06/22 |



| Project: Ivanhoe Estate Stage 1B Civil Works | | |
|----------------------------------------------|-------|------------|
| For Week Commencing (Date): 06/06/2022 | | |
| Person completed by: James Seaton | Date: | 06/06/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | 1 | 1 | 1 | 1 | 1 | |
| Service search complete, all workers aware of service locations | Foreman/SE | 1 | 1 | / | / | 1 | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | | 1 | 1 | / | 1 | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | / | NIA | NYA | NK | / | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | / | / | 1 | | / | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | 1 | / | 1 | / | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | 1 | / | / | / | / | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | 1 | / | / | 1 | |
| Review and update ITPs as required | Site Engineer | / | / | / | / | 1 | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | / | 1 | 1 | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | / | 1 | / | / | / | |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| COMMENTS: | | |
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| ACTION ARISING (issue NCRs as required): | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 10/06/2022 |



| Project: Ivanhoe Estate | 1B Civil Works | | |
|-------------------------|----------------------|-------|------------|
| For Week Commencing | g (Date): 13/06/2022 | | |
| Person completed by: | James Seaton | Date: | 14/06/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | No | 1 | 1 | / | 1 | |
| Service search complete, all workers aware of service locations | Foreman/SE | W | 1 | / | / | / | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | Q | / | / | / | / | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | R | / | / | V | NIA | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 12 | 1 | 1 | V | 1 | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | PU | / | / | 1 | 1 | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | | 1 | / | / | / | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | | / | / | | / | |
| Review and update ITPs as required | Site Engineer | ¥ | / | 1 | | / | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | | 1 | 1 | / | 1 | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 7 | 1 | | 1 | 1 | |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
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| ACTION ARISING (issue NCRs as required): NER-OCT FROM FIRM AN / INCIDENT | or | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 17/06/2022 |



| Project: Ivanhoe Estate 1B Civil Works | | |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 27/06/2022 | | |
| Person completed by: James Seaton | Date: | 29/06/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | 1 | / | / | 1 | 1 | |
| Service search complete, all workers aware of service locations | Foreman/SE | 1 | / | / | 1 | / | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | / | ~ | / | 1 | 1 | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | N/A | NA | NA | ND | / | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | 1 | 1 | / | / | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | / | / | 1 | / | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | 1 | / | / | 1 | 1 | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | / | / | / | / | |
| Review and update ITPs as required | Site Engineer | 1 | / | 1 | 1 | / | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | 1 | / | 1 | 1 | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 1 | / | / | 1 | / | |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
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| ACTION ARISING (issue NCRs as required): | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 01/07/2022 |



| Project: Ivanhoe Estate 1B Civil Works | | |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 27/06/2022 | | |
| Person completed by: James Seaton | Date: | 29/06/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | 1 | / | / | 1 | 1 | |
| Service search complete, all workers aware of service locations | Foreman/SE | 1 | / | / | 1 | / | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | / | ~ | / | 1 | 1 | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | N/A | NA | NA | ND | / | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | 1 | 1 | / | / | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | / | / | 1 | / | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | 1 | / | / | 1 | 1 | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | / | / | / | / | |
| Review and update ITPs as required | Site Engineer | 1 | / | 1 | 1 | / | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | 1 | / | 1 | 1 | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 1 | / | / | 1 | / | |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
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| ACTION ARISING (issue NCRs as required): | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 01/07/2022 |



| Project: Ivanhoe Estate 1B Civil Works | | |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 27/06/2022 | | |
| Person completed by: James Seaton | Date: | 29/06/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | 1 | / | / | 1 | 1 | |
| Service search complete, all workers aware of service locations | Foreman/SE | 1 | / | / | 1 | / | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | / | ~ | / | 1 | 1 | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | N/A | NA | NA | ND | / | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | 1 | 1 | / | / | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | / | / | 1 | / | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | 1 | / | / | 1 | 1 | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | / | / | / | / | |
| Review and update ITPs as required | Site Engineer | 1 | / | 1 | 1 | / | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | 1 | / | 1 | 1 | / | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 1 | / | / | 1 | / | |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
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| ACTION ARISING (issue NCRs as required): | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 01/07/2022 |



| Project: Ivanhoe Estate 1B Civil Works | | i k |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 04/07/2022 | | |
| Person completed by: James Seaton | Date: | 04/07/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|--------------|---------|-------|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | No | Caro, | 1 | 3 | 禁 | / |
| Service search complete, all workers aware of service locations | Foreman/SE | W | ريي | <u></u> | 9 | 芝 | / |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 0/ | | | \(\) | 类 | / |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | R/ | | NA | O)/A | N/A | V |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | K | City Control | 35 | 9 | 深人 | 1 |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | R | وين | 3:1 | 0 | 茶ノ | / |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | A | | 35 | 9 | 券/ | / |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | 11 | | () () | | 茶 | / |
| Review and update ITPs as required | Site Engineer | N | (FA) | 3 | 9 | 类 | / |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | | Sp. 3/ | | 9 | 茶/ | 1 |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | V | | (Jan) | | 游 | 1 |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| HEAVY RAINFAU PUPING THE WEEK THE SEPIMENT BASIN & CONESSED RE AROUND THE PRAINAGE PIPES, ADV BASIN TO REMOVE MUB & PEBRU IN THE EVENT OF MORE RAIN. | VEAUNC HÉA 15ED TO DR | EDGE THE SEDIMENT |
| ACTION ARISING (issue NCRs as required): | | |
| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 08/07/2022 |



| Project: Ivanhoe Estate 1B Civil Wor | rks | | |
|--------------------------------------|---------|-------|------------|
| For Week Commencing (Date): 11/ | 07/2022 | | |
| Person completed by: James Seate | on | Date: | 11/07/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours NCRs to be issued for high-risk non-compliance

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | / | 1 | 1 | / | 1 | / |
| Service search complete, all workers aware of service locations | Foreman/SE | / | 1 | 1 | 1 | 1 | / |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | / | | / | 1 | | / |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | NA | NIA | NIA | rla | / | NA |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | / | / | / | / | 1 | / |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | 1 | / | 1 | / | / | 1 |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | / | / | / | / | 1 | / |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | / | 1 | / | / | / |
| Review and update ITPs as required | Site Engineer | / | / | / | / | / | / |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | / | 1. | / | | / |
| Prestart Meetings have been occurring prior to vorks commencing each morning | Foreman/SE | / | 1 | / . | / | | 1 |



| Drawing revisions checked and Register | Site Engineer | WEEKLY | | | |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|--|--|--|
| updated | One Engineer | Completed Not Completed | | | |
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored nside | Foreman | WEEKLY Completed ☑ Not Completed ☐ | | | |
| | | WEEKLY | | | |
| PPE being worn, PPE Register is available and s being completed | Foreman/SE | Completed ☑ Not Completed ☐ | | | |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ | | | |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed Not Completed | | | |
| COMMENTS: | | | | | |
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| ACTION ARISING (issue NCRs as required): | | | | | |
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| VERIFIED CLOSED-OUT | | DATE: 15/07/2022 | | | |
| (Site Engineer / Foreman): | | .51 110-2 | | | |



| Project: Ivanhoe Estate 1B Civil Works | | |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 18/07/2022 | | |
| Person completed by: James Seaton | Date: | 18/07/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours NCRs to be issued for high-risk non-compliance

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | / | / | 1 | 1 | 1 | |
| Service search complete, all workers aware of service locations | Foreman/SE | 1 | 1 | 1 | 1 | 1 | |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | / | / | / | 1 | / | |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | NA | ala | NA | NA | NA | |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | / | / | 1 | 1 | |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | / | / | 1 | 1 | 1 | |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | / | / | / | / | 1 | |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | 1 | 1 | 1 | / | 1 | |
| Review and update ITPs as required | Site Engineer | / | 1 | 1 | 1 | 1 | |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | 1 | 1 | 1 | 1 | |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | / | | / | 1 | 1 | |



| Drawing revisions checked and Register updated | Site Engineer | | WEEKLY ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------|-------|----------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | | WEEKLY Not Completed |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | | WEEKLY ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | | WEEKLY Not Completed |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | | WEEKLY Not Completed |
| | | | |
| | | | |
| ACTION ARISING (issue NCRs as required): | | | |
| | | | |
| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | ************************************** | DATE: | 22/07/2022 |



| Project: Ivanhoe Estate | e 1B Civil Works | | |
|-------------------------|----------------------|-------|------------|
| For Week Commencin | g (Date): 25/07/2022 | | |
| Person completed by: | James Seaton | Date: | 25/07/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately Lower-risk items to be rectified within 48 hours NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | / | 1 | 1 | 1 | / | 1 |
| Service search complete, all workers aware of service locations | Foreman/SE | / | 1 | / | 1 | | / |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | / | 1 | / | 1 | / | V |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | NIA | 1. | 1) | NIA | / | 1 |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | / | / | / | / | / | / |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | / | / | / | / | / | 1 |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | / | / | / | 1 | / | / |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | / | / | ~ | / | 1 |
| Review and update ITPs as required | Site Engineer | / | / | 1 | / | / | 1 |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | / | 1 | / | / | 1 |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | | 1 | / | / | | 1 |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed Not Completed |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| COMMENTS: | | |
| | | |
| ACTION ARISING (issue NCRs as required): | | |
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| Project: Ivanhoe Estate 1B Civil Works | | |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 01/08/2022 | | |
| Person completed by: James Seaton | Date: | 01/08/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | / | 1 | 1 | 1 | 1 | / |
| Service search complete, all workers aware of service locations | Foreman/SE | / | // | 1 | 1 | / | 1 |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 1 | / | 1 | / | / | / |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | alu | NİA | NIA | NN | / | / |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | 1 | / | / | / | / |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | / | / | 1 | / | 1 | / |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | / | 1 | / | 1 | / | / |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | 1 | / | / | 1 | / | / |
| Review and update ITPs as required | Site Engineer | 1 | 1 | / | / | / | / |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | 1 | / | / | / | / | / |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 1 | / | / | / | / | / |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
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| ACTION ARISING (issue NCRs as required): | | |
| | | |
| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 06/08/2022 |



| Project: Ivanhoe Estate 1B Civil Works | | |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 08/08/2022 | | |
| Person completed by: James Seaton | Date: | 08/08/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------------|---------------|---------|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | / | 1 | 1 | | 1 | 1 |
| Service search complete, all workers aware of service locations | Foreman/SE | 1 | / | / | 1 | 1 | 1 |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | / | / | 1 | 1 | / | 1 |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | / cc | Alu | NIA | NA | MA | NEW |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | / | / | 1 | 1 | 1 | 1 |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | / | / | 1 | 1 | / | 1 |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | 1 | / | 1 | / | / | / |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | 1 | / | / | / | 1 |
| Review and update ITPs as required | Site Engineer | 1 | / | / | 1 | 1 | / |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | 1 | 1 | / | 1 | / | 1 |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | / | 1 | / | | / | / |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ⋈ Not Completed □ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| COMMENTS: | | |
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| ACTION ARISING (issue NCRs as required): | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 13/08/2022 |



| Project: Ivanhoe Estate 1B Civil Works | | |
|----------------------------------------|-------|------------|
| For Week Commencing (Date): 15/08/2022 | | |
| Person completed by: James Seaton | Date: | 15/08/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours

| ACTIVITY | RESPONSIBLE | MON | THE | WED | THI | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|--------|-----|------|-----|-----|-----|
| AOTIVITI | KESFONSIBLE | IVIOIN | IOL | VVED | Ino | LKI | SAI |
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | 1 | / | / | 1 | / | 1 |
| Service search complete, all workers aware of service locations | Foreman/SE | 1 | 1 | 1 | / | 1 | 1 |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 1 | 1 | / | 1 | / | 1 |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | NIA | NA | AIR | 1 | NA | Nla |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | / | / | / | / | / |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | / | 1 | / | / | / | / |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | / | / | | / | / | 1 |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | / | 1 | / | / | 1 |
| Review and update ITPs as required | Site Engineer | / | / | 1 | / | / | 1 |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | 1 | 1 | / | / | / | 1 |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | / | / | 1 | / | / | 1 |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ☑ Not Completed ☐ |
|----------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed ☐ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| COMMENTS: | | |
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| ACTION ARISING (issue NCRs as required): | | |
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| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 20/08/2022 |



| Project: Ivanhoe Estate | 1B Civil Works | | |
|-------------------------|--------------------|-------|------------|
| For Week Commencing | (Date): 22/08/2022 | | |
| Person completed by: | James Seaton | Date: | 22/08/2022 |

- Site Inspection to be conducted by Foreman
- All high-risk non-complying items to be isolated and rectified immediately
- Lower-risk items to be rectified within 48 hours
- NCRs to be issued for high-risk non-compliances

| ACTIVITY | RESPONSIBLE | MON | TUE | WED | THU | FRI | SAT |
|------------------------------------------------------------------------------------------------------------|---------------|-----|-----|-----|-----|-----|-----|
| Permit to Dig, Hot Works, Confined Spaces or other required Permits completed and in place | Foreman/SE | 1 | / | 1 | 1 | 1 | 1 |
| Service search complete, all workers aware of service locations | Foreman/SE | / | 1 | 1 | 1 | 1 | 1 |
| Safety fences in place around excavations and bar caps on protruding reinforcement and other sharp objects | Foreman/SE | 1 | 1 | 1 | 1 | 1 | 1 |
| Plant Onboarding check conducted and Operator competency verified for new plant on site today | Foreman/SE | NIA | Nla | NIA | ./ | NA | NA |
| Christie Civil and all Subcontractors have conducted machine/plant Daily Pre-start checks | Foreman/SE | 1 | / | / | 1 | / | 1 |
| Visually check all environmental controls around site are in good condition and as per CEMP or other plans | Foreman/SE | / | 1 | 1 | 1 | / | 1 |
| All fire extinguishers are tagged, in date, charged and easily accessible | Foreman/SE | 1 | / | 1 | / | 1 | 1 |
| Review controls nominated in SWMS's for effectiveness and update if required | Foreman/SE | / | / | 1 | 1 | / | / |
| Review and update ITPs as required | Site Engineer | / | / | 1 | 1 | / | 1 |
| All workers onsite have been inducted into site and the relevant SWMS | Foreman/SE | / | / | 1 | 1 | / | / |
| Prestart Meetings have been occurring prior to works commencing each morning | Foreman/SE | 1 | / | / | / | / | 1 |



| Drawing revisions checked and Register updated | Site Engineer | WEEKLY Completed ⊠ Not Completed □ |
|----------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|
| Container is clean and tidy, tools stored correctly and no hazardous chemicals stored inside | Foreman | WEEKLY Completed ☑ Not Completed □ |
| PPE being worn, PPE Register is available and is being completed | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| Weekly Safety + Environmental Inspection Checklist is being completed and all non- conforming aspects resolved | Foreman/SE | WEEKLY Completed ☑ Not Completed □ |
| Weekly Toolbox Talk conducted - consultation taking place with all staff | Foreman/SE | WEEKLY Completed ☑ Not Completed ☐ |
| COMMENTS: | | |
| | | |
| ACTION ARISING (issue NCRs as required): | | |
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| | | |
| VEDICIED OF OCCUPANT | | |
| VERIFIED CLOSED-OUT (Site Engineer / Foreman): | | DATE: 27/08/2022 |



- Inspection to be carried out weekly on site
- Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters
- High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours
- NCRs/PARs <u>SOPF4.04.1 NCR PAR</u> to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data

| Project: | Ivanhoe Estate Sta | age 1B Civil Works | Date | + Time Conducted: | loam 6/05/22 |
|------------|--------------------------------------------------------|-----------------------------|--------------|-------------------|--------------------|
| Christie | Civil staff conducting: | | | | |
| Name: | Dani Belani | | te engine | Signed: | plk |
| Name: | | Position: | 3 | Signed: | 10- |
| Name: | | Position: | | Signed: | |
| Name: | | Position: | | Signed: | |
| Subcon | tractors participating: | | | | |
| Name: | Market | Company: | looppeant | Signed: | |
| Name: | Derech | | hristies Peo | | ale |
| Name: | 17.53 | Company: | 1111123 100 | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| | SAFETY ISS rations, Fencing and SI | ope Stability: | Tick OK | CORRECTIV | E ACTION/ COMMENTS |
| | ut at correct slope for ma | | | | |
| benching | | 77777 | / | | |
| been con | | | · / | | |
| | 5m are fences supplied? | | | | |
| prevent p | 5m - do fences provide a persons falling? (e.g. har | physical barrier to ndrail) | 1 | | |
| Are fence | es maintained? | | | | |
| Are all pe | enetrations covered with | secured covers? | / | | |
| | | | | | |
| | and Machinery: | | | | |
| plant on s | boarding checks being co site this week | | w N/A | | |
| | s have verification of con | npetency on them? | V. | | |
| | tification/ Logbooks being | | 1 | | |
| plant? | lights and reversing buzz | | pile / | | |
| Chains a | nd slings checked and re | cords kept? | | | |
| | | | | | |



| 3) Personal Protective Equipment: | | |
|------------------------------------------------------------------------------------------------|----|--------|
| Are hivis vests being worn by all workers on site? | V | |
| Are hard hats being worn by all workers on site? | W | |
| Are safety boots being worn by all workers on site? | 1 | |
| Is ear protection being worn when needed? | 1 | |
| Is eye protection being worn when required? | V | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | V | |
| Are records kept of PPE issue to workers? | 1 | |
| 4) Electrical Safety: | | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | 3- | Booked |
| Are all leads up off the ground and hanging off insulated hangers or supports? | 1 | |
| Are leads no longer than 30m and not joined together? | V | |
| Do any multiple outlets include an earth leakage device? | V | |
| | | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | V | |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | |
| Are correct manual lifting procedures used? | | |
| Are manual handling concerns addressed properly? | ✓ · | |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | ~ | |
| Is an SDS in SDS folder for every hazardous material? | ~ | |
| Are workers inducted into the hazards of working with that material? | V | |
| Is appropriate PPE supplied for that material? | V | |
| Are spill kits available for use? | V | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | / | |
| Is there a fire extinguisher with each oxy set? | V | |
| Are there flashback arrestors on each oxy set? | NIA | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | V | |
| Is access to site delineated to allow safe passage for both persons and machines? | V | |
| Does the Traffic Controller have a stop and slow bat? | 1 | |
| Is the Traffic Controller authorised? | ~ | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | 1 | |
| Is the TCP followed? | | |
| Are records (pre-start and close checklists) completed and stored | / | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators Is hand excavation occurring within 1m of services? | V | |
| | V | |
| Has a Dial Before U Dig enquiry been conducted on this project? | 1 | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to | | |
| prevent slips, trips and falls? If used, is formwork de-nailed after use? | V | |
| Is adequate lighting provided at the workface? | | |
| Are bins provided and not overflowing? | 1 | |
| Are biris provided and not overnowing: | | |



| 10) Ladder Safety/ Access: | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | - 1 | |
| TOTAL SOURCE SANCTON CONTROL OF THE | V | |
| Does the ladder extend more than 1m above the egress? | ~ | |
| Is ladder secured at the top? | | |
| Is the ladder industrial rated and in good condition? | V | |
| | | |
| 11) Inductions + Competency: | | The second second |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | V | Shone Gordner 4105 Lochlan Burdett 4105 |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | / | Nothan Papa 4/05N Dereck Stevenson 6/05 |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | V | Vereck stevenson of os |
| Do plant and machinery operators have valid VOCs on them? | V | |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | V | |
| | | |
| SAFETY ISSUES | Tick | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | OK | A STATE OF THE STA |
| Is all exposed reo bar protected with bar caps? | 1 | |
| Is there danger from falling objects? | NIA | |
| | 10114 | |
| | | |
| | | |
| | | |
| ENVIRONMENTAL ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 13) Environmental: | OR | |
| Are silt control devices installed around stormwater pits? | / | |
| Are silt controls installed correctly? | 1 | |
| Are silt controls maintained and effective? | 1 | |
| Is dust controlled as per CEMP? | 1 | |
| Is noise controlled as per CEMP? | / | |
| Is vibration controlled as per CEMP? | / | |
| Does the site egress have environmental controls, are they effective? | / | |
| Is Community Feedback managed and recorded? | WIA | |
| | | |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION | VERIFIED CLOSED-OUT: | | |
|---------|----------------------|-----------|---------------|
| Name: | Dani Belani | Position: | Site engineer |
| Signed: | Allo | Date: | 6/05/22 |

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



Inspection to be carried out weekly on site Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours NCRs/PARs SOPF4.04.1 - NCR PAR to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data 3/05/2022 13.40 Hzs Project: Date + Time Conducted: Ivanhoe Estate Stage 1B Civil Works Christie Civil staff conducting: Name: MAINES SEATING Position: Signed: SAFETY OFFICER Name: Position: Signed: Name: Position: Signed: Name: Position: Signed:

| Name: | Company: | Signed: | |
|-------|----------|---------|--|
| Name: | Company: | Signed: | |

| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------|
| 1) Excavations, Fencing and Slope Stability: | | |
| Batters cut at correct slope for material? | NIA | |
| For excavations >1.5m deep - is there shoring or benching? | NIA | 1 |
| Falls <1.5m - do they pose a risk and have these risks been controlled? | NIA | |
| Falls >1.5m are fences supplied? | NIA | |
| Falls >1.5m - do fences provide a physical barrier to prevent persons falling? (e.g. handrail) | NA | |
| Are fences maintained? | NIA | |
| Are all penetrations covered with secured covers? | / | Dan PLATES OURSE ELECTRICAL |
| | | ROAD PLATES QUEE ELECTRICAL TRENCHING LYON PAQUE RO |
| 2) Plant and Machinery: | | |
| Plant Onboarding checks being completed? Check new plant on site this week | 1 | ANDRON LYNCHAMON |
| Operators have verification of competency on them? | 1 | Ancoral Ayaran |
| Plant certification/ Logbooks being filled out? | / | THOMAS THOMAS |
| Flashing lights and reversing buzzer operating on mobile plant? | / | |
| Chains and slings checked and records kept? | NIA | |
| | | |



| 3) Personal Protective Equipment: | | |
|---------------------------------------------------------------------------------|------|---------------------------------------|
| Are hivis vests being worn by all workers on site? | 1 | SIGHTED |
| Are hard hats being worn by all workers on site? | 1./ | 11 |
| Are safety boots being worn by all workers on site? | 1 | 1 |
| Is ear protection being worn when needed? | 1 | AS REQUIRED |
| Is eye protection being worn when required? | 1 | As Regulacon |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | / | AS REGURES AS REGURES AVAILABLE |
| Are records kept of PPE issue to workers? | NIA | |
| 4) Electrical Safety: Is all electrical equipment tagged for the current month | | No ELECTRICAL EQUIPMENT COUSITE |
| and 3-monthly for items in site shed? | × | BATTLEY ONLY |
| Are all leads up off the ground and hanging off insulated | NIA | IDATTLES ONLY |
| hangers or supports? Are leads no longer than 30m and not joined together? | | |
| Do any multiple outlets include an earth leakage device? | NIA | |
| WELL STORMS AND ALCOHOLOGY AND ALCOHOLOGY OF ACTION AND ACTION | INUN | |
| | | |



| BAILEY CHRIST OFFEL, SAXON LUKE, TASMINE WILLIAMS |
|------------------------------------------------------|
| |
| TRAFFIC CONTROL/EXCAUNTIONS ANDREW LYNCHAMON |
| ANDREW LYNCHAHON |
| |
| CORRECTIVE ACTION/ COMMENTS |
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| CORRECTIVE ACTION/ COMMENTS |
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| SILT FLUCING INSTALLED 134 HILDSITE |
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| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | 1 | MECHANICAL AIDS/CHRISTIE CIVIL SLINCS |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | |
| Are correct manual lifting procedures used? | 1 | SIGHTED |
| Are manual handling concerns addressed properly? | NIA | No 1550'ES TO DATE |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | 1/ | 10:00 05 6 |
| Is an SDS in SDS folder for every hazardous material? | 1 | REAR OF CONTAINER/FLAME CARINET |
| Are workers inducted into the hazards of working with | 1 | - |
| that material? | 1 | |
| Is appropriate PPE supplied for that material? | / | |
| Are spill kits available for use? | 1 | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | NIA | |
| Is there a fire extinguisher with each oxy set? | NIA | |
| Are there flashback arrestors on each oxy set? | NIA | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | NA | PROESTRIAN CONTENT CONTY. TO FALACED |
| Is access to site delineated to allow safe passage for both persons and machines? | 1 | |
| Does the Traffic Controller have a stop and slow bat? | 1 | |
| Is the Traffic Controller authorised? | / | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? | / | |
| For roadworks, is a TCP issued? Is the TCP followed? | V | No Fogo Chosine |
| Name of the second seco | ~~ | |
| Are records (pre-start and close checklists) completed and stored | NA | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to | / | |
| all plant operators Is hand excavation occurring within 1m of services? | | |
| Has a Dial Before U Dig enquiry been conducted on this | NIA | 1 |
| project? | | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | 1 | |
| If used, is formwork de-nailed after use? | NIA | |
| Is adequate lighting provided at the workface? | / | MAT NORILS |
| Are bins provided and not overflowing? | / | |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | | | | |
|-----------------------------|-----------|----------------|--|--|
| Name: JAMES SEATON | Position: | SAFETY OFFICER | | |
| Signed: | Date: | 13/05/2022 | | |

Project:

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



10am 20/05/22

Inspection to be carried out weekly on site

Christie Civil staff conducting:

Ivanhoe Estate Stage 1B Civil Works

Flashing lights and reversing buzzer operating on mobile

Chains and slings checked and records kept?

- Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters
- High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours

Position: Site Frances

 NCRs/PARs <u>SOPF4.04.1 - NCR PAR</u> to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data

Date + Time Conducted:

Signed: mh

| Name: | | Position: | | Signed | : / |
|-----------|------------------------|-------------------------------------------|----------------|---------------|----------|
| Name: | | Position: | | Signed | : |
| Name: | | Position: | | Signed | : |
| | | | | | |
| | ntractors participati | | - many - value | | ¥ |
| Name: | MAKKINE | | distribution . | Signed | A / J |
| Name: | Derech | | isties P | | |
| Name: | | Company: | | Signed | |
| Name: | | Company: | | Signed | l: |
| Name: | | Company: | | Signed | l: |
| Name: | | Company: | | Signed | E- |
| Name: | | Company: | | Signed | : |
| Name: | | Company: | | Signed | : |
| Name: | | Company: | | Signed | 1: |
| Name: | | Company: | | Signed | 1: |
| | vations, Fencing ar | | 17 | | |
| Batters | cut at correct slope f | or material? | 1 | | |
| benchin | | | V | | |
| been co | ontrolled? | risk and have these risks | V | Bunting Fence | /fencing |
| | .5m are fences supp | L.Y. | V | | |
| prevent | persons falling? (e.g | ride a physical barrier to . handrail) | 1 | | |
| Are fend | ces maintained? | | / | | |
| Are all p | penetrations covered | with secured covers? | 1 | | |
| | | | | | |
| -3 | t and Machinery: | | 1 - | | |
| plant on | site this week | ing completed? Check new | area | | |
| | | of competency on them? | V | | |
| Diant co | ertification/ Logbooks | being filled out? | / | | |



| 3) Personal Protective Equipment: | | |
|------------------------------------------------------------------------------------------------|-------|--------|
| Are hivis vests being worn by all workers on site? | ~ | |
| Are hard hats being worn by all workers on site? | ~ | |
| Are safety boots being worn by all workers on site? | V | |
| Is ear protection being worn when needed? | V | |
| Is eye protection being worn when required? | V | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | 1 | |
| Are records kept of PPE issue to workers? | V | |
| 4) Electrical Safety: | | |
| | 1 | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | N + 1 | Booked |
| Are all leads up off the ground and hanging off insulated hangers or supports? | V | |
| Are leads no longer than 30m and not joined together? | V | |
| Do any multiple outlets include an earth leakage device? | 1 | |
| | | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | V | |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | V | |
| Are correct manual lifting procedures used? | 1 | Y a |
| Are manual handling concerns addressed properly? | ~ | |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | V | |
| Is an SDS in SDS folder for every hazardous material? | / | |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | V | |
| Are spill kits available for use? | / | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? Is there a fire extinguisher with each oxy set? | NIA | |
| | 1 | |
| Are there flashback arrestors on each oxy set? | NIA | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | 1 | |
| Is access to site delineated to allow safe passage for both persons and machines? Does the Traffic Controller have a stop and slow bat? | V | |
| Is the Traffic Controller nave a stop and slow bat? | ~ | |
| Does each TC have a distinguishing mark on their | V | |
| person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | V | |
| Is the TCP followed? | 1 | |
| Are records (pre-start and close checklists) completed and stored | V | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | V | MAN |
| Is hand excavation occurring within 1m of services? | V | |
| Has a Dial Before U Dig enquiry been conducted on this project? | V | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | 1 | |
| If used, is formwork de-nailed after use? | V | |
| Is adequate lighting provided at the workface? | V | |
| Are bins provided and not overflowing? | V | |



| 10) Ladder Safety/ Access: | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | V | |
| Does the ladder extend more than 1m above the egress? | / | |
| Is ladder secured at the top? | V | |
| Is the ladder industrial rated and in good condition? | 1 | |
| | | |
| | | |
| 11) Inductions + Competency: | | Jackson Smith 16/05 |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | ~ | |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | V | Max Labinshy 16/05 Richard Muller 16/05 |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | V | Church Date 16/05 |
| Do plant and machinery operators have valid VOCs on them? | V | Philip Huden 1900 |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | 1 | Clive Dochery 18105 Philip Hyden 18105 current Mathew areen 18105 |
| | | |
| SAFETY ISSUES | Tick | CORRECTIVE ACTION/ COMMENTS |
| | OK | OUTILE HOTION COMMENTS |
| 42) Strike Injuries | | |
| 12) Strike Injuries: | | 1 |
| Is all exposed reo bar protected with bar caps? | V | |
| | V | |
| Is all exposed reo bar protected with bar caps? | | |
| Is all exposed reo bar protected with bar caps? | | |
| Is all exposed reo bar protected with bar caps? | | |
| Is all exposed reo bar protected with bar caps? | Tick | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | J | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | Tick | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are they effective? | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are they effective? | Tick OK | CORRECTIVE ACTION/ COMMENTS |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION | VERIFIED CLOSED-OUT: | | |
|---------|----------------------|-----------|---------------|
| Name: | Dani Belani | Position: | site engineer |
| Signed: | 20/05/22 | Date: | 20/05/22 |

Project:

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



03/06/2022

Inspection to be carried out weekly on site

Christie Civil staff conducting: Name: James Seaton

Ivanhoe Estate Stage 1B Civil Works

Position:

- Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters
- High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours
- NCRs/PARs <u>SOPF4.04.1 NCR PAR</u> to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data

Date + Time Conducted:

Signed:

| Name: Van 13e la | Position: 519 | e Engineer | Signed: | ga'/. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|
| Name: | Position: | | Signed: | |
| Name: | Position: | | Signed: | |
| Cube antire atere is a state | | | | |
| Subcontractors partici | Company: | | Signa di | |
| Name: | | | Signed: | |
| Name: | Company: | | Signed: | |
| | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
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| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| 1) Excavations, Fencin Batters cut at correct slo For excavations >1.5m of benching? | pe for material? | V SP | I sewer 1. | rench - |
| Batters cut at correct slo For excavations >1.5m of benching? Falls <1.5m - do they position been controlled? Falls >1.5m are fences significant persons falling? Are fences maintained? | pe for material? leep - is there shoring or se a risk and have these risks supplied? provide a physical barrier to (e.g. handrail) | V Bu | I sewer to | |
| Batters cut at correct slo For excavations >1.5m of benching? Falls <1.5m - do they position been controlled? Falls >1.5m are fences significant persons falling? Are fences maintained? | pe for material? leep - is there shoring or se a risk and have these risks supplied? provide a physical barrier to | V Bu | nhag | yarPart Kd |
| Batters cut at correct slo For excavations >1.5m of benching? Falls <1.5m - do they position been controlled? Falls >1.5m are fences significant persons falling? Are fences maintained? | pe for material? leep - is there shoring or se a risk and have these risks supplied? provide a physical barrier to (e.g. handrail) ered with secured covers? | V Bu | nhag | |
| Batters cut at correct slo For excavations >1.5m of benching? Falls <1.5m - do they positive been controlled? Falls >1.5m are fences stalls >1.5m - do fences prevent persons falling? Are fences maintained? Are all penetrations covered. 2) Plant and Machinery Plant Onboarding checks plant on site this week | pe for material? leep - is there shoring or se a risk and have these risks supplied? provide a physical barrier to (e.g. handrail) ered with secured covers? s being completed? Check new | V Bu | nhag | |
| Batters cut at correct slo For excavations >1.5m of benching? Falls <1.5m - do they positive to the positive t | pe for material? leep - is there shoring or se a risk and have these risks supplied? provide a physical barrier to (e.g. handrail) ered with secured covers? | V Bu | nhag | |
| Batters cut at correct slo For excavations >1.5m of benching? Falls <1.5m - do they post been controlled? Falls >1.5m are fences s Falls >1.5m - do fences prevent persons falling? Are fences maintained? Are all penetrations cove 2) Plant and Machinery Plant Onboarding checks plant on site this week Operators have verifications | pe for material? leep - is there shoring or se a risk and have these risks supplied? provide a physical barrier to (e.g. handrail) ered with secured covers? s being completed? Check new on of competency on them? | V Bu | nhag | |
| Batters cut at correct slo For excavations >1.5m of benching? Falls <1.5m - do they post been controlled? Falls >1.5m are fences s Falls >1.5m - do fences prevent persons falling? Are fences maintained? Are all penetrations cove 2) Plant and Machinery Plant Onboarding checks plant on site this week Operators have verification Plant certification/ Logbo | pe for material? leep - is there shoring or se a risk and have these risks supplied? provide a physical barrier to (e.g. handrail) led with secured covers? be being completed? Check new on of competency on them? oks being filled out? sing buzzer operating on mobile | V Bu | nhag | |



| 3) Personal Protective Equipment: | | |
|------------------------------------------------------------------------------------------------|------------------|-----------------------|
| Are hivis vests being worn by all workers on site? | T - 2 | ٦ |
| Are hard hats being worn by all workers on site? | | - |
| | V | |
| Are safety boots being worn by all workers on site? | \$e ^v | _ |
| Is ear protection being worn when needed? | V. | _ |
| Is eye protection being worn when required? | 1 | |
| ls sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | V | |
| Are records kept of PPE issue to workers? | | |
| | 100 T BA F | |
| 4) Electrical Safety: | | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | sur." | Monday Huesday Booker |
| Are all leads up off the ground and hanging off insulated hangers or supports? | v | 7 |
| Are leads no longer than 30m and not joined together? | Ü | |
| Do any multiple outlets include an earth leakage device? | Ų. | |
| | | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| 5) Manual Handling: | UK | |
| Are machines used where possible to handle loads? | | |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | V | |
| Are correct manual lifting procedures used? | 1 | |
| Are manual handling concerns addressed properly? | / | |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | / | |
| Is an SDS in SDS folder for every hazardous material? | V | |
| Are workers inducted into the hazards of working with that material? | ~ | |
| Is appropriate PPE supplied for that material? | V | |
| Are spill kits available for use? | ~ | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? Is there a fire extinguisher with each oxy set? | NIA | |
| | V | |
| Are there flashback arrestors on each oxy set? | N/A | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | V | |
| Is access to site delineated to allow safe passage for both persons and machines? | V | |
| Does the Traffic Controller have a stop and slow bat? Is the Traffic Controller authorised? | MA | |
| | MA | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | NIA | |
| Is the TCP followed? | WIA | |
| Are records (pre-start and close checklists) completed and stored | ~ | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | V | |
| Is hand excavation occurring within 1m of services? | V | |
| Has a Dial Before U Dig enquiry been conducted on this project? | V | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | V | |
| If used, is formwork de-nailed after use? | 1 | |
| Is adequate lighting provided at the workface? | V | |
| Are bins provided and not overflowing? | V | |



| 10) Ladder Safety/ Access: | 7 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | VIA | 1 |
| Does the ladder extend more than 1m above the egress? | NIA | 1 |
| Is ladder secured at the top? | NYA | 1 |
| Is the ladder industrial rated and in good condition? | NIA | |
| | | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? | 1 | T value Ave. |
| Spot check 3-4 workers on site | V | TOTA Menertry |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | U | Mathew breen. Andrew Lynchishun Cally America |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | 7 | Mathew William |
| Do plant and machinery operators have valid VOCs on them? | V | Colo America |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | V | |
| | | |
| SAFETY ISSUES | Tick | CORPORATE ACTION COMMENTS |
| SAFETY ISSUES | | AFATETE PARTITION OF THE PARTITION OF TH |
| | OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? | NYA | |
| | | No. |
| Is all exposed reo bar protected with bar caps? | NYA | |
| Is all exposed reo bar protected with bar caps? | NYA | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | NVA NVA | No |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | NYA NYVA | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | NVA NVA | No |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | NVA NVA | No |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | NVA NVA | No |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | NYA NYA NYA Tick OK | No |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | MYA MYA Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are | MYA MYA Tick OK | No |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? | Tick OK | CORRECTIVE ACTION/ COMMENTS |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | | | | |
|-----------------------------|-------------|-----------|---------------|--|
| Name: | Dani Belani | Position: | Site Engineer | |
| Signed: | an | Date: | 03/06/22 | |



| Inspection to be carried out weekly on site | | Inspection | to be | carried | out weekl | y on site |
|-----------------------------------------------------------------|--|------------|-------|---------|-----------|-----------|
|-----------------------------------------------------------------|--|------------|-------|---------|-----------|-----------|

- Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters
- High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours
- NCRs/PARs SOPF4.04.1 NCR PAR to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data

| Project: | Ivanhoe Estate Stage | 3 1B Civil Works | Date + Time (| Conducted: | 10.6.22 12.30 pm |
|----------------------|--------------------------------------------------------------|-------------------------------------------|---------------|--------------|--------------------|
| | Civil staff conducting: | (| | | |
| Name: | MAMES SEATON | Position: SAFET | M OFFKER | Signed: | Sch |
| Name: | Dani Belani | Position: Site | Engineer | Signed: | Jehn. |
| Name: | mark Sewax | Position: † r h | ik driver | Signed: | men |
| Name: | | Position: | | Signed: | |
| Subcon | ntractors participating: | | | | |
| Name: | | Company: | | Signed: | district. |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| Name: | | Company: | | Signed: | |
| For exca benching | | pe Stability: erial? ere shoring or | Tick OK | ORRECTIVE | E ACTION/ COMMENTS |
| Falls <1 | .5m - do they pose a risk an | d have these risks | ~ | | |
| | .5m are fences supplied? | | ~ | | |
| | .5m - do fences provide a pl persons falling? (e.g. handi | | ~ | | |
| | ces maintained? | dily | ~ | | |
| Are all p | penetrations covered with se | cured covers? | | | |
| | | | | | |
| | and Machinery: | | JC Ex | MGI | |
| plant on | nboarding checks being com site this week | | V 38T | MGI , IST | exc |
| | rs have verification of comp | | 1 | | |
| | rtification/ Logbooks being f | | V | | |
| plant? | g lights and reversing buzzer | | V | | |
| Chains a | and slings checked and reco | ords kept? | V | | |
| | | | (| | |



| 3) Personal Protective Equipment: | | |
|-----------------------------------------------------------------------------------------------------------------|------|---------|
| Are hivis vests being worn by all workers on site? | 1.00 | |
| Are hard hats being worn by all workers on site? | | |
| Are safety boots being worn by all workers on site? | V | |
| Is ear protection being worn when needed? | V | |
| Is eye protection being worn when required? | 1 | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | V | |
| Are records kept of PPE issue to workers? | | |
| 4) Electrical Safety: | | |
| Electrical Safety: Is all electrical equipment tagged for the current month | | Washing |
| and 3-monthly for items in site shed? | | 6/06/22 |
| Are all leads up off the ground and hanging off insulated hangers or supports? | 1 | |
| | | |
| Are leads no longer than 30m and not joined together? | V | |
| Are leads no longer than 30m and not joined together? Do any multiple outlets include an earth leakage device? | V | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|---------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| 5) Manual Handling: | | / |
| Are machines used where possible to handle loads? | / | 1 |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | / | |
| Are correct manual lifting procedures used? | / | 1 |
| Are manual handling concerns addressed properly? | / | |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | / | ľ. |
| Is an SDS in SDS folder for every hazardous material? | V | |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | 1 | |
| Are spill kits available for use? | V | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | V | 10/06/22 |
| Is there a fire extinguisher with each oxy set? | V | |
| Are there flashback arrestors on each oxy set? | V | |
| | | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | NIA | |
| Is access to site delineated to allow safe passage for both persons and machines? | V | |
| Does the Traffic Controller have a stop and slow bat? | NIA | ſ |
| Is the Traffic Controller authorised? | NIA | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? | NIA | |
| For roadworks, is a TCP issued? | NIA | í |
| Is the TCP followed? | NIA | |
| Are records (pre-start and close checklists) completed and stored | V | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | / | |
| Is hand excavation occurring within 1m of services? | ~ | |
| Has a Dial Before U Dig enquiry been conducted on this project? | 1 | |
| 9) Housekeeping, Lighting and Ventilation: | 4 | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | / | |
| If used, is formwork de-nailed after use? | V | A.A |
| Is adequate lighting provided at the workface? | V | |
| Are bins provided and not overflowing? | V | |



| 10) Ladder Safety/ Access: | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| Are ladders inclined at a 4 in 1 slope? | MA | |
| Does the ladder extend more than 1m above the egress? | NIA | |
| Is ladder secured at the top? | NIA | |
| Is the ladder industrial rated and in good condition? | NIA | |
| | | |
| 44) Industions I Competency | | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | ~ | |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | 1 | |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | ~ | |
| Do plant and machinery operators have valid VOCs on them? | 1 | |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | 1 | |
| | | |
| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | ON | |
| Is all exposed reo bar protected with bar caps? | Yes. | |
| Is there danger from falling objects? | 110 | |
| | | |
| ENVIRONMENTAL ISSUES | Tick | CORRECTIVE ACTION/ COMMENTS |
| TO A CONTROL OF THE PARTY OF TH | OK | OUNTED THE MOTION COMMENTO |
| 13) Environmental: | 1 1 | |
| Are silt control devices installed around stormwater pits? | V | |
| Are silt controls installed correctly? | 1 | |
| Are silt controls maintained and effective? | 1 | |
| Is dust controlled as per CEMP? | 1 | |
| Is noise controlled as per CEMP? | 1 | |
| Is vibration controlled as per CEMP? | 1 | |
| Does the site egress have environmental controls, are they effective? | / | |
| Is Community Feedback managed and recorded? | / | |
| | | |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | · · | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION | VERIFIED CLOSED-OUT: | | |
|---------|----------------------|-------------------------|--|
| Name: | Dani Belani | Position: Site Engineer | |
| Signed: | mh | Date: 10/06/22 | |

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



Inspection to be carried out weekly on site Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours NCRs/PARs SOPF4.04.1 - NCR PAR to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data Date + Time Conducted: Project: Ivanhoe Estate Stage 1B Civil Works 11:50 Christie Civil staff conducting: Position: Signed: Name: LAMES SEATON Signed: Name: Position: Position: Signed: Name: Position: Signed: Name:

Subcontractors participating: Company: Signed: Name: Signed: Name: Company:
| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------|
| 1) Excavations, Fencing and Slope Stability: | | |
| Batters cut at correct slope for material? | | |
| For excavations >1.5m deep - is there shoring or benching? | 1 | Shoving, ladder for entry No visk, slopes height <1.5m |
| Falls <1.5m - do they pose a risk and have these risks been controlled? | / | No visk, slopes height clism |
| Falls >1.5m are fences supplied? | / | |
| Falls >1.5m - do fences provide a physical barrier to prevent persons falling? (e.g. handrail) | V | |
| Are fences maintained? | / | 1- 1 Colortaral |
| Are all penetrations covered with secured covers? | / | Road plates on youpark ord (electrical works) |
| 2) Plant and Machinery: | | |
| Plant Onboarding checks being completed? Check new plant on site this week | V | Viant Sewak LE, Andrew, Stevo, |
| Operators have verification of competency on them? | | Viant Sewak LE , Andrew Stevo. |
| Plant certification/ Logbooks being filled out? | / | Enich LE |
| Flashing lights and reversing buzzer operating on mobile plant? | / | |
| Chains and slings checked and records kept? | / | The tod of mouth (Jul 22) |
| | | |



| 3) Personal Protective Equipment: | | |
|------------------------------------------------------------------------------------------------|-----|-------------------------------|
| Are hivis vests being worn by all workers on site? | 1 7 | i e |
| | V | |
| Are hard hats being worn by all workers on site? | 1 | ([|
| Are safety boots being worn by all workers on site? | / | 0 1 L |
| Is ear protection being worn when needed? | X, | Steve needs to wear our plugs |
| Is eye protection being worn when required? | ~ | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | V | |
| Are records kept of PPE issue to workers? | X | |
| | | |
| 4) Electrical Safety: | | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | ~ | Tested last week |
| Are all leads up off the ground and hanging off insulated hangers or supports? | / | |
| Are leads no longer than 30m and not joined together? | | |
| Do any multiple outlets include an earth leakage device? | | |
| | | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | V | 1 |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | Loads are fine |
| Are correct manual lifting procedures used? | V | |
| Are manual handling concerns addressed properly? | / | |
| | | |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | / | 1 |
| Is an SDS in SDS folder for every hazardous material? | | |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | / | |
| Are spill kits available for use? | 1 | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | / | No ony or site |
| Is there a fire extinguisher with each oxy set? | NA | No ony or site |
| Are there flashback arrestors on each oxy set? | N/A | |
| | | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | / | |
| Is access to site delineated to allow safe passage for both persons and machines? | / | |
| Does the Traffic Controller have a stop and slow bat? | NA | |
| Is the Traffic Controller authorised? | NIA | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | NA | 1170 |
| Is the TCP followed? | ,cxii | N/A |
| | MI | N/A |
| Are records (pre-start and close checklists) completed and stored | NIA | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to | 1 | |
| all plant operators Is hand excavation occurring within 1m of services? | - | |
| Has a Dial Before U Dig enquiry been conducted on this | 1 | |
| project? | - | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to | / | |
| prevent slips, trips and falls? If used, is formwork de-nailed after use? | NVA | |
| Is adequate lighting provided at the workface? | INIT | |
| Are bins provided and not overflowing? | - | |
| Are birds provided and not overflowing? | ~ | |



| 10) Ladder Safety/ Access: | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | VI. | NA |
| Does the ladder extend more than 1m above the egress? | MOPIL | NA |
| Is ladder secured at the top? | 101 | N/A |
| Is the ladder industrial rated and in good condition? | man | NIA |
| | | |
| | | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | V | Vjay, Evic, Andrew Vjay, Evic, Andrew Bulk excavation, drilling Voy, Evic, Andrew |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | / | Usay, Enc. Andrew Indling |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | Bulk excavation, at my |
| Do plant and machinery operators have valid VOCs on them? | 1 | Yoy, Evic, Andrew |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | / | |
| | | |
| A | Tick | |
| SAFETY ISSUES | OK | CORRECTIVE ACTION/ COMMENTS |
| | | |
| 12) Strike Injuries: | | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | | |
| | No | |
| Is all exposed reo bar protected with bar caps? | No | |
| Is all exposed reo bar protected with bar caps? | No | |
| Is all exposed reo bar protected with bar caps? | No | |
| Is all exposed reo bar protected with bar caps? | | |
| Is all exposed reo bar protected with bar caps? | Tick | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | | The second secon |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | Tick | Richard Covoks vashout |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | Tick | Richard Coroles washout |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | Tick | The second secon |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | Tick | Richard (rooks washout concrete tools and our ste |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | Tick | Richard (rooks vashout concrete tools and our ste |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | Tick | Richard (rooks vashout concrete tools and our ste |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are | Tick OK | Richard (rooks vashout concrete tools and our ste |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? | Tick OK | Richard (rooks vashout concrete tools and our ste |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are they effective? | Tick OK | Richard (rooks washout concrete tools and our ste |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are they effective? | Tick OK | Richard (rooks vashout concrete tools ando our ste |



| | (list NCR numbers) |
|--|--------------------|
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| | NCR-OOR |
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| ACTION VERIFIED CLOSED-OUT: | | |
|-----------------------------|--------------------------|--|
| Name: JAMES SEATON | Position: SAFETY OFFICEP | |
| Signed: Stell | Date: 17/06/2022 | |



| • Subc | ection to be carried out we contractor representatives in risk non-conformances to | required to parti | cipate to ens | ure consultation | on and active ver-risk items | involvement in WHSE matters within 48 hours |
|------------------------|------------------------------------------------------------------------------------------|-------------------|---------------|------------------|---------------------------------|------------------------------------------------|
| | | | | | | nd followed through to verified close- |
| Project: | NCRs allow tracking of iss Ivanhoe Estate Stag | | | Date + Time | | 01/07/2022 |
| Christia | Civil staff conducting: | | | | | 10-45 am |
| | JAMES SEATON | Position: | SAFETY C | SEVER | Signed: | De to |
| Name: | Dani Belani | Position: | Siteen | | Signed: | OK. |
| Name: | July Sciani | Position: | | NO CEF | Signed: | |
| Name: | | Position: | | | Signed: | |
| | | 1 | | | | |
| Subcont Name: | ractors participating: | | | | 1 | |
| C 5.55 11.57 24.5 - 1 | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | P |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| | | py- | 1000 | | o.gou. | |
| | SAFETY ISSU | ES | Tic OK | | ORRECTIV | E ACTION/ COMMENTS |
| | ations, Fencing and Slo | | | | ,, | |
| | ut at correct slope for mate | | - | | | |
| benching | vations >1.5m deep - is the ? | ere snoring or | / | BENCHI | NO | |
| | 5m - do they pose a risk ar | nd have these ri | sks | | | 1 |
| been con Falls >1.5 | orrolled? om are fences supplied? | | | - | | |
| | 5m - do fences provide a p | hysical barrier t | 0 / | | | |
| | ersons falling? (e.g. hand | rail) | | | | |
| 7 0 0 0 | | Servered servered | | | | 1 |
| Are all pe | enetrations covered with se | ecurea covers? | / | | | |
| | | | | | | - |
| 2) Plant a | and Machinery: | | | | | |
| plant on s | poarding checks being cor site this week | | | CAPRICK | -SHOCK R | load Saw |
| | s have verification of comp | | ? / | | | |
| | tification/ Logbooks being | | / | | | |
| plant? | lights and reversing buzze | | nobile | | | |
| Chains ar | nd slings checked and rec | ords kept? | | INSCIECT | TION TO | 29-01/07/2022 |



| Are hivis vests being worn by all workers on site? | 1 | 1 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------|------|
| | / | 1, | |
| Are hard hats being worn by all workers on site? | 1 | FERNESSEM MATT!! | |
| Are safety boots being worn by all workers on site? | / | | |
| Is ear protection being worn when needed? | 1 | | |
| Is eye protection being worn when required? | / | | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | 1 | | |
| Are records kept of PPE issue to workers? | × | | |
| | | | |
| 4) Electrical Safety: | | | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | 1 | [MSPECTION 07/06/2022 | -0.1 |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? Are all leads up off the ground and hanging off insulated hangers or supports? | 1 | [NSPECTION 07/06/2022 | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? Are all leads up off the ground and hanging off insulated | 1 | (MSPECTION 07/06/2022 | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? Are all leads up off the ground and hanging off insulated hangers or supports? | 1 | (NSPECTION 07/06/2022 | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|---------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | 1 | 1 |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | MEZN A105 |
| Are correct manual lifting procedures used? | / | SICHTED |
| Are manual handling concerns addressed properly? | NIA | NO CONCERUS |
| | | |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | 1/ | BACK OF CONTAINER/FLAME CABINETS/BUNDS |
| Is an SDS in SDS folder for every hazardous material? | 1 | LOCATION IN KRST AIR ROOM. |
| Are workers inducted into the hazards of working with that material? | 1 | HIN KOOM. |
| Is appropriate PPE supplied for that material? | / | |
| Are spill kits available for use? | / | CONTAINER (+2 |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | 1 | |
| Is there a fire extinguisher with each oxy set? | / | |
| Are there flashback arrestors on each oxy set? | / | |
| | | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | 1 | |
| Is access to site delineated to allow safe passage for both persons and machines? | 1 | |
| Does the Traffic Controller have a stop and slow bat? | 1 | PLANT BELANT / NANHOE PL CONDY |
| Is the Traffic Controller authorised? | 1 | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? | Nla | |
| For roadworks, is a TCP issued? | MA | |
| Is the TCP followed? | NIA | |
| Are records (pre-start and close checklists) completed and stored | NIA | |
| 2) 2 - 1/2 - 1/2 | | le man |
| 8) Service Search/ Permit to Dig: | 1 / | |
| Has a Permit to Excavate been completed and issued to all plant operators | 1 | |
| Is hand excavation occurring within 1m of services? | / | |
| Has a Dial Before U Dig enquiry been conducted on this project? | 1 | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | 1 | ON THE PAY OF INSPECTION RAINING. VERY WET UNDER FOST & SUPPERY |
| If used, is formwork de-nailed after use? | NA | They was a willed a positional |
| Is adequate lighting provided at the workface? | 1 | |
| Are bins provided and not overflowing? | 1 | |



| 10) Ladder Safety/ Access: | 1 | P. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | / | |
| Does the ladder extend more than 1m above the egress? | 1 | |
| s ladder secured at the top? | 1, | |
| Is the ladder industrial rated and in good condition? | / | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | 1 | CONNUR STRAIN/MICHAEL BLAKE/MATHH GREEN |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | / | |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | BULK EXCAUNTION / STORMWATER |
| Do plant and machinery operators have valid VOCs on them? | / | COLIN ACKERLEY/MAL JORDAN/COMM STRAN |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | / | ANDREW LYNCHAHON |
| | | |
| CAFETY ISSUES | Tick | CORRECTIVE ACTION/ COMMENTS |
| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | OK No | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | OK No | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | OK No | CORRECTIVE ACTION/ COMMENTS EXTRA CONTRUS PROTRU |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | OK No | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | OK No | CORRECTIVE ACTION/ COMMENTS EXTRA CONTRUS PROTRU |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | OK No | CORRECTIVE ACTION/ COMMENTS EXTRA CONTRUS PROTRU |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | OK No | CORRECTIVE ACTION/ COMMENTS EXTRA CONTRUS PROTRU |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | OK No | CORRECTIVE ACTION/ COMMENTS EXTRA CONTRUS PROTRU |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | | |
|-----------------------------|-----------|----------------|
| Name: JAMES SEATON | Position: | SAFETY OFFICER |
| Signed: | Date: | 01/07/2022 |

Name: Dani Belani

Name:

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



| • | Inspection | n to be carried out wee. | kly on site | | | | | | |
|-----|-------------|----------------------------|----------------|----------------|-------------------|-----------------|-----------------|----------------------|----|
| | Subcontr | actor representatives re | equired to pai | ticipate to en | sure consultatio | n and active i | nvolvement in \ | NHSE matters | |
| | High-risk | non-conformances to b | e isolated an | d closed out | on the spot, low | er-risk items v | within 48 hours | | |
| | NCRs/PA | ARs <u>SOPF4.04.1 - NC</u> | R PAR to be | raised for hig | h-risk or repeat | ed issues and | followed throu | ah to verified close | ٠. |
| | out. NCF | Rs allow tracking of issu | ies, compilati | on and comn | nunication of cor | mpany-wide V | VHSE data | 0 | |
| Pro | ject: | Ivanhoe Estate Stage | | | Date + Time C | | | | |
| Chr | ristie Civi | il staff conducting: | | | | | , + + | | |
| Nan | ne: | AMUS SEAGEN | Position: | SAFETY | CIFFICER | Signed: | state 1 | | |

Signed:

Signed:

Signed:

Position:

Position:

Company:

| | | 1 | Willey . |
|--------|--------------------------|-------------------|----------|
| Name: | MATT More | Position: SITE EN | Tak . |
| | | | |
| Subcor | ntractors participating: | | |
| Name: | | Company: | Signed: |

| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------|
| 1) Excavations, Fencing and Slope Stability: | / | |
| Batters cut at correct slope for material? | V | |
| For excavations >1.5m deep - is there shoring or benching? | / | SHOLING & BENEMING |
| Falls <1.5m - do they pose a risk and have these risks been controlled? | 1 | FENCING/BUNTINE |
| Falls >1.5m are fences supplied? | 1/ | |
| Falls >1.5m - do fences provide a physical barrier to prevent persons falling? (e.g. handrail) | 1 | |
| Are fences maintained? | | |
| Are all penetrations covered with secured covers? | 1 | Lincol Brase Ra |
| 2) Plant and Machinery: Plant Onboarding checks being completed? Check new plant on site this week Operators have verification of competency on them? | NA | No NEW PLANT A exercise / Fredy DANMARY CC |
| | // | GENERALIZED TRANSPLY CC |
| Plant certification/ Logbooks being filled out? | / | |
| Flashing lights and reversing buzzer operating on mobile plant? | 1 | |
| Chains and slings checked and records kept? | | TISTED TOME 2012. |
| | | |



| 3) Personal Protective Equipment: | |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Are hivis vests being worn by all workers on site? | 1 Sienoso |
| Are hard hats being worn by all workers on site? | LERN FOR N3?? |
| Are safety boots being worn by all workers on site? | 0 |
| Is ear protection being worn when needed? | 1 AS REGUIRED |
| Is eye protection being worn when required? | 1, |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | SICHOSO FIERN FORM??? AS REGULARD IN AUDILARIES/WINDLA? |
| Are records kept of PPE issue to workers? | > " " " |
| | |
| 4) Electrical Safety: | 1 |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | |
| Are all leads up off the ground and hanging off insulated | |
| hangers or supports? Are leads no longer than 30m and not joined together? | |
| Do any multiple outlets include an earth leakage device? | _ / |
| Do any manapic outsits molado an earth reality across | |
| | |
| | |
| | |
| | |
| | |
| | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | 1 | 11. |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | MEM AMS SICHUED No 18845 |
| Are correct manual lifting procedures used? | 1 | SICHTED |
| Are manual handling concerns addressed properly? | NA | No Issues |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | 1/ | REAR OF CONTANDED |
| Is an SDS in SDS folder for every hazardous material? | 1 | Went of court |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | 1 | 1 1 1 |
| Are spill kits available for use? | 1 | CONTAINERNI FRON AN ROOM |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | 7 | |
| Is there a fire extinguisher with each oxy set? | 1 | |
| Are there flashback arrestors on each oxy set? | 1/ | 4 |
| | | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | NA | |
| Is access to site delineated to allow safe passage for both persons and machines? Does the Traffic Controller have a stop and slow bat? | / | 1 |
| Is the Traffic Controller authorised? | NA | 4 |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? | NIA | |
| For roadworks, is a TCP issued? | NA | |
| Is the TCP followed? | NIA | f a |
| Are records (pre-start and close checklists) completed and stored | NA | |
| and stored | 10/10 | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | / | |
| Is hand excavation occurring within 1m of services? | / | |
| Has a Dial Before U Dig enquiry been conducted on this project? | / | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | The state of the s |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | / | RAIN MON -THUR |
| If used, is formwork de-nailed after use? | NIA | |
| Is adequate lighting provided at the workface? | / | |
| Are bins provided and not overflowing? | / | |



| 10) Ladder Safety/ Access: | | 6 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | / | |
| Does the ladder extend more than 1m above the egress? | / | |
| Is ladder secured at the top? | / | |
| Is the ladder industrial rated and in good condition? | / | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | 1 | KYLE NONOUND, RICO PEREZ, LARRY WHITE |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | | MATT PAUL, LEWIS PASSANOT, MATT GREEN |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | | BULK EXECTIMENTS ECEZ BRIDGE STULLEFERAFI |
| Do plant and machinery operators have valid VOCs on them? | | ANDREW LYNCHAHOM, RICOPEREZ. |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | | -1508 115603141 |
| OASSET VIDENTS | Tick | CORRECTIVE ACTION/ COMMENTS |
| SAFETY ISSUES | | |
| | OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | OK | CORRECTIVE ACTION/ CONTINENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | / | CORRECTIVE ACTION/ CONTINENTS |
| | N _o | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? | / | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? | / | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | No Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | No Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | No Tick | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | No Tick | CORRECTIVE ACTION/ COMMENTS NEED TO PRENCE THE SEDIMENT BASIN |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | No Tick OK | CORRECTIVE ACTION/ COMMENTS NEED TO PRENCE THE SEDIMENT BASIN |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | No Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? | No Tick OK | CORRECTIVE ACTION/ COMMENTS NEED TO PRENCE THE SEDIMENT BASIN |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | No Tick OK | CORRECTIVE ACTION/ COMMENTS NEED TO PRENCE THE SEDIMENT BASIN |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|------------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | Spot | 40 Hours | (list NCR humbers) |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |
| | H A A A In last | | |

| ACTION VERIFIED CLOSED-OUT: | | | | |
|-----------------------------|-------------------------|----|--|--|
| Name: Anes SEATON | Position: SAFETY OFFICE | ER | | |
| Signed: | Date: 08/07/200 | | | |

Project:

Other:

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



15AM2 + 3:45PM

Inspection to be carried out weekly on site

Ivanhoe

- Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters
- · High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours
- NCRs/PARs <u>SOPF4.04.1 NCR PAR</u> to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data

Date + Time Conducted:

| Christie Civil staff conduct | ting: | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|-----------------------|
| Name: Vincent Chie | Position: | Site Engineer | Signed: | Vigt. |
| Name: JANES SEATO |) Position: | EAFERT OFFINE | | ablita |
| Name: Dani Belani | Position: | intern Engineer | | Jah. |
| Name: Loyle These | | sipe Formen | Signed: | 1 libert |
| | | | | 7 |
| Subcontractors participation | | , | | |
| Name: Mark Sewo | Company: | zanmark | Signed: | mon |
| Name: Scan www | Company: | Onawark | Signed: | Sole |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| Name: | Company: | | Signed: | |
| SAFETY 1) Excavations, Fencing an | 7 (2) (3) (4) (4) (4) | Tick OK | CORRECTIV | /E ACTION/ COMMENTS |
| | 7 (2) (3) (4) (4) (4) | | CORRECTIV | /E ACTION/ COMMENTS |
| 1) Excavations, Fencing an | nd Slope Stability: | ок | | |
| 1) Excavations, Fencing an Batters cut at correct slope for | nd Slope Stability: or material? | ок | | |
| 1) Excavations, Fencing an Batters cut at correct slope for For excavations >1.5m deep benching? | nd Slope Stability: or material? - is there shoring or | OK Ben | nelving a | nd shong for |
| 1) Excavations, Fencing an Batters cut at correct slope for For excavations >1.5m deep benching? Falls <1.5m - do they pose a | nd Slope Stability: or material? - is there shoring or | OK Ben | nelving a | nd shong for |
| 1) Excavations, Fencing an Batters cut at correct slope for For excavations >1.5m deep benching? | nd Slope Stability: or material? - is there shoring or risk and have these ris | OK Ben | nelving a | nd shong for |
| 1) Excavations, Fencing an Batters cut at correct slope for For excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? | nd Slope Stability: or material? - is there shoring or risk and have these ris | OK Den ks Bun | | nd shong for |
| 1) Excavations, Fencing and Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supplications of the supplications | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to | ok Den ks Sun | renches > | nd shong for 1.5 m |
| 1) Excavations, Fencing an Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supplements of fences proving prevent persons falling? (e.g. Are fences maintained? | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) | ok Den ks Sun | renches > | nd shong for 1.5 m |
| 1) Excavations, Fencing and Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supplements of the su | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) | ok Den ks Sun | renches > | nd shong for 1.5 m |
| 1) Excavations, Fencing and Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supplements of fences proving prevent persons falling? (e.g. Are fences maintained? | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) | ok Den ks Sun | renches > | nd shong for |
| 1) Excavations, Fencing and Batters cut at correct slope for For excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences suppled. Falls >1.5m - do fences prov prevent persons falling? (e.g.) Are fences maintained? Are all penetrations covered. | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) | ok Den ks Sun | renches > | nd shong for 1.5 m |
| 1) Excavations, Fencing an Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supplementally falls >1.5m - do fences provered persons falling? (e.g. Are fences maintained? Are all penetrations covered Other: | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) | ok Den ks Sun | renches > | nd shong for 1.5 m |
| 1) Excavations, Fencing an Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences suppled Falls >1.5m - do fences prover prevent persons falling? (e.g. Are fences maintained? Are all penetrations covered Other: 2) Plant and Machinery: | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) with secured covers? | ks / Bun | renches > story were | nd shong for 1.5m |
| 1) Excavations, Fencing and Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences suppled Falls >1.5m - do fences prover prevent persons falling? (e.g.) Are fences maintained? Are all penetrations covered Other: 2) Plant and Machinery: Plant Onboarding checks beinglant on site this week | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) with secured covers? | ks / Bun | renches > story were | nd shong for 1.5m |
| 1) Excavations, Fencing and Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supplied in the supplied in | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) with secured covers? | ks / Bun | renches > story were | nd shong for 1.5m |
| 1) Excavations, Fencing and Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supplied Falls >1.5m - do fences proving prevent persons falling? (e.g.) Are fences maintained? Are all penetrations covered Other: 2) Plant and Machinery: Plant Onboarding checks beinglant on site this week Operators have verification of | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) with secured covers? | ks / Bun | renches > story were | nd shong for 1.5m |
| 1) Excavations, Fencing and Batters cut at correct slope for For excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences supple Falls >1.5m - do fences prover prevent persons falling? (e.g.) Are fences maintained? Are all penetrations covered Other: 2) Plant and Machinery: Plant Onboarding checks beinglant on site this week Operators have verification of Plant certification/ Logbooks Flashing lights and reversing | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) with secured covers? ing completed? Check in frompetency on them? | ks / Bun | renches > story were | nd shong for 1.5m |
| 1) Excavations, Fencing an Batters cut at correct slope for excavations >1.5m deep benching? Falls <1.5m - do they pose a been controlled? Falls >1.5m are fences suppled Falls >1.5m - do fences prover prevent persons falling? (e.g., Are fences maintained? Are all penetrations covered Other: 2) Plant and Machinery: Plant Onboarding checks beiglant on site this week Operators have verification of Plant certification/Logbooks | nd Slope Stability: or material? - is there shoring or risk and have these ris lied? ide a physical barrier to handrail) with secured covers? ing completed? Check in frompetency on them? | ks / Bun | renches > story were | nd shong for 1.5 m |



| 3) Personal Protective Equipment: | / | |
|------------------------------------------------------------------------------------------------|----|-------|
| Are hivis vests being worn by all workers on site? | | |
| Are hard hats being worn by all workers on site? | 1 | |
| Are safety boots being worn by all workers on site? | 1 | |
| Is ear protection being worn when needed? | | Stevo |
| Is eye protection being worn when required? | V. | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | / | |
| Are records kept of PPE issue to workers? | × | |
| 4) Electrical Safety: | | |
| 4) Electrical Safety: | - | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | / | |
| Are all leads up off the ground and hanging off insulated | / | |
| hangers or supports? | | |
| hangers or supports? Are leads no longer than 30m and not joined together? | 1 | |
| hangers or supports? | 1 | |
| hangers or supports? Are leads no longer than 30m and not joined together? | 1 | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------|
| 5) Manual Handling: | | 1 loss |
| Are machines used where possible to handle loads? | V | listing gear used where |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | Listing geon used where manual handling is too heavy |
| Are correct manual lifting procedures used? | V | |
| Are manual handling concerns addressed properly? | 1 | |
| Other | | |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | | |
| Is an SDS in SDS folder for every hazardous material? | 1./ | |
| Are workers inducted into the hazards of working with that material? | | |
| Is appropriate PPE supplied for that material? | | 9 |
| Are spill kits available for use? | V | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | 1 | / |
| Is there a fire extinguisher with each oxy set? | | |
| Are there flashback arrestors on each oxy set? | | |
| Other: | | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | 1 | |
| Is access to site delineated to allow safe passage for both persons and machines? | ~ | |
| Does the Traffic Controller have a stop and slow bat? | NIA | |
| Is the Traffic Controller authorised? | NA | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? | NA | |
| For roadworks, is a TCP issued? | N/A | |
| Is the TCP followed? | NIA | |
| Are records (pre-start and close checklists) completed and stored | MA | |
| Other | | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | V | |
| Is hand excavation occurring within 1m of services? | | |
| Has a Dial Before U Dig enquiry been conducted on this project? | / | |
| 9) Housekeeping, Lighting and Ventilation: | | · |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? If used, is formwork de-nailed after use? | 1 | |
| Is adequate lighting provided at the workface? | 1/ | |
| Are bins provided and not overflowing? | V | |
| Ale bins provided and not evernowing: | V | |



| N/A | |
|-------|------------------------------------------------------------------------------------------------------------|
| N/A | |
| N/A | |
| NA | |
| 10/1/ | |
| NA | |
| MIN | |
| A LIA | |
| NYA | |
| | |
| | |
| | Scar murray, chad Noto, Lew |
| | Stormwater, drilling |
| / | , Shane Caroll, Mal Jordan, |
| | Stan murray, chad Noto, Low Pasianot Stoimwater, drilling Shane Coroll, Mal Jordan, Viay Sewak |
| Tick | CORRECTIVE ACTION/ COMMENTS |
| OK | |
| TI | |
| | |
| Tick | CORRECTIVE ACTION/COMMENTS |
| OK | CORRECTIVE ACTION/ COMMENTS |
| | |
| 1 | Sedment bost |
| | nead to 1 |
| X, | week to be |
| - | needs to be signified and maintained |
| V | maintained |
| 1 | |
| 1 | |
| 1 | |
| 1 | |
| 1 | |
| | Tick OK |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | |
|-----------------------------|--------------------------|
| Name: JAMES SEATON | Position: SAFETY OFFICER |
| Signed: | Date: 15/07/2022 |

Inspection to be carried out weekly on site

Plant certification/ Logbooks being filled out?

Chains and slings checked and records kept?

plant?

Flashing lights and reversing buzzer operating on mobile

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



| out. | NCRs allow tracking of is | sues, compilation | on and comn | nunication of c | ompany-wide | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------|-------------|-----------------|-------------|------------------------|
| Project: | Ivanhoe Estate Stag | e 1B Civil Work | (S | Date + Time | Conducted: | 22/07/2022 12.20 pm |
| Christie | Civil staff conducting: | | | | | |
| Name: | JAMES SEATON | Position: | SAFETY | OFFICER | Signed: | Alexandra (|
| Name: | | Position: | | | Signed: | 0 |
| Name: | | Position: | | | Signed: | |
| Name: | | Position: | | | Signed: | |
| No Su | BLOWTRACTUR PARTIE | CIFATION DO | VE TO W | ET CONDI | TIONS. | |
| Subcont | ractors participating: | | | | | |
| Name: | | Company: | - | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| | | | | | | |
| | SAFETY ISSU | ES | | ck c | ORRECTIV | E ACTION/ COMMENTS |
| | 100000 | | 0 | K | ORIGINA | E ACTION COMMENTS |
| | ations, Fencing and Slo | | | / | | |
| | ut at correct slope for mate vations >1.5m deep - is the | | | | | |
| benching' | ? | | / | BENCHI | JU | |
| Falls <1.5 | m - do they pose a risk ar | nd have these r | isks | / | | |
| been cont | rolled? m are fences supplied? | | | / | | |
| | m - do fences provide a p | bysical barrier | 10 | | | |
| | ersons falling? (e.g. hand | | | / | | |
| | s maintained? | | - | | | |
| Are all pe | netrations covered with se | ecured covers? | | Lyon PA | RIL RO +1 | VANHOE PLATE |
| | | | | 0-0 | D PUTES | 3.00 |
| | | | | 100A |) (ories | |
| 2) Plant a | nd Machinery: | | | | | |
| The last of the la | | anlatad? Charl | now | | | |
| | oarding checks being con ite this week | ipieteu? Check | new pl | A NO NEI | N PLANT | |
| Operators | have verification of comp | etency on them | 1? | | | |

CC CHECUED JULY 2022



| 3) Personal Protective Equipment: | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Are hivis vests being worn by all workers on site? | |
| Are hard hats being worn by all workers on site? | |
| Are safety boots being worn by all workers on site? | |
| Is ear protection being worn when needed? | |
| Is eye protection being worn when required? | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | / AVAILAGILE |
| Are records kept of PPE issue to workers? | \times |
| 4) Electrical Safety: Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? Are all leads up off the ground and hanging off insulated hangers or supports? Are leads no longer than 30m and not joined together? | |
| Do any multiple outlets include an earth leakage device? | |
| | |
| | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|--------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | 1 | As Recourses |
| Are loads considered to be too heavy for one man, | 1 | |
| handled by machine or team lifting? Are correct manual lifting procedures used? | 1 | SIGHTED |
| Are manual handling concerns addressed properly? | - 120 | - 1 |
| Are manual handling concerns addressed properly? | NIA | NO ISSUES TO DATE. |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | 1/ | HAZMAT AREA BEHIND CONTAINER/FLAME |
| Is an SDS in SDS folder for every hazardous material? | 1 | CAGINETS & BUNDS |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | / | |
| Are spill kits available for use? | / | AMILABLE FAST AID Rum & 2 CONTAINERS |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | / | WHEN REGUISION |
| Is there a fire extinguisher with each oxy set? | NIA | No Oxy on-SITE |
| Are there flashback arrestors on each oxy set? | NIA | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | 1 | |
| Is access to site delineated to allow safe passage for | / | |
| both persons and machines? Does the Traffic Controller have a stop and slow bat? | NIA | TO ESTABLISHED FOR PEDESTIAN MOVEMEN |
| Is the Traffic Controller authorised? | 1000 | ONLY LYON BACK AD. |
| Does each TC have a distinguishing mark on their | . 1 | ONLY KYCK YALK KO. |
| person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | NIA | |
| Is the TCP followed? | 1/ | |
| Are records (pre-start and close checklists) completed | / | |
| and stored | NA | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | 1 | |
| Is hand excavation occurring within 1m of services? | 1 | |
| Has a Dial Before U Dig enquiry been conducted on this project? | 1 | |
| 9) Housekeeping, Lighting and Ventilation: Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | No | HAS BEEN RAIMING ALL WEEK + SITE 15 VERY MUDDY & SCIPPLAY. |
| If used, is formwork de-nailed after use? | 1 | 15 ,007 , 000 , 000 , 000 / . |
| Is adequate lighting provided at the workface? | 1 | |
| Are bins provided and not overflowing? | / | |



| 10) Ladder Safety/ Access: | | |
|-----------------------------------------------------------------------------------------------------|------------|-----------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | 1110 | |
| Does the ladder extend more than 1m above the egress? | NIA | |
| Is ladder secured at the top? | NA | |
| Is the ladder industrial rated and in good condition? | NIA | |
| is the ladder industrial rated and in good condition: | | |
| | | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | / | MALJORDAN, LAND DARUUS, MATT PAUL. |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | / | ANTHONY VASSILIS |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | STORMWATER & ELECTRICAL WORKS |
| Do plant and machinery operators have valid VOCs on them? | / | MATE JORDAN, JOHN COX, AUDREW LYNCHAHON |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | / | J. |
| | | |
| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | UK | |
| Is all exposed reo bar protected with bar caps? | 1/ | Î . |
| Is there danger from falling objects? | X | |
| | 140 | |
| ENVIRONMENTAL ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 13) Environmental: | | |
| Are silt control devices installed around stormwater pits? | / | |
| Are silt controls installed correctly? | No | |
| Are silt controls maintained and effective? | No | SETTIMENT BASIN NEEDS TO BE |
| Is dust controlled as per CEMP? | 1 | CLEANED & MAINTAINED |
| Is noise controlled as per CEMP? | / | |
| Is vibration controlled as per CEMP? | / | |
| Does the site egress have environmental controls, are they effective? | No | |
| Is Community Feedback managed and recorded? | / | |
| | 1 | |
| | | |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | 1 | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | |
|-----------------------------|--------------------------|
| Name: JAMES SEATON | Position: SAFETY OFFICER |
| Signed: | Date: 22/07/2022 |



- Inspection to be carried out weekly on site
- Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters
- · High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours
- NCRs/PARs SOPF4.04.1 NCR PAR to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data

| Project: | Ivanhoe Estate Stage | e 1B Civil Work | (S | Date + Time (| Conducted: | 28/07/2022 |
|----------|---------------------------|----------------------------------|---------|---------------|-------------------------------|------------|
| Christie | Civil staff conducting: | | | ř. | | Λ |
| Name: | JAMES SEATON | Position: | SAFETY | OFFICER | Signed: | Deta. |
| Name: | polit Ilitari | Position: | | GREWAN | Signed: | J Willy |
| Name: | Trans muleny | Position: | PROJECT | MINIGER. | Signed: | 1 |
| Name: | / | Position: | | | Signed: | |
| | Matthew Creen Comer Stren | Company: Company: Company: | Al | S mas | Signed: Signed: Signed: | Carrie of |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| lame: | | Company: | | | Signed: | |

| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------|------------|----------------------------------------|
| Excavations, Fencing and Slope Stability: | | |
| atters cut at correct slope for material? | NIA | |
| or excavations >1.5m deep - is there shoring or enching? | / | BENCHING |
| falls <1.5m - do they pose a risk and have these risks een controlled? | / | |
| 'alls >1.5m are fences supplied? | / | |
| falls >1.5m - do fences provide a physical barrier to revent persons falling? (e.g. handrail) | / | |
| re fences maintained? | / | |
| re all penetrations covered with secured covers? | / | ROAD PLATES MON PARK RO + I WANHOE PL. |
| i) Plant and Machinery: | | |
| Plant Onboarding checks being completed? Check new plant on site this week | / | |
| Derators have verification of competency on them? | // | |
| Plant certification/ Logbooks being filled out? | 1 | |
| Flashing lights and reversing buzzer operating on mobile plant? | / | |
| Chains and slings checked and records kept? | / | CC CHECUSO FUNY 22_ |



| 3) Personal Protective Equipment: | | |
|--------------------------------------------------------------------------------|----|--------------------------------------------------------------------|
| Are hivis vests being worn by all workers on site? | 1/ | 7 |
| Are hard hats being worn by all workers on site? | 1 | COUN FROM AGUERUSY? |
| Are safety boots being worn by all workers on site? | 1 | LOUN FROM MONEY ! |
| Is ear protection being worn when needed? | 1 | |
| Is eye protection being worn when required? | 1 | 7 |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | 1 | |
| Are records kept of PPE issue to workers? | × | |
| 4) Electrical Safety: | | |
| Is all electrical equipment tagged for the current month | | 7.1 0 7.1 7.1 |
| and 3-monthly for items in site shed? | / | MOT VESSIONED TOUR MENTING SINONI MICH. |
| Are all leads up off the ground and hanging off insulated hangers or supports? | 1 | NOT REGULARED FOR MONTHLY, 3 MONTHLY. LIEAC STANDS PROVIDED BY CC. |
| Are leads no longer than 30m and not joined together? | / | |
| Do any multiple outlets include an earth leakage device? | / | 1.0 |
| | | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | 1 | |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? Are correct manual lifting procedures used? | 1 | MECH AIRS |
| Are manual handling concerns addressed properly? | NIA | No Issues. |
| 6) Hazardous Substances: | 11 | |
| Are all fuels stored in a fuel storage facility? | 1/ | FLAME CABINETS/BUNDS. BEHIND CONTAMBER |
| Is an SDS in SDS folder for every hazardous material? | 1 | POINE CHOINEIS/COMPOSITION |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | 1 | |
| Are spill kits available for use? | 1 | FIRST AID ROOM & 2 CONTAINERS. |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | / | As RECOURED ENO GRAY ON-51 FE |
| Is there a fire extinguisher with each oxy set? | NIA | 500000 |
| Are there flashback arrestors on each oxy set? | NA | Cho oxy opisize? |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | 1 | |
| Is access to site delineated to allow safe passage for both persons and machines? | 1 | |
| Does the Traffic Controller have a stop and slow bat? | 1 | |
| Is the Traffic Controller authorised? | | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | NA | |
| Is the TCP followed? | 1 | END READWORKS /PEDESTRIAN MANACEMENT GNAS |
| Are records (pre-start and close checklists) completed | / | |
| and stored | × | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | / | |
| Is hand excavation occurring within 1m of services? | / | |
| Has a Dial Before U Dig enquiry been conducted on this project? | / | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? If used, is formwork de-nailed after use? | 1 | |
| | 1 | |
| Is adequate lighting provided at the workface? | / | |
| Are bins provided and not overflowing? | / | |



| 10) Ladder Safety/ Access: | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | Aju | |
| Does the ladder extend more than 1m above the egress? | NIA | |
| Is ladder secured at the top? | NIA | |
| Is the ladder industrial rated and in good condition? | 1 | |
| 11) Inductions + Competency: | | Par Con |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | / | PHILLIP WALTON, CONNUR STRAIN, LEWIS PAS. |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | / | v. " |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | SEWER/STORMWATER ANDREW LYNCHOMOW, NOTAY SEWAK, COLIN ACKERLE |
| Do plant and machinery operators have valid VOCs on them? | 1 | ANDREW LYNCHOMON, VARY SEWAK, COLIN ACKERIE |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | / | \) |
| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | | |
| | | |
| | / | |
| Is there danger from falling objects? | No | |
| Is there danger from falling objects? | No | CORRECTIVE ACTION/ COMMENTS |
| Is there danger from falling objects? ENVIRONMENTAL ISSUES | | CORRECTIVE ACTION/ COMMENTS |
| Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | Tick | The state of the s |
| ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | Tick OK | The state of the s |
| ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | Tick OK | ESEDIMENT BASIN NEEDS DREDGING NEW SILT CONTROL AROUND EXISTING |
| ENVIRONMENTAL ISSUES 13) Environmental: Are silt controls installed around stormwater pits? Are silt controls maintained and effective? | Tick OK | ESEDIMENT BASIN NEEDS DREDGING NEW SILT CONTROL AROUND EXISTING |
| ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | Tick OK | ESEDIMENT BASIN NEEDS DREDGING NEW SILT CONTROL AROUND EXISTING |
| ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | Tick OK | The state of the s |
| ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | Tick OK | ESEDIMENT BASIN NEEDS DREDGING NEW SILT CONTROL AROUND EXISTING |
| ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | Tick OK | ESEDIMENT BASIN NEEDS DREDGING NEW SILT CONTROL AROUND EXISTING |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |
| | | 4 | |

| ACTION VERIFIED CLOSED-OUT: | | |
|-----------------------------|----------------|------------|
| Name: JAMES SEATON | Position: Sacr | TY OFFICER |
| Signed: daeth | Dates | 07/2027 |

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



Inspection to be carried out weekly on site

Plant Onboarding checks being completed? Check new

Flashing lights and reversing buzzer operating on mobile

Operators have verification of competency on them?

Plant certification/ Logbooks being filled out?

Chains and slings checked and records kept?

plant on site this week

plant?

- Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters
- High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours
- NCRs/PARs SOPF4.04.1 NCR PAR to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data

| Project | Ivanhoe Estate Stag | e 1B Civil Worl | ks | Date + Time | Conducted: | 05/08/2022 3PM | |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------|----------|-------------|------------|----------------|--|
| Christie | Civil staff conducting: | | | | | | |
| Name: | JAMES SEATON | Position: | SAFETY (| OFFICER | Signed: | conti | |
| Name: | Gan Bell | Position: | Site Eng | | Signed: | CBU. | |
| Name: | | Position: | | | Signed: | | |
| Name: | | Position: | | | Signed: | | |
| Subcon | tractors participating: | | | | | | |
| Name: | Mark Sewak | Company: | Danm | nark | Signed: | M.S | |
| Name: | | Company: | | | Signed: | | |
| Name: | | Company: | | | Signed: | | |
| Name: | | Company: | | | Signed: | | |
| Name: | | Company: | | | Signed: | | |
| Name: | | Company: | | | Signed: | | |
| Name: | | Company: | | | Signed: | | |
| Name: | | Company: | | | Signed: | | |
| Name: | | Company: |) | | Signed: | | |
| Name: | | Company: | | | Signed: | | |
| SAFETY ISSUES Tick OK CORRECTIVE ACTION/ COMMENTS 1) Excavations, Fencing and Slope Stability: | | | | | | | |
| | cut at correct slope for mat | | N | IA | | | |
| For excavations >1.5m deep - is there shoring or benching? | | | | | | | |
| Falls <1.5m - do they pose a risk and have these risks been controlled? | | | | | | | |
| | 5m are fences supplied? | | | | | | |
| prevent | 5m - do fences provide a p persons falling? (e.g. hand | | to | / | | | |
| 10000 45500 | es maintained? | | 1 | | | | |
| Are all p | enetrations covered with s | ecured covers? | | Lyon PA | ex Ro./I | ummoe RACE. | |
| | | | | | | | |
| 2) Plant | and Machinery: | | | | | | |



| 3) Personal Protective Equipment: | | |
|---------------------------------------------------------------------------------------------------|----|---------------------------------------------------|
| Are hivis vests being worn by all workers on site? | / | SIGMED |
| Are hard hats being worn by all workers on site? | / | COUN ACKERY / MATT FERNESSEN? |
| Are safety boots being worn by all workers on site? | 1 | SIGMEN COULD ACKERGE / MATT FÉRNYORM? As RECURRED |
| Is ear protection being worn when needed? | 1 | As becomen |
| Is eye protection being worn when required? | / | · h |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | 1 | Available |
| Are records kept of PPE issue to workers? | No | |
| | | |
| 4) Electrical Safety: | 1 | la. v. |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | / | NUE SEPT. |
| Are all leads up off the ground and hanging off insulated | 1 | |
| hangers or supports? Are leads no longer than 30m and not joined together? | 1 | |
| Do any multiple outlets include an earth leakage device? | 1 | |
| Do any manage delice instance an oard to sale. | | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | 1 | MELL AIDS |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | |
| Are correct manual lifting procedures used? | / | SIGHTLEO |
| Are manual handling concerns addressed properly? | N/A | No issues |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | 1./ | STUREN BURDS/FLAME CABINETS |
| Is an SDS in SDS folder for every hazardous material? | 1 | J (DECI) 1500 x 5 / |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | / | |
| Are spill kits available for use? | / | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | / | As REGURED ENC DAY UN-SITEZ |
| Is there a fire extinguisher with each oxy set? | NIA | SAL Pha CILL SITES |
| Are there flashback arrestors on each oxy set? | NIA | Chr on on-sires |
| 7) Traffic Management: | - | |
| Is traffic ingress/egress controlled? | 1/ | IC ENCACED FOR LYON PARKROAD 05/08/22 |
| Is access to site delineated to allow safe passage for both persons and machines? | 1 | TO MISSIED THE |
| Does the Traffic Controller have a stop and slow bat? | 1 | |
| Is the Traffic Controller authorised? | / | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | N | |
| Is the TCP followed? | 1 | |
| Are records (pre-start and close checklists) completed | 1 | |
| and stored | / | TC TO KEEP. |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to | 1 | |
| all plant operators Is hand excavation occurring within 1m of services? | 1 | |
| | / | |
| Has a Dial Before U Dig enquiry been conducted on this project? | / | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | 1 | Good House KEEPINC |
| If used, is formwork de-nailed after use? | / | |
| Is adequate lighting provided at the workface? | / | |
| Are bins provided and not overflowing? | / | |



| 10) Ladder Safety/ Access: | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | NIA | |
| Does the ladder extend more than 1m above the egress? | du | |
| Is ladder secured at the top? | | |
| Is the ladder industrial rated and in good condition? | nig | |
| | | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | / | ELROY BLAINE, MATT PAUL, MARIL SCWAIL. |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | 1 | |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | TRAFFIC CONTROL/FRANNA GRANE |
| Do plant and machinery operators have valid VOCs on them? | / | Ton GUEY FRAMM CANNE |
| Are Tickets/Certifications current/not expired? | | VIAM SEURIC- EXCAVATUR |
| Spot check 3-4 workers on site | - | MILTORDAN-EXCOUNTER |
| | | DERECK STEVENSON-ROLLER |
| | | The second second |
| O FETT HOUSE | Tick | |
| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK | |
| 12) Strike Injuries: | | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK No | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | OK No | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | OK No | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | OK No | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | OK No | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | OK No | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | OK No | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | OK No | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | OK No | CORRECTIVE ACTION/ COMMENTS CORRECTIVE ACTION/ COMMENTS |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | 1 | | |
| 13) Environmental | | | |
| 14) Other | | | · |

| ACTION VERIFIED CLOSED-OUT: | | |
|-----------------------------|-----------|----------------|
| Name: JAMES SEATON | Position: | SAFETY OFFICER |
| Signed: | Date: | 05/08/2022 |



| | ection to be carried out wee | | | | | 100000000000000000000000000000000000000 |
|--------------|----------------------------------------------------------|-----------------|----------|--------------|-----------|-----------------------------------------|
| | contractor representatives r risk non-conformances to | | | | | involvement in WHSE matters |
| | | | | | | nd followed through to verified close- |
| | NCRs allow tracking of iss | | | | | |
| Project | Ivanhoe Estate Stage | e 1B Civil Work | s D | ate + Time C | onducted: | 12/08/2022 11-40 m |
| Christie | Civil staff conducting: | | | | | 11 10 1 |
| Name: | JAMÉS SFATON | Position: | SAPETY O | FFICER | Signed: | cheets |
| Name: | | Position: | | | Signed: | O |
| Name: | | Position: | | | Signed: | |
| Name: | | Position: | | | Signed: | |
| | | | | | | |
| | tractors participating: | To a second | | | 1 | |
| Name: | Span murring | Company: | COMMUN | ark | Signed: | Soon curry |
| Name: | (| Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | , |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| | | | Tick | | | |
| | SAFETY ISSU | ES | OK | CC | DRRECTIV | /E ACTION/ COMMENTS |
| | vations, Fencing and Slop | | | 4 | | |
| | cut at correct slope for mate | | | | | |
| benching | avations >1.5m deep - is the | ere shoring or | | | | |
| Falls <1 | 5m - do they pose a risk an | d have these r | isks | 1 | | |
| | ntrolled? | | | 4 | | |
| | .5m are fences supplied? .5m - do fences provide a p | hyeical barrier | to / | | | |
| | persons falling? (e.g. hand | | | | | |
| Are fend | es maintained? | | | | | |
| Are all p | enetrations covered with se | cured covers? | | | | 9 |
| | | | | | | |
| | | | | | | |
| 2) Plant | and Machinery: | | | | | |
| | boarding checks being com | pleted? Check | new / | CC Exc | A A TON | 387 |
| | site this week | otonov or the | 2 | L LX | TIVN 14C | 1 |
| 111,57 | rs have verification of comp | 7 | 11/ | - | | |
| 1 - 10 10 11 | rtification/ Logbooks being f | | mobile | - | | |
| plant? | lights and reversing buzzer | operating on | mobile / | | | 2.545 |
| Chains a | and slings checked and reco | ords kept? | / | CHECKE | 07/024 | 2022. |
| | | | | | | |



| 2) Developed Destactive Equipments | | |
|------------------------------------------------------------------------------------------------|-----|------------------------|
| 3) Personal Protective Equipment: | 1 / | 1.0 |
| Are hivis vests being worn by all workers on site? | 1 | SIGHTED |
| Are hard hats being worn by all workers on site? | / | M |
| Are safety boots being worn by all workers on site? | / | n |
| Is ear protection being worn when needed? | 1 | AS REGULAÇÃO |
| Is eye protection being worn when required? | / | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | / | |
| Are records kept of PPE issue to workers? | 2 | |
| 4) Electrical Safety: | | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | / | NOW TO CHECK SEPT 2022 |
| Are all leads up off the ground and hanging off insulated hangers or supports? | 1 | |
| Are leads no longer than 30m and not joined together? | / | |
| Do any multiple outlets include an earth leakage device? | 1 | |
| | | |



| SAFETY ISSUES | Tick | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5) Manual Handling: | OK | and the second of the second o |
| Are machines used where possible to handle loads? | | |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? Are correct manual lifting procedures used? | 1 | |
| Are manual handling concerns addressed properly? | NIA | SIGHTED NO ISSUES. |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | 1/ | 1 |
| Is an SDS in SDS folder for every hazardous material? | 1 | 4 |
| Are workers inducted into the hazards of working with | 1 | |
| that material? Is appropriate PPE supplied for that material? | - | |
| Are spill kits available for use? | - | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | 1 | As Regures |
| Is there a fire extinguisher with each oxy set? | NIA | As Keaures 5 No One ON-SITE |
| Are there flashback arrestors on each oxy set? | NA | NO ON ON-SILE |
| 7) Traffic Management: Is traffic ingress/egress controlled? | | í |
| Is access to site delineated to allow safe passage for | 1 | |
| both persons and machines? Does the Traffic Controller have a stop and slow bat? | NIA | No TRAFFIC CONSROR |
| Is the Traffic Controller authorised? | WIA | 1 O THILLE CONTROL |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | un | |
| Is the TCP followed? | NIA | |
| Are records (pre-start and close checklists) completed and stored | NA | |
| 9) Sarvica Saavah/ Darmié és Diss | | |
| Service Search/ Permit to Dig: Has a Permit to Excavate been completed and issued to | 1 | |
| all plant operators Is hand excavation occurring within 1m of services? | 1 | • |
| Has a Dial Before U Dig enquiry been conducted on this project? | | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | / | |
| If used, is formwork de-nailed after use? | NIA | |
| Is adequate lighting provided at the workface? | NIN | |
| Are bins provided and not overflowing? | 1 | |



| 10) Ladder Safety/ Access: | | 4 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | Ma | GPT WORK AREA. |
| Does the ladder extend more than 1m above the egress? | 1 | |
| Is ladder secured at the top? | / | |
| Is the ladder industrial rated and in good condition? | / | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | 1 | Mary Rings Lian Rest Topics McConst |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | / | MICH BLANCE, LIAM BELL, IRAMS M'CHEADY ADDRIAN AZZWERO EXCAVATION + BACKETU/ SENSEL METAL |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | 4 |
| Do plant and machinery operators have valid VOCs on them? | / | NATAY/COMM AGUERLES/MAIL ADROAM ANDREL LYNCHA HON/BON PEARSE |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | / | ANDREW LYNCHAHON /BON PEARSE |
| SAFETY ISSUES | Tick | CORRECTIVE ACTION/ COMMENTS |
| The state of the s | OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | No OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | No | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | No | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | No | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | No | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | No | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | No | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | No | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | No | |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | | |
|-----------------------------|-----------|----------------|
| Name: Ames, Seator | Position: | SAFETY OFFICER |
| Signed: | Date: | 12/08/2022 |

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



| • Sub | ection to be carned out wee contractor representatives re n-risk non-conformances to l | equired to par | | | | involvement in WHSE matters within 48 hours |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------|-------------------|---------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCF | Rs/PARs SOPF4.04.1 - NC | R PAR to be | raised for high-i | isk or repeate | ed issues an | d followed through to verified close- |
| out. Project: | NCRs allow tracking of issues Ivanhoe Estate Stage | | | <i>ication of con</i> ate + Time C | | 19/05/2002 |
| | | | | | | 13.30 A/25 |
| Christie | Civil staff conducting: | | | | | |
| Name: | JAMES SEATON | Position: | SAFETY (| PERCER | Signed: | obleta |
| Name: | Dani Belani | Position: | Site En | gineer | Signed: | Dir. |
| Name: | Lian Bell | Position: | Site Engil | neer | Signed: | Usell |
| Name: | | Position: |) | | Signed: | |
| | | | | | | |
| 1224 | tractors participating: | I SZZZZZZZZZZZZ | 0.00 | | 1 | |
| Name: | Motther are- | Company: | APS | | Signed: | M.L. |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | 1 - 4 | Company: | | | Signed: | |
| Name: | | Company: | 1 | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | (1) |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| Name: | | Company: | | | Signed: | |
| | | | | | | |
| | SAFETY ISSUI | ES | Tick OK | cc | DRRECTIV | E ACTION/ COMMENTS |
| | vations, Fencing and Slop | | | Calle . | | |
| | cut at correct slope for mate | | | 4 | | |
| For excavations >1.5m deep - is there shoring or benching? | | | | | | |
| been co | | d have these | risks | | | |
| | .5m are fences supplied? | | | NEED 1 | o Fence | Around Sewer TRENCH. |
| | .5m - do fences provide a pl | | to / | | | ALL STATE OF THE S |
| | persons falling? (e.g. handi es maintained? | rail) | | 1 | | |
| | | oured covers? | | - | | 4.13 |
| Are all p | enetrations covered with se | cureu covers | | | | |

Falls > 1.5m are fences supplied?

Falls > 1.5m - do fences provide a physical barrier to prevent persons falling? (e.g. handrail)

Are fences maintained?

Are all penetrations covered with secured covers?

Plant Onboarding checks being completed? Check new plant on site this week

Operators have verification of competency on them?

Plant certification/ Logbooks being filled out?

Flashing lights and reversing buzzer operating on mobile plant?

Chains and slings checked and records kept?

Chicago Touring Industrial Annual


| / | SITED FERNEUM? As REQUIRED |
|----|----------------------------------------|
| / | FERNEURY? |
| / | |
| / | As Required |
| / | |
| 1 | As Ristanger |
| No | |
| | |
| | |
| 1 | CHECKEN 17/08/2022 |
| / | |
| / | |
| / | ā. |
| | |
| | ////////////////////////////////////// |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | 1/ | Mean Ams UsED |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | 1 1800 111/13 0320 |
| Are correct manual lifting procedures used? | / | SILHTED |
| Are manual handling concerns addressed properly? | NIA | |
| 6) Hazardous Substances: | 1 | |
| Are all fuels stored in a fuel storage facility? | 1/ | BEHIND CONTAMIER |
| Is an SDS in SDS folder for every hazardous material? | 1 | Ochman Co |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | / | |
| Are spill kits available for use? | 1 | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | 1 | As REQUIRED. NO CXY ON SITE |
| Is there a fire extinguisher with each oxy set? | 2/19 | No Oxy ON-SITE |
| Are there flashback arrestors on each oxy set? | NA | |
| 7) Traffic Management: | | |
| Is traffic ingress/egress controlled? | 1/ | 1 |
| Is access to site delineated to allow safe passage for both persons and machines? | 1 | |
| Does the Traffic Controller have a stop and slow bat? | 1 | USED FOR LIFT PRIVEWAY GPT INSTAU |
| Is the Traffic Controller authorised? | / | |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | / | |
| Is the TCP followed? | NA | |
| Are records (pre-start and close checklists) completed | WA | |
| and stored | NA | |
| 8) Service Search/ Permit to Dig: | | |
| Has a Permit to Excavate been completed and issued to all plant operators | 1 | |
| Is hand excavation occurring within 1m of services? | / | |
| Has a Dial Before U Dig enquiry been conducted on this project? | 1 | |
| | | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? | / | |
| If used, is formwork de-nailed after use? | NIA | |
| Is adequate lighting provided at the workface? | / | |
| Are bins provided and not overflowing? | / | |



| 10) Ladder Safety/ Access: | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | 1 | Access FOR GPT INSTALL |
| Does the ladder extend more than 1m above the egress? | / | Mccess POR OF I INSTAUC |
| Is ladder secured at the top? | 1 | |
| Is the ladder industrial rated and in good condition? | 1 | |
| is the ladder industrial rated and in good condition: | / | |
| | | |
| 11) Inductions + Competency: | - | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | / | KEVIN MECOY/THOMAS BALRBAD/RYAN HOWE DERECK STEVENSON |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | / | |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | STORMWATER/EXEAUATION & BACKFILL |
| Do plant and machinery operators have valid VOCs on them? | / | BEN PEARSE/MAL TORDAN/ UTAY SEWAR |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | / | |
| | | |
| | Tick | |
| SAFETY ISSUES | ОК | CORRECTIVE ACTION/ COMMENTS |
| | | |
| 12) Strike Injuries: | | |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | | |
| | No | |
| Is all exposed reo bar protected with bar caps? | No | |
| Is all exposed reo bar protected with bar caps? | No | |
| Is all exposed reo bar protected with bar caps? | No | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | Tick | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | Tick | CORRECTIVE ACTION/ COMMENTS SEDIMENT BASIN NEEDS DREDGING |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are they effective? | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are they effective? | Tick | |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? Is noise controlled as per CEMP? Is vibration controlled as per CEMP? Does the site egress have environmental controls, are they effective? | Tick | |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|-------------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | |
|-----------------------------|--------------------------|
| Name: JAMES SEATON | Position: SAFETY OFFICER |
| Signed: | Date: 19/08/2022 |

Chains and slings checked and records kept?

SAFETY + ENVIRONMENTAL INSPECTION CHECKLIST



Inspection to be carried out weekly on site Subcontractor representatives required to participate to ensure consultation and active involvement in WHSE matters High-risk non-conformances to be isolated and closed out on the spot, lower-risk items within 48 hours NCRs/PARs SOPF4.04.1 - NCR PAR to be raised for high-risk or repeated issues and followed through to verified closeout. NCRs allow tracking of issues, compilation and communication of company-wide WHSE data Project: Ivanhoe Estate Stage 1B Civil Works Date + Time Conducted: 2-15 pm Christie Civil staff conducting: Name: TAMES SEATON Position: Signed: SAFETY OFFICER Name: Louis Ilicski Position: Size FOREMAN Signed: MI THEU BUTTER Name: Position: Signed: Name: Position: Signed: Subcontractors participating: Name: Company: Signed: Tick SAFETY ISSUES CORRECTIVE ACTION/ COMMENTS OK 1) Excavations, Fencing and Slope Stability: Batters cut at correct slope for material? For excavations >1.5m deep - is there shoring or BETWHI, BATTERS STEEN USES. benching? Falls <1.5m - do they pose a risk and have these risks HAND ROLLS SHURING been controlled? Falls >1.5m are fences supplied? Falls >1.5m - do fences provide a physical barrier to prevent persons falling? (e.g. handrail) Are fences maintained? Are all penetrations covered with secured covers? IVANTOE & LYDN PARK RO 2) Plant and Machinery: Plant Onboarding checks being completed? Check new WESTERN SYDNEY EASTYMUTH EXCAMEDE 13T plant on site this week Operators have verification of competency on them? Plant certification/ Logbooks being filled out? Flashing lights and reversing buzzer operating on mobile plant?

> CHECK JULY 2022 REMHERE : 007 2022



| 3) Personal Protective Equipment: | | |
|------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | _ | 1 2 |
| Are hivis vests being worn by all workers on site? | 1 | SIGHTEO |
| Are hard hats being worn by all workers on site? | 1 | SOLE AS ALWAYS / FERNIFORM + ACKURLLY? |
| Are safety boots being worn by all workers on site? | / | YEAR T YEAR IS NOT THE THE STATE OF THE STAT |
| Is ear protection being worn when needed? | 1 | |
| Is eye protection being worn when required? | 1 | |
| Is sun protection being used – long sleeves, long pants, hat flaps, sunscreen? | 1 | AVALAGLÉ |
| Are records kept of PPE issue to workers? | No | |
| | | |
| 4) Electrical Safety: | | |
| Is all electrical equipment tagged for the current month and 3-monthly for items in site shed? | 1 | CHECKED 17/08/2022 RE-CHECK 17/11/2022 |
| Are all leads up off the ground and hanging off insulated hangers or supports? | 1 | |
| Are leads no longer than 30m and not joined together? | / | 1 |
| Do any multiple outlets include an earth leakage device? | 1 | |
| | | |



| SAFETY ISSUES | Tick OK | CORRECTIVE ACTION/ COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------|
| 5) Manual Handling: | | |
| Are machines used where possible to handle loads? | | MECH AIDS |
| Are loads considered to be too heavy for one man, handled by machine or team lifting? | 1 | 1) b |
| Are correct manual lifting procedures used? | / | SILHTED |
| Are manual handling concerns addressed properly? | NA | NO 1650ES. |
| 6) Hazardous Substances: | | |
| Are all fuels stored in a fuel storage facility? | 1 | BEHIND CONTAINER |
| Is an SDS in SDS folder for every hazardous material? | 1 | John John Marie |
| Are workers inducted into the hazards of working with that material? | 1 | |
| Is appropriate PPE supplied for that material? | 1 | |
| Are spill kits available for use? | / | |
| Is a Hot Works Permit required? If Yes, is it issued, signed off and stored as a record? | 1 | As REQUIRED ENOT THIS WEEKS |
| Is there a fire extinguisher with each oxy set? | NA | No Oxy ON-SITE |
| Are there flashback arrestors on each oxy set? | NA | |
| 7) Traffic Management: | - | |
| Is traffic ingress/egress controlled? | 1/ | |
| Is access to site delineated to allow safe passage for both persons and machines? | 1 | |
| Does the Traffic Controller have a stop and slow bat? | 1, | USED FOR LIF ORIVEWAY, GPT INSTALL |
| Is the Traffic Controller authorised? | / | GP I INSTALL |
| Does each TC have a distinguishing mark on their person stating that they are a qualified Traffic Controller? For roadworks, is a TCP issued? | 11/0 | |
| Is the TCP followed? | BA | |
| Are records (pre-start and close checklists) completed | NIR | |
| and stored | MA | |
| 8) Service Search/ Permit to Dig: | , | |
| Has a Permit to Excavate been completed and issued to all plant operators | 1 | |
| Is hand excavation occurring within 1m of services? | / | |
| Has a Dial Before U Dig enquiry been conducted on this project? | 1 | |
| 9) Housekeeping, Lighting and Ventilation: | | |
| Is the worksite clean and tidy with good housekeeping to prevent slips, trips and falls? If used, is formwork de-nailed after use? | / | |
| Is adequate lighting provided at the workface? | 1 | |
| | 1 | |
| Are bins provided and not overflowing? | / | |



| 10) Ladder Safety/ Access: | 1 | 10 - 5 005 11 1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------|
| Are ladders inclined at a 4 in 1 slope? | / | Access For CPT VONE ARCA. |
| Does the ladder extend more than 1m above the egress? | / | , |
| Is ladder secured at the top? | / | |
| Is the ladder industrial rated and in good condition? | 1 | |
| 11) Inductions + Competency: | | |
| Have all workers completed the Site-specific Induction? Spot check 3-4 workers on site | / | TARA HARMAN, YAMIN AARON, THOMAS BALRELE |
| Are all personnel inducted into Construction safety (White Card)? Spot check 3-4 workers on site | 1 | 1, 1, |
| Are all personnel inducted into Specific activity safety + environmental? Spot check 1-2 activities | / | STORMWATER BULLE EXCAUATION |
| Do plant and machinery operators have valid VOCs on them? | | MALIORDAY/UTAYSENA:4/BENPEARSE |
| Are Tickets/Certifications current/not expired? Spot check 3-4 workers on site | | SEAN MORRAY |
| | Tick | |
| SAFETY ISSUES | | CORRECTIVE ACTION/ COMMENTS |
| | OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: | | CORRECTIVE ACTION/ COMMENTS |
| SAFETY ISSUES 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? | | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK Ns | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? | OK // NS | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES | OK Ns | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: | OK // // // // Tick OK | CORRECTIVE ACTION/ COMMENTS |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? | OK // // // // Tick OK | CORRECTIVE ACTION/ COMMENTS SEDIMENT BASIN NIGERS PLEASING |
| 12) Strike Injuries: Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? | OK // // // // Tick OK | CORRECTIVE ACTION/ COMMENTS |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? | OK // // // // Tick OK | CORRECTIVE ACTION/ COMMENTS SEDIMENT BASIN NOSOS PREDGING |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | OK // // // // Tick OK | CORRECTIVE ACTION/ COMMENTS SEDIMENT BASIN NOSOS PREDGING |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | OK // // // // Tick OK | CORRECTIVE ACTION/ COMMENTS SEDIMENT BASIN NIGERS PREDGING |
| Is all exposed reo bar protected with bar caps? Is there danger from falling objects? ENVIRONMENTAL ISSUES 13) Environmental: Are silt control devices installed around stormwater pits? Are silt controls installed correctly? Are silt controls maintained and effective? Is dust controlled as per CEMP? | OK // // // // Tick OK | CORRECTIVE ACTION/ COMMENTS SEDIMENT BASIN NOSOS PREDGING |



| RISK AREA OR PROCEDURE | Closed out on the spot | Closed out within 48 hours | NCR/PAR(S) issued (list NCR numbers) |
|---------------------------------------------|------------------------|----------------------------|--------------------------------------|
| 1) Excavations, Fencing and Slope Stability | | | |
| 2) Plant and Machinery | | | |
| 3) Personal Protective Equipment | | | |
| 4) Electrical Safety | | | |
| 5) Manual Handling | | | |
| 6) Hazardous Substances | | | |
| 7) Traffic Management | | | |
| 8) Services Search/ Permit to Dig | | | |
| 9) Housekeeping, Lighting and Ventilation | | | |
| 10) Ladder Safety | | | |
| 11) Inductions | | | |
| 12) Strike Injuries | | | |
| 13) Environmental | | | |
| 14) Other | | | |

| ACTION VERIFIED CLOSED-OUT: | | | |
|-----------------------------|-------------------------|--|--|
| Name: JAMES SEATON | Position: SAFETY OFFICE | | |
| Signed: | Date: 26/08/2022_ | | |



| APPENDIX F: WASTE MANAGEMENT SUMMARY | |
|--------------------------------------|--|
| | |

Table C: Waste Management Register

| Type of Waste | Waste Management* | Location Taken | Date | Transporter** | Quantity (t) |
|---------------|-------------------|---------------------------------------------|------------------------|----------------------------|---------------|
| Concrete | Recycled | City of Ryde | 4/05/2022 | Chris PYM | 1.58 |
| Concrete | Recycled | City of Ryde | 12/05/2022 | Danmark | 9.42 |
| Concrete | Recycled | City of Ryde | 12/05/2022 | Danmark | 8.92 |
| Concrete | Recycled | City of Ryde | 12/05/2022 | Danmark | 9.54 |
| Concrete | Recycled | City of Ryde | 12/05/2022 | Danmark | 7.58 |
| Concrete | Recycled | City of Ryde | 12/05/2022 | Danmark | 7.66 |
| Concrete | Recycled | City of Ryde | 16/05/2022 | Danmark | 8.6 |
| Concrete | Recycled | City of Ryde | 16/05/2022 | Danmark | 8.4 |
| Concrete | Recycled | City of Ryde | 16/05/2022 | Danmark | 8.04 |
| Concrete | Recycled | City of Ryde | 17/05/2022 | Danmark | 7.72 |
| Concrete | Recycled | City of Ryde | 17/05/2022 | Danmark | 8.98 |
| Asphalt | Recycled | City of Ryde | 17/05/2022 | Danmark | 10.84 |
| Concrete | Recycled | Wicks Road | 3/06/2022 | Danmark | 9.86 |
| Concrete | Recycled | Wicks Road | 6/06/2022 | Danmark | 7.66 |
| Concrete | Recycled | Wicks Road | 6/06/2022 | Danmark | 7.8 |
| GSW | Disposed | Sydney Recycling Park | 6/06/2022 | Chris PYM | 25.68 |
| GSW | Disposed | Sydney Recycling Park | 6/06/2022 | Meale Haulage | 23.14 |
| GSW | Disposed | Sydney Recycling Park | 6/06/2022 | Chris PYM | 23.66 |
| GSW | Disposed | Sydney Recycling Park | 6/06/2022 | Meale Haulage | 22.8 |
| GSW | Disposed | Sydney Recycling Park | 6/06/2022 | Chris PYM | 22.26 |
| GSW | Disposed | Sydney Recycling Park | 6/06/2022 | Meale Haulage | 24.52 |
| GSW | Disposed | Sydney Recycling Park | 7/06/2022 | Chris PYM | 27.12 |
| GSW | Disposed | Sydney Recycling Park | 7/06/2022 | Meale Haulage | 22.9 |
| GSW | Disposed | Sydney Recycling Park | 7/06/2022 | SB Tuckwell | 26.58 |
| GSW GSW | Disposed | Sydney Recycling Park | 7/06/2022 7/06/2022 | Chris PYM | 26.82 |
| GSW | Disposed | Sydney Recycling Park | 7/06/2022 | Meale Haulage | 21.94 |
| | Disposed | Sydney Recycling Park | | SB Tuckwell | 26.12 |
| GSW GSW | Disposed Disposed | Sydney Recycling Park | 7/06/2022 7/06/2022 | Chris PYM Meale Haulage | 31.3 26.04 |
| GSW | Disposed | Sydney Recycling Park Sydney Recycling Park | 7/06/2022 | SB Tuckwell | 26.22 |
| GSW | Disposed | , , , , | 8/06/2022 | Chris PYM | 27.6 |
| GSW | Disposed | Sydney Recycling Park Sydney Recycling Park | 8/06/2022 | Meale Haulage | 23.74 |
| GSW | Disposed | Sydney Recycling Park | 8/06/2022 | SB Tuckwell | 24.1 |
| GSW | Disposed | Sydney Recycling Park | 8/06/2022 | Chris PYM | 23.4 |
| GSW | Disposed | Sydney Recycling Park | 8/06/2022 | Meale Haulage | 25 |
| GSW | Disposed | Sydney Recycling Park | 8/06/2022 | SB Tuckwell | 22.54 |
| GSW | Disposed | Sydney Recycling Park | 8/06/2022 | Chris PYM | 28.92 |
| GSW | Disposed | Sydney Recycling Park | 8/06/2022 | Meale Haulage | 29.06 |
| GSW | Disposed | Sydney Recycling Park | 8/06/2022 | SB Tuckwell | 27.04 |
| GSW | Recycled | Bulk Transport Solutions (BTS) | 9/06/2022 | BTS | 31.44 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 29.74 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 24.92 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 30.86 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 28.82 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 29.06 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 30.22 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 32.04 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 27.98 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 27.92 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 29.8 |
| GSW | Recycled | BTS | 9/06/2022 | BTS | 27.72 |
| Concrete | Recycled | Wicks Road | 9/06/2022 | Danmark | 9.54 |
| Concrete | Recycled | Wicks Road | 9/06/2022 | CC | 1.52 |
| Concrete | Recycled | Wicks Road | 9/06/2022 | CC | 1.42 |
| Concrete | Recycled | Wicks Road | 9/06/2022 | CC | 2.2 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 32.88 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 30.84 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 27.46 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 32.86 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 27.64 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 38.06 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 30.6 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 31.9 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 32.5 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 29.66 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 35.14 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 36.34 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 31.76 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 31.18 |

Table C: Waste Management Register

| Type of Waste | Waste Management* | Location Taken | Date | Transporter** | Quantity (t) |
|--------------------|----------------------|-----------------------------|--------------------------|-----------------------------|--------------|
| GSW | Recycled | BTS | 14/06/2022 | BTS | 34.6 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 30.26 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 36.92 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 38.28 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 31.82 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 30.72 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 35.04 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 30.28 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 34.66 |
| GSW | Recycled | BTS | 14/06/2022 | BTS | 38.12 |
| Asphalt | Recycled | Wicks Road | 14/06/2022 | Danmark | 9.32 |
| Asphalt | Recycled | Wicks Road | 14/06/2022 | Danmark Danmark | 9.54 |
| Asphalt | Recycled | Wicks Road Wicks Road | 15/06/2022 15/06/2022 | Danmark | 9.2 11.42 |
| Asphalt Asphalt | Recycled Recycled | Wicks Road Wicks Road | 15/06/2022 | Danmark | 3.74 |
| Concrete | recycled | Wicks Road | 16/06/2022 | Danmark | 8.98 |
| Concrete | recycled | Wicks Road | 16/06/2022 | Danmark | 6.32 |
| Brick | Recycled | Concrete Recyclers | 20/06/2022 | Danmark | 10 |
| Concrete | Recycled | Concrete Recyclers | 20/06/2022 | Danmark | 10 |
| Concrete | Recycled | Concrete Recyclers | 20/06/2022 | Danmark | 10 |
| Brick | Recycled | Concrete Recyclers | 20/06/2022 | Danmark | 10 |
| Asphalt | Recycled | Wicks Road | 21/06/2022 | CC | 1.86 |
| Asphalt | Recycled | Wicks Road | 21/06/2022 | CC | 2.84 |
| Brick | Recycled | Concrete Recyclers | 22/06/2022 | Danmark | 10 |
| Brick | Recycled | Concrete Recyclers | 22/06/2022 | Danmark | 10 |
| Brick | Recycled | Concrete Recyclers | 23/06/2022 | Danmark | 10 |
| Brick | Recycled | Concrete Recyclers | 23/06/2022 | Danmark | 10 |
| Concrete | Recycled | Wicks Road | 27/06/2022 | CC | 1.56 |
| Concrete | Recycled | Wicks Road | 27/06/2022 | CC | 1.86 |
| Concrete | Recycled | Wicks Road | 27/06/2022 | CC | 2.14 |
| Concrete | Recycled | Wicks Road | 27/06/2022 | CC | 0.66 |
| asphalt | Recycled | Wicks Road | 27/06/2022 | CC | 0.86 |
| Concrete | Recycled | Wicks Road | 28/06/2022 | Danmark | 7.24 |
| Concrete | Recycled | Wicks Road | 28/06/2022 | Danmark | 7.36 |
| Concrete | Recycled | Wicks Road | 28/06/2022 | CC | 0.46 |
| concrete | Recycled | Wicks Road | 28/06/2022 | EKR Resources | 10.24 |
| concrete | Recycled | Wicks Road | 28/06/2022 | EKR Resources | 9.64 |
| concrete | Recycled | Wicks Road | 28/06/2022 | EKR Resources | 9.22 |
| concrete | Recycled | Wicks Road | 28/06/2022 | EKR Resources | 9.4 |
| concrete | Recycled | Wicks Road Wicks Road | 28/06/2022 28/06/2022 | EKR Resources EKR Resources | 7.6 |
| concrete Asphalt | Recycled Recycled | Wicks Road Wicks Road | 28/06/2022 | CC CC | 0.54 |
| GSW-R | ' | | 19/07/2022 | BTS | 36.3 |
| GSW-R GSW-R | Recycled Recycled | MET Recycling MET Recycling | 19/07/2022 | BTS | 37.46 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | SB Tuckwell | 26 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 34.14 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 36.72 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | SB Tuckwell | 29.54 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 33.32 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 38.22 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | SB Tuckwell | 26.54 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 35.28 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 38.36 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | SB Tuckwell | 24.96 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 37.16 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 36.76 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | SB Tuckwell | 25.45 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 34.66 |
| GSW-R | Recycled | MET Recycling | 19/07/2022 | BTS | 36.54 |
| GSW-R | Recycled | MET Recycling | 20/07/2022 | BTS | 35.18 |
| GSW-R | Recycled | MET Recycling | 20/07/2022 | BTS | 38.82 |
| GSW-R | Recycled | MET Recycling | 20/07/2022 | BTS | 36.96 |
| GSW-R | Recycled | MET Recycling | 20/07/2022 | BTS | 36.06 |
| GSW-R | Recycled | MET Recycling | 20/07/2022 | BTS | 34.76 |
| GSW-R | Recycled | MET Recycling | 20/07/2022 | BTS | 36.52 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 35.04 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 29.72 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 37.04 |

Table C: Waste Management Register

| Type of Waste | Waste Management* | Location Taken | Date | Transporter** | Quantity (t) |
|---------------|----------------------|------------------|--------------------------|------------------|--------------|
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 31.48 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 34.44 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 33.52 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 34.92 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 31.7 |
| GSW-R | Recycled | MET Recycling | 21/07/2022 | BTS | 37.54 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM VENM | Recycled Recycled | Bakers Bakers | 26/07/2022 26/07/2022 | Bakers Bakers | 35 35 |
| VENM | | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 26/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 27/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 28/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 29/07/2022 | Bakers | 35 |
| VENM VENM | Recycled Recycled | Bakers Bakers | 29/07/2022 29/07/2022 | Bakers Bakers | 35 35 |
| VENM | Recycled | Bakers | 29/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 29/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 29/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 29/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 29/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 29/07/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 2/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |

Table C: Waste Management Register

| Type of Waste | Waste Management* | Location Taken | Date | Transporter** | Quantity (t) |
|-------------------------|----------------------|--------------------------------|--------------------------|--------------------------------|--------------|
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 3/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 35 |
| VENM VENM | Recycled Recycled | Bakers Bakers | 4/08/2022 4/08/2022 | Bakers Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 4/08/2022 | Bakers | 35 |
| VENM | Recycled | Bakers | 8/08/2022 | Bakers | 360 |
| GSW-R | Recycled | MET | 8/08/2022 | BTS | 42.45 |
| GSW-R | Recycled | MET | 8/08/2022 | BTS | 8.94 |
| VENM | Recycled | Bakers | 9/08/2022 | Bakers | 450 |
| GSW-R | Recycled | MET | 10/08/2022 | BTS | 32.58 |
| VENM | Recycled | Bakers | 10/08/2022 | Bakers | 540 |
| VENM | Recycled | Bakers | 12/08/2022 | Bakers | 360 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 40 |
| GSW-R GSW-R | Recycled Recycled | Meale Haulage Meale Haulage | 22/08/2022 | Meale Haulage Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 22/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R GSW-R | Recycled Recycled | Meale Haulage Meale Haulage | 23/08/2022 23/08/2022 | Meale Haulage Meale Haulage | 40 40 |
| GSW-R GSW-R | Recycled | Meale Haulage | 23/08/2022 | Meale Haulage | 40 |
| GSW-R GSW-R | Recycled | MET | 26/08/2022 | Meale Haulage | 270 |
| VENM | Recycled | Bakers | 26/08/2022 | Bakers | 270 |
| GSW-R | Recycled | Meale Haulage | 27/08/2022 | Meale Haulage | 480 |
| VENM | Recycled | Bakers | 29/08/2022 | Bakers | 37 |
| VENM | Recycled | Bakers | 29/08/2022 | Bakers | 38 |
| VENM | Recycled | Bakers | 29/08/2022 | Bakers | 37 |
| VENM | Recycled | Bakers | 29/08/2022 | Bakers | 37.3 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| | Recycled | Meale Haulage | 29/08/2022 | Meale Haulage | 40 |
| GSW-R | | | | | 40 |
| GSW-R GSW-R GSW-R | Recycled Recycled | Meale Haulage Meale Haulage | 29/08/2022 29/08/2022 | Meale Haulage Meale Haulage | 40 40 |

Table C: Waste Management Register

| Type of Waste | Waste Management* | Location Taken | Date | Transporter** | Quantity (t) |
|---------------|-------------------|----------------|------------|---------------|--------------|
| VENM | Recycled | Bakers | 31/08/2022 | Bakers | 38.5 |
| VENM | Recycled | Bakers | 31/08/2022 | Bakers | 36.8 |
| VENM | Recycled | Bakers | 31/08/2022 | Bakers | 38 |
| VENM | Recycled | Bakers | 31/08/2022 | Bakers | 37 |
| VENM | Recycled | Bakers | 1/09/2022 | Bakers | 36.2 |
| VENM | Recycled | Bakers | 1/09/2022 | Bakers | 36.55 |
| VENM | Recycled | Bakers | 1/09/2022 | Bakers | 37 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| GSW-R | Recycled | BTS | 2/09/2022 | BTS | 40 |
| VENM | Recycled | Bakers | 2/09/2022 | Bakers | 40 |
| VENM | Recycled | Bakers | 2/09/2022 | Bakers | 40 |
| VENM | Recycled | Bakers | 2/09/2022 | Bakers | 40 |
| VENM | Recycled | Bakers | 6/09/2022 | Bakers | 40 |
| VENM | Recycled | Bakers | 6/09/2022 | Bakers | 40 |
| VENM | Recycled | Bakers | 6/09/2022 | Bakers | 40 |

^{*}Either reused, recycled, stockpiled or disposed.
**Name and waste transport licence if applicable



| APPENDIX | G: ASBESTOS | WASTE | DOCUME! | NOITATION |
|----------|---------------|-------|----------------|-----------|
| | O. AODEO I OO | | DOOUNLI | |



Address: Ì ∰€ÁY ^|å^¦ÁÜ[æåÆÃ

Ù^ç^}ÁPậ∥•ÁPÙYÁTÏHE/ ABN:ÎGÁT€ÎÂÌÍÁGFIÁ

ABN: IGÆF€IÆIIÆFIA Phone: FÌ€€ÆGÌÌÆFÌÌÁ

Email: æå{ã,Oæ∮*^[ÈS[{Èæ`Á Website: ¸,¸, Èæ∮*^[ÈS[{Êæ`Á

Á

Waste Classification and Virgin Excavated Natural Material Report

| Ü^][¦ơÁÜ^-Δ ^}&^Á | FÍ€HŒÖÜËFËFÁ | Ü^][¦ơÁÖæe^Á | FIE®E EOS€CCÁ | |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|--|
| Ô ã^} ơÁ | Ô@ã cã ÁÔã;ãÁÚc ÁŠcåÁ | | | |
| Ô a^} oÁ; [b^&oÁ; æ{ ^Á | Ü[æåÁÓ¦ãã*^ÁÔ[}•d`&dã[} | Á | | |
| Ùãc^Áscåå¦^∙∙Á | GÁŠ^[}]æd∖ÁÜ[ænåÉÁTæ&čĭa | elâNÁÚæe∖Á⇔ÙYÁGFFHÁ | | |
| Š[oÁs) åÁÖÚÁ | ŠĮ α⁄F€FÆÖÚÆFGÎ HÏ GÏ Á | | | |
| Ö^-ājāmāj} kļi-kļiā*ājÁ ^¢&æçæe^å kjiæe* læbkļi æe^ lāmbk ÇXÒÞT DÁ | | | | |
| Š[&ææā[}ÊÁ`æ)cãc`Áæ)åÁ @ærq[¦^Á[-Á[ææ^¦ãæ)Á | Φ ΕὐΟ Υ Ψ ΙΞΌ Σ Κ΄, æ ε ' ā ā κ κ κ κ κ Ι [•• κ κ Ι] [¢ I æ ε '] ΄ Α΄ € Ε ' Ε΄ Δε Α΄ | | | |
| Õ^[[*^Á | V @ ÁÖ^] æd d ^} d f a ^ æd û ^• [` & ^ • ÁÖ^[[* a & æd Á ù ` ç ^ ^ Á; Á Þ Ù Y Á Û ^ å } ^ ^ Á FH T ∈ CÊC ∈ K Ö^[[* a & æd Á Û ^ å • Á Û @ ^ cÁ I FHE Á Ç D å ã a f } ÁFDÁFJÌ HÉÁS; å a & ææ * å Ác@æd f æ Á í á * Á f Á * Á Á Á * æð Á * Á * A æð å • d } ^ É Á ã Á f A * Á Á Á * Á * Å & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * Æ & A * | | | |

| ÒÚŒÚ*à æÁÜ^*ã·c^¦∙Á | OZÁ^æ&@Á, Áo@ÁÞÙYÁÒÚOZÁ}} ā,^Ás[}œæ;åÁæ;åÁæ;åÁ^&[¦åÁ,-Á,[cã&^•Ás;åã&ææ*åÁ cœæóx@Á;ãx^Áçæ;åÁæ;åÁ[&ææ*åÁs[{^åãææ* ^Áæåbæ&^}óÁs[Áx@Á;ãx^DÅ;æ•Á;[cóx@Á •`àb*&oÁ;-kÁ |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Á [¦å^¦•Á; æå^Á; å^¦ÁÚæċóÁrÁ; Ás@ ÁÔ[} œæ; ãjææ^å ÁSæ; åÁTæ; æ‡^{ ^}ơÁçÔŠT DÁDBóÁ FJJÏLÁ |
| | •Á }[caR∧•Ásoçæajaæa} ∧ÁqÁs@Ájĭà aBxÁ}å^¦Án∧&caj}}ÁiìÁj√Ás@ÁÔŠTÁOB&cÁ |
| | Á æ) Áæ)] [ç^å/ký[ˇ } œæˆ/kí æ) æ⁵/{ ^} ơÁ [] [•æ)Á } å^ Ás@ ÁÔŠT ÁDBSOÁ @æcÁ@ecÁ } [ơÁs^^} Áˇ ˆ/Ásæ) ¦ã° å/kjˇ ơÁsæ) å/kjˆ @° ^ÁÞÙY ÁÖÚ ŒÁsæ)] [çæ)Á@ecÁj [ơÁs^^} Á ^ç[\^åLÁ |
| | Á •ãc^Áæ åãoÁ œæc^{ ^} œ Á; [çãã-^åÁg Áœ ÁÞÙY ÁÒÚŒÁ}å^!Án^8œā;}ÃiHÓÁ;-Ás@ Á ÔŠT ÁŒ8cÁs@æcÁ^ ææcÁf åæc*Ág Áð ãã8æa; q^Á&[}æc*å æc*åÆa; åúÁ |
| | ●Á ¸@`¦^Á;¦æ&ca&æà ^Ê&{]ā*●Á;-Áæ}^c@ā;*Á;¦{^¦ ^Á^``ā!^åÁ;Áà^Á;æòóÁ;-Ás@∙Á]``à a&Á^&[¦åLÁ;¦Á |
| | •Á æ&cā[}•Áæà^}Ás^ÁÞÙYÁÒÚŒÁǦÁs@^Á,¦^çā[ˇ•ÁÛææ^ÁÚ[ˇcā[}ÁÔ[}d[Á Ô[{{ã••ã[}DÁ'}å^¦Ár^&cā[}ÁnÍÁ,¦ÁnÎ ^{-F} Á,-Ás@ÁÒ}çā[]{ ^}œ# ^Árææåå[ˇ•Á Ô@{a8懕ÁŒ&AFJÌÍÈÁ |
| | OZÁ^æb&@Á;~Ás@ÁÞÙYÁÒÚOZÁ;} ā;^ÁÚUÒUÁ;`à æBÁ^*ãr¢¦ÁsjåæBæævåÁs@æbÁs@æbÁs@AárÁ Çæ}åÁjæ}åÁj[&æævåÁsj{^åãææv ^Ásæåbæ&^}oÁj[Ás@Ááz^DÁ;æ-Á;[oÁs@Á*àb/8oAf,-ÁsæÁ æ8^}&vÉ£æ}] æææsji}ÊÁ;[œ&vÉ£æĕåásúÉAj[`œ[;}Árčå^Á;Ávå*&oa[;}Á;!*+æ;ÉÁ |
| | OZÁ^æb&@Á, Ás@ÁÞÙYÁÒÚOZÁ} ā,^ÁpēroÁ, ÁÞÙYÁ&[}œæţā,ææ^åÁañev•Á,[cãaðàåÁgÁÞÙYÁ ÒÚOZÁB, åā&æe^åÁs@æÁœ,Áãe^Áãe^Áçàp,åÁæp,åÁ[&æe^åÁa[{^åãæe^ ^Áæåbæ&^}oÁgÁs@Aáæ^DÁ ,æÁ,[cÁ;}Ás@ÁáadZÁ |
| | CDÉ&[]^Á;ÁsaÁs@0Án^æd&@Án^&d¦å•ÁsaÁ;¦^•n}c^åÁsjÁCE;]^}åã¢ÁÖÉÁ |
| Pārqī lāsadyÁOZ lāddAQ ad ^l^Á | OZÁ^ ^&Ca[}Á;Á^>æåā[Áseçæā[æà ^Á[} ā]^Á@àd[¦&Bæ†Áse;lās†Ás[æ*^!^ÁG;[{ÁG€€JÁs[Á G€GGDÁ;æ•Á^çā³,^åEŽV@Á^çā³, Ás]å&Bææ*åÁs@ædÁæ;åáÁ•^•ÁæÁs@Ááz°Ááï¦ā]*Ás@æÁ]^¦ā[åEŽ@æç^Áa^^}Ás[{{^!&āa‡EÁ |
| O. J. ^&å[cæ JÁÒçãå^}&^Á | Þ[Áæ),^&å[œ4Á^çãã^}&^Á;æ4Á;æå^Áæçæā)æà ^Áq;ÁŒ ãæ)&^ÈÁ |
| Ú[c^}caa+Áa+àåÁ &[}ca+{a}aæa}*Áæ&aaãa*•Á æ••[&ãæe^åÁ,ão@Áo@Áão^Á | U} āj^Ár^æd-&@ • Áājåā8&ææ^Áj[e^}cāæqhÁ[lÁr}&[}d[^åÁā āj*Áæ)åÁ&`!!^}có&[{{^!&æqhÁ •ãe^EÁ |
| OE^Án ` -ãã ã&Án ^•Án Án [ān Á] ^•^} dÉ | OZÁ,^çā Á, |
| | •ÁÞKÁ,[Á}[,}Á,8&*¦\^}&^Á |
| | Ø`¦c@\¦Áæ••^••{^}o4j√ÁŒÙÙÊÁUŒÙÙÁ;¦Ár` æãã&Á;¦^Áã\Áæ;\Æa;Ás{}•ãá^¦^åÁ;}¸æd¦æ)¢^åÈÁ |
| Ùæ[] ā]*Áæ)åÁŒ;æ(îc&æ)Á Ú æ)Á | Ü^-^¦Áq[ÁQH]^}åãpÁQHÁs) åÁQH]^}åãpÁÓÁ |
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Ö^ • & | a] cal } A - Aso@ A are \ are A

Øā||KÁEĒĒCIFĒ { ÁÇā*•DÁ ÁÜĀC ÁÕ¦æç^|^ÁÔŠŒŸĒŊ æţ^Áa¦[¸ } ĒÁ[ξ ^Á; ð] ¦Á *|æ•Á¦æð { ^}œĒŊ[œŊ αῶψÁœà^•Q•Á&[} αœΒβ ð]*Á; ææ¸¦ãæψΑÇÜŒÔΤ DÁ [à•^¦ç^åĒŊ[Áçã* æψÁçãå^}&^Á;Áαæðβ ð]*Á;¦Á;|æ&Q ¦°Áγçãå^}&^Á;Á [å[ˇ¦•Áå^৫&cåÁŋÁœØÁæ{]|^•Á&[||^&cåĒÁ

Þæč¦æþÁNFĚ{ÁQà*•DÁÙæ}å^ÁÔŠOËÝÁa¦[]}Ð;|æ)*^Ц^^ÉÁ;[ÁÚOÆÔTÁ [à•^!ç^åÉÁ;[Áçã*æÁçãá^}&^Á;Áœæá]ā*Á;!Á;|ææáť;!^Áçãá^}&^Á;Á [å[`!•Áå^¢^&°åÁá;ÁœÁæá]]/•Áæí[|/^&¢°åÉÁ V^• oÁ, ão• Áo^¦{ ã, ace^å ÁsceÁCHE (ÁGà*• □BÉÁ

Ú@(q*¦æ);@Aj-Ás@ Ásd-^æAj-Ás¢&æçæ@j}}Ása);åÁaj|Áj;æe^¦ãæ4Ás^āj*Áse•^••^åÁsæÁ/ÚFÁ





Ú @ [* | aa] @ Aj -Áaj| Aj aze^| āze| Áze • ^ • • { ^} cÁa}| a [| \ Áze) a Aj aze(] | ^ • Aj -Áaj| Aj aze^| āze| Aj -Aaj| Aj aze^| aze| āze| Aj -Aaj| Aj aze^| aze| Aj -Aaj| Aj




Ú @ [* | æ] @ Á, Á, æč | æ|Á, æe^| ãæ|Áæ•^•• { ^} oÁæ^|å¸ [| \ Áæ) å Á æ (] | ^• Á; Á, æč | æ|Á, æe^| ãæ|Áå^ā, * Áæ••^•• å ÁæeÁ/Ú I Á





| RESULTS | |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ÖæræÁÛ elácíÁD åælæt[¦Á OE•^••{^}oÁ | Ü^-^{Áţ ÁQţ] ^} åã¢ÁQÁ |
| Šæà[¦æa[¦^ÁOE;æk†œã&ækÁ Ü^•~ o•ÁOE•^••{ ^}oÁ | Šæà[¦æq[¦^Áa[&`{^}cæaā]}ÁarÁ;¦^•^}cóåÁa,ÁOE]]^}åã¢ÁÔEÁ/@Áræ{] ^Áaá^}cáð}!•ÉÁ •æ{] ^Áa^]c@ÉÁæ}æ†c^•Áæ}åÁæ}æ†cã8æ‡Á^•` o•Á@æç^Áa^^}Áæà` æe^åÁæ}åÁæ}åÁæ}å]¦^•^}&ôÅA,ÁOE]]^}åã¢ÁÖEÁ |
| Œ à^• ₫ • ÁÁ Á | CE à^• (*) Á æ / Ái^c/ & & å Áæ / Ác@ / Áæ / Éaæ Aæ Eæ Aæ Aæ Aæ Aæ Aæ |

| SIX STEP WASTE CI | _ASSIFICATION PROCESSÁGÁ |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ùơ] ÆÁ | V @ ÁāļÁ; æ^¦āæḥÁā Á&[}•ãā^¦^åÁg Áa^Ár]^&ãæþÁ; æ•c^Áå`^Ág Ác@Á;¦^•^} &^Á; Ác æ•à^•d[•ÈÁ |
| Ùơ]ÁGÁÁ | V@ ÁāļÁ; æe^¦āæþÁarÁ;[ơÁ&[}∙ãã^¦^åÁg ÁarÁarÁa ããÁ; æ•c^ÈÁ |
| Ùơ]ÁHÁ | V@ Áã Á; æe^¦ãæþÆa Á;[ơ&[}•ãã^¦^åÁg Áa;^Á;¦^Ëò æ••ãã^åĚÁ |
| Ùơ]ÁÁ | V@ ÁāļÁ; æe^¦āæþÆarÁ;[ơ&{}}•āā^¦^åÁg Á;[••^••Á@eeætå[ˇ•Á&@eeæ&cº¦āræ&eÆ |
| Ùơ] Á Á | V @ Ás^ c^ & c^ å Ás[] & c^} d æ ā[] • Á[Ásē] æf c^ Ás[Ás@ Áā] Á[æc^ ¦ āæḥÁ æṭ] ^ • Ásē] æf • ^ å ĒĀ ¸ ^ ¦ ^ Ár • • Ás@æj Ás@ Á ^ ^ ç æj o ÁÔ V F Áş æţ ^ • Ás[Á /æà ^ Ær À - År Ù Y ÁDÚ O ÆÇG€F I æ Ásē] å Ás@ Á ¦ ^ ^ ç æj o Á ∕ ÔŠÚ F Ásēj å ÁU ÔÔ F Áşæj * ^ • Ás[Á /æà ^ ÁCA¸ Ár Ù Y ÁDÚ O ÆÇG€F Î DǏ āc@Ás@ Á ^ c & c] cī[} Á¸ +ÁÁ. |
| | •Á ^æåÁş Á; æ;] ^Á/ÚŒ<u>ËÈËËÈHÁÇF</u>I €(*Ð)* ĒŽÔVFÁ;æ; ^Á; -ÁF€€(*Ð)* DIÁ |
| | Ùæ{] ^Á/ÚGËŒŒËŒËHÁ, æn Án`à bh & chả Át Án cả Á VÔ SÚ HÁ Đạ æh •ã Á Đạ ả Á 500 Á Án chỏ V Á Ô Ú CEÁ &[} &^} d æaā[} Á, æn Án •• Á 500 Án ^çæ) cÁ VÔ SÚ FÁÇæ; ^ÁB, Á Væà ^ÁGÁ, Án Ù Y Á ÒÚ CEÁ ÇGEFI ædDÉÁ |
| | V@ Án à • ^ çæaā } • Án -Án@ Áā Án ææ \ āæ \ faæ \ faæ • ^ • • ^ å Éās à å ææ ^ å Án @æ Án ææ \ āæ \ āæ \ faæ \ aæ \ faæ \ |
| | •Á c@ Á, æ¢ã; { Ás^c^&c^å Á/æå Á&[} &^} d ææã; } Áçæ‡ ^Áş Ác@ ÁsæææÁ ^cÁ, æ•ÁFI €{ *Ð *ÊÉ _ @&@ás Á/•• Ác@æ) ÁEÍ €Ã Á, Ác@ Á^ ^çæ) cÁÖVFÁçæ; ^ÁÇF€€{ *Ð * DLÁ |
| | •Á c@ Á cæ) åæ å åå ^çãæ ã; } Á; Ás@ Áå ^c^&c^å Á; æå Æ[; } &^} d æ ã; } •Áş Ás@ Áå ææ Á ^c/ æ Á I CÀE { *Đ*ʸ @ & @ å Á* · • Ás@ À Á ∮ Ás@ Á ^ ^çæ; o ÁOVFÁ;æ; ^ÁÇE € { *Đ*DÁ |
| | A c@ \^Áa ÁæÁlÍà Á, \[àæàããã Ác@æÁc@ Áæ\ão@ ^cã&Áæç^\æ*^Á&[} &^} dæã } Á, Á^^æåÁB, Á c@ Á(æ²\ãæ\Áæ•^••åê¸ã Á; [cÁ^¢&^åÁÏÍÈ{*Đ*ʸæ&@Áæ Á ^••Ác@æ}Ác@eÂ \^ ^çæ) σÁÔVFÁçæ; ^ÁÇF€€{*Đ*DĚ |
| | OEÁS[]^Á,Ás@ÁÚ¦[WÔŠÁn cææā cã&æþÁsè) æ∮°•ãnÁ, čď čóānÁ,¦^•^} c^åÁS,ÁQE]^} åã¢ÁØÈÁ |
| Ùơ]ÂÁ | V@Á;æc^¦ãædÁsnÁ;[ơ&{}•ãã^¦^åÁq;Ás^Á; d^•&ãã ^ÈÁ |

Á Á Á

^GÁÞÙY ÁÖÚŒÁÇЀFI æÐÁ

 $^{^{}H}\!\!A/[$ ¢38ãĉ $^{\dot{\alpha}}$ $^{\dot{\alpha}}$ 6 $^{\dot{\alpha}}$ 638 $^{\dot{\alpha}}$ 6 $^{\dot{\alpha}}$ 838 $^{\dot{\alpha}}$ 8 $^{\dot{\alpha}}$ 9 $^{\dot{\alpha}}$ 8 $^{\dot{\alpha}}$ 9 $^{\dot{\alpha}}$ 8 $^{\dot{\alpha}}$ 9 $^{\dot{\alpha$

| VIRGIN EXCAVATED NATU | VIRGIN EXCAVATED NATURAL MATERIAL ASSESSMENTÁ | | | | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| U¦*æ)a&•Á | V@^k&[}&^}dæaā[}Áj~ÁvÜPÊÄÓVÒÝÊÁÚŒPÊÁUÔÚÁse}åÁÚÔÓÁSIÁs@^Á }æa覿dÁ;æac^¦ãædÁæe[] ^•Áse}æq^•^åÁj^!^Ár^••Ás@æ)Ás@^Áæà[¦æa[¦^qrÁã[ãoÁ;-Á ¦^][¦æ]*ÈÁ | | | | |
| T^œ ∳ Á | V@^ÁSU }&^}dæaā }Án;Áade•^}a&BÉSSaaå{ã{EÁS&@[{ã{EÁS&[]]^\EÁN^æåEÁ;ā&\^ Áag}åÁā;&Á ¸^\^Á;āc@a;Áx@^Á^\^çæ}o%àæ&*¦[ĭ}åÁæ)*^•Á;¦Áx@••^Á;^c懕EÁ;¦^•^}o*åÁā;Á Ó^\\{æ}ÁÖÁDEÁÇFJÌJEÁÁ | | | | |
| | V@^Áæà[¦æq[¦^q^KŠUÜÁ[¦Á[^ &`¦^Á]æ•ÁÆÈF{*£0*ÈÁ@ánÁşæ‡^ÁáanÁ;æ;*ājæ ^Á@ā@⊹Á c@æ)Ás@~Ááæ&*¦[`}åÁæ)*^Á[¦Á[^ &`¦^A;`á]ãa@åÁ§AÓ^¦\{æ)AÖÁŒÁÇFJÌJDÈÁ P[¸^ç^¦ÉŘáç^}Ás@æmÁœ/Á8[}&^}dæáā]}•Á[-HÁ | | | | |
| | •Á [c@\¦Á;^cæ+•ÁnjÁs@\Áræ{] ^•Ána+;a+;^•^åÁ;^\^Á;ãn@3;Án^ ^çæ);oÁniæ&*¦[*}åÁ ¦æ+)*^•LÁ | | | | |
| | •Á [¦*æ);ã&•Á§;Ás@ Áræ{] ^•Áæ);æ;°•^å,Á¸^¦^Ár••Ás@æ);Ás@ Áæà;[¦æa[¦^Ájā[ãoÁ;-Á ¦^][¦æ];*ÉÄ | | | | |
| | CE āma) &^Ás[} • āā^¦• Ás@Á;[d^} cāmajÁ;¦Á; ^¦&`¦^Á;[Ás^Á;¦^•^} dā;Ác@Á; ææ^¦āmajÁ æ••^••^åÊāmajåÁnæ••[&āmæ^åÁ;āc@á; æaj~æ&c' ^åÁs@@{a3c憕Á;¦Á; & ^••Á^•āá`^•Áaæ ÁnæÁ ¦^•` dá;Ángå*•dāmajEās[{{^!&āmajEá;ājā;*Á;¦Ánæ'¦ā&` c' æhÁnæ&cāņānān•ÊÁqÁa;Áng¸EÁ | | | | |

MATERIAL CLASSIFICATION

- •Á c@Áã|Áræc^¦ãædÁæ••^••^åÁæ ÁæðÁæðÁæð Áxã ^ÁrÁs@áÁ^][¦cÁ,[ˇ|åÁsk|æ•ãĉÁæÁSpecial Waste (asbestos) asÁ &[} c^¢on[, 4@a) å|ā, * Áa) åÁ^{ [çaa[4, [¦\• ÊÎOH]āa) & Ás[}•āā^¦• Ás@acÁo@ Áae à^• q[• 4, [` |åÁs^Ás[}• ãa^¦^ å, [} ÉÄ √lãæà|^ÈÁ
- •Á c@ Á, æč¦æÁ, æð¦ãæÁæ•^••^åÁæ ÁæÁæÁæÁæÁæÁæÁæÁæÁð][¦cÁ, [ˇ|åÁ&]æ•ãÁæÁvirgin Excavated Natura] Ü^][¦dĚÁ

OEI ã A S A C C A Á C C A Á C C A Á C C A Á C C A Á C C A Á C C A Á C C A Á C C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A Á C A A Á C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A A C A C A C A A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C

- \bullet Á ãÁ(æe^ $\$ ãæ $\$ A() \bullet A(][|\•Áq@`|åÁq[]Ása)åÁ`¦ó@!Á&|æ•ã&&æa[}Áse•^^••{ ^}oÁq@`|åÆs^Á}å^¦æa^}LÁ
- •Á, æ ơ Á Q ઁ |å Áà ^Á@a) å |^å ÊÁ ^{ [ç^å Ása) å Áta) •] [¦ơ å Áà ∱ása Å ઁãæà | Áã& ^} ^å Áse à ^• ([çæ Á {[çæ Ás[}dæsa [¦ÊÁs]Á æ&&[¦åæj&^Ájār@Ájãaæj&^Ájā/[¦\Ô[ç^¦ÁÞÙYÁQDEFIDÁæjåÁÛæ^Y[¦\ÁÞÙYÁQDEFJŪÁæjåÁããj][•^åÁjÁæðæÁ • ĭāzaàl Á32^} • ^ å Á æ• c^Áæ\$ájāc ÞÁ2 ¦ c@ Í Ásæå c38 ^ Á^ * æå å * Á32 ^) • å * Áæ} å Á æ• c^Ád æ& ð å * Á&æ Á Ás ^ ÁF ` } å Ásæ Á @d • HED _ _ E æ^ [|\ E • _ E [c Eze + DBX^ } & • Eze à B H * ã d æzi } • DBX^ } & • Dze à ^ • d • Aze à ÁÁ dæ) •][¦oh Aæ à^• d • Á æ c Aæ) åhĉ |^• A&æ) Åa^ A[] å Aæc Aæd • KED E] æE • E [cEĕ E) [' | E <u>^}çã[}{ ^}œ@erblæ}•][¦œi*Ëæeà^•@f•Ë;æerbĒĉ¦^•LÁæ</u>)åÁ
- •Á c@Á*^}^¦æď¦ÁrÁs@Á æ c^Áæ}åЦÁxÒÞTÁr@`jåÁ^cæðjÁn^&ï¦å•ÁrÁr{[çæþÁdæ)•][¦oÁæ}åÁsãi][•æþÁ
- •Á æð• ĭāæà|^Ájā&^}•^åÁ, æ•c^Á^&; &|ā *Áæ&ájāc Á; æê Áà^Áæà|^Át Á^&^āç^Ác@ Á æ•c^Éz• `àb^&cÁt Ác@ Á*^}^¦æt ¦Áæ)åÁ $da) \cdot [[c'] A \cdot 8 \cdot aca * Aca * Aca * [catA : [catA$
- •Á c@ Á&[}•~{ ^¦Á; -Ás@ ÁKÒÞT Á QQ ~ |åÁ^ cæði Ás^ cæði ^åÁ^ &[¦å•Á; -ư \ æði Á æði \ æði Æši ^ |æç^ \ ^ kæði å Á; |æ&^ { ^} dÉ

REFERENCES

OĐUÁ IÌ CHĐT JJJÁÕ * ãā ^ÁṭÁœ Á æ;] |ā, * Áæ; å Áṣ; ç ^ • cã æ æā; } Á; -Á; [c^ } cãæ þ| ^ Á&; } cæ; ā, æ e^ å Á; āfðúæ ó ÁGÁX [|ææā ^ Á • `à• cæ) & ^• on (å æe ^ å ÁÙ ^] e ^ { à ^ ¦ ÁF J Ì J ÈÁ

Ó^¦\{ æ}ÁÖÁŒÁFJÌJĒÁÆ?¶åÁÕ^[|[*ãroqÁTæ);׿þĒÁ'@3åÁÒåã@1}òqÁ,`à|ãr@åÁà^ÁV@ÁŒ.•dæ)ææ ãæ)ÁQ.•@cčc^Á;ÁTājā;*Á æ}åÁT^œellĭ¦*îÈÁ

ÖWOEÚÁFJJÌEÁT æ)ætā;*ÁŠæ)åÁÔ[}œ(ā)æeðā;ÁÚJæ)}ā;*ÁÕ×ãå^[ā]^•ÁÜÒÚÚÍÍÁÁÜ^{^åãæeðā}}ÁjÁÁŠæ)åďÔE}ååææ°åÁOE;¦ājÁ FJJJÉÁ^-kÁJÌ ĐÍ ÉÁ

ÒÚOĐÁ CÔÁOŒ€JÁQQã*•dãædÁYæchÁÜ^•[*l&NÁÕ*ãå^lā^•oábåæchåÁR*}^ÁŒ€€JÊÁ^+ÁÓYÜŐÏ€ŒÐÁ

ÞÙY ÁÖÚÓÒÁG€GFÉÁLÚcæ°ÁÒ} çã[} { ^} æþÁÚ|æ} } ã, * ÁÚ[|æ8 ÁÇÜ^•ãæ7 & Áæ9 å ÁPææ æbå• DÁG€GFóÁ

ÞÙY ÁÒÚ CEÁFJJÍ ÉÁÔ[} cæ{ ðj. ææ^å ÁÚ ãe/• KÁÚ æ{] |ðj. * ÁÖ^• ðil } ÁŐ * ãå^|ðj. ^• qásæe^å ÁÚ/^] e^{ à^¦ÁFJJÍ ÉÁ^-KÁÒÚ CEÁJÍ EÓ JÁ ÞÙY ÁÒÚŒÆFI æÆY æ ¢ÁÔlæ•ãæ8æã} }ÁŐ ã° ÅÁlæ•ÓÆFI ÉÁN-ÞÁ ÒÚOEÁG€FIEEÜJÎÁ

ÞÙY ÁÒÚ CHÁCEFÎ ÉÁCBả å^} å { Át Ác@ Ár æ cr•ÁÔ |æ•ãaBæetā} } ÁÕ ãå |ā ^•ÁQDEFI DÁ ÁÚ æ chkáklæ•ã à a *Á æ croábæer å Á U&dan¦ÁGEFÎÉÁN-HÁÖÚCEÁGEFÎEEÍÍJÁ

Ùæ^Y[¦\ÁÞÙYÁG€FJÉÃÓ[å^Áį-ÁÚ¦æ&dã&^ÉÁP[¸Á/[ÁÚæ^|^ÁÜ^{{[ç^ÁQ5eà^•d[•dásæe^åÁGE**•dÁG€FJÁ

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Important Information About This Report

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Appendix A - Sampling Plan and Data Quality Indicator Assessment

| SAMPLING PLAN | |
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| Üæaā[}æ4^Á[¦Ánæ[] ā]*Á]æaæ^¦}Á | Op ´ÙOVWÁOEÜÒOEÁ Á/@ Áræá] jā * Á, ææc¹} Áţ ¦Ár@ Ás Ē āc Á; ææc¹āæd+ Á, āļ/Ás^ÁæÁ •^•¢{ ææ38Á ¦āāÁ; Áræá] jā * Á, [ā] o•Áæ3k] ••Ár@ Áse⁄æás^ā, * Áse•^•••å ĒÁsæà ā] * Á āj d[Á8[] •āa^¦ææā] }Ár@ Ásec⁄æāás^] co@Áse} åÁr[j { ^Á; Á; ææc'¦āæd∮ás^ā; * Áse••^••å ĒÁsæà æ) åÁr ˇāāæ) & AÁs, Á/æàa ^ÁOEÁ; Ár⊃ÙY ÁÖÚOEÁÇFJJÍ DÁSæ) åÁ/æà ^ÁrÁse) åÁrÁs, ÁÖÚOEÁK OÓÁ ÇCE€JDĒÁ |
| Üæcā[}æt^Á[¦Áræ{] ^Á &[^&cā[}Áse]åÁse]æt∱æ38ætÁ ~~æ}@ñæ3•Á | OÞ ËÙ OV WÁOEÜ Ò OTÁÇY æ ơ ĐÁ ÁOTÁ, Ậ Ą ˇ 〈 Á, Á) Á æ ;] ^ • Á, ڳ Á, Á&; ^ & & å Æàæ ^ å Á, } Á * ˇ ૐ æ & Ás, Á /æà ^ Ár Ás) å Á/æà ^ Ár Ás, ÁOÚ OTÁX ÓÒ ÁÇ⊃€€ □ DÉĄ ; Ác@ Åç [ˇ { ^ Ás) å Æà^] c@Á [-Á, æ ơ Ás^ ¾ * Áse • ^ • • ^ å ĚÁ Á |
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| Tæe^¦ãæo Áræ{] ^Ás4[^&c4[}Á å^]c@-Á | OPÙOWÁÁ/@Áã•oÁæ{] ^Á;ā kā^Á&[^&o^ákæhó@Á*¦-æ&^Œk@}ÁææÁ^*` ædÁ å^]o@Ás@¦^æe^¦Êkæ÷^oā]*Áçã; æhÁ;¦Á; -æ&d¦^Á;ã}•Á;-Á&[}œæ;ājææāj}Ê&iÁs@Á œ÷*^ó&n^]o@Á;-Áæ••^••{ ^}oĚ |
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| ComparabilityÁ | | | |
|---------------------------------------------------------------------|-------------------------|-----------|-----------------------|
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| Y^æc@d¦Á&[}åãqā[}•Ái°ãaæà ^Á;[¦Áræ(]]ā]*ÉÄ | Ÿ^∙Á | Ÿ^∙Á Á | Úæ•Á Á |
| Ùæ(^Ánæ(] ^Ásc]^•Á&[^&c^åÁæ)åÁ,¦^•^¦ç^åÆ,Á •æ(^Á,æíÉÁ | Ÿ^∙Á | Ÿ^∙Á Á | Úæ•Á Á |
| Ü^ ^çæ)oÁvæ{] ^•Áv['^åÁşÁşÁş•` ææ^åÁ &[}œæ]^¦•Áæ)åÁ&@A ^åÈÁ | Ÿ^∙Á | Ÿ^∙Á Á | Úæ•Á ÁÁ |
| Laboratory Considerations | Target Criterion | Result | Pass / Fail / Comment |
| Ùæ{^Ájæàa[¦ææ[¦^Ár•^åáÁ[¦Áæ4]Áæ)æ†î•ãrÉÄ | Ÿ^∙Á | Ÿ^∙Á Á | Úæ•Á ÁA |
| Ô[{]æsæaà ^Án(^co@)å•ÁsáÁsã-^¦^}oÁjæaà[¦ææ[¦ã?•Á ˇ•^åÈÁ | Þ[ơÁnd] &&anà ^Á | } EDeAÁ | Úæ•Á ÁA |
| Ô[{]ækæà ^Áqããæ^Á,-Á^][¦æå;*ÁsáÁsã-^¦^}ơÁ æà[¦ææ[¦æð•Á•^åÈÁ | Á Þ[ơÁnd]] 888-mà ^Á | } EðæÁ | Úæ•Á ÁÁ |
| Ô[{]æàæà ^Á}ãorÁ;^æ*¦^ÁaÁåã-~\^}ơÁ æà[¦ææ[¦ãn•Á@æç^Áà^^}Á*•^åÈÁ | Á Þ[ơÁse]] 88sesà ^Á | } EDeAÁ | Úæ•Á Á |

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| RepresentativenessÁ | | | |
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| Field Considerations | Target Criterion | Result | Pass / Fail / Comment |
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Appendix B – Site and Sampling Point Layout Plan

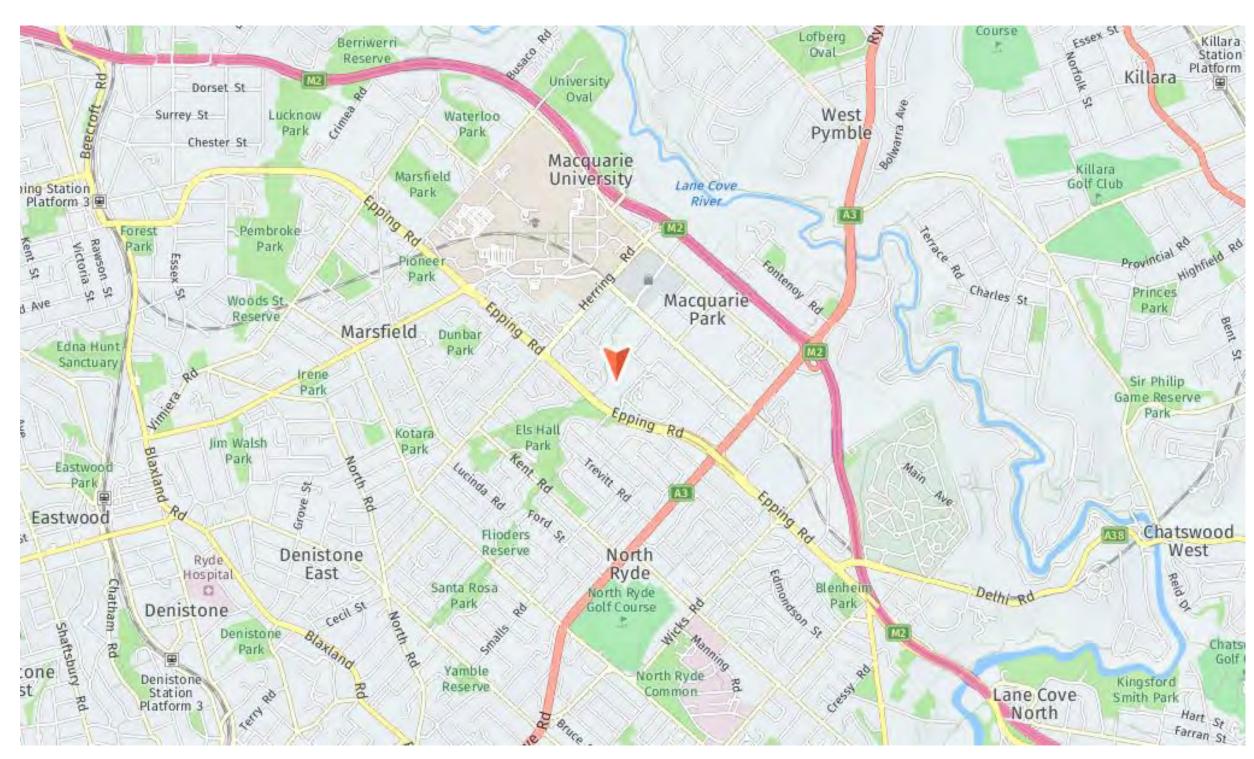


Image Source: www.nearmap.com

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Image Source: www.nearmap.com

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| Sample Locations | | | |
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Appendix C - Chain of Custody, Sample Receipt and Certificates of Analysis

Á

| | CHAIN OF CUSTOD | 085 521 | Sydney Laboratory Unit F3 Bid F of Mars Road La 02 9900 8400 EnviroSample | ins Cove West NSW 2066 Unit 1 24 Snablwo | od Place Murarrie QLD 4172 | Perth Laboratory Unit 2 91 Leach Highway Kewdale | WA 6105 | Melbourne Laboratory 6 Monterey Road Danderrong South VIC 3178 |
|-------------------|------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Company | Miance | Geo | Project No | | ect Manager D. Format | 08 9251 9600 EnviroSampleWA | @eurofins.com Sampler(s) | 03 8564 5000 EnviroSampleVic@eurofins.com |
| Address | | | Project Name Mac | | D Format al. EQuIS etc | | Handed over by | |
| Contact Name | | | r "Falered" | | | | Email for Invoice . | haeleallges.cm. |
| Phone Na | 01 | | See Specify Total or " | | | | Email for Results | Jan Marie |
| Special Direction | | | | | | 100 | Containers Change container type & see if | Required Turnaround Time (TAT) necessary Default will be 5 days a not sailed |
| obeciai Directoli | 5 | | Analysis of must be used | | | | | Surchargo will apply Overnight (reporting by 9am) |
| Purchase Order | | | | | | | Plastic Plastic Plastic Per Glass | Same day 1 day |
| Quote iD № | | | 3 - | | | | 500mL Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial | days (Standard) |
| Ne. | Client Sample ID | Sampfed Mai Date/Time Solid dd/mm/yy hh.mm Wate. | Whow was | | | | 2 2 | Sample Comments I Dangerous Goods Hazard Warning |
| TP1 | -0,0-0,3 | 5.4.22 | | | | | | Toangerous Goods Hazard Warning |
| 1P1- | -07-1.0 | | | | | | | |
| TP2. | -0.7-1.0 | | 1 | | | | | |
| | -0.7-1.0 | | | | | | | |
| | -0.0-0.3 | | | | | | | |
| | -0.7-1.0 | | , / | | | | | |
| | -1.5-1.6 | | | | | | | |
| TP 3. | -1.8-2.0 | | | | | | | |
| 794 | -0.0-0.3 | | | | | | | |
| 774 | -0.7-1.0 | V | | | | | | |
| thod of Shipment | Courier (# | Total Counts) Hand Deli | ered Postal | Name | | 10 | | |
| Eurofins mgt | Received by | | SYD BHE MEL PER A | | Signature | 1/514 | Date 5-4 | ZZ Time |
| aboratory Use On | Received By | ngt | SYD SNE MEL PER A | UCL NTL DRW Signature | Date | 1 11 | Time | Report to |
| | | | | Submission of samples to the tab | oratory will be deemed as acceptance of Eurofins m | ngt Standard Terms and Conditions | unless agreed otherwise. A copy of Eur | rofins rngt Standard Terms and Conditions is available on request. |

| | CHAIN OF CUSTOD | |) [| Sydney La Unit F3 8ld.F 02 9900 840 | 16 Mars Road La | ine Cove West NSW 2 NSW@eurofins.com | 066 L | irisbane Laborato nit 1 21 Smallwood F 7 3902 4600 Envir | Place Murerrie (| QLD 4172 | Unit 2 | h Laboratory ? 91 Leach Highway Ke 51 9600 EnviroSamp | wdale WA 61 | 05 | | [| 6 Monte | me Laboratory | Naty VIC 3175 |
|-----------------------------|-------------------------------|----------------------|------------------------|-------------------------------------------|-----------------|-----------------------------------------|-------|----------------------------------------------------------------|---------------------|-----------|--------|--------------------------------------------------------------------|---------------|--------------------------------|----------------------|------------------------------------|---------------------|-------------------------------|------------------------------------------------|
| Company | Aliance | Geo | Pro | oject № | | | | | Manager | | | - Little County | | Sampler | (s) | | UJ 8064 | 5000 EnviroSampleV | Ic@eurofins.com |
| Address | | | Proje | ect Name | Mac | g Pc | wK | EDD I ESdat. 8 | Format EQuiS etc | | | | На | anded ov | er by | | | | |
| | | | 'Fallered' | N | | 1 | | | | | | | Err | nail for In | voice | | | | |
| ntact Name Phone № | | | V Total or | Silk | | | | | | | | | En | nail for Re | | | | | |
| Iolie Ma | | | lyses ease specif | S | 0 | | | | | | | | | Change cor | Conta tainer typi | | ereling. | Required T | urnaround Time (TAT) to 5 days of not honed |
| ial Directions | | | Ana Anested pl | 3 | - | | | | | | | | | | Ħ | | 4 | | ◆Surcharge will apply (reporting by 9am)◆ |
| hase Order | | | etals are re | | 1 | | | | | | | | aţic | 2 26 | Glass | vial Bottle | 1DPE) | Same day Same day 2 days ■ | |
| iote ID № | | | Where | 3 | S | | | | | | | | 500mL Plastic | 250mL Plastic 125mL Plastic | 200ml. Amber Gla | 40ml, VOA vial 00ml, PFAS Botti | Jar (Glass or HDPE) | 5 days (St | andard) |
| | Client Sample ID | Sampled Date/Time | Matrix Sold (S) | house | Saksaks | | | | | | | | 35 | 2 2 | 200m | 500m | 2 | | ple Comments |
| | | ddimmVyy hu mm | Solid (S) Water (W) | 7 | K_{j} | | | | | | | | | | | | a de | | Soods Hazard Warning |
| 74 | -1.8-2.2 | | | | | | | | | | | | | | | | | | |
| 195 | -0.0-0.3 | | 300 | | | | | | | | | | | | | | | | |
| P4- | 1.5-1.6 | | | 1 | | | | | | | | | | | | | | | |
| P5- | 1.5-1.6 -0.2-0.3 -Franq | | V | 1 | | | | | | | | | | | | | | | |
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| | | | Counts | | | | | | | | | | | | | | | | |
| f Shipment | Courier (# |) [| Hand Delivered | | Postal | Name | 0/2 | | • | Signature | 1/5=1/ | Page 184 4 | | Date | | | | Time | |
| ofins mgt tory Use Onl | All and the second | | | | | ADL NTL DRW | | d | 1 | | Date | 5/4 | - | Time | 1 | 1 3 | 00/1 | Temperature Report Na | 149 |

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

RE: Eurofins Test Results, Invoice - Report 877420 : Site MACQUARIE PARK

Michael Dunesky <michael@allgeo.com.au>

Tue 2022-04-12 10:05 PM

To: Hannah Mawbey < Hannah Mawbey@eurofins.com >

Cc: #AU04 Enviro Sample NSW < EnviroSampleNSW@eurofins.com >; Andrew Black

<AndrewBlack@eurofins.com>

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Thanks Hannah can we please request additional TCLP on sample:

TP2-0-0.3 - lead

24 hr TAT

Regards,

Michael Dunesky

Senior Environmental Consultant

Mobile: 0450 836 300 | Email: michael@allgeo.com.au



Office Phone: 1800 288 188

Admin Email: admin@allgeo.com.au

Website: allgeo.com.au

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From: HannahMawbey@eurofins.com < HannahMawbey@eurofins.com >

Sent: Tuesday, 12 April 2022 8:47 PM

To: Michael Dunesky <michael@allgeo.com.au>

Subject: Eurofins Test Results, Invoice - Report 877420 : Site MACQUARIE PARK

Please find attached report and invoice as per header.

Kind Regards, Hannah Mawbey

Eurofins | Environment Testing

Unit 16/7 Investigator Dr Unanderra NSW 2526 **AUSTRALIA**

Phone: +61 2 9900 8492

Mobile: +61 447 584 487

View our latest EnviroNotes How did we do? Provide your feedback here



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Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone: 0800 856 450 IANZ # 1290

Sample Receipt Advice

Company name: Contact name: Project name:

Alliance Geotechnical Michael Dunesky MACQURIE PARK Not provided

Project ID: Turnaround time:

5 Day

Date/Time received

Apr 5, 2022 11:30 AM

Eurofins reference

877420

Sample Information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- Split sample sent to requested external lab.
- Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone: (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Michael Dunesky - michael@allgeo.com.au.

Note: A copy of these results will also be delivered to the general Alliance Geotechnical email address.





Alliance Geotechnical 10 Welder Road Seven Hills NSW 2147





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: Michael Dunesky

Report 877420-S

Project name MACQUARIE PARK
Received Date Apr 05, 2022

| Client Sample ID | | | TP1-0-0.3 | TP1-0.7-1.0 | TP2-0-0.3 | TP2-0.7-1.0 |
|---------------------------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| | | | S22- | S22- | S22- | S22- |
| Eurofins Sample No. | | | Ap0009173 | Ap0009174 | Ap0009175 | Ap0009176 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | · | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | 76 | 230 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | 76 | 230 | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)N04 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | 200 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | 200 | < 100 | < 100 |
| втех | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 130 | 144 | 142 | 131 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |



| 011 10 1 10 | | | | | T | T |
|--------------------------------------------------------|----------|----------------|------------------|----------------|----------------|----------------|
| Client Sample ID | | | TP1-0-0.3 | TP1-0.7-1.0 | TP2-0-0.3 | TP2-0.7-1.0 |
| Sample Matrix | | | Soil S22- | Soil S22- | Soil S22- | Soil S22- |
| Eurofins Sample No. | | | Ap0009173 | Ap0009174 | Ap0009175 | Ap0009176 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Polycyclic Aromatic Hydrocarbons | <u> </u> | | | | | |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 108 | 93 | 94 | 69 |
| p-Terphenyl-d14 (surr.) | 1 | % | 130 | 110 | 114 | 88 |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | 0.08 | 0.17 | 0.13 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| а-НСН | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 < 0.05 | < 0.05 0.08 | < 0.05 0.17 | < 0.05 0.13 |
| DDT + DDE + DDD (Total)* Vic EPA IWRG 621 OCP (Total)* | 0.05 | mg/kg | < 0.05 | < 0.1 | 0.17 | 0.13 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg mg/kg | < 0.1 | < 0.1 | < 0.17 | < 0.13 |
| Dibutylchlorendate (surr.) | 1 | % | 71 | 72 | 68 | 74 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 131 | 133 | 88 | 78 |
| Polychlorinated Biphenyls | ı | /0 | 131 | 133 | 00 | 70 |
| Aroclor-1016 | 0.1 | ma/ka | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1221 Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 71 | 72 | 68 | 74 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 131 | 133 | 88 | 78 |



| Client Sample ID | | | TP1-0-0.3 | TP1-0.7-1.0 | TP2-0-0.3 | TP2-0.7-1.0 |
|---------------------|-----|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009173 | S22- Ap0009174 | S22- Ap0009175 | S22- Ap0009176 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | 12 | 16 | 7.7 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | 0.5 | < 0.4 |
| Chromium | 5 | mg/kg | 6.4 | 21 | 39 | 12 |
| Copper | 5 | mg/kg | 11 | 5.4 | 59 | < 5 |
| Lead | 5 | mg/kg | 16 | 65 | 140 | 61 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | < 5 | 14 | < 5 |
| Zinc | 5 | mg/kg | 33 | 39 | 470 | 21 |
| % Moisture | 1 | % | 23 | 11 | 18 | 10 |

| Client Sample ID | | | TP3-0-0.3 | TP3-1.5-1.6 | TP4-0-0.3 | TP4-0.7-1.0 |
|---------------------------------------|-----|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009177 | S22- Ap0009178 | S22- Ap0009179 | S22- Ap0009180 |
| • | | | 1 - | 1 - | | - |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | 65 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | 130 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | 195 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)N04 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)N01 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | 190 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | 120 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | 310 |
| ВТЕХ | · | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 62 | 136 | 133 | 123 |
| Polycyclic Aromatic Hydrocarbons | · | • | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |



| | | | | | 1 | |
|---------------------------------------|----------|-------|-------------------|-------------------|-------------------|-------------------|
| Client Sample ID | | | TP3-0-0.3 | TP3-1.5-1.6 | TP4-0-0.3 | TP4-0.7-1.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009177 | S22- Ap0009178 | S22- Ap0009179 | S22- Ap0009180 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Polycyclic Aromatic Hydrocarbons | · | | | | | |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 72 | 94 | 72 | 116 |
| p-Terphenyl-d14 (surr.) | 1 | % | 98 | 99 | 88 | 96 |
| Organochlorine Pesticides | <u>.</u> | • | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | 0.07 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | 0.07 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 78 | 67 | 75 | 75 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 102 | 98 | 88 | 63 |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |



| Client Sample ID | | | TP3-0-0.3 | TP3-1.5-1.6 | TP4-0-0.3 | TP4-0.7-1.0 |
|------------------------------|-----|-------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009177 | S22- Ap0009178 | S22- Ap0009179 | S22- Ap0009180 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 78 | 67 | 75 | 75 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 102 | 98 | 88 | 63 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 5.3 | 5.4 | 11 | 7.6 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 18 | 29 | 24 | 21 |
| Copper | 5 | mg/kg | 7.2 | 13 | 12 | 7.8 |
| Lead | 5 | mg/kg | 22 | 11 | 24 | 34 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | < 5 | < 5 | 6.7 |
| Zinc | 5 | mg/kg | 29 | 16 | 13 | 17 |
| | | | | | | |
| % Moisture | 1 | % | 10 | 15 | 16 | 16 |

| Client Sample ID | | | TP4-1.5-1.7 | TP5-0.2-0.3 |
|---------------------------------------|-----|-------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009181 | S22- Ap0009182 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | |
| Total Recoverable Hydrocarbons | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)N04 | 20 | mg/kg | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)N01 | 50 | mg/kg | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 |
| ВТЕХ | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 121 | 132 |



| Client Sample ID | | | TP4-1.5-1.7 | TP5-0.2-0.3 |
|---------------------------------------|------|----------------|-----------------------------------------|-------------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009181 | S22- Ap0009182 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | , , , , , , , , , , , , , , , , , , , , | 7.00, 2022 |
| Polycyclic Aromatic Hydrocarbons | LOI | Offic | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | ma/ka | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (nedium bound) * | 0.5 | mg/kg mg/kg | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (inediam bound) * | 0.5 | mg/kg | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 72 | 122 |
| p-Terphenyl-d14 (surr.) | 1 | % | 78 | 110 |
| Organochlorine Pesticides | | 70 | | 110 |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 60 | 105 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 88 | 133 |



| Client Sample ID | | | TP4-1.5-1.7 | TP5-0.2-0.3 |
|------------------------------|-----|-------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009181 | S22- Ap0009182 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | |
| Polychlorinated Biphenyls | · | • | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 60 | 105 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 88 | 133 |
| Heavy Metals | | | | |
| Arsenic | 2 | mg/kg | 3.1 | 5.4 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 22 | 21 |
| Copper | 5 | mg/kg | 8.3 | 5.3 |
| Lead | 5 | mg/kg | 5.7 | 16 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | < 5 |
| Zinc | 5 | mg/kg | 8.1 | 16 |
| * | | | | |
| % Moisture | 1 | % | 12 | 10 |



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|----------------------------------------------------------------------|--------------|--------------|--------------|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | Sydney | Apr 08, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Apr 08, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Apr 08, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Sydney | Apr 08, 2022 | 14 Days |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH | | | |
| Polycyclic Aromatic Hydrocarbons | Sydney | Apr 08, 2022 | 14 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |
| Organochlorine Pesticides | Sydney | Apr 08, 2022 | 14 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Polychlorinated Biphenyls | Sydney | Apr 08, 2022 | 28 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Metals M8 | Sydney | Apr 08, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| % Moisture | Sydney | Apr 05, 2022 | 14 Days |
| | | | |



Eurofins Environment Testing Australia Pty Ltd

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ABN: 50 005 085 521

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Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 18217 NATA # 1261 Site # 20794

Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone: +61 2 4968 8448 NATA # 1261 Site # 25079

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46-48 Banksia Road

Welshpool WA 6106

Perth

Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone: +61 8 6253 4444 Phone: +64 9 526 45 51 NATA # 2377 Site # 2370 IANZ # 1327

Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone: 0800 856 450 IANZ # 1290

email: EnviroSales@eurofins.com

web: www.eurofins.com.au

Company Name:

Alliance Geotechnical

10 Welder Road Seven Hills

NSW 2147

Project Name:

Address:

MACQUARIE PARK

Order No.: Report #:

AN Z Z

877420

Phone: 1800 288 188

02 9675 1888 Fax:

Received: Apr 5, 2022 11:30 AM Due: Apr 11, 2022

Priority: 3 Day

Contact Name: Michael Dunesky

Eurofins Analytical Services Manager: Andrew Black

NZBN: 9429046024954

| | | Asbestos Absence /Presence | HOLD | Moisture Set | 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb | | | | |
|------|----------------|-------------------------------------------|------------------|--------------|--------------------------------|--|--|---|---|
| Melk | ourne Laborat | | | | | | | | |
| | ney Laboratory | X | Х | Х | Х | | | | |
| | | ry - NATA # 1261 | | | | | | | |
| _ | | <u>y - NATA # 1261</u> NATA # 2377 Sit | | | | | | | |
| | rnal Laborator | | .c # 2510 | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | |
| 1 | TP1-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009173 | | | Х | х |
| 2 | TP1-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009174 | | | Х | х |
| 3 | TP2-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009175 | | | Х | х |
| 4 | TP2-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009176 | | | Х | х |
| 5 | TP3-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009177 | | | Х | х |
| 6 | TP3-1.5-1.6 | Apr 05, 2022 | | Soil | S22- Ap0009178 | | | Х | х |



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Perth

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Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone: 0800 856 450

IANZ # 1290

Company Name:

Address:

web: www.eurofins.com.au

email: EnviroSales@eurofins.com

Alliance Geotechnical

10 Welder Road Seven Hills

NSW 2147

Project Name:

MACQUARIE PARK

Order No.: Report #:

Sydney

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Phone: +61 2 9900 8400

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Phone: 1800 288 188 Fax:

02 9675 1888

Received: Apr 5, 2022 11:30 AM Due: Apr 11, 2022

Priority: 3 Day

Michael Dunesky **Contact Name:**

Eurofins Analytical Services Manager: Andrew Black

NZBN: 9429046024954

Penrose, Auckland 1061

Auckland

35 O'Rorke Road

| | | Asbestos Absence /Presence | HOLD | Moisture Set | Alliance WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb | | | | |
|------|-----------------|----------------------------|---------------|-----------------------|------------------------------------------------------|---|---|---|---------|
| Mel | bourne Labora | | | | | | | | |
| Syd | ney Laboratory | Х | Х | Х | Х | | | | |
| Bris | sbane Laborato | ry - NATA # 126 | 1 Site # 2079 | 4 | | | | | |
| | | ry - NATA # 1261 | | | | | | | |
| | | NATA # 2377 Si | te # 2370 | | | | | | \perp |
| | ernal Laborator | 1 | 1 | I | | | | | \perp |
| 7 | TP4-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009179 | | | Х | Х |
| 8 | TP4-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009180 | | | Х | Х |
| 9 | TP4-1.5-1.7 | Apr 05, 2022 | | Soil | S22- Ap0009181 | | | Х | х |
| 10 | TP5-0.2-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009182 | | | Х | х |
| 11 | TP3-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009183 | | Х | | |
| 12 | TP3-1.8-2.0 | Apr 05, 2022 | | Soil | S22- Ap0009184 | | Х | | |
| 13 | TP4-FRAG | Apr 05, 2022 | | Building Materials | S22- Ap0009185 | Х | | | |



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Alliance Geotechnical

Address: 10 Welder Road

Seven Hills

NSW 2147

Project Name:

MACQUARIE PARK

Order No.: Report #:

Sydney

877420

Phone: 1800 288 188

02 9675 1888 Fax:

Received: Apr 5, 2022 11:30 AM Due: Apr 11, 2022

Priority: 3 Day

Michael Dunesky **Contact Name:**

Eurofins Analytical Services Manager: Andrew Black

| Sample Detail | Asbestos Absence /Presence | HOLD | Moisture Set | Alliance WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb |
|------------------------------------------------|----------------------------|------|--------------|------------------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | |
| Sydney Laboratory - NATA # 1261 Site # 18217 | Х | Х | Х | Х |
| Brisbane Laboratory - NATA # 1261 Site # 20794 | | | | |
| Mayfield Laboratory - NATA # 1261 Site # 25079 | | | | |
| Perth Laboratory - NATA # 2377 Site # 2370 | | | | |
| External Laboratory | | | | |
| Test Counts | 1 | 2 | 10 | 10 |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise
- 7. Samples were analysed on an 'as received' basis
- 8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- 9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/k: milligrams per kilogram mg/L: milligrams per litre $\mu g/L$: micrograms per litre

ppm: parts per million **ppb**: parts per billion
%: Percentage

org/100 mL: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA American Public Health Association

COC Chain of Custody

CP Client Parent - QC was performed on samples pertaining to this report

CRM Certified Reference Material (ISO17034) - reported as percent recovery.

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

LOR Limit of Reporting.

Laboratory Control Sample - reported as percent recovery.

Method Blank In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.

NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.

RPD Relative Percent Difference between two Duplicate pieces of analysis.

SPIKE Addition of the analyte to the sample and reported as percentage recovery

SRA Sample Receipt Advice

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery.

TBTO Tributyltin oxide (bis-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured

and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.

TCLP Toxicity Characteristic Leaching Procedure
TEQ Toxic Equivalency Quotient or Total Equivalence

QSM US Department of Defense Quality Systems Manual Version 5.4

US EPA United States Environmental Protection Agency

WA DWER Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30% NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data

Eurofins Environment Testing 179 Magowar Road, Girraween NSW, Australia, 2066 ABN: 50 005 085 521 Telephone: +61 2 9900 8400



Quality Control Results

| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|---------|--------------|----------------------|----------------|--------------------|
| Method Blank | | | | | |
| Total Recoverable Hydrocarbons | | | | | |
| TRH C10-C14 | mg/kg | < 20 | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | 50 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | 100 | Pass | |
| Method Blank | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | 0.5 | Pass | |
| Method Blank | ilig/kg | V 0.0 | 0.0 | 1 400 | |
| Organochlorine Pesticides | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | 0.05 | Pass | |
| a-HCH | mg/kg | < 0.05 | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | 0.05 | Pass | |
| b-HCH | mg/kg | < 0.05 | 0.05 | Pass | |
| d-HCH | mg/kg | < 0.05 | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | 0.05 | Pass | |
| Endosulfan I | | | 0.05 | Pass | |
| | mg/kg | < 0.05 | | | |
| Endosulfan sulphata | mg/kg | < 0.05 | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | 0.5 | Pass | |
| Method Blank | | | | | |
| Polychlorinated Biphenyls | 1 | | | | |
| Aroclor-1016 | mg/kg | < 0.1 | 0.1 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|-------|----------|----------------------|----------------|--------------------|
| Aroclor-1221 | mg/kg | < 0.1 | 0.1 | Pass | |
| Aroclor-1232 | mg/kg | < 0.1 | 0.1 | Pass | |
| Aroclor-1242 | mg/kg | < 0.1 | 0.1 | Pass | |
| Aroclor-1248 | mg/kg | < 0.1 | 0.1 | Pass | |
| Aroclor-1254 | mg/kg | < 0.1 | 0.1 | Pass | |
| Aroclor-1260 | mg/kg | < 0.1 | 0.1 | Pass | |
| Total PCB* | mg/kg | < 0.1 | 0.1 | Pass | |
| Method Blank | | | | | |
| Heavy Metals | | | | | |
| Arsenic | mg/kg | < 2 | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | 5 | Pass | |
| Copper | mg/kg | < 5 | 5 | Pass | |
| Lead | mg/kg | < 5 | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | 5 | Pass | |
| | | | | Pass | |
| Zinc | mg/kg | < 5 | 5 | Pass | |
| LCS - % Recovery | | | | | |
| Total Recoverable Hydrocarbons | 0/ | 96 | 70.400 | D | |
| TRH C10-C14 | % | 86 | 70-130 | Pass | |
| TRH >C10-C16 | % | 83 | 70-130 | Pass | |
| LCS - % Recovery | | T T | T | | |
| Polycyclic Aromatic Hydrocarbons | | | | _ | |
| Acenaphthene | % | 100 | 70-130 | Pass | |
| Acenaphthylene | % | 96 | 70-130 | Pass | |
| Anthracene | % | 79 | 70-130 | Pass | |
| Benz(a)anthracene | % | 102 | 70-130 | Pass | |
| Benzo(a)pyrene | % | 101 | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 126 | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 98 | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 113 | 70-130 | Pass | |
| Chrysene | % | 72 | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 98 | 70-130 | Pass | |
| Fluoranthene | % | 97 | 70-130 | Pass | |
| Fluorene | % | 104 | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 96 | 70-130 | Pass | |
| Naphthalene | % | 96 | 70-130 | Pass | |
| Phenanthrene | % | 120 | 70-130 | Pass | |
| Pyrene | % | 98 | 70-130 | Pass | |
| LCS - % Recovery | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes - Total | % | 84 | 70-130 | Pass | |
| 4.4'-DDD | % | 111 | 70-130 | Pass | |
| 4.4'-DDE | % | 91 | 70-130 | Pass | |
| 4.4'-DDT | % | 93 | 70-130 | Pass | |
| a-HCH | % | 85 | 70-130 | Pass | |
| Aldrin | % | 90 | 70-130 | Pass | |
| b-HCH | % | 90 | 70-130 | Pass | |
| d-HCH | % | 102 | 70-130 | Pass | |
| Dieldrin | % | 87 | 70-130 | Pass | |
| Endosulfan I | % | 90 | 70-130 | Pass | |
| Endosulfan II | % | 77 | 70-130 | Pass | |
| | | 81 | 70-130 | Pass | |
| Endosulfan sulphate | % | | | | |



| Test | Test | | | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------------|--------------------------------|--------------|-------|------------|----------|----------------------|----------------|--------------------|
| Endrin aldehyde | | | % | 84 | | 70-130 | Pass | |
| Endrin ketone | | | % | 80 | | 70-130 | Pass | |
| g-HCH (Lindane) | | | % | 83 | | 70-130 | Pass | |
| Heptachlor | | | % | 102 | | 70-130 | Pass | |
| Heptachlor epoxide | | | % | 88 | | 70-130 | Pass | |
| Hexachlorobenzene | Hexachlorobenzene | | | | | 70-130 | Pass | |
| Methoxychlor | | | % | 93 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | , | <u>'</u> | | |
| Polychlorinated Biphenyls | | | | | | | | |
| Aroclor-1016 | | | % | 83 | | 70-130 | Pass | |
| Aroclor-1260 | | | % | 84 | | 70-130 | Pass | |
| LCS - % Recovery | | | ,,, | <u> </u> | | 10 100 | | |
| Heavy Metals | | | | | | Τ | | |
| Arsenic | | | % | 97 | | 80-120 | Pass | |
| Cadmium | | | % | 100 | | 80-120 | Pass | |
| Chromium | | | % | 99 | | 80-120 | Pass | |
| | | | | | | | | |
| Copper | | | % | 98 | | 80-120 | Pass | |
| Lead | | | % | 98 | | 80-120 | Pass | |
| Mercury | | | % | 102 | | 80-120 | Pass | |
| Nickel | | | % | 101 | | 80-120 | Pass | |
| Zinc | | | % | 99 | | 80-120 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | |
| Total Recoverable Hydrocarbons | | | | Result 1 | | | | |
| TRH C6-C9 | S22-Ap0019946 | NCP | % | 91 | | 70-130 | Pass | |
| TRH C10-C14 | S22-Ap0009176 | CP | % | 86 | | 70-130 | Pass | |
| Naphthalene | S22-Ap0019946 | NCP | % | 105 | | 70-130 | Pass | |
| TRH C6-C10 | S22-Ap0019946 | NCP | % | 89 | | 70-130 | Pass | |
| TRH >C10-C16 | S22-Ap0009176 | CP | % | 83 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| BTEX | | | | Result 1 | | | | |
| Benzene | S22-Ap0019946 | NCP | % | 100 | | 70-130 | Pass | |
| Toluene | S22-Ap0019946 | NCP | % | 80 | | 70-130 | Pass | |
| Ethylbenzene | S22-Ap0019946 | NCP | % | 75 | | 70-130 | Pass | |
| m&p-Xylenes | S22-Ap0019946 | NCP | % | 82 | | 70-130 | Pass | |
| o-Xylene | S22-Ap0019946 | NCP | % | 83 | | 70-130 | Pass | |
| Xylenes - Total* | S22-Ap0019946 | NCP | % | 82 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | <u> </u> | | | |
| Polycyclic Aromatic Hydrocarbon | s | | | Result 1 | | | | |
| Acenaphthene | S22-Ap0015368 | NCP | % | 106 | | 70-130 | Pass | |
| Acenaphthylene | S22-Ap0015368 | NCP | % | 123 | | 70-130 | Pass | |
| Anthracene | S22-Ap0015368 | NCP | % | 110 | | 70-130 | Pass | |
| Benz(a)anthracene | S22-Ap0001091 | NCP | % | 125 | | 70-130 | Pass | |
| Benzo(a)pyrene | S22-Ap0001031 | NCP | % | 129 | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | S22-Ap0015368 | NCP | % | 130 | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | S22-Ap0015368 | NCP | % | 129 | | 70-130 | Pass | |
| Benzo(k)fluoranthene | S22-Ap0015368 | NCP | % | 114 | | 70-130 | Pass | |
| Chrysene | S22-Ap0015368 | NCP | % | 116 | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | S22-Ap0015368 | NCP | % | 128 | | 70-130 | | |
| Fluoranthene | S22-Ap0015368 | NCP | % | 119 | | 70-130 | Pass | |
| | | | | | | | Pass | |
| Fluorene | S22-Ap0015368 | NCP | % | 128 | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | S22-Ap0015368 | NCP | % | 124 | | 70-130 | Pass | |
| ' | · · | | | | | | | |
| Naphthalene Phenanthrene | S22-Ap0015368 S22-Ap0001091 | NCP NCP | % | 122 119 | | 70-130 70-130 | Pass Pass | |



| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------|--------------------|--------------|-------|----------|----------|-----|----------------------|----------------|--------------------|
| Pyrene | S22-Ap0015368 | NCP | % | 121 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | | |
| Chlordanes - Total | S22-Ap0015368 | NCP | % | 103 | | | 70-130 | Pass | |
| 4.4'-DDD | S22-Ap0015368 | NCP | % | 109 | | | 70-130 | Pass | |
| 4.4'-DDE | S22-Ap0015368 | NCP | % | 108 | | | 70-130 | Pass | |
| 4.4'-DDT | S22-Ap0015368 | NCP | % | 115 | | | 70-130 | Pass | |
| a-HCH | S22-Ap0015368 | NCP | % | 102 | | | 70-130 | Pass | |
| Aldrin | S22-Ap0015368 | NCP | % | 109 | | | 70-130 | Pass | |
| b-HCH | S22-Ap0015368 | NCP | % | 104 | | | 70-130 | Pass | |
| d-HCH | S22-Ap0015368 | NCP | % | 108 | | | 70-130 | Pass | |
| Dieldrin | S22-Ap0015368 | NCP | % | 104 | | | 70-130 | Pass | |
| Endosulfan I | S22-Ap0015368 | NCP | % | 105 | | | 70-130 | Pass | |
| Endosulfan II | S22-Ap0015368 | NCP | % | 102 | | | 70-130 | Pass | |
| Endosulfan sulphate | S22-Ap0015368 | NCP | % | 100 | | | 70-130 | Pass | |
| Endrin | S22-Ap0015368 | NCP | % | 116 | | | 70-130 | Pass | |
| Endrin aldehyde | S22-Ap0015368 | NCP | % | 97 | | | 70-130 | Pass | |
| Endrin ketone | S22-Ap0015368 | NCP | % | 101 | | | 70-130 | Pass | |
| g-HCH (Lindane) | S22-Ap0015368 | NCP | % | 107 | | | 70-130 | Pass | |
| Heptachlor | S22-Ap0015368 | NCP | % | 122 | | | 70-130 | Pass | |
| Heptachlor epoxide | S22-Ap0015368 | NCP | % | 106 | | | 70-130 | Pass | |
| Hexachlorobenzene | S22-Ap0015368 | NCP | % | 111 | | | 70-130 | Pass | |
| Methoxychlor | S22-Ap0015368 | NCP | % | 94 | | | 70-130 | Pass | |
| Spike - % Recovery | 1 022 7 1000 10000 | 110. | 70 | <u> </u> | | | 70 100 | 1 400 | |
| Polychlorinated Biphenyls | | | | Result 1 | | | | | |
| Aroclor-1016 | S22-Ap0015368 | NCP | % | 96 | | | 70-130 | Pass | |
| Aroclor-1260 | S22-Ap0015368 | NCP | % | 103 | | | 70-130 | Pass | |
| | | QA | | | | | Acceptance | Pass | Qualifying |
| Test | Lab Sample ID | Source | Units | Result 1 | | | Limits | Limits | Code |
| Duplicate | | | | I | 1 | | 1 | | |
| Total Recoverable Hydrocarbons | | 1 | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | S22-Ap0009174 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| Naphthalene | S22-Ap0009174 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| TRH C6-C10 | S22-Ap0009174 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| Duplicate | | | | i | | | | | |
| BTEX | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S22-Ap0009174 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | S22-Ap0009174 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | S22-Ap0009174 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | S22-Ap0009174 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | S22-Ap0009174 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | S22-Ap0009174 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Total Recoverable Hydrocarbons | | | | Result 1 | Result 2 | RPD | | | |
| TRH C10-C14 | S22-Ap0009175 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C15-C28 | S22-Ap0009175 | СР | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH C29-C36 | S22-Ap0009175 | СР | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| TRH >C10-C16 | S22-Ap0009175 | СР | mg/kg | < 50 | < 50 | <1 | 30% | Pass | |
| | | | | | | | | | T |
| TRH >C16-C34 | S22-Ap0009175 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |



| Duplicate | | | | | | | | | |
|---------------------------------------|---------------|-----|-------|----------|----------|--------------------|-----|------|--|
| Polycyclic Aromatic Hydrocark | none | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| . , | S22-Ap0004807 | NCP | | < 0.5 | < 0.5 | <u><1</u> | 30% | Pass | |
| Benzo(a)pyrene Benzo(b&j)fluoranthene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <u><1</u> | 30% | Pass | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | S22-Ap0004807 | NCP | mg/kg | | 1 | <u><1</u> | | Pass | |
| Benzo(g.h.i)perylene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <u><1</u> <1 | 30% | | |
| Benzo(k)fluoranthene | <u>'</u> | | mg/kg | < 0.5 | < 0.5 | | 30% | Pass | |
| Chrysene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a.h)anthracene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1.2.3-cd)pyrene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Duplicate | | | | I | | | ı | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Polychlorinated Biphenyls | | | | Result 1 | Result 2 | RPD | | | |
| Aroclor-1016 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1221 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1232 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1242 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1248 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1254 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1260 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Total PCB* | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |



| Duplicate | | | | | | | | | | | |
|--------------|---------------|----|-------|----------|----------|-----|-----|------|-----|--|--|
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | | | | |
| Arsenic | S22-Ap0009182 | CP | mg/kg | 5.4 | 3.2 | 52 | 30% | Fail | Q15 | | |
| Cadmium | S22-Ap0009182 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | | | |
| Chromium | S22-Ap0009182 | CP | mg/kg | 21 | 17 | 21 | 30% | Pass | | | |
| Copper | S22-Ap0009182 | CP | mg/kg | 5.3 | < 5 | 10 | 30% | Pass | | | |
| Lead | S22-Ap0009182 | CP | mg/kg | 16 | 9.4 | 50 | 30% | Fail | Q15 | | |
| Mercury | S22-Ap0009182 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | | | |
| Nickel | S22-Ap0009182 | CP | mg/kg | < 5 | < 5 | <1 | 30% | Pass | | | |
| Zinc | S22-Ap0009182 | CP | mg/kg | 16 | 12 | 33 | 30% | Fail | Q15 | | |
| Duplicate | | | | | | | | | | | |
| | | · | | Result 1 | Result 2 | RPD | | | | | |
| % Moisture | S22-Ap0009182 | CP | % | 10 | 10 | 1.0 | 30% | Pass | · | | |



Comments

Sample Integrity

Custody Seals Intact (if used) N/A Attempt to Chill was evident Yes Sample correctly preserved Yes Appropriate sample containers have been used Yes Sample containers for volatile analysis received with minimal headspace Yes Samples received within HoldingTime Yes Some samples have been subcontracted No

Qualifier Codes/Comments

Code Description

F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).

N01

Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.

F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. N04

Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs N07

Q15 The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

N02

Hannah Mawbey Analytical Services Manager Gabriele Cordero Senior Analyst (NSW) Chamath JHM Annakkage Senior Analyst (NSW)

Glenn Jackson **General Manager**

Final Report - this report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

Environment Testing

Alliance Geotechnical 10 Welder Road Seven Hills NSW 2147





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025—Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: Michael Dunesky

Report 877420-AID

Project Name MACQUARIE PARK

Received Date Apr 05, 2022 Date Reported Apr 12, 2022

Methodology:

Asbestos Fibre

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion

staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

independent technique.

Subsampling Soil Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a subsampling routine based on ISO 3082:2009(E) is employed.

sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestoscontaining material (ACM) The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 %" and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.



Project Name

MACQUARIE PARK

Project ID

Date SampledApr 05, 2022Report877420-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|------------------|------------------------|--------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| TP1-0-0.3 | 22-Ap0009173 | Apr 05, 2022 | Approximate Sample 337g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP1-0.7-1.0 | 22-Ap0009174 | Apr 05, 2022 | Approximate Sample 459g Sample consisted of: Brown coarse-grained sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP2-0-0.3 | 22-Ap0009175 | Apr 05, 2022 | Approximate Sample 484g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP2-0.7-1.0 | 22-Ap0009176 | Apr 05, 2022 | Approximate Sample 380g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP3-0-0.3 | 22-Ap0009177 | Apr 05, 2022 | Approximate Sample 498g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP3-1.5-1.6 | 22-Ap0009178 | Apr 05, 2022 | Approximate Sample 481g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP4-0-0.3 | 22-Ap0009179 | Apr 05, 2022 | Approximate Sample 391g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP4-0.7-1.0 | 22-Ap0009180 | Apr 05, 2022 | Approximate Sample 516g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |



| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|------------------|------------------------|--------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| TP4-1.5-1.7 | 22-Ap0009181 | Apr 05, 2022 | Approximate Sample 392g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP5-0.2-0.3 | 22-Ap0009182 | Apr 05, 2022 | Approximate Sample 469g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP4-FRAG | 22-Ap0009185 | Apr 05, 2022 | Approximate Sample 19g / 65x30x4mm Sample consisted of: Grey compressed fibre cement material | Chrysotile asbestos detected. |



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|-------------------------|--------------|--------------|--------------|
| Asbestos - LTM-ASB-8020 | Sydney | Apr 05, 2022 | Indefinite |
| Asbestos - LTM-ASB-8020 | Sydney | Apr 05, 2022 | Indefinite |



Eurofins Environment Testing Australia Pty Ltd

Asbe

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Sydney

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Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone: +61 2 4968 8448 NATA # 1261 Site # 25079

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NATA # 2377 Site # 2370

Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone: +64 9 526 45 51 IANZ # 1327

Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone: 0800 856 450 IANZ # 1290

Company Name:

email: EnviroSales@eurofins.com

web: www.eurofins.com.au

Alliance Geotechnical

10 Welder Road

Seven Hills

NSW 2147

Project Name:

Address:

MACQUARIE PARK

Order No.: Report #:

877420

Phone: 1800 288 188

02 9675 1888 Fax:

Received: Apr 5, 2022 11:30 AM Due:

Apr 11, 2022 **Priority:** 3 Day

Contact Name: Michael Dunesky

Eurofins Analytical Services Manager: Andrew Black

| | | Sa | mple Detail | | | estos Absence /Presence | _D | sture Set | RH/BTEXN/PAH/M8/OCP/PCB/Asb |
|------------------------------------------------|-------------|-----------------|------------------|--------|-------------------|-------------------------|----|-----------|-----------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | | | | | | |
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | | Х | Х | Х | Х |
| Brisbane Laboratory - NATA # 1261 Site # 20794 | | | | | | | | | \vdash |
| | | / - NATA # 1261 | | | | | | | - |
| | | NATA # 2377 Sit | e # 2370 | | | | | | - |
| External Laboratory | | | | | | | | \vdash | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | |
| 1 | TP1-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009173 | | | Х | Х |
| 2 | TP1-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009174 | | | Х | х |
| 3 | TP2-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009175 | | | Х | х |
| 4 | TP2-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009176 | | | Х | х |
| 5 | TP3-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009177 | | | Х | х |
| 6 | TP3-1.5-1.6 | Apr 05, 2022 | | Soil | S22- Ap0009178 | | | Х | х |



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Sydney

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Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone: +61 2 4968 8448 NATA # 1261 Site # 25079

ABN: 91 05 0159 898 Perth 46-48 Banksia Road Welshpool WA 6106

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Auckland Christchurch 35 O'Rorke Road 43 Detroit Drive Rolleston, Christchurch 7675 Penrose, Auckland 1061 Phone: +64 9 526 45 51 Phone: 0800 856 450 IANZ # 1327 IANZ # 1290

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web: www.eurofins.com.au

Alliance Geotechnical

10 Welder Road Seven Hills

NSW 2147

Project Name:

Address:

MACQUARIE PARK

Order No.: Report #:

877420

Phone: 1800 288 188 02 9675 1888 Fax:

Received: Apr 5, 2022 11:30 AM Due: Apr 11, 2022

Priority: 3 Day

Contact Name: Michael Dunesky

Eurofins Analytical Services Manager: Andrew Black

| Sample Detail | | | | | | Asbestos Absence /Presence | HOLD | Moisture Set | Alliance WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb |
|------------------------------------------------|----------------|--------------|---|-----------------------|-------------------|----------------------------|------|--------------|------------------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | | | | | | |
| Sydney Laboratory - NATA # 1261 Site # 18217 | | | | | Х | Х | Х | X | |
| Brisbane Laboratory - NATA # 1261 Site # 20794 | | | | | | | | | |
| Mayfield Laboratory - NATA # 1261 Site # 25079 | | | | | | | | | |
| Perth Laboratory - NATA # 2377 Site # 2370 | | | | | | | | | |
| | rnal Laborator | * | 1 | | | | | | |
| 7 | TP4-0-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009179 | | | Х | Х |
| 8 | TP4-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009180 | | | Х | х |
| 9 | TP4-1.5-1.7 | Apr 05, 2022 | | Soil | S22- Ap0009181 | | | Х | х |
| 10 | TP5-0.2-0.3 | Apr 05, 2022 | | Soil | S22- Ap0009182 | | | Х | х |
| 11 | TP3-0.7-1.0 | Apr 05, 2022 | | Soil | S22- Ap0009183 | | Х | | |
| 12 | TP3-1.8-2.0 | Apr 05, 2022 | | Soil | S22- Ap0009184 | | Х | | |
| 13 | TP4-FRAG | Apr 05, 2022 | | Building Materials | S22- Ap0009185 | Х | | | |



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Alliance Geotechnical

Address:

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10 Welder Road Seven Hills

NSW 2147

Project Name:

MACQUARIE PARK

Order No.: Report #:

Phone:

_ _ _ _ _ _

877420

1800 288 188

02 9675 1888 Fax:

Received: Apr 5, 2022 11:30 AM Due: Apr 11, 2022

Priority: 3 Day

Contact Name: Michael Dunesky

Eurofins Analytical Services Manager: Andrew Black

IANZ # 1327

| Sample Detail | Asbestos Absence /Presence | HOLD | Moisture Set | Alliance WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb |
|------------------------------------------------|----------------------------|------|--------------|------------------------------------------------------|
| Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | |
| Sydney Laboratory - NATA # 1261 Site # 18217 | Χ | Х | Х | Х |
| Brisbane Laboratory - NATA # 1261 Site # 20794 | | | | |
| Mayfield Laboratory - NATA # 1261 Site # 25079 | | | | |
| Perth Laboratory - NATA # 2377 Site # 2370 | | | | |
| External Laboratory | | | | |
| Test Counts | 1 | 2 | 10 | 10 |
| | | | | |



Internal Quality Control Review and Glossary General

- QC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated
- 3 Samples were analysed on an 'as received' basis.
- Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results Information identified on this report with the colour orange indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
- 6 This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w) % w/w:

F/fld

Airborne fibre filter loading as Fibres (N) per Fields counted (n)
Airborne fibre reported concentration as Fibres per millillitre of air drawn over the sampler membrane (C) F/mL

Mass, e.g. of whole sample (\mathbf{M}) or asbestos-containing find within the sample (\mathbf{m}) Concentration in grams per kilogram g, kg

g/kg L. mL

Volume, e.g. of air as measured in AFM (V = r x t)
Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) L/min

Time (t), e.g. of air sample collection period min

Calculations

 $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{p}\right) \times \left(\frac{1}{p}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{p}\right) \times \left(\frac{1}{p}\right)$ Airborne Fibre Concentration:

Asbestos Content (as asbestos): $\% w/w = \frac{(m \times P_A)}{M}$ Weighted Average (of asbestos): $\%_{WA} = \sum_{r} \frac{(m \times P_A)_x}{r}$

Terms

Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 Appendix 2, else assumed to be 15% in accordance with WA DOH Appendix 2 (P_A). %asbestos

ACM Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the

NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.

Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable AF

material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable"

AFM Airborne Fibre Monitoring, e.g. by the MFM.

Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. Amosite

AS Australian Standard.

Asbestos Content (as asbestos) Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w)

Chrysotile Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004

COC

Crocidolite Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.

Dry Sample is dried by heating prior to analysis.

DS Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.

Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become FA

friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.

Fibre Count Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003

Fibre ID Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.

Friable Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.

HSG248 UK HSE HSG248, Asbestos: The Analysts Guide, 2nd Edition (2021). HSG264 UK HSE HSG264, Asbestos: The Survey Guide (2012).

ISO (also ISO/IEC) International Organization for Standardization / International Electrotechnical Commission.

Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece K Factor

graticule area of the specific microscope used for the analysis (a).

Limit of Reporting. LOR

MFM (also NOHSC:3003) Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, Guidance Note on the Membrane

Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003(2005)].

NEPM (also ASC NEPM) National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. Organic

PCM Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.

ы м Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.

Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. SMF

SRA Sample Receipt Advice

Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. Trace Analysis

UK HSE HSG United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication,

UMF Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004.

Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%wa).

May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos

WA DOH Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis

First Reported: Apr 11, 2022 Date Reported: Apr 12, 2022

Weighted Average

Eurofins Environment Testing 179 Magowar Road, Girraween NSW, Australia, 2066 ABN: 50 005 085 521 Telephone: +61 2 9900 8400

Page 8 of 9 Report Number: 877420-AID

Comments

Sample Integrity

| Custody Seals Intact (if used) | N/A |
|-------------------------------------------------------------------------|-----|
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

Asbestos Counter/Identifier:

Sayeed Abu Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage Senior Analyst-Asbestos (NSW)

Glenn Jackson General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



Alliance Geotechnical 10 Welder Road Seven Hills NSW 2147





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: Michael Dunesky

Report 879642-L

Project name ADDITIONAL- MACQUARIE PARK

Received Date Apr 12, 2022

| Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled | | | TP2-0-0.3 US Leachate S22- Ap0026860 Apr 05, 2022 |
|-----------------------------------------------------------------|------|----------|---------------------------------------------------------------|
| Test/Reference | LOR | Unit | |
| Heavy Metals | | | |
| Lead | 0.01 | mg/L | < 0.01 |
| USA Leaching Procedure | | | |
| Leachate Fluid ^{C01} | | comment | 1.0 |
| pH (initial) | 0.1 | pH Units | 5.4 |
| pH (off) | 0.1 | pH Units | 5.1 |
| pH (USA HCI addition) | 0.1 | pH Units | 2.3 |

Report Number: 879642-L



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|----------------------------------------------------------------------|--------------|--------------|---------------------|
| Heavy Metals | Sydney | Apr 12, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| USA Leaching Procedure | Sydney | Apr 12, 2022 | 14 Days |

Report Number: 879642-L



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

Sydney

| = | = |

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Phone: +61 8 6253 4444

Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone: +64 9 526 45 51 NATA # 2377 Site # 2370 IANZ # 1327

Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone: 0800 856 450 IANZ # 1290

Company Name:

email: EnviroSales@eurofins.com

web: www.eurofins.com.au

Alliance Geotechnical

10 Welder Road Seven Hills

NSW 2147

Project Name:

Address:

ADDITIONAL- MACQUARIE PARK

Order No.: Report #:

879642 1800 288 188

Phone: Fax:

02 9675 1888

Received: Apr 12, 2022 10:05 PM Due:

Apr 13, 2022 Priority: 1 Day

Contact Name: Michael Dunesky

Eurofins Analytical Services Manager: Andrew Black

| Sample Detail Melbourne Laboratory - NATA # 1261 Site # 1254 | | | | | | | | | | |
|---------------------------------------------------------------|------------------|-----------------|------------------|-------------|-------------------|---|---|--|--|--|
| Melb | ourne Laborato | ory - NATA # 12 | 61 Site # 125 | 4 | | | | | | |
| Sydr | ney Laboratory | NATA # 1261 | Site # 18217 | | | Х | Х | | | |
| Brisl | oane Laboratory | / - NATA # 1261 | Site # 20794 | ļ | | | | | | |
| May | ield Laboratory | - NATA # 1261 | Site # 25079 | | | | | | | |
| Pertl | n Laboratory - N | IATA # 2377 Sit | e # 2370 | | | | | | | |
| Exte | rnal Laboratory | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | | |
| 1 | TP2-0-0.3 | Apr 05, 2022 | | US Leachate | S22- Ap0026860 | Х | Х | | | |
| Test Counts | | | | | | | | | | |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- 9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/k: milligrams per kilogram mg/k: milligrams per litre $\mu g/k$: micrograms per litre

org/100 mL: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA American Public Health Association

COC Chain of Custody

CP Client Parent - QC was performed on samples pertaining to this report

CRM Certified Reference Material (ISO17034) - reported as percent recovery.

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis.

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

LOR Limit of Reporting.

Laboratory Control Sample - reported as percent recovery.

Method Blank In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.

NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.

RPD Relative Percent Difference between two Duplicate pieces of analysis.

SPIKE Addition of the analyte to the sample and reported as percentage recovery

SRA Sample Receipt Advice

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery.

TBTO Tributyltin oxide (bis-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured

and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.

TCLP Toxicity Characteristic Leaching Procedure
TEQ Toxic Equivalency Quotient or Total Equivalence

QSM US Department of Defense Quality Systems Manual Version 5.4

US EPA United States Environmental Protection Agency

WA DWER Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30% NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data

Report Number: 879642-L



Environment Testing

Quality Control Results

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------|---------------|--------------|-------|----------|----------|-----|----------------------|----------------|--------------------|
| Method Blank | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Lead | | | mg/L | < 0.01 | | | 0.01 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Lead | | | % | 114 | | | 80-120 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | |
| Lead | S22-Ap0023805 | NCP | % | 101 | | | 75-125 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | | |
| Lead | S22-Ap0026637 | NCP | mg/L | 0.16 | 0.18 | 7.0 | 30% | Pass | |

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Comments

Sample Integrity

 Custody Seals Intact (if used)
 N/A

 Attempt to Chill was evident
 Yes

 Sample correctly preserved
 Yes

 Appropriate sample containers have been used
 Yes

 Sample containers for volatile analysis received with minimal headspace
 Yes

 Samples received within HoldingTime
 Yes

 Some samples have been subcontracted
 No

Qualifier Codes/Comments

Code Description

C01 Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

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Gabriele Cordero Senior Analyst (NSW)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please $\underline{\text{click here.}}$

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Ref: 15030-ER-1-1

Appendix D – Sample Data and Analytical Results Summary Table

| bled Bee | the Common of | | | | | | | | | | / | RPLOQ3 | TR10.7.20 | TR2003 | 7820.7.20 | 783003 | ABILSIE | TRACO3 | TRAO.7.20 | RA1517 | N50203 |
|-------------|------------------------------------------------------|-------|------|------------------------|------------------------|------------------------------------|------------------------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| acquarie Pa | ilts Summary irk , PAH, TRH, PCB, OCP and Asbe | stos | | | | | | | | | S22-Ap0009173 | S22-Ap0009174 | S22-Ap0009173 | S22-Ap0009176 | S22-Ap0009177 | S22-Ap0009178 | S22-Ap0009179 | S22-Ap0009180 | S22-Ap000918: | S22-Ap0009182 | S22-Ap0009183 |
| Group | Analyte | Units | PQL | GSW Criteria CT1 | RSW Criteria CT2 | GSW Criteria SCC1 / TCLP1 | RSW Criteria SCC2 / TCLP2 | DATASET AVERAGE | DATASET MINIMUM | DATASET MAXIMUM | | | | | | | | | | | |
| | Arsenic | mg/kg | 2 | 100 | 400 | 500 | 2.000 | 6.7 | <2 | 16 | < 2 | 12 | 16 | 7.7 | 5.3 | 5.4 | 11 | 7.6 | 3.1 | 5.4 | - |
| | Cadmium | mg/kg | 0.4 | 20 | 80 | 100 | 400 | 0.0 | <0.4 | 0.5 | < 0.4 | < 0.4 | 0.5 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | - |
| | Chromium | mg/kg | 5 | 100 | 400 | 1,900 | 7,600 | 19.4 | 6.4 | 39 | 6.4 | 21 | 39 | 12 | 18 | 29 | 24 | 21 | 22 | 21 | - |
| | Copper | mg/kg | 5 | | * | * | * | 11.7 | <5 | 59 | 11 | 5.4 | 59 | < 5 | 7.2 | 13 | 12 | 7.8 | 8.3 | 5.3 | - |
| Metals | Lead | mg/kg | 5 | 100 | 400 | 1,500 | 6,000 | 35.9 | 5.7 | 140 | 16 | 65 | 140 | 61 | 22 | 11 | 24 | 34 | 5.7 | 16 | - |
| | Lead (leachate) | mg/l | 0.01 | * | * | 5 | 20 | 0.0 | 0 | 0 | - | - | < 0.01 | - | - | - | - | - | | - | - |
| | Mercury | mg/kg | 0.1 | 4 | 16 | 50 | 200 | 0.0 | <0.1 | 0.1 | < 0.1 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | - |
| | Nickel | mg/kg | 5 | 40 | 160 | 1,050 | 4,200 | 1.9 | <5 | 14 | < 5 | < 5 | 14 | < 5 | < 5 | < 5 | < 5 | 6.7 | < 5 | < 5 | - |
| | Zinc | mg/kg | 5 | * | * | * | * | 60.2 | 8.1 | 470 | 33 | 39 | 470 | 21 | 29 | 16 | 13 | 17 | 8.1 | 16 | |
| | Acenaphthylene | mg/kg | 0.5 | | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Acenaphthene | mg/kg | 0.5 | | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | 205 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | Z 0.5 | < 0.5 | 205 | |
| | Anthracene | mg/kg | 0.5 | | | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| | Benz(a)anthracene | mg/kg | 0.5 | | - | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| | Benzo(a)pyrene | mg/kg | 0.5 | 0.8 | 3.2 | 10 | | 0.0 | <0.5 | <0.5 | ×0.5 | ×0.5 | 20.5 | ×0.5 | 20.5 | 20.5 | 20.5 | ×0.5 | 20.5 | ×0.5 | |
| | Benzo(a)pyrene TEQ (Low) | mg/kg | 0.5 | * | * | * | 23 | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 20.5 | >0.5 | ×0.5 | < 0.5 | |
| | Benzo(a)pyrene TEQ (Med) | mg/kg | 0.5 | | | | | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | |
| | Benzo(a)pyrene TEQ (High) | mg/kg | | • | - | • | * | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | - |
| | Benzo(b&j)fluoranthene | | 0.5 | • | | * | * | 0.0 | <0.5 | <0.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| PAHS | | mg/kg | 0.5 | • | - | • | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Benzo(g.h.i)perylene | mg/kg | 0.5 | | | * | * | | | | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Benzo(k)fluoranthene | mg/kg | 0.5 | | | * | * | 0.0 | <0.5 <0.5 | <0.5 <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Chrysene | mg/kg | 0.5 | • | | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Dibenz(a.h)anthracene | mg/kg | 0.5 | | | | | | | | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Fluoranthene | mg/kg | 0.5 | • | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Fluorene | mg/kg | 0.5 | | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Indeno(1.2.3-cd)pyrene | mg/kg | 0.5 | | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Naphthalene | mg/kg | 0.5 | | | | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Phenanthrene | mg/kg | 0.5 | * | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Pyrene | mg/kg | 0.5 | | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | Total PAH ¹ | mg/kg | 0.5 | 200 | 800 | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | DDT + DDE + DDD | mg/kg | 0.05 | | * | * | * | 0.0 | <0.05 | 0.17 | < 0.05 | 0.08 | 0.17 | 0.13 | 0.07 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| | Aldrin and Dieldrin - Total | mg/kg | 0.05 | | * | * | * | 0.0 | <0.05 | <0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| | Chlordane | mg/kg | 0.05 | | * | * | * | 0.0 | <0.05 | <0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | - |
| | Endosulfan - Total | mg/kg | 0.05 | 60 | 240 | 108 | 432 | 0.0 | <0.05 | <0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| esticides | Endrin | mg/kg | 0.05 | | * | * | * | 0.0 | <0.05 | <0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| | Heptachlor | mg/kg | 0.05 | * | * | * | * | 0.0 | <0.05 | <0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| | Hexachlorobenzene | mg/kg | 0.05 | * | * | * | * | 0.0 | <0.05 | <0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| | Methoxychlor | mg/kg | 0.2 | * | * | * | * | 0.0 | <0.2 | <0.2 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | - |
| | Toxaphene | mg/kg | 0.1 | * | * | * | * | 0.0 | <0.1 | <0.1 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| PCBs | Total PCBs | mg/kg | 0.01 | 50 | 50 | 50 | 50 | 0.0 | <0.01 | <0.01 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | - |
| | Naphthalene | mg/kg | 0.5 | | * | * | * | 0.0 | <0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | - |
| | TRH C ₆ - C ₉ | mg/kg | 20 | 650 | 2600 | 650 | 2,600 | 0.0 | <20 | <20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | - |
| | TRH C ₁₀ -C ₃₆ | mg/kg | 50 | 10,000 | 40,000 | 10,000 | 40,000 | 45.5 | <50 | 230 | 76 | 230 | < 50 | < 50 | < 50 | < 50 | < 50 | 195 | < 50 | < 50 | - |
| | Benzene | mg/kg | 0.1 | 10 | 40 | 18 | 72 | 0.0 | <0.1 | <0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | - |
| RH/BTEX | Ethylbenzene | mg/kg | 0.1 | 600 | 2400 | 1,080 | 4,320 | 0.0 | <0.1 | <0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | - |
| | m&p-Xylenes | mg/kg | 0.2 | * | * | * | * | 0.0 | <0.2 | <0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | - |
| | o-Xylene | mg/kg | 0.1 | * | * | * | * | 0.0 | <0.1 | <0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | - 1 |
| | | mg/kg | | | 1152 | 518 | 2,073 | 0.0 | <0.1 | <0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | <0.1 | Z 0.1 | < 0.1 | < 0.1 | |
| | Toluene | | | | | | | | | | | | | | | | | | | | |
| | Toluene Xvlenes - Total | mg/kg | 0.1 | 288 1,000 | 4,000 | 1.800 | 7,200 | 0.0 | <0.3 | <0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.1 | < 0.1 | < 0.3 | |

TEQ - Toxicity Equivalent Quotient | PAH - Polycyclic Aromatic Hydrocarbons | OCPs - Organo-chiorine Pesticides | OPPs - Organo-phosphorus Pesticides | PCBs - Polychiorinated Biphenyls | ACM - Asbestos Containing Material | AF/Fa - Asbestos Fines / Fibrous Asbestos

| 1 | Total PAH is the sum of 16 USEPA priority PAHs |
|---|------------------------------------------------|
| | |

^{&#}x27;Waste Classification Guidelines' - NSW EPA 2014

Not Calculated D / ND Detect / Non-Detect Concentration exceeding General Solid Waste Criteria CT1 Concentration exceeding Restricted Solid Waste Criteria CT2 Concentration exceeding General Solid Waste Criteria SCC1 / TCLP1 Concentration exceeding Restricted Solid Waste Criteria SCC2 / TCLP2

No currently available criterion

Minimum / Maximum Value



Ref: 15030-ER-1-1

Appendix E – NSW EPA Online Public Register Search Records

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|-------------------|----------------------------------------------------------|-------------------------------|---------------------------|-------------------------------------------------|--------------|-------------|
| MACQUARIE FIELDS | Caltex Service Station | 68 Harold STREET | Service Station | Regulation under CLM Act not required | -33.98557276 | 150.893368 |
| MACQUARIE PARK | Caltex North Ryde Service Station | 41-43 Epping ROAD | Service Station | Regulation under CLM Act not required | -33.79138236 | 151.131224 |
| MACQUARIE PARK | 1-7 Waterloo Road, Macquarie Park | 1-7 Waterioo ROAD | Other Petroleum | Regulation under CLM Act not required | -33.78806877 | 151.133214 |
| MACQUARIE PARK | Porters Creek Depot - Proposed Operations Centre Site | 160 Wicks ROAD | Landfill | Regulation under CLM Act not required | -33.78581579 | 151.1367075 |
| MACQUARIE PARK | De Burghs Cycleway - Lane Cove National Park | Riverside DRIVE | Other Petroleum | Regulation under CLM Act not required | -33.77668985 | 151.13654 |
| MAITLAND | Maitland Gasworks | Charles STREET | Gasworks | Contamination currently regulated under CLM Act | -32.73603658 | 151.5578926 |
| MAITLAND | Hannan and High Street | Hannan Street and High STREET | Service Station | Regulation under CLM Act not required | -32.72731662 | 151.5515673 |
| MAITLAND | Coles Express Service Station | 235 High STREET | Service Station | Regulation under CLM Act not required | -32.73923607 | 151.5620399 |
| MALABAR | ANZAC Rifle Range former (andfill | Franklin STREET | Landfill | Regulation being finalised | -33.95792671 | 151.256637 |
| MANDALONG | Mandalong Mine | Mandalong ROAD | Other Industry | Regulation under CLM Act not required | -33.11725583 | 151.461645 |
| MANGROVE MOUNTAIN | Poultry Litter Containment Pit site | 258 Waratah ROAD | Unclassified | Regulation under CLM Act not required | -33.28917947 | 151.1672284 |
| MANIELA | Tamworth Regional Council Works Depot- Manilla | 73 River STREET | Other Petroleum | Regulation under CLM Act not required | -30,74879943 | 150.7181011 |
| MANLY | Caltex Service Station | 36 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.79306889 | 151.2858636 |
| MANLY | Open Space at end of Stuart Street (Lot 1 DP544297) | End of Stuart STREET | Gasworks | Regulation under CLM Act not required | -33.8078063 | 151.289827 |
| MANLY | St Patrick's Estate | 151 Darley ROAD | Unclassified | Regulation under CLM Act not required | -33.8044568 | 151.293859 |

List current as at 8 March 2022 69 of 129

Your search for: Suburb: MACQUARIE PARK

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

 Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.

The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).

Carefully review all sites listed.

Contamination at the site may be being managed under the planning process.

More information about particular sites may be available from:

. The POEO public register

 The appropriate planning authority: for example, on a planning certificate issued by the local council under <u>section 149 of the</u> <u>Environmental Planning and Assessment Act</u>.

See What's in the record and What's not in the record.

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register: POEO public register:

Search Again Refine Search

Search TIP

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... more search tips

Your search for: General Search with the following criteria

Suburb - maoquarie park

returned 85 results

| Export to ex | <u>cel</u> | 1 of 5 Pages | | [| Search Again |
|----------------|--------------|--------------------------------------------|----------------------------|---------------|--------------|
| <u>Number</u> | <u>Name</u> | <u>Location</u> | <u>Туре</u> | <u>Status</u> | Issued date |
| 13044 | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | EPOEO licence | Issued | 08 May 2009 |
| 1113906 | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | Variation | Issued | 03 Aug 2010 |
| 1118584 | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | Es.58 Licence Variation | Issued | 18 Nov 2010 |
| 1504092 | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | Es.58 Licence Variation | Issued | 24 Feb 2012 |
| <u>1508075</u> | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | Es.58 Licence Variation | Issued | 29 Aug 2012 |
| <u>1532458</u> | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | Es.58 Licence Variation | Issued | 03 Sep 2015 |
| 1614037 | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | ECompliance Audit | Complete | 01 Nov 2021 |
| 1606383 | CITY OF RYDE | 160 WICKS ROAD, MACQUARI PARK, NSW 2113 | Es.58 Licence Variation | Issued | 21 Dec 2021 |
| 11735 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | POEO licence | Surrendere | d04 Sep 2002 |
| 1021136 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 03 Oct 2002 |
| 1022236 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 19 Nov 2002 |
| 1024227 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 24 Jan 2003 |
| 1024695 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 05 Feb 2003 |
| 1025435 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 07 Mar 2003 |
| 1025609 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 18 Mar 2003 |
| 1026362 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 16 May 2003 |
| 1027792 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 13 Jun 2003 |
| 1028574 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 27 Jun 2003 |
| 1028809 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 04 Jul 2003 |
| 1028972 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 11 Jul 2003 |
| | | | | | 40045 |

12345

Your search for: General Search with the following criteria

Suburb - macquarie park

returned 85 results

| Export to ex | cel | 2 of 5 Pages | | | Search Again |
|---------------|-------------|--------------------------------|---------------------------|---------------|--------------|
| <u>Number</u> | <u>Name</u> | <u>Location</u> | <u>Түре</u> | <u>Status</u> | Issued date |
| 1029217 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 18 Jul 2003 |
| 1029538 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 28 Jul 2003 |
| 1029710 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 31 Jul 2003 |
| 1030029 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 02 Sep 2003 |
| 1030565 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 08 Sep 2003 |
| 1031211 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 02 Oct 2003 |
| 1031750 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 17 Oct 2003 |
| 1032244 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 06 Nov 2003 |
| 1032398 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 13 Nov 2003 |
| 1032667 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 25 Nov 2003 |
| 1032983 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 12 Dec 2003 |
| 1033322 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 17 Dec 2003 |
| 1033893 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 16 Jan 2004 |
| 1034029 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 23 Jan 2004 |
| 1034350 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 02 Feb 2004 |
| 1034426 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 05 Feb 2004 |
| 1034494 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 20 Feb 2004 |
| 1034911 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 27 Feb 2004 |
| 1035201 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 16 Mar 2004 |
| 1035471 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 23 Mar 2004 |
| | | | | | 40045 |

<u>1</u>2<u>345</u>

Your search for: General Search with the following criteria

Suburb - macquarie park

returned 85 results

| Export to ex | cel | 3 of 5 Pages | | | Search Again |
|---------------|-------------|--------------------------------|---------------------------|---------------|--------------------|
| <u>Number</u> | <u>Name</u> | <u>Location</u> | <u>Түре</u> | <u>Status</u> | <u>Issued date</u> |
| 1035772 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 30 Mar 2004 |
| 1036202 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 21 Apr 2004 |
| 1036587 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 30 Apr 2004 |
| 1037117 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 20 May 2004 |
| 1038510 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 03 Aug 2004 |
| 1039737 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 10 Aug 2004 |
| 1039827 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 13 Aug 2004 |
| 1040010 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 25 Aug 2004 |
| 1040389 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 03 Sep 2004 |
| 1041466 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 14 Oct 2004 |
| 1041576 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 21 Oct 2004 |
| 1042053 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 05 Nov 2004 |
| 1042245 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 12 Nov 2004 |
| 1042739 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 08 Dec 2004 |
| 1044133 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 07 Feb 2005 |
| 1044838 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 25 Feb 2005 |
| 1046135 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 01 Apr 2005 |
| 1047127 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 29 Apr 2005 |
| 1048083 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 02 Jun 2005 |
| 1048777 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 16 Jun 2005 |
| | | | | | 48845 |

<u>12</u>3<u>45</u>

Your search for: General Search with the following criteria

Suburb - macquarie park

returned 85 results

| Export to ex | <u>cel</u> | 4 of 5 Pages | | | Search Again |
|---------------|-------------|--------------------------------|---------------------------|---------------|--------------|
| <u>Number</u> | <u>Name</u> | <u>Location</u> | <u>Түре</u> | <u>Status</u> | Issued date |
| 1048922 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 24 Jun 2005 |
| 1049730 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 14 Jul 2005 |
| 1050117 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 09 Aug 2005 |
| 1050982 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 30 Aug 2005 |
| 1052885 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 17 Oct 2005 |
| 1053152 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 31 Oct 2005 |
| 1053660 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 14 Nov 2005 |
| 1053839 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 24 Nov 2005 |
| 1054327 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 08 Dec 2005 |
| 1054429 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 14 Dec 2005 |
| 1061388 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 06 Jun 2006 |
| 1062906 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 10 Jul 2006 |
| 1063710 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 03 Aug 2006 |
| 1064215 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 22 Aug 2006 |
| 1066985 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 08 Nov 2006 |
| 1072124 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 18 May 2007 |
| 1074662 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 21 Jun 2007 |
| 1075064 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 29 Jun 2007 |
| 1078102 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 19 Sep 2007 |
| 1083305 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 09 May 2008 |
| | | | | | |

12345

Your search for: General Search with the following criteria

Suburb - macquarie park

returned 85 results

| Export to ex | <u>cel</u> | 5 of 5 Pages | | | Search Again |
|----------------|------------------------------|--------------------------------------------------|--------------------------------|--------------------|--------------|
| <u>Number</u> | <u>Name</u> | <u>Location</u> | <u>Түре</u> | <u>Status</u> | Issued date |
| 1087564 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 22 May 2008 |
| 1104864 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.80 Surrender of a Licence | Issued | 14 Aug 2009 |
| 11916 | MAN DIESEL AUSTRALIA PTY LTD | 36-42 WATERLOO ROAD, MACQUARIE PARK, NSW 2113 | POEO licence | No longer in force | 29 May 2003 |
| 1050941 | MAN DIESEL AUSTRALIA PTY LTD | 36-42 WATERLOO ROAD, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 11 Sep 2005 |
| <u>1565069</u> | Zinfra Pty Ltd | 1A Talavera Road, MACQUARIE PARK, NSW 2113 | s.55 Licence Refusal | Issued | 24 May 2018 |
| | | | | | 12345 |

Appendix F – ProUCL Output

| | Α | В | С | D | E | F | G | Н | I | J | | K | | L |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|----------------|----------------|-------------------|--------------|-------------|--------------|------------|------------|--------|------|
| 1 | | | | | UCL Statis | stics for Unc | ensored Full | Data Sets | • | | | | | |
| 2 | | 0.1 | | <u> </u> | | | | | | | | | | |
| 3 | | | ected Options | | 1.10.110.000.1 | 0.40.04.414 | | | | | | | | |
| 4 | Dat | e/Time of C | Computation | ProUCL 5.1 | | U:43:34 AM | | | | | | | | |
| 5 | | | From File | WorkSheet.: | XIS | | | | | | | | | |
| 6 | | | ull Precision | OFF | | | | | | | | | | |
| 7 | | | | 95% | | | | | | | | | | |
| 8 | Number o | or Bootstrap | Operations | 2000 | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | C0 | | | | | | | | | | | | | |
| - 1 1 | | | | | | | | | | | | | | |
| 12 | | | | | | General | Statistics | | | | | | | |
| 13 | | | Total | I Number of C | heenvations | 8 | Statistics | | Num | her of Dist | tinct Ohs | servations | 7 | |
| 14 | | | Total | - Number of C | bsei valions | 0 | | | | | | servations | _ | |
| 15 | | | | | Minimum | 16 | | | Nulli | Jei Oi Wiis | | Mean | | 7.25 |
| 16 | | | | | Maximum | 140 | | | | | | Median | | |
| 17 | | | | | SD | 42.11 | | | | | Std Erro | or of Mean | | 1.89 |
| 18 | | | | Coefficient | of Variation | 0.891 | | | | | | Skewness | | .821 |
| 19 | | | | COGINCIGIIL | or variation | 0.031 | | | | | | | | .021 |
| 20 | | | Note: Sam | nle size is en | nall (e.a. <1 | 0), if data ar | e collected u | sing ISM s | approach v | ou should | luse | | | |
| 21 | | Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest. | | | | | | | | | | | | |
| 22 | guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest. For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012). | | | | | | | | | | | | | |
| 23 | Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.1 | | | | | | | | | | | | | |
| 24 | | | Chobyono | V COL Gail be | , computou t | Joing the No | прагатовто | una / un O c | or options | 01110001 | | | | |
| 25 | | | | | | Normal (| GOF Test | | | | | | | |
| 26 | | | Ş | Shapiro Wilk T | est Statistic | 0.772 | 101 1031 | | Shaniro | Wilk GOF | Test | | | |
| 27 | | | | hapiro Wilk C | | 0.818 | | Data N | lot Normal | | | level | | |
| 28 | | | | | est Statistic | 0.248 | | | | rs GOF T | | | | |
| 29 | | | 5 | 5% Lilliefors C | | 0.283 | | Data ap | pear Norma | | | ce Level | | |
| 30 | | | | | | | l rmal at 5% S | | | | | | - | - |
| 31 | | | | | | | | | | | | | | |
| 32 | | | | | As | suming Nor | mal Distributi | ion | | | | | | |
| 33 34 | | | 95% N | ormal UCL | | | | | % UCLs (A | djusted fo | r Skewn | iess) | | |
| | | | | 95% Stud | dent's-t UCL | 75.46 | | | 95% Adju | | | | 81 | 1.98 |
| 35 36 | | | | | | | | | • | dified-t UC | , | , | | 7.06 |
| 37 | | | | | | | | | | | | | | |
| 38 | | | | | | Gamma | GOF Test | | | | | | | |
| 39 | | | | A-D T | est Statistic | 0.473 | | And | erson-Darli | ng Gamm | a GOF | Test | | |
| 40 | | | | 5% A-D C | ritical Value | 0.725 | Detected | d data appe | ear Gamma | Distribute | d at 5% | Significar | ice Le | vel |
| 41 | | | | K-S T | est Statistic | 0.221 | | Kolmo | gorov-Smi | rnov Gam | ma GOF | - Test | | |
| 42 | | | | 5% K-S C | ritical Value | 0.298 | Detected | d data appe | ear Gamma | Distribute | d at 5% | Significar | ice Le | vel |
| 43 | | | | Detected | data appear | Gamma Di | stributed at 5 | % Signific | ance Level | | | | | |
| 44 | | | | | | | | | | | | - | | |
| 45 | | | | | | Gamma | Statistics | | | | | | | |
| 46 | | | | | k hat (MLE) | 1.907 | | | | k star (bia | as correc | cted MLE) | 1. | .275 |
| 47 | | | | The | ta hat (MLE) | 24.77 | | | The | ta star (bia | as correc | cted MLE) | 37 | 7.05 |
| 48 | | | | n | u hat (MLE) | 30.52 | | | | nu sta | ar (bias o | corrected) | 20 |).41 |
| 49 | | | М | LE Mean (bia | s corrected) | 47.25 | | | | MLE S | d (bias | corrected) | 41 | 1.84 |
| 50 | | | | | | | | | Approxim | ate Chi Sc | uare Va | lue (0.05) | 11 | 1.15 |
| 51 | | | Adju | sted Level of | Significance | 0.0195 | | | | Adjusted | Chi Squ | are Value | 9. | .469 |
| 52 | | | | | | | 1 | | | | | | | |
| 53 | | | | | As | suming Gam | ıma Distribut | ion | | | | | | |
| 54 | 9: | 5% Approxi | imate Gamma | a UCL (use w | hen n>=50)) | 86.47 | | 95% A | Adjusted Ga | mma UCL | (use wl | nen n<50) | 101 | .8 |
| J⊤ | | | | | | | İ | | | | | | | |

| | Α | В | С | D | l E | F | G | Н | l 1 | J | Ικ | Т і |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|----------------|--------------|-----------------|----------------|---------------|---------------|-----------------|-------------|
| 55 | Λ | | | | | <u> </u> | u | 11 | <u> </u> | <u> </u> | IX. | |
| 56 | | | | | | Lognorma | GOF Test | | | | | |
| 57 | | | S | hapiro Wilk 1 | Test Statistic | 0.91 | | Shap | oiro Wilk Log | gnormal GOI | F Test | |
| 58 | | | 5% S | hapiro Wilk C | Critical Value | 0.818 | | Data appea | r Lognormal | at 5% Signif | ficance Leve | ;l |
| 59 | | | | Lilliefors 7 | Test Statistic | 0.194 | | Lill | liefors Logn | ormal GOF | Гest | |
| 60 | | | 5 | % Lilliefors C | Critical Value | 0.283 | | Data appea | r Lognormal | at 5% Signif | ficance Leve | اد |
| 61 | | | | | Data appea | Lognormal | at 5% Signifi | icance Leve | | | | |
| 62 | | | | | | | | | | | | |
| 63 | | | | | | Lognorma | l Statistics | | | | | |
| 64 | | | | Minimum of I | - | 2.773 | | | | Mean of | logged Dat | a 3.571 |
| 65 | | | N | Maximum of I | ₋ogged Data | 4.942 | | | | SD of | logged Dat | a 0.774 |
| 66 | | | | | | | | | | | | |
| 67 | | | | | Ass | uming Logno | rmal Distrib | ution | | | | |
| 68 | | | | | 95% H-UCL | 111.9 | | | | Chebyshev (| ` ' | |
| 69 | | | | Chebyshev (| | 101.6 | | | 97.5% | Chebyshev (| (MVUE) UC | L 125.7 |
| 70 | | | 99% | Chebyshev (| MVUE) UCL | 173.1 | | | | | | |
| 71 | | | | | | | | | | | | |
| 72 | | | | | • | | tion Free UC | | | | | |
| 73 | | | | Data appea | r to follow a | Discernible | Distribution a | at 5% Signifi | cance Leve | l | | |
| 74 | | | | | | | | | | | | |
| 75 | | | | | <u>-</u> | | tribution Free | e UCLs | | | | |
| 76 | | | | | 5% CLT UCL | 71.74 | | | | | ackknife UC | |
| 77 | | | | Standard Bo | | 70.13 | | | | | otstrap-t UC | |
| 78 | | | | 15% Hall's Bo | <u> </u> | 151.1 | | | 95% | Percentile Bo | ootstrap UC | L 72.88 |
| 79 | | | | 95% BCA Bo | | 83.13 | | | | | | |
| 80 | | | | ebyshev(Me | | 91.92 | | | | nebyshev(Me | • | |
| 81 | | | 97.5% Ch | ebyshev(Me | an, Sd) UCL | 140.2 | | | 99% Cł | nebyshev(Me | ean, Sd) UC | L 195.4 |
| 82 | | | | | | | | | | | | |
| 83 | | | | 250/ 0 | | | UCL to Use | | | | | |
| 84 | | | | 95% Stu | dent's-t UCL | 75.46 | | | | | | |
| 85 | | | | | | | | | | | | |
| 86 | | 140 | | data set follow | | | • | · · | | | . 5 1101 | |
| 87 | | When app | licable, it is s | suggested to | use a UCL b | ased upon a | distribution (| e.g., gamma |) passing bo | oth GOF tests | s in ProUCL | |
| 88 | | | | r | | | | | 1 | | | |
| 89 | Ņ | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | |
| 90 | Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | | | | | | | | | |
| 91 | | | | | | | | | | | | |
| 92 | Ho | wever, simu | lations result | s will not cov | er all Real V | orid data se | ts; for additio | nal insight th | ne user may | want to cons | suit a statisti | cian. |
| 93 | | | | | | | | | | | | |



Address: 8-10 Welder Road,

Seven Hills NSW 1730

ABN: 62 106 885 214 **Phone:** 1800 288 188

Email: admin@allgeo.com.au **Website:** www.allgeo.com.au

Asbestos Clearance Certificate

| Certificate Reference | 15030-ER-2-1 | Certificate Date | Э | 16/05/202 | 22 | | | |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------|-------------------|---------|--|--|--|
| Definition of Clearance Inspection (Work Health and Safety Regulation 2017, Reg 473, Part (5) (a) and (b)) | An inspection of an asbestos removal area after asbestos removal work has been completed to verify that the area is safe for normal use, that: - includes a visual inspection; and - may include air monitoring. | | | | | | | |
| CLIENT DETAILS | | | | | | | | |
| Client | Christie Civil Pty Ltd | | | | | | | |
| Client project name | Road Bridge Construction | | | | | | | |
| | | | | | | | | |
| CLEARANCE INSPECTION | DETAILS | | | | | | | |
| Site address | | 2 Lyonpark Ro | ad, Macqua | rie Park NS | W 2113 | | | |
| Lot and DP | | Lot 101 in DP | 263727 | | | | | |
| Nature of asbestos removal | work | Bonded Excavation 200m² area inspected | | | | | | |
| Details of specific asbestos removal work area(s) Refer to site plan in Appendix A | | | | | | | | |
| Date of removal works | | Start 06/0 | 5/2022 | 2022 Finish: 06/0 | | | | |
| Contact details of Licensed (Removalist | Company Name: Christie Civil Pty Ltd Company License No.: AD211094 | | | | | | | |
| | | Supervisor Contact No.: 0412004164 | | | | | | |
| Date and time of clearance in | • | 07/05/2022 at (| | | | | | |
| Name of LAA or Competent | Person doing inspection | Ayodeji Awope | tu | | | | | |
| ASBESTOS REMOVAL DO | CUMENTATION | | | | | | | |
| Was a copy of the asbestos | |) provided? | Yes | ⊠ No [| □ N/A □ | | | |
| Was a copy of the asbestos | removal works notification fo | orm provided? | Yes | ⊠ No [| □ N/A □ | | | |
| Is the removal work (e.g. use waste facilities) consistent w | | | Yes | ⊠ No ! | □ N/A □ | | | |
| | | | | | | | | |
| ASBESTOS REMOVAL WO | ORK AREA | | | 1 | | | | |
| Was visible asbestos residue removal work area or in the was carried out? | | | Yes 🗆 |] No ⊠ | l N/A □ | | | |
| Was visible asbestos residue and/or waste route? | e found on the surface of the | e transit route | Yes 🗆 |] No ⊠ | N/A □ | | | |

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| Was air monitoring undertaken as part of the removal works and the results were less than 0.01 fibres/mL? | Yes 🗌 | No 🗌 | N/A 🗵 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|-------------------|
| Were the air monitoring samples been analysed by a NATA-accredited laboratory or a laboratory approved by the WHS regulator? | Yes 🗌 | № □ | N/A 🗵 |
| Where air monitoring was part of the clearance inspection, Is the air monitoring report attached? | Yes 🗌 | No 🗆 | N/A 🗵 |
| Were validation samples collected from within the removal area? If yes, how many? | Yes 🗌 | No 🗵 | If yes, how many? |
| Was asbestos detected, using NATA accredited methods, in the samples collected? | Yes 🗌 | No 🗆 | N/A 🗵 |
| Is the Laboratory Certificate of Analysis attached? | Yes 🗌 | No 🗆 | N/A ⊠ |
| | | | |
| ENCLOSURES | | | |
| Prior to dismantling the enclosure | | | |
| Was the exposed surfaces of, the area within the enclosure and the area immediately surrounding the enclosure, inspected and no visible asbestos residue observed? | Yes 🗵 | No 🗆 | N/A 🗆 |
| Was air monitoring undertaken as part of the clearance inspection and the results was less than 0.01 fibres/mL? | Yes 🗆 | No 🗆 | N/A ⊠ |
| Has the air monitoring sample been analysed by a NATA-accredited laboratory or a laboratory approved by the WHS regulator? | Yes 🗆 | No 🗆 | N/A ⊠ |
| Is the air monitoring report attached? | Yes 🗆 | No 🗆 | N/A 🗵 |
| How many validation samples were collected? | | X | N/A 🗵 |
| Was asbestos detected, using NATA accredited methods, in the samples collected? | Yes 🗆 | No 🗆 | N/A 🗵 |
| Can the enclosure be dismantled? | Yes 🗵 | No 🗆 | N/A 🗌 |
| After the enclosure is dismantled and remo | ved | | |
| Was the exposed surfaces of, area where the enclosure was erected and the area immediately surrounding where the enclosure was erected, inspected and no visible asbestos residue observed. | Yes 🗵 | No 🗆 | N/A 🗆 |
| ASBESTOS CLEARANCE DECLARATION | | | |
| In the context of asbestos risk, Alliance Geotechnical declares that, as at the | e date and t | ime of the ir | spection: |
| The asbestos removal work area inspected is free of visible asbestos and suitable for reoccupation? | Yes 🗵 | No 🗆 | N/A 🗆 |
| The former enclosure area inspected is free of visible asbestos and suitable for reoccupation? | Yes 🗵 | No 🗆 | N/A 🗌 |
| The transit route and waste route inspected is free of visible asbestos and suitable for reoccupation? | Yes 🗵 | No 🗆 | N/A 🗌 |
| This declaration must be read in conjunction with the Limitations set out belonger information About This Report" statement. | ow, and the | attached "Ir | nportant |



LIMITATIONS

This clearance inspection was undertaken with reference to industry accepted practice and was limited to exposed surfaces within the areas nominated in this report that were accessible at the date and time of the inspection. Areas below those surfaces, or adjacent to the nominated areas are not addressed in this certificate and may contain asbestos.

No inspection can be regarded as absolute. Alliance does not warrant or guarantee that all visible asbestos material has been removed, and subsequently, Alliance does not accept liability or responsibility for the completeness of asbestos removal works.

If material suspected of containing asbestos is identified after the date and time of the inspection reported in this clearance certificate, activities should be stopped immediately, access to the area where the material was observed should be restricted, and Alliance contacted for further advice.

REFERENCES

NSW Government 2019, 'Code of Practice: How to manage and control asbestos in the workplace', dated August 2019

NSW Government 2019, 'Code of Practice: How to safely remove asbestos', dated August 2019 SafeWork NSW, 'Non-Friable Asbestos Clearance Certificate – No Air Monitoring', Catalogue No. SW08272 Work Health and Safety Act 2011

Work Health and Safety Regulation 2017

For and on behalf of Alliance Geotechnical Pty Ltd

H

Ayodeji Awopetu Graduate Environmental Consultant

Attached

Important Information About This Report
Appendix A – Asbestos Removal Work Area Figure
Appendix B – Photographs of Asbestos Removal Work Areas

Ref: 15030-ER-2-1



Important Information About This Report

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This report must be reviewed in its entirety and in conjunction with the objectives, scope and terms applicable to Alliance's engagement. The report must not be used for any purpose other than the purpose specified at the time Alliance was engaged to prepare the report.

The findings presented in this report are based on specific data and information made available during the course of this project. To the best of Alliance's knowledge, these findings represent a reasonable interpretation of the general condition of the site at the time of report completion.

No warranties are made as to the information provided in this report. All conclusions and recommendations made in this report are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Alliance.

Logs, figures, and drawings are generated for this report based on individual Alliance consultant interpretations of nominated data, as well as observations made at the time fieldwork was undertaken.

Data and/or information presented in this report must not be redrawn for its inclusion in other reports, plans or documents, nor should that data and/or information be separated from this report in any way.

Should additional information that may impact on the findings of this report be encountered or site conditions change, Alliance reserves the right to review and amend this report.



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Appendix A – Asbestos Removal Work Area Figure

Appendix B – Photographs of Asbestos Removal Work Areas

Photographs of asbestos removal work area prior to inspection/removal





Photographs of asbestos removal work area post inspection/removal





Photographs of transit route and waste route







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ABN: 62 106 885 214 Phone: 1800 288 188

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Website: www.allgeo.com.au

Waste Classification and Virgin Excavated Natural Material Report

| Report Reference | 15030-ER-1-1 Rev 1 | Report Date | 3/05/2022 | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------|--|--|--|--|--|--|
| Client | Christie Civil Pty Ltd | | | | | | | | |
| Client project name | Road Bridge Constructio | n | | | | | | | |
| Site address | 2 Lyonpark Road, Macqu | uarie Park NSW 2113 | | | | | | | |
| Lot and DP | Lot 101 DP 1263727 | | | | | | | | |
| Definition of virgin excavated natural material (VENM) | The Protection of the Environment Operations Act 1997 VENM as: 'natural material (such as clay, gravel, sand, soil or rock fines): a) that has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining of agricultural activities, and b) that does not contain any sulfidic ores or soils or any other waste, and includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved for the time being pursuant to an EPA Gazettal notice'. | | | | | | | | |
| Location, quantity and history of material | IN-SITU - In-situ materials across approximately 400m², to a depth of between 1.0m to 2.0m (bgs (maximum)), located in the northern portion of the site, to be excavated during bridge abutment construction works. Totalling approximately 500m³. Refer to Appendix B for a site layout plan. | | | | | | | | |
| Geology The Department of Mineral Resources Geological Survey of NSW Sydn 1:100,000 Geological Series Sheet 9130 (Edition 1) 1983, indicated that is likely to be underlain by Hawkesbury Sandstone (Rh), comprising sar quartz and some shale. | | | | | | | | | |

FIELDWORK

Description of the material

Fill: 0.0~1.5m (bgs) – Silty Gravely CLAY, pale brown, some minor glass fragments, potential asbestos containing material (PACM) observed, no visual evidence of staining or olfactory evidence of odours detected in the samples collected.

Natural: >1.5m (bgs) Sandy CLAY brown/orange/grey, no PACM observed, no visual evidence of staining or olfactory evidence of odours detected in the samples collected.

Test pits terminated at 2.0m (bgs).

Photographs of the area of excavation and fill material being assessed at TP1





Photographs of fill material assessment fieldwork and samples of fill material being assessed at TP3





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| SIX STEP WASTE CLASSI | FICATION PROCESS ² |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step 1 | The fill material is considered to be special waste due to the presence of asbestos. |
| Step 2 | The fill material is not considered to be a liquid waste. |
| Step 3 | The fill material is not considered to be pre-classified. |
| Step 4 | The fill material is not considered to possess hazardous characteristics. |
| Step 5 | The detected concentrations of analytes in the fill material samples analysed, were less than the relevant CT1 values in Table 1 of NSW EPA (2014a) and the relevant TCLP1 and SCC1 values in Table 2 of NSW EPA (2016), with the exception of: |
| | lead in sample TP2-0.0-0.3 (140mg/kg, CT1 value of 100mg/kg); |
| | Sample TP2-0.0-0.3 was subjected to nickel TCLP ³ analysis and the detected concentration was less than the relevant TCLP1 value in Table 2 of NSW EPA (2014a). |
| | The observations of the fill material being assessed, indicated that the material was reasonably homogenous. On that basis, a statistical analysis a statistical analysis of the detected lead concentration dataset was undertaken using ProUCL ⁴ . The output of the statistical analysis indicated that: |
| ading walls seems | the maximum detected lead concentration value in the data set was 140mg/kg, which is less than 250% of the relevant CT1 value (100mg/kg); |
| | the standard deviation of the detected lead concentrations in the data set was 42.1mg/kg, which is less than 50% of the relevant CT1 value (100mg/kg); |
| | there is a 95% probability that the arithmetic average concentration of lead in the material assessed, will not exceed 75.4mg/kg, which is less than the relevant CT1 value (100mg/kg). |
| Cet - west- a fin | A copy of the ProUCL statistical analysis output is presented in Appendix F. |
| Step 6 | The material is not considered to be putrescible. |

² NSW EPA (2014a)

³ Toxicity Characteristic Leaching Procedure

⁴ In order for the statistical analysis output to considered reliable, the maximum value in any one analyte dataset cannot be greater than 250% of the relevant adopted screening criterion value, and the standard deviation of any one analyte dataset, cannot be greater than 50% of the relevant adopted screening criterion value.

REFERENCES

AS 4482.1-2005 'Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi-volatile compounds' dated November 2005.

AS 4482.2-1999 'Guide to the sampling and investigation of potentially contaminated soil, Part 2: Volatile substances' dated September 1999.

Berkman D A 1989, 'Field Geologist's Manual, Third Edition' published by The Australasian Institute of Mining and Metallurgy.

DUAP 1998, 'Managing Land Contamination Planning Guidelines SEPP55 – Remediation of Land', dated April 1999, ref: 98/65.

EPA VIC 2009 'Industrial Waste Resource Guidelines' dated June 2009, ref: IWRG702.

National Environment Protection Council (NEPC) 2013, 'Schedule B(2) Guideline on Site Characterisation', National Environment Protection (Assessment of Site Contamination) Measure (NEPM) as amended in May 2013.

NSW DPIE 2021, 'State Environmental Planning Policy (Resilience and Hazards) 2021'

NSW EPA 1995, 'Contaminated Sites: Sampling Design Guidelines' dated September 1995, ref: EPA 95/59
NSW EPA 2014a, 'Waste Classification Guidelines – Part 1: Classification of waste' dated November 2014, ref: EPA 2014/0796

NSW EPA 2016, 'Addendum to the Wastes Classification Guidelines (2014) – Part 1: classifying waste' dated October 2016, ref: EPA 2016/0559

SafeWork NSW 2019, 'Code of Practice, How To Safely Remove Asbestos' dated August 2019

WorkCover NSW 2014, 'Managing asbestos in or on soil', dated March 2014

For and on behalf of Alliance Geotechnical Pty Ltd

Michael Dunesky Senior Environmental Consultant

Attached

Important Information About This Report

Appendix A - Sampling Plan and Data Quality Indicator Assessment

Appendix B - Site and Sampling Point Layout Plan

Appendix C - Chain of Custody, Sample Receipt and Certificates of Analysis

Appendix D - Sample Data and Analytical Results Summary Table

Appendix E – NSW EPA Online Public Register Search Records

Appendix F - ProUCL Output

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Appendix A - Sampling Plan and Data Quality Indicator Assessment

| SAMPLING PLAN | |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fieldwork date | 05/04/2022 and 22/04/2022 |
| Fieldwork team | Michael Dunesky |
| Sampling point locations | Sampling point locations are presented in Appendix B. |
| Rationale for sampling pattern | IN_SITU AREA – The sampling pattern for the in-situ materials will be a systematic grid of sampling points across the area being assessed, taking into consideration the area, depth and volume of material being assessed, and guidance in Table A of NSW EPA (1995), and Table 1 and 3 in EPA VIC (2009). |
| Rationale for sample collection and analytical quantities | IN-SITU AREA (Waste) – A minimum of 9 samples will be collected, based on guidance in Table 1 and Table 3 in EPA VIC (2009), for the volume and depth of waste being assessed. Additionally, a minimum 8 asbestos delineation samples will be collected, based on guidance in Table 1 and Table 3 in EPA VIC (2009), for the volume and depth of waste being assessed. |
| | IN-SITU AREA (VENM) – A minimum of 3 samples will be collected, based on guidance in Table 1 and Table 3 in EPA VIC (2009) / Table 1 of The excavated natural material order 2014, for the volume and depth of material being assessed. |
| Material sampling method | Samples will be collected from test pits using hydraulic excavation equipment. IN-SITU — Samples will be collected with reference to relevant guidance in Section 7.2 of NEPC (2013) and Section 6.7 of Sullivan et al (2018). A fresh pair of nitrile gloves will be used to collect each sample. Samples will be placed in laboratory prepared containers and bags, each labelled with the project number, date, sampling point identifier, and sample depth identifier. Samples for acid sulfate soils analysis will be placed in zip lock bags with the air removed. Samples will be stored in an insulated container with ice. Recommended holding times will be considered when arranging sample transport to the analytical laboratory. A rinsate blank will be collected when non disposable sampling equipment is used. |
| Material sample collection depths | INSITU – The first sample will be collected at the surface, then at regular depths thereafter, targeting visual or olfactory signs of contamination, to the target depth of assessment. |
| Rationale for lab selection, analytical suite and analytical data quality | NATA accredited laboratories will be used for sample analysis, adopting limits of reporting (LOR) that are less than adopted assessment criteria. Based on the potential land contaminating activities associated with the site and consideration being given to Appendix A in DUAP (1998) and Section 6.1 of HEPA (2020), the following range of analytes have been selected: TRH, BTEX, PAH, OCP, PCB, metals and asbestos (presence/absence). Laboratory data quality will be checked by assessing holding time compliance, and the results of analysis on method blanks, control samples, spike samples and duplicates. |

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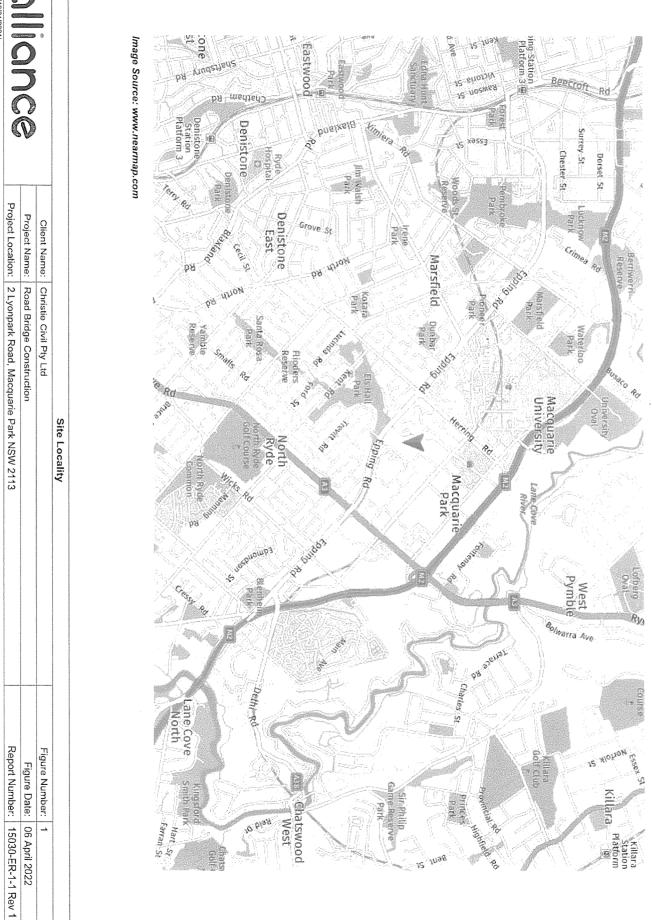
| Comparability | | | |
|-----------------------------------------------------------------------|------------------|--------|-----------------------|
| Laboratory Considerations | Target Criterion | Result | Pass / Fail / Comment |
| Same sampling team used for all work. | Yes | Yes | Pass |
| Weather conditions suitable for sampling. | Yes | Yes | Pass |
| Same sample types collected and preserved in same way. | Yes | Yes | Pass |
| Relevant samples stored in insulated containers and chilled. | Yes | Yes | Pass |
| Laboratory Considerations | Target Criterion | Result | Pass / Fail / Comment |
| Same laboratory used for all analysis. | Yes | Yes | Pass |
| Comparable methods if different laboratories used. | Not applicable | n/a | Pass |
| Comparable limits of reporting if different laboratories used. | Not applicable | n/a | Pass |
| Comparable units of measure if different laboratories have been used. | Not applicable | n/a | Pass |

| Representativeness | | | |
|------------------------------------------------|------------------|--------|-----------------------|
| Field Considerations | Target Criterion | Result | Pass / Fail / Comment |
| Media identified in sampling plan, sampled. | Yes | Yes | Pass |
| Samples required by sampling plan, collected. | Yes | Yes | Pass |
| Laboratory Considerations | Target Criterion | Result | Pass / Fail / Comment |
| Samples identified in sampling plan, analysed. | Yes | Yes | Pass |



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| Trip spike analyte results less between 60% and 140%. | not applicable | n/a | Pass Comment - A trip spike was not used for this project. No evidence of odour or staining was observed in the samples collected. The samples were placed in laboratory prepared containers with minimal headspace, and stored in an insulated container with ice, The risk of loss of volatiles during storage and transport is considered to be negligible. Performance against this DQI is considered adequate. |
|------------------------------------------------------------------------|------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rinsate blank analyte results less than limit of reporting. | not applicable | n/a | Pass Comment - A rinsate blank was not used for this project. Re-usable sampling equipment was not used for this project. The samples were collected either directly from the base/wall of the test pits, or from the centre of the soils in the excavator bucket, using a fresh pair of nitrile gloves for each sample. The risk of cross contamination during sampling is considered to be negligible. Performance against this DQI is considered adequate. |
| Laboratory Considerations | Target Criterion | Result | Pass / Fail / Comment |
| Laboratory method blank results within laboratory acceptance limits. | Yes | Yes | Pass |
| Laboratory control sample results within laboratory acceptance limits. | Yes | Yes | Pass |
| Laboratory spike sample results within laboratory acceptance limits. | Yes | Yes | Pass |





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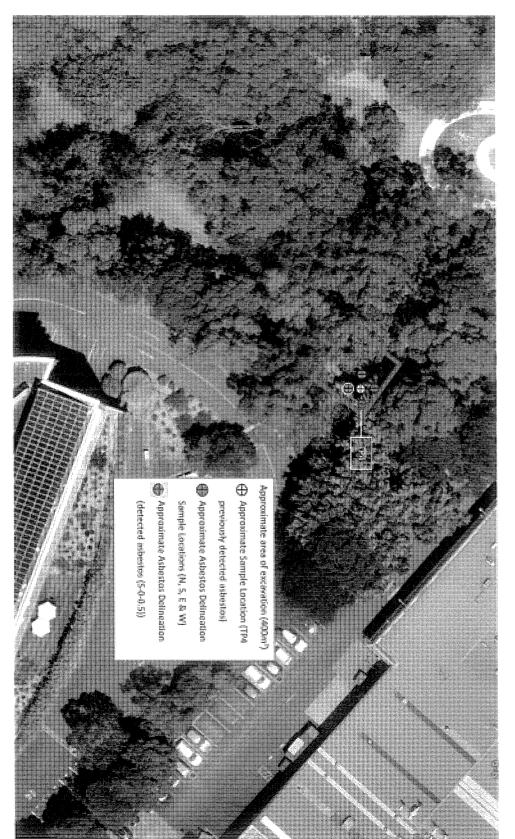


Image Source: www.nearmap.com

Sample Locations

| Project Location: | Project Name: | Client Name: |
|----------------------------|---------------------|-------------------------------------|
| Road, Macqu | | Client Name: Christie Civil Pty Ltd |
| Report Nun | Figure [| Figure Number: 3 |
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| | シャ・カフ | イデン | | | | | | | | | | | | 125; 200ml 40ml 500ml Jar (Gla | ML Place Amber G L VOA via PFAS Bo PFAS Or HD PFAS OF HD | c distribution | | Container: R | TrailResults | | Handed over by | 1 Park 849 | |
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RE: Eurofins Test Results, Invoice - Report 877420 : Site MACQUARIE PARK

Michael Dunesky <michael@allgeo.com.au>

Tue 2022-04-12 10:05 PM

To: Hannah Mawbey < Hannah Mawbey@eurofins.com >

Cc: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>;Andrew Black

<AndrewBlack@eurofins.com>

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Thanks Hannah can we please request additional TCLP on sample:

TP2-0-0.3 - lead

24 hr TAT

Regards,

Michael Dunesky

Senior Environmental Consultant

Mobile: 0450 836 300 | Email: michael@allgeo.com.au



Office Phone: 1800 288 188

Admin Email: admin@allgeo.com.au

Website: allgeo.com.au

Office & Lab: 8-10 Welder Road, Seven Hills NSW 2147

Postal Address: PO Box 275, Seven Hills NSW 1730

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From: HannahMawbey@eurofins.com < HannahMawbey@eurofins.com >

Sent: Tuesday, 12 April 2022 8:47 PM

To: Michael Dunesky <michael@allgeo.com.au>

Subject: Eurofins Test Results, Invoice - Report 877420 : Site MACQUARIE PARK

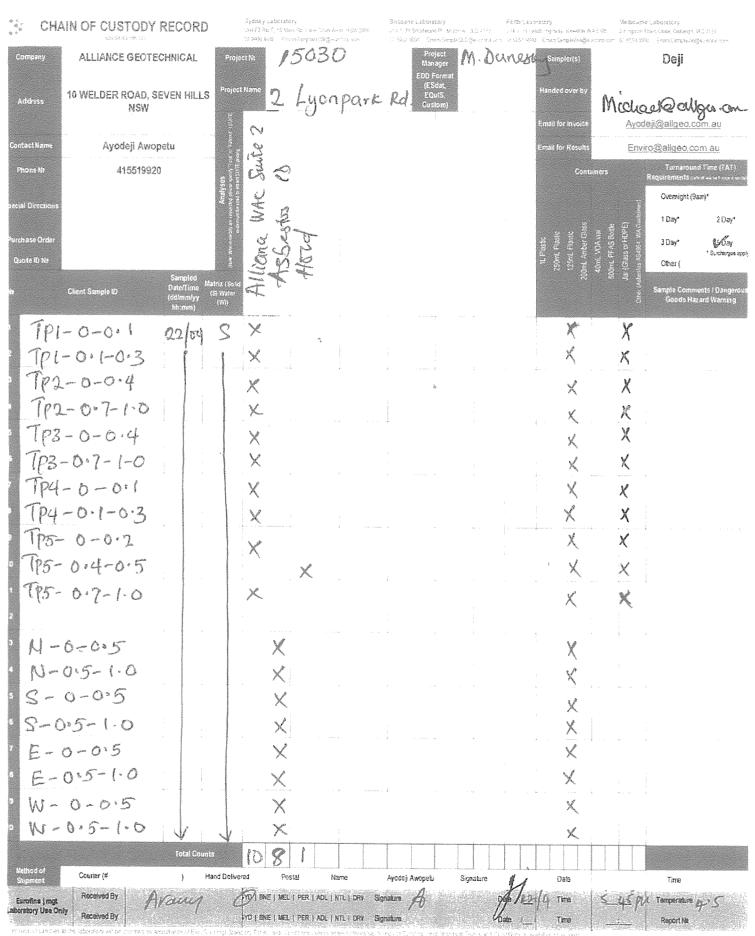
Please find attached report and invoice as per header.

Kind Regards, Hannah Mawbey

Eurofins | Environment Testing

Unit 16/7 Investigator Dr Unanderra NSW 2526 **AUSTRALIA**

Phone: +61 2 9900 8492





Environment Testing

Alliance Geotechnical 10 Welder Road Seven Hills NSW 2147





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: Michael Dunesky

Report 877420-S

Project name MACQUARIE PARK
Received Date Apr 05, 2022

| Client Sample ID | | | TP1-0-0.3 | TP1-0.7-1.0 | TP2-0-0.3 | TP2-0.7-1.0 |
|---------------------------------------------------|-----|----------|-------------------|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009173 | S22- Ap0009174 | S22- Ap0009175 | S22- Ap0009176 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | • | | and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon and a soon a soon and a soon a soon and a soon a soon a soon a soon and a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soon a soo |
| Total Recoverable Hydrocarbons | | , 0,,,,, | | İ | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | 76 | 230 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | 76 | 230 | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)N04 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | 200 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | 200 | < 100 | < 100 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0,1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 130 | 144 | 142 | 131 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |



| Client Sample ID | | and the second | TP1-0-0.3 | TP1-0.7-1.0 | TP2-0-0.3 | TP2-0.7-1.0 |
|---------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | A DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY | S22- Ap0009173 | S22- Ap0009174 | S22- Ap0009175 | S22- Ap0009176 |
| Date Sampled | | AAA-PRASSEROOO | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | 12 | 16 | 7.7 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | 0.5 | < 0.4 |
| Chromium | 5 | mg/kg | 6.4 | 21 | 39 | 12 |
| Copper | 5 | mg/kg | 11 | 5.4 | 59 | < 5 |
| Lead | 5 | mg/kg | 16 | 65 | 140 | 61 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | < 5 | 14 | < 5 |
| Zinc | 5 | mg/kg | 33 | 39 | 470 | 21 |
| | | - | | | | |
| % Moisture | 1 | % | 23 | 11 | 18 | 10 |

| Client Sample ID | | | TP3-0-0.3 | TP3-1.5-1.6 | TP4-0-0.3 | TP4-0.7-1.0 |
|---------------------------------------|------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009177 | S22- Ap0009178 | S22- Ap0009179 | S22- Ap0009180 |
| Date Sampled | | *************************************** | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | maccaciner | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | 65 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | 130 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | 195 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | - 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)N04 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2)N01 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | 190 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | 120 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | 310 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 11 | % | 62 | 136 | 133 | 123 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | 0.6 | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | 1.2 | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0,5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |



| Client Sample ID | | | TP3-0-0.3 | TP3-1.5-1.6 | TP4-0-0.3 | TP4-0.7-1.0 |
|------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009177 | S22- Ap0009178 | S22- Ap0009179 | S22- Ap0009180 |
| Date Sampled | Occas Massassassas | - Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Cont | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 78 | 67 | 75 | 75 |
| Tetrachloro-m-xylene (surr.) | 11 | % | 102 | 98 | 88 | 63 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 5.3 | 5.4 | 11 | 7.6 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 18 | 29 | 24 | 21 |
| Copper | 5 | mg/kg | 7,2 | 13 | 12 | 7.8 |
| Lead | 5 | mg/kg | 22 | 11 | 24 | 34 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | < 5 | < 5 | 6.7 |
| Zinc | 5 | mg/kg | 29 | 16 | 13 | 17 |
| % Moisture | 1 | 1 % | 10 | 15 | 16 | 16 |

| Client Sample ID | | | TP4-1.5-1.7 | TP5-0.2-0.3 |
|---------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------|
| Sample Matrix | | LEAD TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009181 | S22- Ap0009182 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | ************************************* | |
| Total Recoverable Hydrocarbons | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1)N04 | 20 | mg/kg | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 |
| BTEX | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 121 | 132 |



| Client Sample ID | | | TP4-1.5-1.7 | TP5-0.2-0.3 |
|------------------------------|-----|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins Sample No. | | | S22- Ap0009181 | S22- Ap0009182 |
| Date Sampled | | | Apr 05, 2022 | Apr 05, 2022 |
| Test/Reference | LOR | Unit | A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILES AND A MILE | |
| Polychlorinated Biphenyls | | | | |
| Aroclor-1016 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1221 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1232 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1242 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1248 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Aroclor-1254 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Araclar-1260 | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Total PCB* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 60 | 105 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 88 | 133 |
| Heavy Metals | | | | |
| Arsenic | 2 | mg/kg | 3.1 | 5.4 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 22 | 21 |
| Copper | 5 | mg/kg | 8.3 | 5.3 |
| Lead | 5 | mg/kg | 5.7 | 16 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | < 5 |
| Zinc | 5 | mg/kg | 8.1 | 16 |
| | | | | |
| % Moisture | 1 | % | 12 | 10 |



email: EnviroSales@eurofins.com web; www.eurofins.com.au

Company Name:

Alliance Geotechnical 10 Welder Road

Project Name:

MACQUARIE PARK

Sample Detail

Asbestos Absence /Presence

Alliance WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb

ногр

Moisture Set

NSW 2147 Seven Hills

Phone: Fax:

Contact Name: Priority: Received:

Michael Dunesky

3 Day Apr 11, 2022 Apr 5, 2022 11:30 AM

Eurofins Analytical Services Manager: Andrew Black

Report #: Order No. Eurofins Environment Testing Australia Pty Ltd

6 Monterey Road

Dandenong South VIC 3175 Phone: +61 3 8564 5000 NATA # 1261 Site # 1254 Girraween NSW 2066 Phone: +61 2 9900 8400 NATA # 1261 Site # 18217 Sydney 179 Magowar Road

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| ABN : 50 005 085 521 Telephone: +61 2 9900 8400 | Eurofins Environment Testing 179 Magowar Road, Girraween NSW, Australia, 2066 |
|-------------------------------------------------|-------------------------------------------------------------------------------|
| e: +61 2 9900 8400 | veen NSW. Au |
| 8400 | stralia, 2066 |

Date Reported:Apr 12, 2022

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TP3-1.5-1.6

Apr 05, 2022 Apr 05, 2022 Apr 05, 2022 Apr 05, 2022

Soil

S22-Ap0009178

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Soil Soil Soil Soil

S22-Ap0009177 S22-Ap0009176

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S22-Ap0009175

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TP2-0-0.3

TP2-0.7-1.0

TP3-0-0.3

Perth Laboratory - NATA # 2377 Site # 2370

External Laboratory

Sample ID

Sampling Time

Matrix

LAB ID

Soil

S22-Ap0009173

S22-Ap0009174

×

×

TP1-0-0.3

TP1-0.7-1.0

Apr 05, 2022 Apr 05, 2022 Sample Date Brisbane Laboratory - NATA # 1261 Site # 20794 Sydney Laboratory - NATA # 1261 Site # 18217 Melbourne Laboratory - NATA # 1261 Site # 1254

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Mayfield Laboratory - NATA # 1261 Site # 25079

Page 9 of 19



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email: EnviroSales@eurofins.com

The transfer to the sting

Eurofins Environment Testing Australia Pty Ltd

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Eurofins ARL Pty Ltd ABN: 91 05 0159 898

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Sydney Laboratory - NATA # 1261 Site # 18217 External Laboratory Perth Laboratory - NATA # 2377 Site # 2370 Mayfield Laboratory - NATA # 1261 Site # 25079 Brisbane Laboratory - NATA # 1261 Site # 20794 Melbourne Laboratory - NATA # 1261 Site # 1254 Company Name: Project Name: Address: MACQUARIE PARK NSW 2147 Seven Hills Alliance Geotechnical 10 Welder Road Sample Detail Asbestos Absence /Presence × N ногр × Fax: Phone: Report #: Order No.: 6 Moisture Set × Alliance WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb 10 × 02 9675 1888 877420 1800 288 188 **Eurofins Analytical Services Manager: Andrew Black** Priority: Contact Name: Received: Michael Dunesky Apr 11, 2022 Apr 5, 2022 11:30 AM

Test Counts



Quality Control Results

| Method Blank | Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|--------------------------------------------------|----------|------------|----------------------|----------------|--------------------|
| TRH C15C25 | Method Blank | | | | | | | |
| TRH C15-C28 | Total Recoverable Hydrocarbons | | | | | | | |
| TRH > C1D-C1S | TRH C10-C14 | mg/kg | < 20 | | | 20 | Pass | |
| TRH > C10-C15 TRH > C3-C4-C40 | TRH C15-C28 | mg/kg | < 50 | | | 50 | Pass | |
| TRH > C16-G34 | TRH C29-C36 | mg/kg | < 50 | | | 50 | Pass | |
| Method Blank | TRH >C10-C16 | mg/kg | < 50 | | | 50 | Pass | |
| Method Blank | TRH >C16-C34 | mg/kg | < 100 | | | 100 | Pass | |
| Polycyclic Aromatic Hydrocarbons | TRH >C34-C40 | mg/kg | < 100 | | | 100 | Pass | |
| Acenaphthene | Method Blank | | , | | | | | |
| Acenaphthylene | Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Anthracene | Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene mg/kg < 0.5 Pass Benzo(a)pyrene mg/kg < 0.5 | Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene mg/kg < 0.5 Pass Benzo(bb)filluoranthene mg/kg < 0.5 | Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&jilluoranthene mg/kg | Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g.h.i)perylene | Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | Benzo(g.h.i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a,h)anthracene mg/kg < 0.5 Pass Fluoranthene mg/kg < 0.5 | Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | Dibenz(a.h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene mg/kg < 0.5 0.5 Pass Phenanthrene mg/kg < 0.5 | Fluorene | mg/kg | < 0.5 | | | 0.5 | | |
| Naphthalene mg/kg < 0.5 0.5 Pass Phenanthrene mg/kg < 0.5 | Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene mg/kg < 0.5 0.5 Pass Method Blank Organochlorine Pesticides Chlordanes - Total mg/kg < 0.1 0.1 Pass 4.4"-DDD mg/kg < 0.05 0.05 Pass 4.4"-DDT mg/kg < 0.05 0.05 Pass 4.4"-DDT mg/kg < 0.05 0.05 Pass a-HCH mg/kg < 0.05 0.05 Pass Aldrin mg/kg < 0.05 0.05 Pass b-HCH mg/kg < 0.05 0.05 Pass Endosulfan I mg/kg < 0.05 0.05 Pass Endosulfan II mg/kg < 0.05 0.05 Pass < | Naphthalene | mg/kg | < 0.5 | | | 0.5 | · | |
| Pyrene | Phenanthrene | | | | | | | |
| Method Blank Organochlorine Pesticides Image: Chlordanes - Total Image: Chlorda | Pyrene | | · | | | | | |
| Chlordanes - Total mg/kg < 0.1 Pass 4.4'-DDD mg/kg < 0.05 | Method Blank | | | | | | | |
| Chlordanes - Total mg/kg < 0.1 Pass 4.4'-DDD mg/kg < 0.05 | Organochlorine Pesticides | | | | | | | |
| 4.4'-DDD mg/kg < 0.05 | | ma/ka | < 0.1 | | ********** | 0.1 | Pass | |
| 4.4'-DDE mg/kg < 0.05 | 4.4'-DDD | | | | | | | |
| 4.4'-DDT mg/kg < 0.05 | 4.4'-DDE | | | | | <u> </u> | i | |
| a-HCH mg/kg < 0.05 Pass Aldrin mg/kg < 0.05 | 4.4'-DDT | | | | | l | | |
| Aldrin mg/kg < 0.05 D.05 Pass b-HCH mg/kg < 0.05 | a-HCH | | 1 | | | i | · | |
| b-HCH mg/kg < 0.05 0.05 Pass d-HCH mg/kg < 0.05 | | 1 | | | | | - | |
| d-HCH mg/kg < 0.05 0.05 Pass Dieldrin mg/kg < 0.05 | | | İ | | | l | | |
| Dieldrin mg/kg < 0.05 0.05 Pass Endosulfan I mg/kg < 0.05 | | | 1 | | | i | | |
| Endosulfan I mg/kg < 0.05 Pass Endosulfan III mg/kg < 0.05 | | | 1 | | | İ | 1 | |
| Endosulfan II mg/kg < 0.05 Pass Endosulfan sulphate mg/kg < 0.05 | | | 1 | | | | i | |
| Endosulfan sulphate mg/kg < 0.05 Pass Endrin mg/kg < 0.05 | | | | | | ł | | |
| Endrin mg/kg < 0.05 Pass Endrin aldehyde mg/kg < 0.05 | | | 1 | | | İ | İ | |
| Endrin aldehyde mg/kg < 0.05 Pass Endrin ketone mg/kg < 0.05 | | | | | | | | |
| Endrin ketone mg/kg < 0.05 Pass g-HCH (Lindane) mg/kg < 0.05 | | | | | | | 1 | <u> </u> |
| g-HCH (Lindane) mg/kg < 0.05 Pass Heptachlor mg/kg < 0.05 | | | 1 | | | † | | |
| Heptachlor mg/kg < 0.05 Pass Heptachlor epoxide mg/kg < 0.05 | | | 1 | | | 1 | 1 | <u> </u> |
| Heptachlor epoxide mg/kg < 0.05 Pass Hexachlorobenzene mg/kg < 0.05 | | | | | | 1 | 1 | |
| Hexachlorobenzene mg/kg < 0.05 Pass Methoxychlor mg/kg < 0.05 | | | | | | i | | |
| Methoxychlor mg/kg < 0.05 Pass Toxaphene mg/kg < 0.5 | | | | <u> </u> | | 1 | | 1 |
| Toxaphene mg/kg < 0.5 Pass Method Blank Polychlorinated Biphenyls Image: Control of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pass of the pa | | | <u> </u> | | | 1 | | |
| Method Blank Polychlorinated Biphenyls | | | 1 | | | 1 | | - |
| Polychlorinated Biphenyls | | j mg/kg | 1 ~ 0.5 | l | | 1 0.5 | rass | |
| | | | | 1 | | | T | |
| 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Aroclor-1016 | mg/kg | < 0.1 | ļ | | 0.1 | Pass | |



| Te | st | | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|
| Endrin aldehyde | | | % | 84 | | 70-130 | Pass | |
| Endrin ketone | | | % | 80 | | 70-130 | Pass | |
| g-HCH (Lindane) | | | % | 83 | | 70-130 | Pass | |
| Heptachlor | | | % | 102 | | 70-130 | Pass | |
| Heptachlor epoxide | | | % | 88 | | 70-130 | Pass | |
| Hexachlorobenzene | | | % | 93 | | 70-130 | Pass | |
| Methoxychlor | | | % | 72 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | |
| Polychlorinated Biphenyls | | | | | | | | |
| Aroclor-1016 | | | % | 83 | | 70-130 | Pass | |
| Aroclor-1260 | | | % | 84 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | |
| Heavy Metals | | | | | | | | |
| Arsenic | | | % | 97 | | 80-120 | Pass | |
| Cadmium | | | % | 100 | | 80-120 | Pass | |
| Chromium | | | % | 99 | | 80-120 | Pass | |
| Copper | | | % | 98 | | 80-120 | Pass | |
| Lead | | | % | 98 | | 80-120 | Pass | |
| Mercury | | | % | 102 | | 80-120 | Pass | |
| Nickel | | | % | 101 | | 80-120 | Pass | |
| Zinc | | | % | 99 | | 80-120 | Pass | |
| | | QA | *************************************** | | | Acceptance | Pass | Qualifying |
| Test | Lab Sample ID | Source | Units | Result 1 | | Limits | Limits | Code |
| Spike - % Recovery | | | | T | T | | ı | |
| Total Recoverable Hydrocarbo | | | | Result 1 | | | | |
| TRH C6-C9 | S22-Ap0019946 | NCP | % | 91 | <u> </u> | 70-130 | Pass | |
| TRH C10-C14 | S22-Ap0009176 | CP | % | 86 | | 70-130 | Pass | |
| Naphthalene | S22-Ap0019946 | NCP | % | 105 | | 70-130 | Pass | |
| TRH C6-C10 | S22-Ap0019946 | NCP | % | 89 | | 70-130 | Pass | |
| TRH >C10-C16 | S22-Ap0009176 | CP | % | 83 | | 70-130 | Pass | |
| Spike - % Recovery | | | | Τ | T | | T | |
| BTEX | | | | Result 1 | | | | |
| Benzene | S22-Ap0019946 | NCP | % | 100 | | 70-130 | Pass | |
| Toluene | S22-Ap0019946 | NCP | % | 80 | | 70-130 | Pass | |
| Ethylbenzene | S22-Ap0019946 | NCP | % | 75 | | 70-130 | Pass | |
| m&p-Xylenes | S22-Ap0019946 | NCP | % | 82 | | 70-130 | Pass | |
| o-Xylene | S22-Ap0019946 | NCP | % | 83 | | 70-130 | Pass | |
| Xylenes - Total* | S22-Ap0019946 | NCP | % | 82 | | 70-130 | Pass | |
| Spike - % Recovery | | | | SCHOOLS CHARGE BOOK STATE | | | | |
| | | | | | | | | |
| Polycyclic Aromatic Hydrocart | oons | | | Result 1 | | | | |
| Polycyclic Aromatic Hydrocarl Acenaphthene | S22-Ap0015368 | NCP | % | Result 1 | | 70-130 | Pass | |
| | | NCP NCP | % | | | 70-130 70-130 | Pass Pass | |
| Acenaphthene | S22-Ap0015368 | | · | 106 | | i | | |
| Acenaphthene Acenaphthylene | S22-Ap0015368 S22-Ap0015368 | NCP | % | 106 123 | | 70-130 | Pass | |
| Acenaphthene Acenaphthylene Anthracene | S22-Ap0015368 S22-Ap0015368 S22-Ap0015368 S22-Ap0001091 | NCP NCP NCP | % % % | 106 123 110 125 | | 70-130 70-130 70-130 | Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0001091 \$22-Ap0015368 | NCP NCP NCP | % % % | 106 123 110 125 129 | | 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0001091 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP | % % % % | 106 123 110 125 129 130 | | 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene Benzo(g.h.i)perylene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0001091 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP NCP | % % % % % | 106 123 110 125 129 130 129 | | 70-130 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benza(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene Benzo(g.h.i)perylene Benzo(k)fluoranthene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap001091 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP NCP NCP | % % % % % | 106 123 110 125 129 130 129 114 | | 70-130 70-130 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene Benzo(g.h.i)perylene Benzo(k)fluoranthene Chrysene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap001091 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP NCP NCP NCP | % % % % % % | 106 123 110 125 129 130 129 114 116 | | 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene Benzo(g.h.i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a.h)anthracene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0001091 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP NCP NCP NCP NCP | % % % % % % % | 106 123 110 125 129 130 129 114 116 128 | | 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene Benzo(g.h.i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a.h)anthracene Fluoranthene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap001091 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP NCP NCP NCP NCP NCP | % % % % % % % % % % | 106 123 110 125 129 130 129 114 116 128 119 | | 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene Benzo(g.h.i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a.h)anthracene Fluoranthene Fluorene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0001091 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP NCP NCP NCP NCP NCP NCP | % % % % % % % % % % % % % | 106 123 110 125 129 130 129 114 116 128 119 | | 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass Pass Pass Pass | |
| Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b&j)fluoranthene Benzo(g.h.i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a.h)anthracene Fluoranthene | \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap001091 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 \$22-Ap0015368 | NCP NCP NCP NCP NCP NCP NCP NCP NCP | % % % % % % % % % % | 106 123 110 125 129 130 129 114 116 128 119 | | 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 | Pass Pass Pass Pass Pass Pass Pass Pass | |

Report Number: 877420-S



| Duplicate | | | | | | | | | |
|--------------------------------|---------------|------|--------|----------|----------|-----|-----------------------------------------|--------|-----------------------------------------|
| Polycyclic Aromatic Hydrocarbo | ns | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g.h.i)perylene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a.h)anthracene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1.2.3-cd)pyrene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | *************************************** |
| Phenanthrene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | S22-Ap0004807 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Duplicate | | | 199 | | | • | 3575 | . 4.00 | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachiorobenzene | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | S22-Ap0004807 | NCP | mg/kg | < 0.05 | < 0.5 | <1 | 30% | Pass | *************************************** |
| Ouplicate | 322-Ap0004007 | INCI | ј шулу | | | | 1 30 /8 | газэ | |
| Polychlorinated Biphenyls | | | | Result 1 | Result 2 | RPD | T | | |
| Aroclor-1016 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1221 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1232 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | | |
| Aroclor-1242 | S22-Ap0004807 | NCP | 1 | | 1 | İ | · · · · · · · · · · · · · · · · · · · | Pass | |
| Aroclor-1248 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Aroclor-1254 | S22-Ap0004807 | 1 | mg/kg | 1 | 1 | <1 | <u> </u> | Pass | |
| Aroclor-1260 | S22-Ap0004807 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| ALONOI-1500 | 322-Ap000480/ | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |



Comments

Sample Integrity

| Custody Seals Intact (if used) | N/A |
|-------------------------------------------------------------------------|-----|
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |
| | |

Qualifier Codes/Comments

| Quanner Co | des/Comments |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code | Description |
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |
| Q15 | The RPD reported passes Eurofins Environment Testing's OC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report. |
| | |

Authorised by:

Hannah Mawbey Analytical Services Manager
Gabriele Cordero Senior Analyst (NSW)
Chamath JHM Annakkage Senior Analyst (NSW)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Project Name Project ID

le M

MACQUARIE PARK

Apr 05, 2022 877420-AID

Date Sampled Report

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|------------------|------------------------|--------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| TP1-0-0.3 | 22-Ap0009173 | Apr 05, 2022 | Approximate Sample 337g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP1-0.7-1.0 | 22-Ap0009174 | Apr 05, 2022 | Approximate Sample 459g Sample consisted of: Brown coarse-grained sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP2-0-0.3 | 22-Ap0009175 | Apr 05, 2022 | Approximate Sample 484g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP2-0.7-1.0 | 22-Ap0009176 | Apr 05, 2022 | Approximate Sample 380g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP3-0-0.3 | 22-Ap0009177 | Apr 05, 2022 | Approximate Sample 498g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP3-1.5-1.6 | 22-Ap0009178 | Apr 05, 2022 | Approximate Sample 481g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP4-0-0.3 | 22-Ap0009179 | Apr 05, 2022 | Approximate Sample 391g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP4-0.7-1.0 | 22-Ap0009180 | Apr 05, 2022 | Approximate Sample 516g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|-------------------------|--------------|--------------|---------------------|
| Asbestos - LTM-ASB-8020 | Sydney | Apr 05, 2022 | Indefinite |
| Asbestos - LTM-ASB-8020 | Sydney | Apr 05, 2022 | Indefinite |

Report Number: 877420-AID



email: EnviroSales@eurofins.com web: www.eurofins.com.au

Company Name:

Alliance Geotechnical

Project Name:

MACQUARIE PARK

Sample Detail

Asbestos Absence /Presence

Allisnce WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb

ногр

Moisture Set

NSW 2147 Seven Hills 10 Welder Road

Fax:

02 9675 1888

Priority: Contact Name:

3 Day

Apr 11, 2022 Apr 5, 2022 11:30 AM

Michael Dunesky

Received:

Eurofins Analytical Services Manager: Andrew Black

Report #: Order No.: Phone:

my deligible

Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521

Melbourne

Sydney 179 Magowar Road 179 Magowar Road 75 Girraween NSW 2066 Phone: +61 2 9900 8400 NATA # 1261 Sile # 18217

Dandenong South VIC 3175 Phone: +61 3 8564 5000 NATA # 1261 Site # 1254 6 Monterey Road

Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600

Eurofins ARL Pty Ltd Eurofins Environment Testing NZ Limited

ad

Phone : +64 9 526 45 51 IANZ # 1327

| 91 05 0159 898 NZBN: 9429040 Auckland Banksia Road 35 O'Rorke Roa |
|-------------------------------------------------------------------|
|-------------------------------------------------------------------|

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Phone: +61 8 6253 4444

NATA # 2377 Sile # 2370

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone: +61 2 4968 8449
NATA # 1261 Site # 25079

NATA # 1261 Site # 20794

Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290

Date Reported: Apr 12, 2022 First Reported: Apr 11, 2022 3 12 = 10 9

TP4-FRAG

Apr 05, 2022

Building Materials

S22-Ap0009185

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TP3-0.7-1.0

Apr 05, 2022

TP5-0.2-0.3 TP4-1.5-1.7

Apr 05, 2022

S22-Ap0009182

× × × ×

× ×

Apr 05, 2022 Apr 05, 2022 Apr 05, 2022

Soil

S22-Ap0009181

Soil Soil

S22-Ap0009180

S22-Ap0009179

× ×

TP3-1.8-2.0

Apr 05, 2022

Soil Soil Soil

S22-Ap0009184 S22-Ap0009183

×

×

Perth Laboratory - NATA # 2377 Site # 2370

External Laboratory

TP4-0-0.3

TP4-0.7-1.0

Brisbane Laboratory - NATA # 1261 Site # 20794

Sydney Laboratory - NATA # 1261 Site # 18217 Melbourne Laboratory - NATA # 1261 Site # 1254

×

×

×

Mayfield Laboratory - NATA # 1261 Site # 25079



Internal Quality Control Review and Glossary General

- QC data may be available on request.
 All soil results are reported on a dry basis, unless otherwise stated
- Samples were analysed on an 'as received' basis
- Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results.

 Information identified on this report with the colour orange indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
- This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: F/fld Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w)

Airborne fibre filter loading as Fibres (N) per Fields counted (n)
Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C)

Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m) Concentration in grams per kilogram Volume, e.g. of air as measured in AFM ($V = r \times t$) a. ka

Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period L/min

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{a}\right) \times \left(\frac{1}{a}\right) \times \left(\frac{1}{a}\right) = K \times \left(\frac{N}{a}\right) \times \left(\frac{1}{a}\right)$

Asbestos Content (as asbestos): $\% w/w = \frac{(m \times P_A)}{2}$ Weighted Average (of asbestos): $\%_{WA} = \sum_{i=1}^{\frac{(m_i \times P_A)_{i}}{n}}$

Terms

HSG248

WA DOH

%ashestos Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 Appendix 2, else assumed to be 15% in accordance with WA DOH Appendix 2 (Pa).

ACM Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the

NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.

AF Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DDH. Includes loose fibre bundles and small pieces of friable and non-friable

material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable"

AFM Airborne Fibre Monitoring, e.g. by the MFM.

Amosite Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.

ΔS Australian Standard,

Asbestos Content (as asbestos) Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).

Chrysotile Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. coc

Crocidolite Crocidolite Asbestos Detected, Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos, Identified in accordance with AS 4964-2004, Dry Sample is dried by heating prior to analysis,

DS Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.

Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. FΑ

Fibre Count Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 Fibre ID

Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos, Friable

Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.

UK HSE HSG248, Ashestos: The Analysts Guide, 2nd Edition (2021),

HSG264 UK HSE HSG264, Asbestos: The Survey Guide (2012).

ISO (also ISO/IEC) International Organization for Standardization / International Electrotechnical Commission,

K Factor Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).

LOR Limit of Reporting.

Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003(2005)]. MFM (also NOHSC:3003)

NEPM (also ASC NEPM) National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).

Organic Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. PCM

Phase Contrast Microscopy. As used for Fibre Counting according to the MFM, Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. PLM

SMF Synthetic Mineral Fibre Detected, SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004,

SRA Sample Receipt Advice

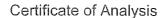
Trace Analysis Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix,

UK HSE HSG United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.

Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actindite, Anthophyllite or Tremolite asbestos. LIME

Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis

Weighted Average Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%wa).





Alliance Geotechnical 10 Welder Road Seven Hills NSW 2147





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates,

Attention:

Michael Dunesky

Report

879642-L

Project name

ADDITIONAL- MACQUARIE PARK

Received Date

Apr 12, 2022

| Client Sample ID | | *************************************** | TP2-0-0.3 |
|-----------------------------------|------|-----------------------------------------|---------------------|
| Sample Matrix Eurofins Sample No. | | NEOCHANA RAGANO COMPANION PARA | US Leachate S22- |
| • | | | Ap0026860 |
| Date Sampled | | | Apr 05, 2022 |
| Test/Reference | LOR | Unit | |
| Heavy Metals | | | |
| Lead | 0.01 | mg/L | < 0.01 |
| USA Leaching Procedure | | | |
| Leachate Fluid ^{C01} | | comment | 1.0 |
| pH (initial) | 0.1 | pH Units | 5.4 |
| pH (off) | 0.1 | pH Units | 5.1 |
| pH (USA HCl addition) | 0.1 | pH Units | 2.3 |

Report Number: 879642-L



web: www.eurofins.com.au

Project Name:

ADDITIONAL- MACQUARIE PARK

resq

ASU Leaching Procedure

Sample Detail

Address: Company Name:

Seven Hills

NSW 2147

Fax:

02 9675 1888

Priority: Contact Name:

Michael Dunesky

1 Day Apr 13, 2022 Received:

Apr 12, 2022 10:05 PM

Eurofins Analytical Services Manager: Andrew Black

Phone:

Report #: Order No.:

Alliance Geotechnical

10 Welder Road

Environment Testing

ABN: 50 005 085 521 Eurofins Environment Testing Australia Pty Ltd

Brisbane 1/21 Smallwood Place 1/21 Smallwood Place Murarrie QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 20794

ABN: 91 05 0159 898 Eurofins ARL Pty Ltd

Eurofins Environment Testing NZ Limited

NZBN: 9429046024954

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Melbourne Sydney Sydney 6 Monitory Road 179 Magowar Road Dandenong South VIC 3175 Giraween NSW 2066 Phone: +61 3 8564 5000 Phone: +61 2 9900 8400 NATA # 1261 Site # 18217

Newcastle
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4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone: +61 2 4958 8448
NATA # 1261 Site # 25079

46-48 Banksia Road Welshpool WA 6106 Phone: +61 8 6253 4444 NATA # 2377 Site # 2370

Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone: +64 9 526 45 51 IANZ # 1327

Christchurch 43 Datroit Drive Rolleston, Christchurch 7675 Phone: 0800 856 450 IANZ # 1290

Test Counts

TP2-0-0.3

Apr 05, 2022 Sample Date

US Leachate Matrix

S22-Ap0026860

×

×

LAB ID

Brisbane Laboratory - NATA # 1261 Site # 20794 Sydney Laboratory - NATA # 1261 Site # 18217 Melbourne Laboratory - NATA # 1261 Site # 1254

×

×

External Laboratory

8

Sample ID

Sampling Time

Perth Laboratory - NATA # 2377 Site # 2370 Mayfield Laboratory - NATA # 1261 Site # 25079



Quality Control Results

| | Test | • | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------|---------------|--------------|-------|----------|----------|-----|----------------------|----------------|--------------------|
| Method Blank | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Lead | | | mg/L | < 0.01 | | | 0.01 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Lead | | | % | 114 | | | 80-120 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | |
| Lead | S22-Ap0023805 | NCP | % | 101 | | | 75-125 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | | |
| Lead | S22-Ap0026637 | NCP | mg/L | 0.16 | 0.18 | 7.0 | 30% | Pass | |

Report Number: 879642-L



Certificate of Analysis

Environment Testing

Alliance Geotechnical 10 Welder Road Seven Hills **NSW 2147**





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025—Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:

Michael Dunesky

Report

882384-AID

Project Name

2 LYONPARK RD

Project ID

15030

Received Date

Apr 22, 2022

Date Reported

May 02, 2022

Methodology:

Asbestos Fibre Identification

Conducted in accordance with the Australian Standard AS 4964 - 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral **Fibres**

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-

sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestoscontaining material (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results

Outside of A3 4304 and history and history and history and history with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 %" and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the



Taronnent Testing

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|------------------|------------------------|--------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TP5_0_0.2 | 22-Ap0048263 | Apr 22, 2022 | Approximate Sample 89g Sample consisted of: Brown coarse-grained soil, organic debris and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| TP5_0.7_1 | 22-Ap0048264 | Apr 22, 2022 | Approximate Sample 210g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| N_0_0.5 | 22-Ap0048265 | Apr 22, 2022 | Approximate Sample 252g Sample consisted of: Brown coarse-grained soil, organic debris and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| N_0.5_1 | 22-Ap0048266 | Apr 22, 2022 | Approximate Sample 207g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| S_0_0.5 | 22-Ap0048267 | Apr 22, 2022 | Approximate Sample 227g Sample consisted of: Brown fine-grained clayey soil and rocks | Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of asbestos containing material = 4.2g* Total estimated asbestos content in the sample = 0.42g* Total estimated asbestos concentration = 0.19% w/w* Organic fibre detected. No trace asbestos detected |
| S_0.5_1 | 22-Ap0048268 | Apr 22, 2022 | Approximate Sample 193g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected |
| E_0_0.5 | 22-Ap0048269 | Apr 22, 2022 | Approximate Sample 147g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| E_0.5_1 | 22-Ap0048270 | Apr 22, 2022 | Approximate Sample 217g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| W_0_0.5 | 22-Ap0048271 | Apr 22, 2022 | Approximate Sample 190g Sample consisted of: Brown coarse-grained sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |
| W_0.5_1 | 22-Ap0048272 | Apr 22, 2022 | Approximate Sample 146g Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected. |

Date Reported: May 02, 2022



email: EnviroSales@eurofins.com web: www.eurofins.com.au

Address: Company Name:

Seven Hills NSW 2147

Phone: Fax:

Contact Name: Priority:

Michael Dunesky

5 Day Apr 29, 2022 Apr 22, 2022 5:45 PM

Received:

Eurofins Analytical Services Manager: Andrew Black

Report #: Order No.:

Alliance Geotechnical 10 Welder Road

Project ID: Project Name:

2 LYONPARK RD

Sample Detail

49648A - solsedaA

Alliance WAC Suite 2:TRH/BTEXN/PAH/M8/OCP/PCB/Asb

ногр

Moisture Set

Eurofins Environment Testing Australia Pty Ltd

Melbourne 6 Monterey Road ABN: 50 005 085 521

Dandenong South VIC 3175 Phone: +61 3 8564 5000 NATA # 1261 Site # 1254 Sydney
179 Magowar Road
179 Magowar Road
55 Girraween NSW 2066
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NATA # 1261 Site # 18217

Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 20794

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Christchurch 43 Datroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290

| ABN : | Eurofins Environment Testing 1/9 Magowar Road, Girraween NSW, Australia, 2066 |
|------------------------------------------------|-------------------------------------------------------------------------------|
| ABN: 50 005 085 521 Telephone: +61 2 9900 8400 | lesting |
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| 521 | Mag |
| Tele | lowa |
| phone: | r Koad, |
| +6129 | Girrawi |
| 900 | een |
| 8400 | WSW |
| | . Australia, |
| | 2006 |

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TP3 0.7 1 TP3_0_0.4

Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Sample Date

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Soil Soil

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Date Reported: May 02, 2022

4

TP2_0.7_1

TP1_0.1_0.3 TP1_0_0.1

TP2_0_0.4

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×

Soil Soil Perth Laboratory - NATA # 2377 Site # 2370 Mayfield Laboratory - NATA # 1261 Site # 25079 Brisbane Laboratory - NATA # 1261 Site # 20794 Sydney Laboratory - NATA # 1261 Site # 18217 Melbourne Laboratory - NATA # 1261 Site # 1254

External Laboratory

Sample ID

Sampling Time

Matrix

LAB ID

×

× × ×

×

×

×

Report Number: 882384-AID



email: EnviroSales@eurofins.com web: www.eurofins.com.au

Company Name: Address:

Alliance Geotechnical 10 Welder Road

Project ID: Project Name:

2 LYONPARK RD

Sample Detail

49642A - sotsødaA

Alliance WAC Suite 2:7RH/BTEXN/PAH/M8/OCP/PCB/Psb

ногр

Moisture Set

Seven Hills **NSW 2147**

Phone: Fax:

02 9675 1888

Eurofins Analytical Services Manager: Andrew Black

Report #: Order No.:

Due:

Received:

Contact Name: Priority:

Michael Dunesky

5 Day Apr 29, 2022 Apr 22, 2022 5:45 PM THOUSEN TOSLIS

Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521

6 Monterey Road Melbourne

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Perth

Eurofins ARL Pty Ltd

Eurofins Environment Testing NZ Limited Auckland NZBN: 9429046024954

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4/52 Industrial Drive
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Phone: +61 2 4966 8448
NATA # 1261 Site # 25079 46-48 Banksia Road Welshpool WA 6106 Phone: +61 8 6253 4444 NATA # 2377 Site # 2370

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19 18 17 16 15 14 13

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Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Apr 22, 2022 Apr 22, 2022

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S22-Ap0048269 S22-Ap0048268 S22-Ap0048267

_0_0.5

Perth Laboratory - NATA # 2377 Site # 2370 Mayfield Laboratory - NATA # 1261 Site # 25079 Brisbane Laboratory - NATA # 1261 Site # 20794 Sydney Laboratory - NATA # 1261 Site # 18217 Melbourne Laboratory - NATA # 1261 Site # 1254

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External Laboratory

S_0_0.5

Soil

S_0.5_1

Report Number: 882384-AID



Internal Quality Control Review and Glossary General

QC data may be available on request.
All soil results are reported on a dry basis, unless otherwise stated.
Samples were analysed on an 'as received' basis.

Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results. Information identified on this report with the colour orange indicates sections of the report not covered by the laboratory's scope of NATA accreditation.

This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w)

F/fld

Airborne fibre filter loading as Fibres (N) per Fields counted (n)
Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C)
Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m)

a. ka

g/kg L, mL Concentration in grams per kilogram Volume, e.g. of air as measured in AFM ($\mathbf{V} = \mathbf{r} \times \mathbf{t}$)

Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period L/min

Calculations

Airborne Fibre Concentration: $C = \left(\frac{\lambda}{2}\right) \times \left(\frac{N}{2}\right) \times \left(\frac{1}{2}\right) \times \left(\frac{1}{2}\right) = K \times \left(\frac{N}{2}\right) \times \left(\frac{1}{2}\right)$

Asbestos Content (as asbestos): $\sqrt[m]{w/w} = \frac{(m \times P_A)}{1}$ Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

Fibre Count

NEPM (also ASC NEPM)

WA DOH

%ashestos Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 Appendix 2, else assumed to be 15% in accordance with WA DOH Appendix 2 (P_A).

ACM Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the

NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.

AF Asbestos Fines, Asbestos contamination within a soil sample, as defined by WA DOH, Includes loose fibre bundles and small pieces of friable and non-friable

material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable"

AFM Airborne Fibre Monitoring, e.g. by the MFM.

Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. Amosite

ΔS Australian Standard

Asbestos Content (as asbestos) Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).

Chrysotile Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. coc

Crocidolite

Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.

Dry Sample is dried by heating prior to analysis.

DS Dispersion Staining, Technique required for Unequivocal Identification of asbestos fibres by PLM,

Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. FΑ

Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003

Fibre ID Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos,

Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. Friable

UK HSE HSG248, Asbestos: The Analysts Guide, 2nd Edition (2021),

HSG248 UK HSE HSG264, Asbestos: The Survey Guide (2012). HSG264

ISO (also ISO/IEC) International Organization for Standardization / International Electrotechnical Commission.

K Factor Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).

Limit of Reporting.

Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003(2005)]. MFM (also NOHSC:3003)

National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). Organic Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.

PCM Phase Contrast Microscopy. As used for Fibre Counting according to the MFM

PLM Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.

SMF Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004,

SRA Sample Receipt Advice

Trace Analysis Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.

UK HSE HSG United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.

Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. UMF

Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-

Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis Weighted Average Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%wa).

Eurofins Environment Testing 179 Magowar Road, Girraween NSW, Australia, 2066

Page 9 of 10

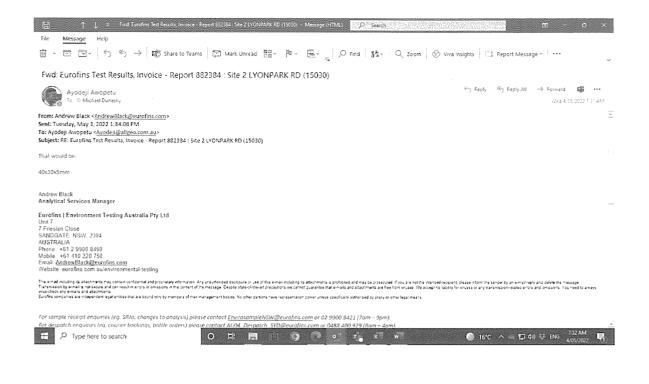


Table 1 Macqua Metals, 15030-t

| _ | | | | Varabum | A310/1301 | | | | PCB1 | | | | | Pesticides | | | | | | | | | | | | | PAHS | | | | | | | | | | | | Metals | | | | | Group | Macquarie Park Metals, BTEX, PAH, 15030-ER-1-1 Rev 1 | Table 1 - Results Summary |
|-------------------|-----------------|-----------|-----------------|--------------|--------------|-------------------------------------|-------------------------------------|--------------|--------------|--------------|--------------|-------------------|--------------|------------|--------------------|-----------|-----------------------------|-----------------|-----------|-----------|-------------|------------------------|----------|-------------|-----------------------|-----------|--------------------|------------------------|---------------------------|--------------------------|--------------------------|----------------|------------|--------------|----------------|--------|---------|-----------------|--------|--------|----------|---------|---------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------|
| September 1 Court | Xvienes - Total | Teluene | ing progression | trakterateur | Trivilla and | IRHC ₁₀ -C ₁₄ | TRH C ₈ · C ₈ | Naphthalene | Total FCBs | Toxaphere | Methaxychiar | Hexachlorobenzene | Heptachtor | Endrin | Endosulfan - Total | Chlordane | Aldrin and Dieldrin - Total | 900 + 300 + 100 | Total PAH | Porce | Naphthalene | Indeno(1.2.3-cd)pyrene | fluorene | Supranthene | Dibentia hjanthracene | Chrysene | Benzoig.n.iperyene | Benzn(b&j)fluoranthene | Benzo(a)pyrene TEQ (High) | Benzo(a)pyrene TEQ (Med) | Senic(a)pyrene TEO (Low) | Bento(a)pyrene | Anthracene | Acenaphthene | Accompathylene | Zinc | Notice! | (oad (leachate) | Lead | Capper | Chromium | Cadmium | Arsenic | Analyte | Macquarie Park Metals, BTEX, PAH, TRH, PCB, OCP and Asbestos 15030-ER-1-1 Rev 1 | its Summary |
| - | me/am | 34,344 | 1000 | Sv(Zen | 3x/3m | gr/gen | 31/3/11 | 38/300 | 21/30 | By/Sun | 3x/Jun | 24/30 | avg/vg | Sydia | By/Jun | 25/3/4 | My Sun | ang/am | mestice. | Section . | Se Chan | Br/3m | 28,2m | mg/kg | Frg/kg | Py Sun | Sa/Su | By Bus | 3s/3m | Befau | Sy/Jun | Mag/agrin | Bx/Sur | Bystan | Byffu | ang/kg | 37,000 | ngh | Br/Sun | Ba/But | M/Sur | 34/3m | 34/3m | Units | estos | |
| | 0.3 | 2 0 | | 2 2 | 2 2 | 8 | 20 | 0.5 | 0.01 | 0.1 | 02 | 005 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 05 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | us. | 5 | 0.01 | 5 | 5 | 5 | 0.4 | 2 | ZQ. | | |
| | | | | . | 1 3 | 10.00 | 650 | | G | | | | | | | | | | 38 | | | | | | | | | | | | | G W | | , | | | 5 | | 100 | | 100 | ž | 100 | GSW Criteria CT1 | | |
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| ; | :0.3 | 8 | 01 | 200 | 6 6 | 3 8 | 6 | 60.5 | 10.0> | 60.3 | <0.2 | 40.05 | 40.05 | <0.05 | <0.05 | <0.05 | <0.05 | 40.05 | 205 | 6 | â | â | 40.5 | 205 | \$0.5 | 2.03 | à | â | 1.2 | 0.6 | 2.0> | å | 6 6 | â | 6.5 | 8.1 | ۵ | 60 | 5.7 | a | 6.4 | 60.4 | ۵ | DATASET | | |
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| 5 | | | | | | | | | | | | | | | L | | | | | | | | L | | | | | | | | | | | | L | | | | | | | | | | \$22-Ap0648 | 769 |
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total Politis the sum of 16 USEPA priority Politis

Waste Classification Guickinnos' - NSW 179. 2014

Recurrently available criterion
Minimum / Maximum Value

Not Calculated

D / 100 Detect / Mon Detect

Concentration exceeding General Solid Waste Criteria CT1
Concentration exceeding Restricted Solid Waste Criteria CT2
Concentration exceeding General Solid Waste Criteria SCC1 / TUP1
Concentration exceeding Bearingted Solid Waste Criteria SCC1 / TUP1

| CONCRETE RESEASONS BEAUTIONS | Statistical medicannological description in the province of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state 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| Salvada | Stallane | Address | Contamination/ctivityType | ManagementCass | Lecitude | Longhade |
| MACOULARIE MELDS | Calter Service Station | 62 Harraid STREET | Service Station | | | |
| AMPLES PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF | Last service station | BRANCH STREET | Service Scatter | Regulation under CLM Act not required | -33.98957276 | 190 893 9661 |
| | | WWW. | *************************************** | | | |
| Macquarie Park | Caltex North Ryde Service Station | 41-43 Epping ROAD | Service Station | Regulation under CLSF Act not required | -53.70131236 | 151 1312244 |
| | | | | | | |
| | | | | | | |
| MACQUARIE PARK | 1-7 Waterieo Road, Macouarie Park | 1-7 Waterless ROAD | Other Patroleum | Regulation under CLM Act not required | -53 72506577 | 151 1502140 |
| | Parters Creek Depot - Proposed | | | | | |
| MACQUARIE FARK | Operations Censre Sice | 160 Weis 8040 | Ludfil | Regulation under CEM Act not required | 53.70501579 | 151 1367075 |
| | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | De Burgitz Cyclewey - Lane Cove National | | | | | |
| MACQUARIE PARK | Paris | Riverside DRIVE | Other Petroleum | Regulation under CLM Act not required | -35.77668925 | 151 136542 |
| | | | | | | |
| MATTLAND | Martane Gaments | Charles STREET | Gasworks | Contamination currently regulated under CLM Act | -32.73603658 | 151 5572926 |
| | | | | | *************************************** | |
| | | | | A | | |
| MAJTLAND | Hannan and High Street | Hannar Street and High STREET | Service Station | Regulation under CLM Act not required | -32.72731682 | 151 5515673 |
| | | | 1 | | | |
| MAJTLANO | Coles Evoress Service Station | 235 High STREET | Service Station | Regulation under CLM Act not required | -32,75923607 | 151 5620399 |
| | | | | | | |
| | | | | | | |
| MALABAR | ANIZAC Rifle Range former landfill | Franklin STREET | land69 | Regulation Being Shallised | -33 95792671 | 151 2566373 |
| | - | | | | | |
| MANDALONG | Mandalong Mine | Mandalone RCAD | Other Industry | Regulation under CLM Act not required | -33 11725383 | 151 4616451 |
| | | | | The grade of the second of the second of | 70 11:22000 | 472 794977 |
| | | | | | | |
| MANGROVE MOUNTAIN | Paultry Leter Containment Passe | 158 Warses RO40 | Unclassified | Regulation under CLM Act not required | -33 28617947 | 151 1672254 |
| | L . | | | | | |
| MANULA | Tamworth Regional Council Works Depos Manika | 73 Nover STREET | Other Petroleum | Regulation under CLM Act not required | 35.74679643 | 150 7181011 |
| | - 1 - | | | make error ser use updaged | · yy. 140/3943 | 130 /282011 |
| | 1 | | *************************************** | | | |
| MANEY | Calter Service Station | SS Permater ROAD | Service Station | Regulation under CLM Act not required | -33 79306889 | 151 22558630 |
| | | | | | | |
| MANGY | Open Space at end of Stuart Street (Lot 1 0#544297) | End of Square STREET | | | | |
| - | - J-4-65/3 | India wast Mati | Gapwerks | Regulation under CLM Act not required | -33 8078045 | 151 1898271 |
| | 1 | | | | | |
| MANLY | St Patrick's Estate | 151 Darley ROAD | Uncauphes | Regulation under CLM Act not required | -13 8044560 | 151 293059 |

List current as at 8 March 2022 69 of 129

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| Number | Name | <u>Location</u> | Туре | Status | Issued date |
| 13044 | CITY OF RVDE | 160 WICKS ROAD, MACQUARIE | POEO licence | Issued | 08 May 2009 |
| | | PARK, NSW 2113 | | | |
| <u>1113906</u> | CITY OF RYDE | 160 WICKS ROAD, MACQUARIE | s.58 Licence | Issued | 03 Aug 2010 |
| | | PARK, NSW 2113 | Variation | | |
| <u>1118584</u> | CITY OF RYDE | 160 WICKS ROAD, MACQUARIE | s.58 Licence | Issued | 18 Nov 2010 |
| | | | Variation | | |
| <u>1504092</u> | CITY OF RYDE | 160 WICKS ROAD, MACQUARIE | | Issued | 24 Feb 2012 |
| | | | Variation | | |
| <u>1508075</u> | CITY OF RYDE | 160 WICKS ROAD, MACQUARIE | | Issued | 29 Aug 2012 |
| * = 37 A = 0 | | | Variation | * . 8 | 22.5 |
| 1532458 | CITY OF RYDE | 160 WICKS ROAD, MACQUARIE | s.ox ucence Variation | Issued | 03 Sep 2015 |
| 1614037 | CITY OF RYDE | PARK, NSW 2113 160 WICKS ROAD, MACQUARIE | | C | 01 Nov 2021 |
| 1014031 | CIST OF RIDE | PARK, NSW 2113 | romphance Abbit | Complete | 01 W0V 2021 |
| 1606383 | CITY OF RYDE | 160 WICKS ROAD, MACQUARIE | e 59 licanea | Issued | 21 Dec 2021 |
| 100000 | | | Variation | 1227.07 | al Dec avai |
| 11735 | HOCHTIEF AG | | POEO licence | Surrendere | d04 Sep 2002 |
| | | 2113 | - 00 100 00- 1- 00 00- 1- 00 00- | | |
| 1021136 | HOCHTIEF AG | -, MACOUARIE PARK, NSW | s.58 Licence | Issued | 03 Oct 2002 |
| | | 2113 | Variation | | |
| 1022236 | HOCHTIEF AG | -, MACQUARIE PARK, NSW | s.58 Licence | Issued | 19 Nov 2002 |
| | | 2113 | Variation | | |
| 1024227 | HOCHTIEF AG | -, MACQUARIE PARK, NSW | s.58 Licence | Issued | 24 Jan 2003 |
| | | 2113 | Variation | | |
| 1024695 | HOCHTIEF AG | -, MACQUARIE PARK, NSW | s.58 Licence | Issued | 05 Feb 2003 |
| | | 2113 | Variation | | |
| 1025435 | HOCHTIEF AG | | s.58 Licence | Issued | 07 Mar 2003 |
| | | | Variation | | |
| <u>1025609</u> | HOCHTIEF AG | -, MACQUARIE PARK, NSW | s.58 Licence | Issued | 18 Mar 2003 |
| ****** | to a graph, graph of the first space over the graph. | | Variation | * * | |
| <u>1026362</u> | HOCHTIEF AG | -, MACQUARIE PARK, N5W 2113 | s.58 Licence | Issued | 16 May 2003 |
| 1027792 | HOCHTIEF AG | -, MACQUARIE PARK, NSW | Variation s.58 Licence | Issued | 13 Jun 2003 |
| 2941/34 | nochier Mo | _ | Variation | 1220,40 | 19 300 5003 |
| 1028574 | HOCHTIEF AG | | s.58 Licence | Issued | 27 Jun 2003 |
| 2020011 | 45 W W S S S S W S S S S S S S S S S S S | * | Variation | 1230.00 | 27 300 2003 |
| 1028809 | HOCHTIEF AG | -, MACQUARIE PARK, NSW | s.58 Licence | Issued | 04 Jul 2003 |
| | | * | Variation | | |
| 1028972 | HOCHTIEF AG | -, MACQUARIE PARK, NSW | s.58 Licence | Issued | 11 Jul 2003 |
| | | 2113 | Variation | | |
| | | | | | 12345 |
| | | | | | |

06 April 2022

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| 1035772 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 30 Mar 2004 |
| <u>1036202</u> | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 21 Apr 2004 |
| <u>1036587</u> | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 30 Apr 2004 |
| 1037117 | HOCHTIEF AG | -, MACQUARIE PARK. NSW 2113 | s.58 Licence Variation | Issued | 20 May 2004 |
| <u>1038510</u> | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 03 Aug 2004 |
| 1039737 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 10 Aug 2004 |
| 1039827 | HOCHITIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 13 Aug 2004 |
| 1040010 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 25 Aug 2004 |
| 1040389 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 03 Sep 2004 |
| 1041456 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 14 Oct 2004 |
| 1041576 | HOCHTIEF AG | MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 21 Oct 2004 |
| 1042053 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 05 Nov 2004 |
| 1042245 | HOCHTIEF AG | MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 12 Nov 2004 |
| 1042739 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 08 Dec 2004 |
| 1044133 | HOCHTIEF AG | -, MACQUARIE PARK, N5W 2113 | s.58 Licence Variation | Issued | 07 Feb 2005 |
| 1044838 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 25 Feb 2005 |
| 1046135 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 01 Apr 2005 |
| 1047127 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 29 Apr 2005 |
| 1048083 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 02 Jun 2005 |
| 1048777 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.58 Licence Variation | Issued | 16 Jun 2005 |
| | | | | | <u>12</u> 3 <u>45</u> |

06 April 2022

Search results

Your search for: General Search with the following criteria

Suburb - macquarie park

returned 85 results

| Export to exc | el | 5 of 5 Pages | | | Search Again |
|----------------|------------------------------|--------------------------------------------------|-----------------------------|--------------------|---------------|
| <u>Number</u> | Name | <u>Location</u> | Lype | Status | Issued date |
| 1087564 | HOCHTIEF AG | | s.58 Licence Variation | Issued | 22 May 2008 |
| 1104864 | HOCHTIEF AG | -, MACQUARIE PARK, NSW 2113 | s.80 Surrender of a Licence | Issued | 14 Aug 2009 |
| <u>11916</u> | MAN DIESEL AUSTRALIA PTY LTD | 36-42 WATERLOO ROAD, MACQUARIE PARK, NSW 2113 | POEO licence | No longer in force | 29 May 2003 |
| 1050941 | MAN DIESEL AUSTRALIA PTY LTD | 36-42 WATERLOO ROAD, MACQUARIE PARK, NSW 2113 | | Issued | 11 Sep 2005 |
| <u>1565069</u> | Zinfra Pty Etd | 1A Talavera Road, MACQUARIE PARK, NSW 2113 | s.55 Licence Refusal | Issued | 24 May 2018 |
| | | | | | <u>1234</u> 5 |
| | | | | | 06 April 2022 |

| | A B C D E | F | G H I I J K I | L |
|----------|-------------------------------------------------|-----------------------------------------|-----------------------------------------------------------|-------------|
| 1 | UCL Statis | tics for Unce | ensored Full Data Sets | |
| 2 | | | | |
| 3 | User Selected Options | | | |
| 4 | Date/Time of Computation ProUCL 5.114/04/2022 1 | 0:43:34 AM | | |
| 5 | From File WorkSheet.xls | | | |
| 6 | Full Precision OFF | | · · · · · · · · · · · · · · · · · · · | |
| 7 | Confidence Coefficient 95% | | | |
| 8 | Number of Bootstrap Operations 2000 | | | |
| 9 | | *************************************** | | |
| 10 | CO | | | |
| | | | | |
| 12 | | General S | Statistics | |
| 13 | Total Number of Observations | 8 | Number of Distinct Observations | 7 |
| 14 | | | Number of Missing Observations | 0 |
| 15 | Minimum | 16 | Mean | 47.25 |
| 16 17 | Maximum | 140 | Median | 29 |
| 18 | SD | 42.11 | Std. Error of Mean | 14.89 |
| 19 | Coefficient of Variation | 0.891 | Skewness | 1.821 |
| 20 | | | | |
| 21 | Note: Sample size is small (e.g., <10 |)), if data are | e collected using ISM approach, you should use | |
| 22 | guidance provided in ITRC Tech Reg | Guide on IS | SM (ITRC, 2012) to compute statistics of interest. | |
| 23 | For example, you may want to | use Cheby | shev UCL to estimate EPC (ITRC, 2012). | |
| 24 | Chebyshev UCL can be computed u | sing the No | nparametric and All UCL Options of ProUCL 5.1 | |
| 25 | | | | |
| 26 | | Normal G | GOF Test | |
| 27 | Shapiro Wilk Test Statistic | 0.772 | Shapiro Wilk GOF Test | ······ |
| 28 | 5% Shapiro Wilk Critical Value | 0.818 | Data Not Normal at 5% Significance Level | |
| 29 | Lilliefors Test Statistic | 0.248 | Lilliefors GOF Test | |
| 30 | 5% Lilliefors Critical Value | 0.283 | Data appear Normal at 5% Significance Level | |
| 31 | Data appear Appr | oximate No | rmal at 5% Significance Level | |
| 32 | | | | |
| 33 | | suming Norr | nal Distribution | |
| 34 | 95% Normal UCL | | 95% UCLs (Adjusted for Skewness) | |
| 35 | 95% Student's-t UCL | 75.46 | 95% Adjusted-CLT UCL (Chen-1995) | 81.98 |
| 36 | | | 95% Modified-t UCL (Johnson-1978) | 77.06 |
| 37 | | Gamma (| POE Tont | |
| 38 | A-D Test Statistic | 0.473 | Anderson-Darling Gamma GOF Test | |
| 39 | 5% A-D Critical Value | 0.473 | Detected data appear Gamma Distributed at 5% Significance | a Level |
| 40 | K-S Test Statistic | 0.723 | Kolmogorov-Smirnov Gamma GOF Test | .c Level |
| 41 | 5% K-S Critical Value | 0.221 | Detected data appear Gamma Distributed at 5% Significance | e l evel |
| 42 | | | stributed at 5% Significance Level | |
| 43 | Socolog data appear | | | |
| 44 | | Gamma | Statistics | |
| 45 | k hat (MLE) | 1.907 | k star (bias corrected MLE) | 1.275 |
| 46 | Theta hat (MLE) | | Theta star (bias corrected MLE) | 37.05 |
| 47 48 | nu hat (MLE) | | nu star (bias corrected) | 20.41 |
| 48 | MLE Mean (bias corrected) | 47.25 | MLE Sd (bias corrected) | 41.84 |
| 50 | · , | | Approximate Chi Square Value (0.05) | 11.15 |
| 51 | Adjusted Level of Significance | 0.0195 | Adjusted Chi Square Value | 9.469 |
| 52 | | | | |
| 53 | As | suming Garr | nma Distribution | |
| 54 | 95% Approximate Gamma UCL (use when n>=50)) | 86.47 | 95% Adjusted Gamma UCL (use when n<50) | 101.8 |
| | | · | · | |



Address: 8-10 Welder Road,

Seven Hills NSW 1730

ABN: 62 106 885 214 **Phone:** 1800 288 188

Email: admin@allgeo.com.au
Website: www.allgeo.com.au

Asbestos Clearance Certificate

| Certificate Reference | 15030-ER-2-1 | Certificate Date | | 16/05/202 | 2 | |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------|---------|-------------------------------------------|-------------|--------------------|
| Definition of Clearance Inspection (Work Health and Safety Regulation 2017, Reg 473, Part (5) (a) and (b)) | An inspection of an asbest been completed to verify the includes a visual inspe | nat the area is safe fo | | | | } |
| CLIENT DETAILS | | | | | | - 15 12 - 150 T |
| Client | Christie Civil Pty Ltd | | | X 1 1 1 2 2 1 3 2 1 1 1 2 1 1 1 1 1 1 1 1 | | |
| Client project name | Road Bridge Construction | | | | | |
| CLEARANCE INSPECTION | DETAILS | | | 17 | | |
| Site address | | 2 Lyonpark Road, I | Macqua | rie Park NS | W 2113 | |
| Lot and DP | | Lot 101 in DP 1263727 | | | | |
| Nature of asbestos removal | work | Bonded Excavation 400m² area inspec | ted | | | |
| Details of specific asbestos r | removal work area(s) | Refer to site plan in | n Appen | dix A | | |
| Date of removal works | | Start 06/05/2 | 022 | Finish: | 06/05/2 | 022 |
| Contact details of Licensed | Class A/B Asbestos | Company Name: | | Christie C | ivil Pty Lt | d |
| Removalist | | Company License | No.: | AD21109 | 4 | |
| | | Supervisor Contac | t No.: | 04120041 | 64 | |
| Date and time of clearance i | 07/05/2022 at 07:0 | 0 | | | | |
| Name of LAA or Competent Person doing inspection Ayodeji Awopetu | | | | | | |
| ASBESTOS REMOVAL DO | CUMENTATION | | | | | |
| Was a copy of the asbestos removal control plan (ARCP | |) provided? | Yes | ⊠ No | □ N/ | Ά 🗌 |
| Was a copy of the asbestos removal works notification for | | orm provided? Yes No No | | N/ | /A 🗌 | |
| Is the removal work (e.g. use waste facilities) consistent w | | | | ⁄Α 🗌 | | |
| ASBESTOS REMOVAL WO | DRK AREA | | | 400 | | |
| Was visible asbestos residu removal work area or in the was carried out? | | | Yes 🗆 |] No 🗵 |] N/A | <i>+</i> |
| Was visible asbestos residu and/or waste route? | e found on the surface of the | transit route | Yes 🗆 |] No ⊠ |] N/A | <i>i</i> |

| Was air monitoring undertaken as part of the removal works and the results were less than 0.01 fibres/mL? | Yes 🗌 | No 🗌 | N/A 🗵 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-----------------------------------------|
| Were the air monitoring samples been analysed by a NATA-accredited laboratory or a laboratory approved by the WHS regulator? | Yes 🗌 | No 🗆 | N/A 🗵 |
| Where air monitoring was part of the clearance inspection, Is the air monitoring report attached? | Yes 🗌 | No 🗆 | N/A 🗵 |
| Were validation samples collected from within the removal area? If yes, how many? | Yes 🗌 | No 🗵 | If yes, how many? |
| Was asbestos detected, using NATA accredited methods, in the samples collected? | Yes 🗌 | No 🗆 | N/A ⊠ |
| Is the Laboratory Certificate of Analysis attached? | Yes 🗌 | No 🗆 | N/A 🗵 |
| ENCLOSURES | | | T. |
| Prior to dismantling the enclosure | | 1,525-2-16-2 | 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
| Was the exposed surfaces of, the area within the enclosure and the area immediately surrounding the enclosure, inspected and no visible asbestos residue observed? | Yes 🗵 |] No [| N/A 🗆 |
| Was air monitoring undertaken as part of the clearance inspection and the results was less than 0.01 fibres/mL? | Yes 🗆 |] No [| N/A |
| Has the air monitoring sample been analysed by a NATA-accredited laboratory or a laboratory approved by the WHS regulator? | Yes 🗆 |] No [|] N/A 🗵 |
| Is the air monitoring report attached? | Yes 🗆 |] No [| N/A 🗵 |
| How many validation samples were collected? | | X | N/A ⊠ |
| Was asbestos detected, using NATA accredited methods, in the samples collected? | Yes 🗆 |] No [|] N/A 🗵 |
| Can the enclosure be dismantled? | Yes 🗵 | No [|] N/A 🗆 |
| After the enclosure is dismantled and remo | oved | | |
| Was the exposed surfaces of, area where the enclosure was erected and the area immediately surrounding where the enclosure was erected, inspected and no visible asbestos residue observed. | Yes 🗵 | S No □ | N/A 🗆 |
| ASBESTOS CLEARANCE DECLARATION | | | |
| In the context of asbestos risk, Alliance Geotechnical declares that, as at the | ne date and | time of the | inspection: |
| - The asbestos removal work area inspected is free of visible asbestos and suitable for reoccupation? | Yes 🗵 | No □ |] N/A 🗆 |
| - The former enclosure area inspected is free of visible asbestos and suitable for reoccupation? | Yes 🗵 | No [|] N/A 🗆 |
| - The transit route and waste route inspected is free of visible asbestos and suitable for reoccupation? | Yes 🗵 | No [|] N/A 🗆 |
| This declaration must be read in conjunction with the Limitations set out be Information About This Report" statement. | low, and the | e attached " | Important |



LIMITATIONS

This clearance inspection was undertaken with reference to industry accepted practice and was limited to exposed surfaces within the areas nominated in this report that were accessible at the date and time of the inspection. Areas below those surfaces, or adjacent to the nominated areas are not addressed in this certificate and may contain asbestos.

No inspection can be regarded as absolute. Alliance does not warrant or guarantee that all visible asbestos material has been removed, and subsequently, Alliance does not accept liability or responsibility for the completeness of asbestos removal works.

If material suspected of containing asbestos is identified after the date and time of the inspection reported in this clearance certificate, activities should be stopped immediately, access to the area where the material was observed should be restricted, and Alliance contacted for further advice.

REFERENCES

NSW Government 2019, 'Code of Practice: How to manage and control asbestos in the workplace', dated August 2019

NSW Government 2019, 'Code of Practice: How to safely remove asbestos', dated August 2019 SafeWork NSW, 'Non-Friable Asbestos Clearance Certificate – No Air Monitoring', Catalogue No. SW08272 Work Health and Safety Act 2011

Work Health and Safety Regulation 2017

For and on behalf of Alliance Geotechnical Pty Ltd

V

Ayodeji Awopetu Graduate Environmental Consultant

Attached

Important Information About This Report
Appendix A – Asbestos Removal Work Area Figure
Appendix B – Photographs of Asbestos Removal Work Areas

Ref: 15030-ER-2-1

Important Information About This Report

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This report must be reviewed in its entirety and in conjunction with the objectives, scope and terms applicable to Alliance's engagement. The report must not be used for any purpose other than the purpose specified at the time Alliance was engaged to prepare the report.

The findings presented in this report are based on specific data and information made available during the course of this project. To the best of Alliance's knowledge, these findings represent a reasonable interpretation of the general condition of the site at the time of report completion.

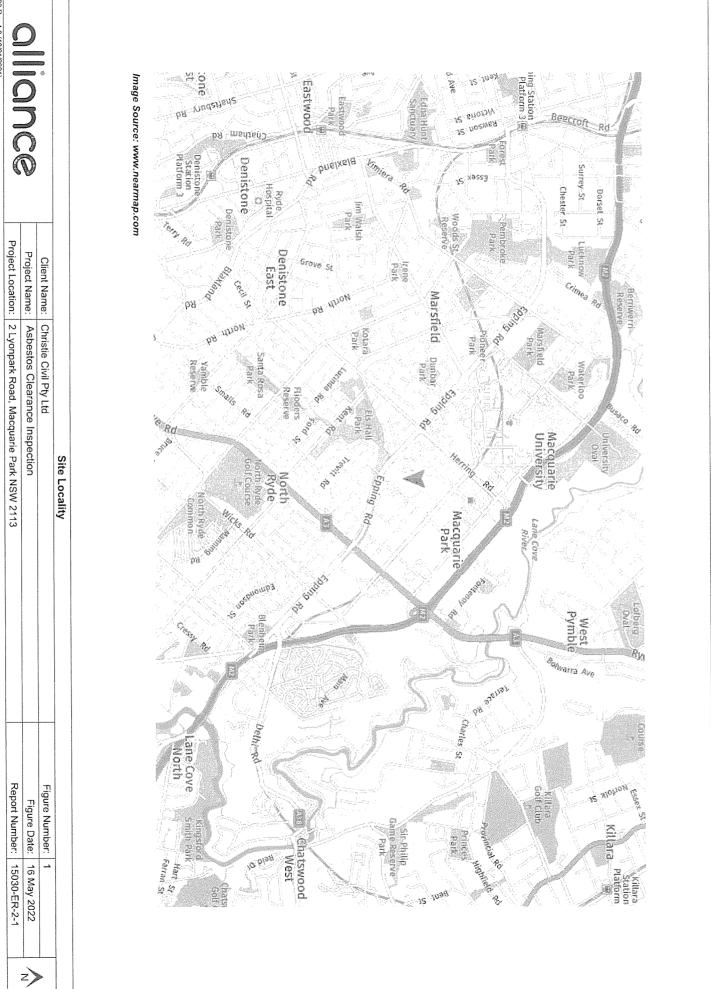
No warranties are made as to the information provided in this report. All conclusions and recommendations made in this report are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Alliance.

Logs, figures, and drawings are generated for this report based on individual Alliance consultant interpretations of nominated data, as well as observations made at the time fieldwork was undertaken.

Data and/or information presented in this report must not be redrawn for its inclusion in other reports, plans or documents, nor should that data and/or information be separated from this report in any way.

Should additional information that may impact on the findings of this report be encountered or site conditions change, Alliance reserves the right to review and amend this report.

Appendix A – Asbestos Removal Work Area Figure





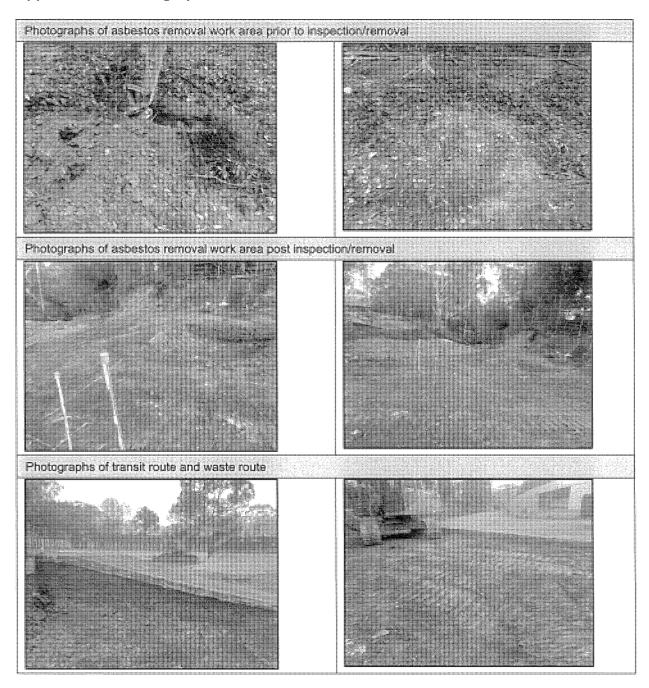


Sample Locations

| Project Location: | Project Name: | Client Name: | |
|------------------------------------------------------------|---------------------------------------------|-------------------------------------|--|
| Project Location: 2 Lyonpark Road, Macquarie Park NSW 2113 | Project Name: Asbestos Clearance Inspection | Client Name: Christie Civil Pty Ltd | |
| Report Number: | Figure Date: | Figure Number: | |
| ımber: 15030-ER-2-1 | Date: 16 May 2022 | 2 | |



Appendix B - Photographs of Asbestos Removal Work Areas



TRUCK TIPPING SHEET

SOPF3.07.6 Truck Tipping Sheet 30/04/09 Issue B

| OI Ztr | , | | | | | | | | | | | | |
|------------------------------|----------|------------|--------------------|------|------|----|------|----------------|----|----|---|----|--------|
| Truck Subcontractor Material | Material | rial Truck | Source | | | | Depa | Departure Time | ne | | | | Total |
| | , | | | - | 2 3 | 4 | 2 | 9 | 7 | 00 | 6 | 10 | Volume |
| CO SOPR/BINGO/ MM | ACM. | 127 +27 | Abutwent By Brichy | 7:30 | | | | | | | | | |
| DOCHWART BUNDED | Alan | (topula le | | | | | | | | | | | |
| DIKET BINGS | ACM | 121+357 | Abutment B, bridge | 2 | 2:30 | | | | | | | | |
| | | (1+0) | | | | | | | | | | | |
| COSOPR BING | Acm | 12T+26T | Abutment B, Bridge | | 9:30 | 30 | | | | | | | |
| | | (T+D) | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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Eastern Creek Ecology Park

Bingo Waste Services Pty Ltd

A.B.N 43162988623

1 Kangaroo Avenue

EASTERN CREEK NSW 2766

Phone: 1300 424 646

Docket GEN1424010-1

Date: 06/05/22

Time In: 8:28:19 AM | Time Out: 8:43:02 AM

Customer

Christie Civil Pty Ltd

2 Lyonpark Rd

MACQUARIE PARK

PO: IVANHOE LPR

Vehicle: CO80PR

 Type
 UOM
 Qty.

 Gross:
 Tonne
 52.96

 Tare:
 Tonne
 18.02

Net: Incoming: Asbestos Soils Tonne 34.94

Driver Name: Rod

Printed: 23/05/2022 6:13:45 PM

Statement of Compliance

You are under the instruction of site personnel

All machinery has right of way at all times

No hazardous materials are accepted

All Drivers must check axle weights and GVM

All Drivers must check axle weights and GVM All loads must be adequately restrained

You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws

Any breaches of the above may be subject to extra charges

Quote Contract Reference No. 68458 for faster service.

Eastern Creek Ecology Park

Bingo Waste Services Pty Ltd

A.B.N 43162988623

1 Kangaroo Avenue

EASTERN CREEK NSW 2766

Phone: 1300 424 646



Docket GEN1424054-1

Date: 06/05/22

Time In: 9:06:19 AM | Time Out: 9:20:36 AM

Customer

Christie Civil Pty Ltd

2 Lyonpark Rd

MACQUARIE PARK

PO: IVANHOE LPR

Vehicle: 001KBT

| Туре | UOM | Qty. |
|-------------------------------|-------|-------|
| Gross: | Tonne | 53.30 |
| Tare: | Tonne | 18.54 |
| Net: Incoming: Asbestos Soils | Tonne | 34.76 |

Driver Name: Serg

Printed: 23/05/2022 6:13:45 PM

Statement of Compliance

You are under the instruction of site personnel All machinery has right of way at all times No hazardous materials are accepted All Drivers must check axle weights and GVM

All loads must be adequately restrained You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws

Any breaches of the above may be subject to extra charges

Quote Contract Reference No. 68458 for faster service.

Eastern Creek Ecology Park

Bingo Waste Services Pty Ltd

A.B.N 43162988623

1 Kangaroo Avenue

EASTERN CREEK NSW 2766

Phone: 1300 424 646



Docket GEN1424126-1

Date: 06/05/22

Time In: 10:23:30 AM | Time Out: 10:36:40 AM

Customer

Christie Civil Pty Ltd

2 Lyonpark Rd

MACQUARIE PARK

PO: IVANHOE LPR

Vehicle: CO80PR

UOM Type Qtv. Gross: Tonne 58.14 17.94 Tare: Tonne

Net: Incoming: Asbestos Soils Tonne 40.20

Driver Name: Rod

Printed: 23/05/2022 6:13:45 PM

Statement of Compliance

You are under the instruction of site personnel

All machinery has right of way at all times No hazardous materials are accepted

All Drivers must check axle weights and GVM

All loads must be adequately restrained

You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws

Any breaches of the above may be subject to extra charges

Quote Contract Reference No. 68458 for faster service.