

# Planning and Strategy Committee of the Whole

8 May 2019

# UNDER SEPARATE COVER ATTACHMENTS

**ITEM 5.2** 

# QUEANBEYAN-PALERANG REGIONAL COUNCIL PLANNING AND STRATEGY COMMITTEE OF THE WHOLE

## ATTACHMENTS – 8 May 2019 Page i

Item 5.2	Planning Proposal - West Jerrabomberra				
	Attachment 1	Planning Proposal for West Jerrabomberra - Amended November 2018 for Exhibition	1		
	Attachment 2	Summary and Assessment of Submissions	36		
	Attachment 3	Report re Stone-faced Brick Building at North Tralee	55		
	Attachment 4	Nth Tralee Contamination Study August 2018	72		

# QUEANBEYAN-PALERANG REGIONAL COUNCIL

Planning and Strategy Committee of the Whole Meeting
Attachment

## 8 MAY 2019

ITEM 5.2 PLANNING PROPOSAL - WEST JERRABOMBERRA

ATTACHMENT 1 PLANNING PROPOSAL FOR WEST JERRABOMBERRA - AMENDED NOVEMBER 2018 FOR EXHIBITION

# **Planning Proposal** West Jerrabomberra **Queanbeyan-Palerang Regional Council** October 2018



Ref: SF150180 C18150931

Offices: Council headquarters – 256 Crawford St

Bungendore Office – 10 Majara St Braidwood Office – 144 Wallace St

**Contact: P:** 1300 735 025

**E:** council@qprc.nsw.gov.au **W:** www.qprc.nsw.gov.au

#### **Table of Contents**

Introduc	etion	4
Part 1	Objectives and Intended Outcomes	6
Part 2	Explanation of Provisions	6
Part 3	Justification	13
Sect	ion A – Need for the planning proposal	13
Sect	ion B – Relationship to strategic planning framework	14
Sect	ion C – Environmental, social and economic impact	18
Sect	ion D – State and Commonwealth interests	18
Part 4	Mapping	19
Part 5	Community Consultation	19
Part 6	Project Timeline	19
Append	ix A – Draft Maps	21
Append	ix B - Calibre Flood Study January 2010 and WMA Water Review February 2016 & September 2016	30
Append	ix C – Site Investigation for Contamination Douglas Partners Augus	
Append	ix D – ANEF Contours Over West Jerrabomberra	32

### Introduction

Queanbeyan-Palerang Regional Council has prepared this planning proposal in order to zone additional land at West Jerrabomberra for employment uses, open space and environmental conservation purposes.

This planning proposal has been under consideration for a number of years and was previously being progressed only in respect of the land known as North Tralee to the south of Jerrabomberra Creek. It is now intended to progress this proposal as an amendment to *Queanbeyan Local Environmental Plan (LEP) (Poplars) 2013* which will also be subsequently renamed to *Queanbeyan LEP (West Jerrabomberra) 2019* when the plan is made.

The key outcomes of the proposal are to:

- rezone land at North Tralee for employment related uses, namely IN2 Light Industry and B7 Business Park. A significant part of this area has also been identified as the likely location for a proposed Regional Sports Complex which is permissible under both zones,
- 2. rezone existing RE2 Private Recreation at South Poplars to B7 Business Park in order for the land to be used as a future school site, and
- 3. rezone existing RE2 Private Recreation land at North Poplars (previously identified for Regional Sports Complex) to B7 Business Park, primarily to replace the B7 Business Park at North Tralee now identified for the Regional Sports Complex.

Due to both North Tralee and The Poplars being located within the Australian Noise Exposure Forecast (ANEF) 20 contour for Canberra Airport, neither area is considered suitable for residential development. The land is however considered appropriate for employment and recreational related purposes. A map illustrating the respective ANEF contours against the site is shown at Appendix D.

The site is also considered to be conditionally suitable for educational establishments, provided appropriate acoustic attenuation is incorporated during construction, consistent with Australian Standard *AS2021-2015 Acoustics, Aircraft noise intrusion-Building siting and construction*. The school site is required to be provided under the endorsed State Planning Agreement applying to the land.

The land will also be zoned to reflect any environmental constraints on the site. The existing land zoned E2 Environmental Conservation on The Poplars will remain unchanged.

The land subject to this planning proposal comprises the following lots:

- Lot 1 DP 399170
- Lot 1 DP 1243031
- Lot 2 DP 1243031
- Lot 3 DP 819333
- Lot 1 DP 1126721
- Lot 2 DP 338637

- Lot 6 DP 719108
- Lot 12 DP 1135538
- Lot 1 DP 323002
- Lot 1 DP 333443
- Lot 1 DP 313299
- Lot 6 DP 239080
- Lot 3 DP 239080

The land is currently greenfield and is subject to three environmental planning instruments:

- Queanbeyan Local Environmental Plan (Poplars) 2013,
- Queanbeyan Local Environmental Plan 1998, and
- Queanbeyan Local Environmental Plan (LEP) 1991.

Lot 1 DP 323002 and Lot 1 DP 333443 are zoned 1(a) (Rural A Zone) under *Queanbeyan Local Environmental Plan (LEP) 1991*. This draft plan will formally repeal *Queanbeyan Local Environmental Plan 1991* in its entirety when made.

Lot 1 DP 313299, Lot 6 DP 239080 and Lot 3 DP 239080 are currently zoned 1(a) (Rural A Zone) under Queanbeyan LEP 1998.

The remaining lots are subject to the *Queanbeyan Local Environmental Plan (Poplars) 2013* and are currently zoned as B1 Neighbourhood Centre, B7 Business Park, RE2 Private Open Space and E2 Environmental Conservation.

The area subject to the planning proposal is shown on Map 1 below.

Map 1: Land Subject to the Planning Proposal



## Part 1 Objectives and Intended Outcomes

As noted, the key outcomes of this planning proposal are to:

- rezone land at North Tralee for employment related uses (namely IN2 Light Industry and B7 Business Park) as well as E2 Environmental Conservation, RU2 Rural Landscape and RE2 Private Recreation. A significant part of this area has also been identified as the likely location for a proposed Regional Sports Complex which is permissible under both zones,
- 2. rezone existing RE2 Private Recreation at South Poplars to B7 Business Park in order for the land to be used as a future school site, and
- 3. rezone existing RE2 Private Recreation land at North Poplars (previously identified for Regional Sports Complex) to B7 Business Park, primarily to replace the B7 Business Park at North Tralee now identified for the Regional Sports Complex.

This will provide a supply of employment and recreational lands to meet the needs of the local community into the future.

The site will also be zoned to accommodate relevant environmental constraints (riparian land and flood prone land).

## Part 2 Explanation of Provisions

Renaming Queanbeyan LEP (Poplars) 2013 to Queanbeyan LEP (West Jerrabomberra) 2018 and increasing the area of land the existing plan applies to.

As noted, this proposal will be given effect by amending the existing *Queanbeyan Local Environmental Plan (LEP) (Poplars) 2013* by including the land known as North Tralee. It is intended to rename the new amended LEP to *Queanbeyan LEP (West Jerrabomberra) 2018* when the plan is made. *Queanbeyan LEP 1998* will no longer apply within these boundaries and *Queanbeyan LEP 1991* will be repealed in its entirety. The Land Application Map will be extended to include North Tralee as shown on Map 2 below.

Map 2 Land Application Map for West Jerrabomberra



☐ Included ☐ LGA Boundary ☐ Cadastre

## Rezoning new land at North Tralee for employment, rural landscape, open space and environmental conservation uses

#### **Employment Zones**

In respect of North Tralee, the recommended zones for those parts of the site proposed for employment related uses are a combination of IN2 Light Industrial zone and B7 Business Park zone. These zones provide for a suitable range of employment related uses. The proposed IN2 Light Industrial zone has an area of 29.25ha and the proposed B7 Business Park has an area of 9.62ha. Both areas are located just south of Jerrabomberra Creek and occupy some of the flattest land in this area. This has also meant that it is an attractive location for a Regional Sports Precinct which is permitted with consent in both proposed zones. The area of the proposed Regional Sports Facility is approximately 15ha.

Once the final concept for the Regional Sports Facility has been agreed in the future, the land will be zoned to a more suitable use (such as public recreation).

The land use table for the IN2 Light Industry zone will be adopted from the *Queanbeyan Local Environmental Pan (QLEP) 2012*. For the B7 Business Park zone the land use table from the *Queanbeyan Local Environmental Plan (Poplars) 2013* will be adopted.

#### **Environmental and Open Space Zoning**

The land will also be zoned to accommodate any environmental constraints on the site. The southern part of the creek bed (Jerrabomberra Creek) will be zoned E2 Environmental Protection with a width of 40 metres from the centreline of the creek bed consistent with the current zoning of The Poplars land to the north. This is to ensure the riparian lands within the subject site are suitably protected and conserved for their environmental values. A small area of land north of the creek will also be zoned E2 Environmental Conservation consistent with the zoning of The Poplars site to the north and ensuring an 80 metre corridor for the entire length of the creek that passes through the site. The additional area of land to be rezoned E2 Environmental Conservation under this planning proposal represents an area of 6.17ha.

A small area of land on the northern side of the creek is also proposed to be zoned RE2 Private Recreation consistent with the existing zoning on The Poplars site to the north and recognising it is largely unsuitable for other uses. This represents an area of 1.24ha.

The land use tables for the E2 Environmental Protection zone and the RE2 Private Recreation zone will be adopted from the *Queanbeyan Local Environmental Plan (Poplars)* 2013.

#### Zoning of Flood Affected Land

It is proposed land below the flood planning level (ie, the 1:100 Average Recurrence Interval (ARI) event plus 0.5 metre freeboard) on the southern side of the creek (and located outside the proposed E2 zone) be zoned RU2 Rural Landscape. This is consistent with the existing underlying zone under the *Queanbeyan Local Environmental Plan 1998* (ie, the 1(a) (Rural A Zone). Accordingly, any flood affected land will retain an underlying rural zone. The proposed RU2 land represents an area of 10.72ha. The land use table for the RU2 Rural Landscape zone will be adopted from the *Queanbeyan Local Environmental Pan (QLEP) 2012*.

Both the Council and the proponents have previously undertaken studies and investigations in respect of flooding potential on the site. At one time it was proposed that Jerrabomberra Creek be widened to reduce flood affectation, however given the significant environmental impacts this would have created, Council and State Government agencies have determined

all land identified for employment related development must be located outside the flood planning area.

Due to the planning history associated with the area, some of the studies that were prepared covered all of the current site and some covered only parts of the site. Further, some of these studies were prepared for the Council whilst others were prepared for the proponents. In order to ensure Council had independent advice in respect of any flooding of the site and the extent of this flooding, Council engaged a suitably qualified consultancy (WMA Water) to confirm whether the mapping provided by the proponents in previous studies was an appropriate basis to then determine a flood planning level.

One previous study undertaken for the site was *Flood Study and Riparian Corridor* Assessment Jerrabomberra Creek January 2010 - Brown Consulting (the Brown Study) prepared for the proponents in 2010. That study covered the entire site subject to the current planning proposal and included maps that illustrated various flooding events including a 1:100 year ARI flooding event.

Council subsequently engaged WMA Water to review the Brown Study. WMA Water concluded (February 2016) that while the modelling used by Brown Consulting was reasonable and a suitable basis for determining flood planning levels, some further refinement of the model was desirable to better account for the potential effect of the disused Goulburn-Bombala Railway and associated infrastructure across Jerrabomberra Creek.

This has now been undertaken by Calibre Consulting (formally Brown Consulting) including adding a 0.5 metre freeboard in order to correctly identify the flood planning level. These results were again independently reviewed by WMA Water on Council's behalf. WMA Water subsequently concluded (September 2016) that:

"the assumptions and modelling methods applied have been determined to be generally conservative. This coupled with the characteristics of the control formed by the Railway embankment and the steep terrain on the surrounding floodplain, indicates that the model results are suitable for rezoning assessment purposes when used in conjunction with a 0.5 m freeboard".

Accordingly Council intends to apply the 1:100 ARI plus 0.5 metre freeboard as set out in the WMA Report as the basis for determining where land will be rezoned for employment related purposes. Both the WMA Water and Calibre (Brown) studies are shown at Appendix B

It is also intended to introduce the model flood planning clause into the LEP.

# The rezoning of land currently zoned RE2 Private Recreation to B7 Business Park on The Poplars

The employment land subject to the *Queanbeyan LEP (Poplars) 2013* is zoned B1 Neighbourhood Centre on North Poplars which allows for some retail/commercial premises and B7 Business Park on South Poplars which is subject to a proposed technology park and innovation hub.

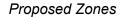
As the IN2 Light Industry zoned land at North Tralee is now earmarked for a Regional Sports Facility it has meant that further employment land of approx 15ha is required to provide suitable local employment options. Accordingly Council has determined that rezoning the existing RE2 Private Recreation at North Poplars (4.92ha) for employment related uses will assist in addressing some of this demand. However, Council is of the view that rezoning this site to B7 Business Park is a better planning outcome on this site rather than replacing it with an IN2 Light Industry zone given the site represents an important visual entrance to the suburb of Jerrabomberra.

In addition, it is proposed to also rezone 11.28ha of existing RE2 Private Recreation land at South Poplars to B7 Business Park. This is to provide both for the 3ha school site as required by the Department of Education, and also, to rezone the balance of the surrounding land consistent with the existing adjoining zone (ie, B7 Business Park).

Overall, approximately 15ha of IN2 Light Industry land that will be taken up by the Regional Sports Facility at North Tralee, however will be replaced with 16.2ha of B7 Business Park land at both North and South Poplars. This ensures the supply of employment land in the broader urban release area is maintained.

Indicative zoning maps showing the existing and proposed zones in West Jerrabomberra are shown below and at Appendix A.

#### Existing Zones







#### Indicative Lot Size Maps

The Planning Proposal will also introduce new lot sizes for the land in North Tralee and amend the existing lot size maps under the *Queanbeyan LEP (Poplars) 2012*. The minimum lot sizes proposed are 2,000m² for both the B7 Business Park and IN2 Light Industrial zones (V), 20ha for the E2 Environmental Conservation (AB) and 80ha for the RU2 Rural Landscape land. No lot size is proposed for either the RE2 Private Recreation zone or that part of the E2 Environmental Conservation zone that covers the riparian land.

The existing and proposed lot sizes for West Jerrabomberra are shown over and at Appendix A.

#### Existing Lot Sizes



#### Proposed Lot Sizes



#### Indicative Height of Buildings (HOB)

The existing Height of Buildings (HOB) Map will be extended to cover the additional area of North Tralee and will propose a 12m building height over the IN2 Light Industry, B7 Business Park and RU2 Rural Landscape zone (M). The small area of RE2 Private Recreation land will not have a height of building on the map similar to the existing RE2 and E2 land that follow the north side of Jerrabomberra Creek. The proposed HOB map is shown below and Appendix A.

Existing HOB Map



Proposed HOB Map



#### Indicative Floor Space Ratio Map

The existing Floor Space Ratio (FSR) Map for the *Queanbeyan Local Environmental Plan* (*LEP*) (*Poplars*) 2013 will be extended to cover the area of North Tralee and be shown on the additional B7 land proposed on North and South Poplars. The proposed FSR is 1:1 (N). No FSR is proposed for the IN2 Light Industrial area. See below and Appendix A.

Existing FSR Map



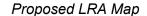
Proposed FSR Map



#### Indicative Land Reservation Acquisition Map

The existing Land Reservation Acquisition (LRA) Map for the *Queanbeyan LEP (Poplars)* 2013 will be extended to cover the additional area of North Tralee with no land identified for reservation or acquisition at this time. See below and Appendix A.

Existing LRA Map



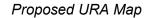




#### Indicative Urban Release Area Map

The existing Urban Release Area (URA) Map for the *Queanbeyan LEP (Poplars) 2013* will be extended to cover the additional area of North Tralee. See below and Appendix A.

#### Existing URA Map







#### Indicative Riparian Land and Watercourses Map

The existing Riparian Land and Watercourses Map for the *Queanbeyan LEP (Poplars) 2013* will be extended to cover 40m from the centre of Jerrabomberra Creek in the North Tralee area. See below and Appendix A.

Existing WCL Map

Proposed WCL Map





#### Indicative Local Clauses Map

The Visual and Acoustic Buffer Map will be replaced as a Local Clauses Map which will relate to the local clause "Land adjoining Hume Industrial Area and Goulburn/Bombala Railway Line". It will extend the visual and acoustic buffer into the North Tralee area. It will be annotated on the map as "Visual and Acoustic Buffer" and shown as a blue line to align with the *Queanbeyan LEP* (South Tralee) 2012 to the south. See below and Appendix A.

#### Existing Local Clause Map







#### Other Clauses

Other existing local clauses under *Queanbeyan LEP (Poplars) 2013* intended to be carried forward into new plan when drafted (but that do not require specific maps) include:

- Earthworks,
- Flood planning,
- Airspace operations,
- Development in areas subject to aircraft noise, and
- Essential services.

#### Access

The site will be accessed by the proposed Northern Entry Road (linking north to Tompsitt Drive) when constructed. It is proposed the Northern Entry Road will run along the zoning boundary between the proposed IN2 and B7 zone providing suitable access to both areas.

### Part 3 Justification

#### Section A – Need for the planning proposal

The planning proposal will give effect to the *Queanbeyan Residential and Economic Strategy* 2015-2031. This is to ensure the supply of suitable employment lands into the future.

1) Is the planning proposal a result of any strategic study or report?

Yes. The site is contained within the *Queanbeyan Residential Economic Strategy 2015-2031*. A copy of the Strategy can be found at <a href="http://www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Studies-strategies#section-4">http://www.qprc.nsw.gov.au/Building-Development/Planning-Zoning/Studies-strategies#section-4</a>

The Residential and Economic Strategy 2015-2031 was endorsed by the NSW Department of Planning and Environment in July 2016 and the land was identified as having potential for employment lands uses. It is also supported by the local environmental study (and supporting addendums) prepared for the site.

2) Is the planning proposal the best means of achieving the objectives or intended outcomes, or is there a better way?

The planning proposal is the best means of delivering the intended outcomes set out under the *Queanbeyan Residential and Economic Strategy 2031* for this area. It is also considered better to progress development in this area as one planning proposal rather than each landowner progressing each area independently.

Infrastructure and servicing will determine development staging in line with the Structure Plan for South Jerrabomberra which looks at servicing the development in a southerly direction from North Poplars.

#### Section B – Relationship to strategic planning framework

3) Is the planning proposal consistent with the objectives and actions contained within the applicable regional or sub-regional strategy (including the Sydney Metropolitan Strategy and exhibited draft strategies)?

The South East and Tablelands Regional Plan 2036 is the relevant regional strategy. The planning proposal is considered to be consistent with the Strategy. This strategy in Direction 12:- Promote business activities in urban centres, states that strategic and local centres will be the focus for more employment uses with good transport connections to Canberra and Sydney. The West Jerrabomberra area is well positioned in distance to Canberra and the Monaro Highway – recognised as a strategic transport link and to Canberra airport.

The planning proposal gives effect to Direction 12 and will create additional employment lands with a mix of industrial, business and office use including a technology park and innovation hub. Land at The Poplars has already been zoned for employment lands and rezoning land at North Tralee is a logical extension. The draft LEP will rezone the land to enable uses such as business, light industry and other ancillary uses to ensure the economic sustainability of Queanbeyan. This is considered to be particularly appropriate given that the supply of suitable land within the LGA is extremely limited.

4) Is the planning proposal consistent with a council's local strategy, or other local strategic plan?

As previously noted, the proposal is consistent with the *Queanbeyan Residential and Economic Strategy 2015-2031*, as endorsed by the Department of Planning and Environment.

5) Is the planning proposal consistent with applicable State Environmental Planning Policies?

The planning proposal is not considered to be inconsistent with any SEPPs at this time (see Table 1 over).

Table 1

SEPP No.	SEPP Title	Applicable	Relevant	Consistent	Comment
SEPP55	Remediation of Land	YES	YES	YES	A preliminary site investigation was carried out as part of the original Tralee LES in 2005. This report indicated that some locations on the site have been exposed to historical uses that may have introduced potential contaminants associated with the former speedway. The proponent has now undertaken further work and has provided a report confirming the site is generally suitable for the intended uses subject to recommended actions occurring prior to development (including some material being excavated, appropriately classified and removed from the site). This report is show at Appendix C.
-	SEPP (Rural Lands) 2008	YES	YES	YES	The planning proposal is considered to be consistent with both the Rural Planning Principles and the Rural Subdivision Principles listed in the Rural Lands SEPP.

## 6) Is the planning proposal consistent with applicable Ministerial Directions (s.9.1 directions)?

The planning proposal is not considered to be inconsistent with any s9.1 directions at this time. See below.

#### **Direction 1.1 Business and Industrial Zones**

The relevant objective of this direction is to encourage employment growth in suitable locations, and to ensure the supply of employment land is not reduced. The planning proposal is consistent with the objectives of this direction as the proposal seeks to rezone the land predominantly for employment purposes. The planning proposal is consistent with

an endorsed strategy approved by the Secretary of the Department of Planning and Environment (Queanbeyan Residential and Economic Strategy 2015-2031).

#### Direction 1.2 Rural Zones

The objective of this direction is to protect the agricultural production value of rural land. This planning proposal does include land within a rural zone but there are no significant agricultural production values on the land that warrant protection. In addition the planning proposal is consistent with an endorsed strategy approved by the Secretary of the Department of Planning and Environment (*Queanbeyan Residential and Economic Strategy 2015-2031*).

#### Direction 1.5 Rural Lands

The land subject to this planning proposal has little agricultural value and is zoned for environmental conservation bordering the Jerrabomberra Creek only. The land which was found to be flood prone is proposed to be zoned RU2 Rural Landscape. A significant portion of the Study Area will be retained for environmental conservation purposes and is consistent with this Direction.

#### <u>Direction 2.1 Environmental Protection Zones</u>

The objective of this direction is to protect and conserve environmentally sensitive areas. The draft plan proposal seeks to rezone the riparian areas of the site to E2 Environmental Conservation. The proposal is considered consistent with the direction.

#### Direction 2.3 Heritage Conservation

The objective of this direction is to conserve items, areas, objects and places of environmental heritage significance and indigenous heritage significance. A cultural heritage assessment was undertaken as part of the original LES for North Tralee which included assessments of both Aboriginal and European Heritage. Whilst no Aboriginal artefacts where found as part of that study, it did identify a potential archaeological deposit south of Jerrabomberra Creek and has recommended any areas proposed for future development should have test pits dug prior to any development to determine this.

In respect of European Archaeology, most activity was associated with the operation of the Fraser Park speedway in the 1970s and is of low heritage significance. However, further historical research has recently been done in relation to the former canteen at the Fraser Park Speedway. That research concluded that the former canteen potentially has some heritage value although a formal study would be needed to confirm this. Accordingly, Council intends to retain the former canteen on site at this time (and fenced) until a more detailed heritage study is carried out, at which time a final decision will be made in respect of whether to list the item. The former canteen is located on land intended to be dedicated to Council for the Regional Sports Field.

#### Direction 3.4 Integrating Land Use and Transport

The objective of this direction is to ensure that urban structures, building forms, land uses locations, development designs, subdivision and street layouts achieve the following planning objectives:

- (a) Improving access to housing, jobs and services by walking, cycling and public transport; and
- (b) Increasing the choice of available transport and reducing dependence on cars; and
- (c) Reducing travel demand including the number of trips generated by development and the distances travelled, especially by car; and
- (d) Supporting the efficient and viable operation of public transport services; and

(e) Providing for the efficient movement of freight.

Access to the employment lands at North Tralee will be via a new northern entry road from Tompsitt Drive which will link the employment lands at The Poplars with the employment lands at North Tralee. It is intended public transport will service the area in the future. Further the *South Jerrabomberra Development Control Plan 2014* requires that consideration be given to an overall transport movement hierarchy showing the major circulation routes and connections to achieve a simple and safe movement system for private vehicles, public transport, pedestrians and cyclists. This clause will apply to the Study Area and will ensure that the land use and the design of transport networks are integrated. The planning proposal meets the objectives of this direction in that any development proposed for South Jerrabomberra will provide access to housing, jobs and services.

#### Direction 3.5 Development Near Licensed Aerodromes

The site is wholly located within the ANEF 20 contour and partly within the ANEF 25 contour as shown at Appendix D.

No residential development is proposed under the draft plan. The proposed school site is located between the ANEF 20 and ANEF 25 contours and is conditionally acceptable subject to appropriate noise attenuation being included into the school design.

Relevant model clauses for both aircraft noise and aircraft operations will be contained within the draft plan.

Council will be consulting with both the Commonwealth Department of Transport and Regional Services and Canberra Airport.

#### **Direction 4.3 Flood Prone Land**

The objectives of this direction are:

- a) to ensure that development of flood prone land is consistent with the NSW Government's Flood Prone Land Policy and the principles of the *Floodplain Development Manual 2005*, and
- to ensure that the provisions of an LEP on flood prone land is commensurate with flood hazard and includes consideration of the potential flood impacts both on and off the subject land.

As previously noted, studies have been undertaken to determine the extent of flooding from Jerrabomberra Creek. Importantly, no land below the flood planning level (1:100 ARI plus 0.5 metre freeboard) is proposed to be rezoned for urban purposes. All flood prone land associated with Jerrabomberra Creek will be zoned E2 Environmental Conservation or RU2 Rural Landscape (consistent with the underlying rural zone at this time).

The draft plan is considered to be consistent with this direction.

#### Direction 4.4 Planning for Bushfire Protection

The objectives of this direction are to protect life, property and the environment from bush fire hazards, by discouraging the establishment of incompatible land uses in bush fire prone areas; and to encourage sound management of bush fire prone areas.

Under this direction Council is required to consult with the Commissioner of the NSW Rural Fire Service following receipt of a Gateway determination and prior to undertaking a community consultation. This will be undertaken.

#### Direction 5.10 Implementation of Regional Plans

The objective of this direction is to give legal effect to the vision, land use strategy, goals, directions and actions contained in Regional Plans.

The South East and Tablelands Regional Plan 2036 is the relevant regional strategy. The planning proposal is considered to be consistent with the Strategy.

#### Section C - Environmental, social and economic impact

7) Is there any likelihood that critical habitat or threatened species, populations or ecological communities, or their habitats, will be adversely affected as a result of the proposal?

A study into the ecology and natural heritage of the North Tralee site was carried out as part of the background local environmental study. The study concluded that most of the site has been cleared of native vegetation and been sown with pasture plants and used extensively for cultivation and stock grazing. The disused Fraser Park Speedway and associated infrastructure occupies the western half of the site. The report states that overall the site is in poor ecological condition and is considered to have low conservation significance. Regardless it is intended to rezone riparian areas of the site E2 Environmental Conservation to ensure they are not further degraded by inappropriate uses.

8) Are there any other likely environmental effects as a result of the planning proposal and how are they proposed to be managed?

It is unlikely that there are any other environmental effects as a result of this planning proposal.

9) Has the planning proposal adequately addressed any social and economic effects?

The proposal seeks to create additional employment lands in accordance with the principles of the *Queanbeyan Residential and Economic Strategy 2031*. Rezoning of the site will ensure Queanbeyan's economic sustainability and deliver the relevant outcomes and directions of the *South East and Tablelands Regional Plan 2036*.

#### Section D - State and Commonwealth interests

#### 10) Is there adequate public infrastructure for the planning proposal?

Access to the site will be provided via a new road and intersection from Tompsitt Drive which will create a connection from Poplars through to the proposed employment lands at North Tralee. A concept development application for this road link has been approved along with the detailed stages including a bridge over Jerrabomberra Creek. Construction of the intersection is imminent. Other infrastructure requirements will be resolved as the development of the site progresses.

The Department of Planning and Environment has advised a satisfactory arrangements clause in respect of State infrastructure is not required.

11) What are the views of State and Commonwealth public authorities consulted in accordance with the Gateway determination?

Consultation with public authorities has occurred in the past and the plan has previously been amended to address the issues raised.

Further consultation with public authorities is proposed in respect of the revised plan and this planning proposal.

## Part 4 Mapping

Relevant maps for West Jerrabomberra will be prepared in accordance with the requirements and guidelines of the Department of Planning and Environment. The maps proposed to accompany the draft plan are shown at Appendix A and include:

- zoning map,
- height of buildings map,
- minimum lot size map,
- floor space ratio map,
- riparian land and watercourse maps,
- land application map,
- land reservation acquisition map, and
- local clause map
- urban release area map.

## Part 5 Community Consultation

It is intended to publicly exhibit the draft plan for a period of 28 days.

Agency consultation is proposed with the following stakeholders:

- NSW Department of Education
- NSW Office of Water
- NSW Department of Primary Industries
- NSW Roads & Maritime Services
- NSW Rural Fire Service
- NSW Office of Environment and Heritage
- John Holland Rail P/L
- Canberra Airport
- ACT Government Environment and Planning Directorate
- Commonwealth Department of Transport and Regional Services

## Part 6 Project Timeline

It is anticipated that the planning proposal will take up to 9 - 12 months to finalise. An indicative timeline is provided below.

#	Action	<b>Estimated Timeline</b>	Responsibility
1	Forward to DPE for Gateway	November 2018	Council
2	Government agency consultation	December 2018	Council
3	Public exhibition	February 2019	Council
4	Date of Public Hearing (if applicable)	N/A	N/A
5	Consideration of submissions	March 2019	Council
6	Assessment of proposal post-exhibition	March 2019	Council
7	Report to Council	April 2019	Council
8	Mapping and Parliamentary Counsel liaison	April 2019	Council
9	Anticipated date Council will make the plan	May 2019	Council
10	Anticipated date Council will forward the final Planning Proposal to DPE for notification	May 2019	Council
11	Anticipated date LEP will be notified	May 2019	Parliamentary Counsel's Office and DPE

## **Appendix A – Draft Maps**

#### **Draft Zoning Map**



#### Zones

RU2 - Rural Landscape Zone

RE2 - Private Recreation Zone

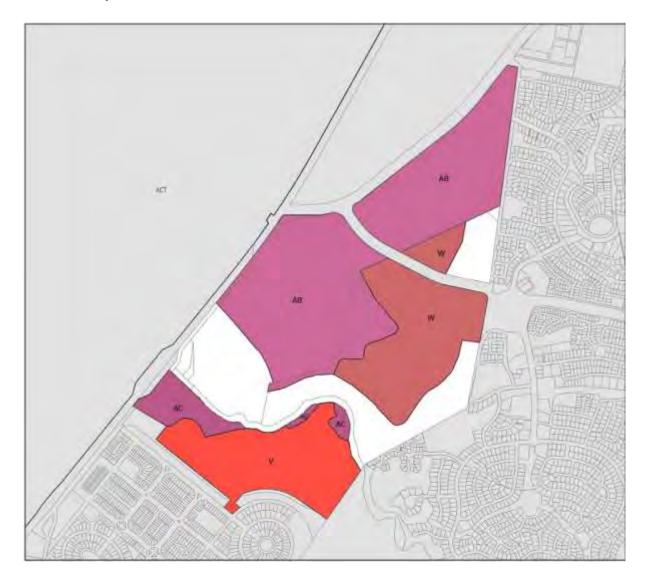
E2 - Environmental Conservation Zone

B1 – Neighbourhood Centre Zone

B7 - Business Park Zone

IN2 - Light Industry

#### **Lot Size Map**



## Lot Sizes

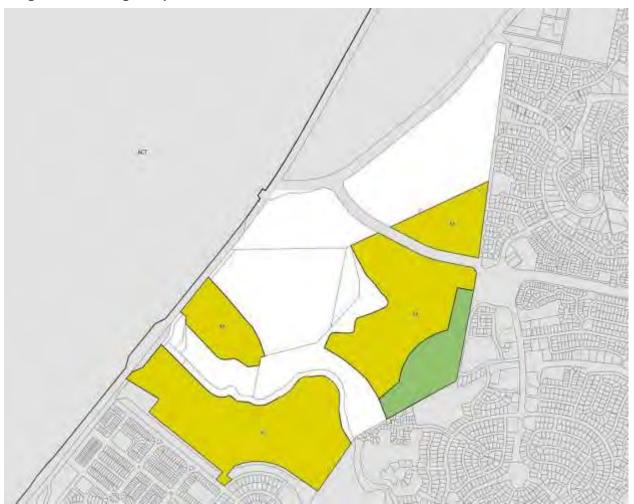
 $V - 2000 m^2$ 

 $W - 4000 m^2$ 

AB - 20 hectare

AC - 80 hectare

#### **Height of Buildings Map**



## <u>Height</u>

I - 8.5 metres

M - 12 metres

#### Floor Space Ratio Map

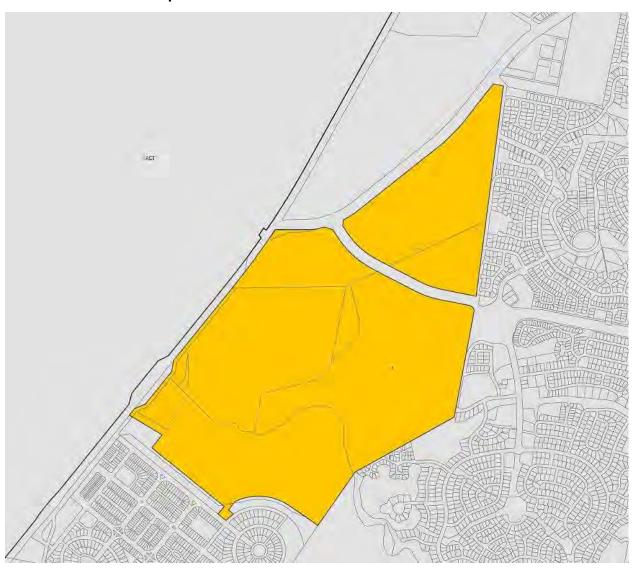


<u>FSR</u> N – 1:1

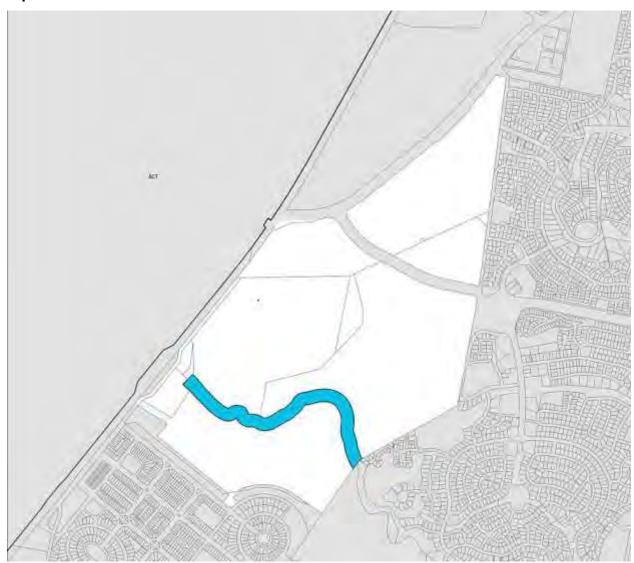
#### **Land Reservation Acquisition Map**



#### **Urban Release Area Map**



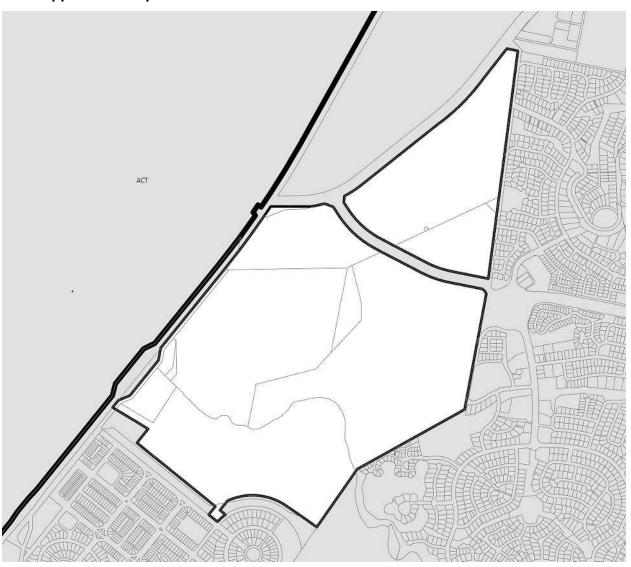
#### **Riparian Lands and Watercourses**



#### **Local Clause Map**



#### **Land Application Map**



### Appendix B - Calibre Flood Study January 2010 and WMA Water Review February 2016 & September 2016

# Appendix C – Site Investigation for Contamination Douglas Partners August 2018

### Appendix D – ANEF Contours Over West Jerrabomberra



## QUEANBEYAN-PALERANG REGIONAL COUNCIL

Planning and Strategy Committee of the Whole Meeting
Attachment

#### 8 MAY 2019

ITEM 5.2 PLANNING PROPOSAL - WEST JERRABOMBERRA

ATTACHMENT 2 SUMMARY AND ASSESSMENT OF SUBMISSIONS

### Summary and Consideration of Submissions from Public Exhibition and Government Agency Consultation – West Jerrabomberra Planning Proposal

Submission Name	Submission	Response	Action
NSW Rural Fire Service	The NSW RFS notes that the planning proposal applies to land mapped as bush fire prone by Council. The NSW RFS has no objection to the planning proposal proceeding and provides the following comment: 'Future development applications on bush fire prone lands will be required to comply with the relevant provisions of Planning for Bushfire Protection'.	Compliance with the relevant provisions of the <i>Planning for Bushfire Protection</i> guidelines will be a requirement at the DA stage for development in West Jerrabomberra.	No changes be made as a result of this submission.
NSW Transport Roads and Maritime Services	RMS has no objections to the planning proposal in principle.		No changes be made as a result of this submission.
Canberra Airport	Canberra Airport supports the employment land proposal of Business Park and Retail and Services Precinct at The Poplars.  However, it has expressed concerns regarding the proposed school site. Canberra Airport has previously advised the NSW Department of Education that it was not in a position to support a school in this location.	The planning proposal states that the site is also considered to be conditionally suitable for educational establishments, provided appropriate acoustic attenuation is incorporated during construction, consistent with Australian Standard AS2021-2015 Acoustics, Aircraft noise intrusion-Building siting and construction.	No changes be made as a result of this submission.
		The school site is required to be provided under the endorsed State	

Submission Name	Submission	Response	Action
		Planning Agreement applying to the land.	
NSW Office of Environment and Heritage	The correspondence received from OEH advises that they do not support the planning proposal in its current form, the issues are summarised below:  Biodiversity Any future development in the rezoned areas will be	The matters raised in regard to Biodiversity and Aboriginal cultural heritage will be addressed at the DA stage.	No changes be made as a result of this submission.
	subject to the <i>Biodiversity Conservation Act 2016</i> and may require offsetting. OEH notes that most of the land zoned E2 within the planning proposal is currently protected in perpetuity as a Biobanking agreement site. It is therefore important to note that any future direct or indirect impacts resulting from this planning proposal will need to be wholly contained within the rezoned B7 and IN2 areas, this includes all asset protection zones and any areas required for retention ponds.	Council's planning approach to the issue of flooding has been to ensure all proposed development of the site is carried out above Council's standard Flood Planning Level, defined as the 1:100 ARI plus 0.5metre freeboard. This level generally applies to residential development only, however has also been applied to this land to	
	Aboriginal cultural heritage There are recorded Aboriginal objects in the proposed rezoning area. Some of these sites are recorded in land that is currently zoned and will remain E2 land. This may provide an opportunity to conserve these sites.  Aboriginal sites and areas of potential archaeological deposits (PAD) have also been recorded in the	ensure a conservative position is established in respect of potential flood impacts for future sports, business and light industrial uses proposed for the land. No residential uses are proposed on the subject land.	
	proposed IN2, B7, RU2 and RE2 zoned land. OEH advises that additional studies for Aboriginal cultural heritage are required prior to future development of the site. While an Aboriginal Heritage Impact Permit (AHIP) is not required at the planning proposal stage, OEH	There is no requirement under the respective NSW planning direction (ie 4.3 - Flood Prone Land) that a Floodplain Risk Management Plan	

Submission Name	Submission	Response	Action
	cannot commit to issuing an AHIP until they have results of an archaeological survey, test excavation, and the results of consultation with Aboriginal stakeholders completed in accordance with relevant guidelines. It is therefore recommended that comprehensive Aboriginal cultural heritage assessment is completed early as it will provide more certainty to all parties about the Aboriginal cultural heritage management requirements.  OEH advises that not all AHIPs may be approved in the Queanbeyan Palerang local government area, given the cumulative impacts occurring to Aboriginal sites in the region and therefore increasing the significance of the remaining sites.	be prepared for all land prior to any land within a catchment being rezoned. The relevant planning guideline ( <i>Guideline on Development Controls on Low Flood Risk Areas</i> ) notes that unless there are exceptional circumstances, Council's should adopt the 100 year flood as the relevant flood planning level. It is noted OEH's Flood Unit have not formally objected to the planning proposal proceeding in this instance.	
	Floodplain Risk Management OEH's Floodplain Unit does not support the planning proposal as a formal Floodplain Risk Management Plan has not been prepared for the site. The Unit has suggested that it is not appropriate for the land to be rezoned until a formal Floodplain Risk Management Plan has been developed for the Jerrabomberra Creek area. The Unit has also suggested the proposal is inconsistent with planning direction 4.6 Flood Prone Land in the absence of such a plan being prepared.	Council previously engaged expert consultants (WMA Water) to peer review flood studies prepared by the developers of the land. These initial studies were undertaken to determine the extent of flooding from Jerrabomberra Creek. Further hydraulic modelling was recommended to Council by WMA Water which was subsequently undertaken and again independently reviewed.	
		WMA Water have specialist expertise in hydrological studies of waterways and floodplains. They have advised Council that the	

Submission Name	Submission	Response	Action
		revised flood models used to inform the proposed zonings on the site are an appropriate and reasonable basis upon which to establish the Flood Planning Level for the site.	
		As noted, no land below the flood planning level (1:100 ARI plus 0.5 metre freeboard) is proposed to be rezoned for urban purposes. All land below the flood planning level will be zoned E2 Environmental Conservation or RU2 Rural Landscape (consistent with the underlying rural zone at this time).	
		Council is of the view the proposed flood levels are accurate, based on independently reviewed information, consistent with relevant State policy and and are a suitable basis to inform the future development of the site.	
Your Voice Submission 1	Great idea - but needs a link to be built to Dunn's creek road as a priority (i.e., build Dunn's creek road ASAP, then link it to the West Jerrabomberra estate). This will help reduce traffic impacts and allow flexible route planning.	Council's Traffic Studies indicate that Dunn's Creek Road will not be required until approximately 2035.	No changes be made as a result of this submission.

Submission Name	Submission	Response	Action
Your Voice Submission 2	Too much traffic being sent out onto Tompsitt Drive. Put in direct access to Lanyon Drive or Monaro Highway. Don't need any more retail or industry here. Just a High School.	Traffic studies have been carried out by Council and traffic management is being implemented in accordance with these studies.	No changes be made as a result of this submission.
		The planning proposal follows significant strategic background work as expressed in Council's Residential and Economic Strategy including supply and demand assessment of the need for employment lands uses.	
		A high school is proposed for the area.	
Your Voice	The submitter states that pedestrian linkages require	The comments are noted.	No changes be made as a
Submission 3	improvement linking Jerrabomberra and Karabar.	As the development progresses, traffic and pedestrian management will be implemented in accordance with Council's traffic studies.	result of this submission.
		The planning proposal in this instance does not cover land where these improvements are suggested.	
Your Voice Submission 4	The submitter is supportive of the rezoning to IN2 Light Industrial and believes that there is a substantial need for this type of development due to there being no industrial zoned land in the ACT, and, due to the high ACT rates. The submitter is of the view industrial land is	The planning proposal identifies 14.25ha of IN2 Light Industrial land at North Tralee.	No changes be made as a result of this submission.

Submission Name	Submission	Response	Action
	needed, however does not see the need for additional B7 zoned land. This is a great opportunity for QPRC and will open up a lot of other opportunities.	The demand for suitable light industry land is acknowledged.	
Your Voice Submission 5	I support the proposal mostly but strongly object to the proposal to include zoning change to allow IN2 Light Industry. I do not think this is at all compatible with the proximity and outlook of the rural landscape - particularly as Hume is so close by and it does not need to creep onto the doorstep and outlook of many existing properties in Jerrabomberra.	The planning proposal identifies 14.25ha of IN2 Light Industrial land at North Tralee.  As shown in the planning proposal, the proposed IN2 land will be separated from any existing residential land at Jerrabomberra by both the proposed B7 Business park zoned land and the Northern Entry Road. It is noted that the proposed IN2 land will be located	No changes be made as a result of this submission.
		at least 200m from any existing residential land at Jerrabomberra. It should also be noted 'light industries' are also a mandated permissible use in the B7 zone under the Standard Instrument, so remain a permissible use within that zone.	
		'Light industry' is defined as:  light industry means a building or place used to carry out an industrial activity that does not interfere with the amenity of the neighbourhood	

Submission Name	Submission	Response	Action
		by reason of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products, grit or oil, or otherwise, and includes any of the following: high technology industry, home industry, artisan food and drink industry.	
		Accordingly, 'light industries' cannot create any noise or air emissions that would impact on other uses on other lands. Potential visual impacts can be managed through suitable design requirements in planning controls. Council's experience is that recent developments on IN2 zoned land are of a relatively high urban design (such as Lorn Rd), and unlikely to contribute to visual blight in the neighbourhood.	
Your Voice Submission 6	This proposal appears to be a complete reversal of the October 2018 West Jerrabomberra Planning Proposal. The original proposal, identified the land as the likely location of the Regional Sports Facility, which has been promised funding by John Barilaro/State Government. It was identified as an ideal location due to its geographic features. In addition, it has a number of valuable environmental elements that contribute to the	It is still intended that the Regional Sport Facility will be located on this site. It is likely to be located on land zoned a combination of IN2 Light Industrial and RU2 Rural Landscape where it is a permissible use in each zone.	No changes be made as a result of this submission.

Submission Name	Submission	Response	Action
	Jerrabomberra Creek/Molonglo Catchment. The original proposal has many great public benefits which is why it was supported by so many stakeholders whereas the new proposal benefits purely the developers.	Land located 40m either side of Jerrabomberra Creek is intended to be zoned E2 Environmental Conservation in recognition of its riparian values.	
Your Voice Submission 7	Agrees in principle with the proposal for West Jerrabomberra. I am however, strongly opposed to light industrial zoning in the area.	The planning proposal identifies 14.25ha of IN2 Light Industrial land at North Tralee.	No changes be made as a result of this submission.
		As shown in the planning proposal the proposed IN2 land will be separated from any existing residential land at Jerrabomberra by both the proposed B7 Business park zoned land and the Northern Entry Road. It is noted that the proposed IN2 land will be located at least 200m from any existing residential land at Jerrabomberra.	
		It should also be noted 'light industries' are also a mandated permissible use in the B7 zone under the Standard Instrument, so remain a permissible use within that zone.	
		'Light industry' is defined as:	
		light industry means a building or place used to carry out an industrial activity that does not interfere with	

Submission Name	Submission	Response	Action
		the amenity of the neighbourhood by reason of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products, grit or oil, or otherwise, and includes any of the following: high technology industry, home industry, artisan food and drink industry.	
		Accordingly, 'light industries' cannot create any noise or air emissions that would impact on other uses on other lands. Potential visual impacts can be managed through suitable design requirements in planning controls. Council's experience is that more recent developments on IN2 zoned land are of a relatively high urban design (such as Lorn Rd).	
Poplars Development P/L	Generally supportive of PP, however believe that IN2 zoning will compromise future use for proposed Regional Sporting Complex. The land identified for the complex should be zoned RE2 Private Recreation. In addition, the submission states that IN2 zone should be removed from the PP and Light industrial uses be	Once the final boundaries of the Regional Sports Field site have been identified, the site will be zoned to a more appropriate zone (such as RE1 Public Recreation) in the future.	No changes be made as a result of this submission.
	prohibited in the B7 zone. This would provide a cohesive relationship within the landscape setting, surrounding	Light Industry is a mandated use under the Standard Template LEP in the B7 Zone and so Council is	

Submission Name	Submission	Response	Action
	land uses and provide a future character commensurate with the locality.	not in a position to prohibit such land uses.	
		As noted, 'light industry' by its definition cannot have an impact on the amenity of adjoining properties so there should be no offensive noise or emissions associated with any uses on this land.	
		Potential visual impacts can be managed through suitable design requirements in planning controls. As noted, Council's experience is that more recent developments on IN2 zoned land are of a relatively high urban design (such as Lorn Rd), and unlikely to result in visual blight in the neighbourhood.	
Elton Consulting	Whilst the submission on behalf of the landowner is generally supportive of the PP, it is argues that a significant increase in land zoned B7 and significant	The planning proposal identifies 14.25ha of IN2 Light Industrial land at North Tralee.	No changes be made as a result of this submission.
	decrease in IN2 land (due to the proposed regional sports facility) will result in Council not meeting the anticipated future demand for light industrial land into the future as set out in the Queanbeyan <i>Residential and Economic Strategy</i> . Notes whilst this is occurring, Council is potentially forgoing economic opportunities in favour of the ACT and Yass Valley.	The demand for suitable light industry land is acknowledged. It is important a variety of local employment options and services for the community are provided.	

Submission Name	Submission	Response	Action
Knight Frank on behalf of Environa	The submission expresses concern about the land being zoned from 1(a) Rural A zone to IN2 Light Industry. The subject site adjoins the Environa land which is used for rural activities and has a northern boundary that will border the future northern entry road alignment. This will form the only separation between the Environa land the subject site. The submission expresses the view that the rezoning is contrary to the aims of the Planning Proposal which seeks to utilise these lands for a Regional Sporting Complex. This will mean that only a small isolated pocket if IN2 land will be created along with a small irregular shaped parcel of land zoned B7 Business Park.  The submission also states that permitting light industrial uses in the B7 zone will compromise the environmental values of the locality. An amendment to the PP is requested to:  • Zone the area of the proposed sporting complex to RE2 Private Recreation.  • Any remaining land identified for IN2 be zoned B7 Business Park.  • Amend the B7 Business Park permitted with consent uses and remove Light Industries on land within North Tralee.  • Amend the proposed draft LEP zoning map to incorporate buffer areas to protect and provide adequate separation distances from surrounding properties and uses to the east and south.	Once the final boundaries of the Regional Sports Field site have been identified, the site will be zoned to a more appropriate zone (such as RE1 Public Recreation) in the future. Until then 'recreation facilities (outdoor)' are a permissible use in the IN2 zone.  The planning proposal identifies 14.25ha of IN2 Light Industrial land at North Tralee.  It should be noted 'light industries' are also a mandated permissible use in the B7 zone under the Standard Instrument.  'Light industry' by its definition cannot have an impact on the amenity of adjoining properties so there should be no offensive noise or emissions associated with any uses on this land.  Potential visual impacts can be managed through suitable design requirements in planning controls. Council's experience is that more recent developments on IN2 zoned land are of a relatively high urban design (such as Lorn Rd).	

Submission Name	Submission	Response	Action
		The planning proposal is consistent with previous strategic background work such as Council's <i>Residential and Economic Strategy</i> including supply and demand assessment of the need for employment lands uses. Based on this analysis there is a need for light industrial at West Jerrabomberra to meet future demand.	
		The proposed B7 zone and Northern Entry Road to the south provides for a buffer from the proposed IN2 land to the Environa land. Council can ensure any development of the B7 and IN2 land incorporate suitable landscaping and high quality urban design.	
Knight Frank on behalf of Poplars Development P/L and Robin P/L	The submission states that to fully realise the economic benefits, employment opportunities and community benefits of these urban release lands the following amendments are suggested:  1. Amend proposed B7 Business Park zone to Zone B6 Enterprise Corridor  2. Allow 'shops', 'office premises' and 'food and drink premises' as additional proposed uses in the zone.	The planning proposal follows much strategic background work in terms of Council's and the State Government endorsed <i>Residential and Economic Strategy</i> including supply and demand assessment of the need for employment lands uses. Based on this analysis there is a need for light industrial land and the creation of the IN2 zone at	Add 'Educational Establishments' as a permitted land use in Table 1 of the LEP for the site of the proposed school.  Add 'Place of Public Worship' as permitted with consent in the land use tables for B7 Business Park zone.

Submission Name	Submission	Response	Action
	<ol> <li>RE2 Zone Private Recreation – add Educational Establishments in the land use table as being permitted with consent.</li> </ol>	West Jerrabomberra will meet future demand. The B7 zone and northern entry road provides for a buffer to existing residential areas in Jerrabomberra. The proposed zone is consistent with the existing B7 Zone at the Poplars.	
		B6 is a zone which should be introduced to promote businesses along main roads and encourage a mix of compatible uses. This zone (as proposed) is not considered appropriate in this locality at this time. Probably the most significant concern is allowing 'shops' as a permissible use in the zone. There is a genuine risk that a proliferation of such developments would likely undermine the capacity of the surrounding network to accommodate the high traffic movements that are associated with such uses. There is also a concern that allowing a significant increase in floor space for such uses would undermine the viability of the existing CBD in Queanbeyan where there are currently significant vacancies. In addition, Council does not have any land currently	

Submission Name	Submission	Response	Action
		zoned B6 and this would introduce a new zone entirely under Council's respective controls.	
		Some of the proposed additional uses may have merit such as 'registered clubs', 'markets' and 'food and drink premises'. However including those uses at this time is seen as a significant change to the plan. These proposed uses should be revisited during preparation of the new comprehensive LEP to determine if they are appropriate to include more broadly in the B7 zone.	
		The comments in respect of ensuring the permissibility of the proposed high school site are supported. However, rather than adding 'educational establishments' as a permitted use generally in the RE2 zone, it is recommended this be done via a site specific addition under Schedule 1 of the proposed LEP.	
		A late submission was received on 16 April which is requesting that 'place of public worship' be added as permitted with consent in the	

Submission Name	Submission	Response	Action
		land use tables of both the B7 Business Park and RE2 Private Recreation zones. Justification for this are given as follows:	
		<ul> <li>The wider locality will comprise residential and employment lands uses and providing a Place of Worship for the catchment area is desirable.</li> </ul>	
		<ul> <li>The land use is considered consistent with both zone objectives.</li> </ul>	
		<ul> <li>Place of Worship is permitted in several land use zones under the Queanbeyan LEP 2012.</li> </ul>	
		<ul> <li>The inclusion would only be a minor amendment to the Planning Proposal.</li> </ul>	
		Whilst these uses are potentially suitable at West Jerrabomberra, it is not considered appropriate to provide for 'places of public worship' in the RE2 zone as this zone also applies more broadly throughout the Queanbeyan-Palerang area. Accordingly the	

Submission Name	Submission	Response	Action
		implications of this use being permissible in the zone needs to be further considered. However, as the B7 zone will only apply at West Jerrabomberra, it is considered an acceptable and minor additional use in that zone.	
JRA	The JRA states that the planning proposal to rezone West Jerrabomberra as light industry is totally incompatible with all of the development currently under way in the valley. They see it as incongruous to have a light industry zoning adjoining residential communities of Jerrabomberra and South Jerrabomberra. The PP is inconsistent with the <i>Queanbeyan Residential and Economic Strategy</i> , in particular Map 15 in that the PP does not match the employment lands specified in this map. This is in contradiction to the strategy which states that 'development has not impacted on the natural vistas and scenic areas with particular regard to the escarpment'. The location of 12m high buildings next to residential areas will directly impact on the natural vistas of those residents.  The JRA notes that there is no primary school planned for South Jerrabomberra. There is an opportunity to set land aside for a primary school on the land identified as IN2.	The planning proposal identifies 14.25ha of IN2 Light Industrial land at North Tralee.  The planning proposal follows significant strategic background work in terms of Council's and the State Government endorsed Residential and Economic Strategy including supply and demand assessment of the need for employment lands uses. Based on this analysis there is a need for light industrial land and the creation of the IN2 zone at West Jerrabomberra will assist in meeting that future demand.  As shown in the planning proposal, the proposed IN2 land will be separated from any existing	
Je ind	It is the JRA's view that employment lands at West Jerrabomberra should be zoned B7 and any form of light industrial zones/development/activity should be removed from the PP.	residential land at Jerrabomberra by both the proposed B7 Business Park zoned land and the Northern Entry Road. It is noted that the	

Submission Name	Submission	Response	Action
		proposed IN2 land will be located at least 200m from any existing residential land at Jerrabomberra.	
		It should also be noted 'light industries' are also a mandated permissible use in the B7 zone under the Standard Instrument, so remain a permissible use within that zone.	
		'Light industry' is defined as:	
		light industry means a building or place used to carry out an industrial activity that does not interfere with the amenity of the neighbourhood by reason of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products, grit or oil, or otherwise, and includes any of the following: high technology industry, home industry, artisan food and drink industry.	
		'Light industry' by its definition cannot have an impact on the amenity of adjoining properties so there should be no offensive noise or emissions associated with any uses on this land.	

Submission Name	Submission	Response	Action
		Potential visual impacts can be managed through suitable design requirements in planning controls. Council's experience is that more recent developments on IN2 zoned land are of a relatively high urban design (such as Lorn Rd).	

# QUEANBEYAN-PALERANG REGIONAL COUNCIL

Planning and Strategy Committee of the Whole Meeting
Attachment

#### 8 MAY 2019

ITEM 5.2 PLANNING PROPOSAL - WEST JERRABOMBERRA

ATTACHMENT 3 REPORT RE STONE-FACED BRICK BUILDING AT NORTH TRALEE

# REPORT ON STONE-FACED BRICK BUILDING NORTH TRALEE



PREPARED BY

**BRENDAN O'KEEFE** 

FOR

QUEANBEYAN-PALERANG REGIONAL COUNCIL

**AUGUST 2018** 

1.		

5.2 Planning Proposal - West Jerrabomberra Attachment 3 - Report re Stone-faced Brick Building at North Tralee (Continued)

#### Introduction

Queanbeyan Palerang Regional Council commissioned me to investigate the stone-faced brick building that stands a little to the south of Jerrabomberra Creek on Lot 6 DP 239080, at 360A Lanyon Drive. In previous reports on Tralee, it was labelled as Site H3, but no historical research was carried out on it. The reports thought that it may have 'represent[ed] a commercial venture associated with the speedway, possibly a fast food outlet with public toilet facilities' and that it 'most likely date[d] to the 1970s or 1980s'.<sup>1</sup>

The aim of the current investigation is to establish when the building was erected, who constructed it and what purpose the building was built to serve.

In the course of the study, information was sought from the following sources and institutions:

- National Library of Australia for maps and aerial photographs
- Old rate and valuation records from the former Yarrowlumla / Palerang Shire Council offices in Bungendore
- Old Queanbeyan rate and valuation records from Queanbeyan City Library
- The Local History Collection at Queanbeyan City Library
- Queanbeyan and Canberra newspapers
- Published monographs and journal articles on local history
- Online documentary sources and photographs.

Information was also obtained from David Larcombe, the current owner / occupier of the Environa property, and from Anne Forrest, granddaughter and daughter respectively of John Joseph Morrison and Bernard Laurence ('Bernie') Morrison, former owners of the Tralee property. David Larcombe was able to provide valuable historical material, as well.

With the assistance of Jason Burgess of the Village Building Company, two site visits were made to inspect and take photographs of the building and its surroundings.

<sup>&</sup>lt;sup>1</sup> URS, Tralee Local Environment Study, Volume 1 – Main Report, 12 August 2003, Appendix J, Cultural Heritage Assessment, p. 17; Navin Officer Heritage Consultants Pty Ltd, North and South Tralee Residential Development: Cultural Heritage Review, May 2010, p. 13.

#### 2. Brief Description of the Building

The building is a rectangular brick structure with its long axis orientated east-west. Cemented to the exterior of the external walls stones that give the building a somewhat rustic appearance. The floor consists of a cement slab, while the roof is timber-framed and was covered with terra cotta tiles and ridge caps. The roof has now been almost completely denuded of tiles and they are lying in and around the building, mostly in pieces. The tiles were not made in Australia, but were imported from overseas. They were manufactured by the firm of C. Palli and Figli at Voghera in Lombardy in the northwest of Italy. A large stack of the tiles that were obviously surplus to requirements is lying in a field at South Tralee.

There are multiple entrances to the building, with seven now remaining; one to three more may have punctuated the now-collapsed wall of the western end. The building also has four small square timber-framed windows from which the glass panels have disappeared. There is some evidence that internal walls divided the interior and, at the eastern end, there appears to be the remains of two toilet cubicles. Protruding from the internal face of the southern wall are two metal pipes that look to have been connected to taps to supply water, perhaps over a basin. Below them, near the base of the wall, is a hole through which the water may have drained away through a larger gauge pipe.



Interior of the building, showing the northern wall with small square windows (left), three entrances at the eastern end and the timber frame of the roof almost completely stripped of tiles



One of the imported Italian tiles that roofed the building



Surplus roof tiles for the building stacked at South Tralee (Photo: Jason Burgess)



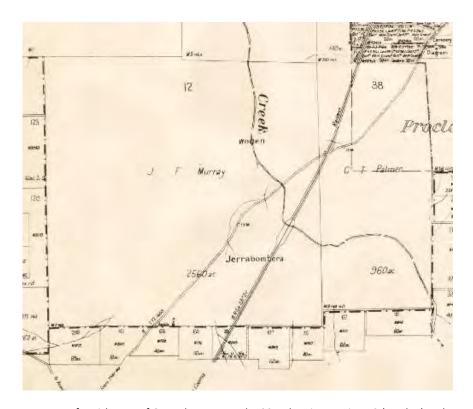
The eastern end of the building with what appear to be toilet cubicles on each side



Metal pipes probably for taps protruding from the interior of the southern wall, with a large hole below into which a drainage pipe may have been fitted

#### 3. Background: Land Ownership and Use

The stone-faced brick building at Tralee stands on what is now Lot 6 DP 239080. It was formerly part of DP 15463 and, long before that, part of Portion 12 Parish of Queanbeyan, the site of the Woden property. This was a square block of land measuring 2,560 acres, through which Jerrabomberra Creek ran. The portion also stood astride the road to Tharwa and Cooma and, when it was built later, the railway line to the south. On its eastern side, it bordered Portion 38 of 960 acres in extent. The stone-faced brick building stands just inside (*ie*, to the west of) the border with Portion 38.



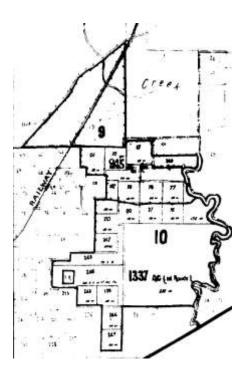
Excerpt of Parish Map of Queanbeyan, March 1904, showing Portion 12 (Woden) and Portion 38 (NLA MAP G8971.G46 svar)

Portion 12 was initially granted to John Palmer (1760-1833), brother-in-law of Robert Campbell senior of Duntroon, although it appears that title to the land was never issued. In 1831, the land was granted to Francis Mowatt, but again it seems that his title to the land was never confirmed. Eventually, the land, together with formal title to it, was purchased in October 1837 by Dr James Fitzgerald Murray who established his Woden homestead on the western (or ACT) side of the property. When he died in June 1856, he left the property to his brother, Terence Aubrey Murray of Yarralumla. He in turn sold it to Thomas Rutledge at the close of that same year. In 1862, the property was taken over by Martin Byrne and his son Charles, though it is not clear whether they owned the land or simply leased it. After the death of his wife Sarah in July 1869, Martin Byrne relinquished the property and moved back to Queanbeyan. By September the next year, if not earlier, ownership had passed to Robert Campbell's son George (1818-81), of Duntroon.<sup>2</sup>

<sup>&</sup>lt;sup>2</sup> Gwendoline Wilson, *Murray of Yarralumla*, Melbourne, 1968, pp. 81, 248, 249; Peter Procter, *Biographical Register of Canberra and Queanbeyan: from the district to the Australian Capital Territory 1820-1930*, Canberra, 2001, pp. 34, 230, 238; Errol Lea-Scarlett, *Queanbeyan District and People*, Queanbeyan, 1968, pp.

Page 62 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.

The land remained in the possession of the Campbell family for the next 36 years. At some point, probably in the first half of the 1870s, a triangular section in the southeastern corner of the property – including what is now the site of the stone-faced brick building – was leased out as grazing land to Francis Davlin (or Devlin), a Queanbeyan butcher and avid racer of racehorses. He was also – or became – the licensee of the Hibernian Hotel at Michelago in the period 1875-79. (Earlier, in January 1866, Davlin had leased approximately 215 acres of the nearby Jerrabomberra estate from George Campbell's nephew, Pemberton Campbell Palmer.) The triangular section that he leased from Campbell measured 984 acres in area, comprising about 30 per cent of the Woden property. It was defined on its east and south by the boundaries of Woden (*ie*, Portion 12), while the slightly irregular hypotenuse of the triangle was formed by the road leading south to Tharwa and Cooma. Although Davlin died in 1890, the tract of land he leased continued to be known popularly as Davlin's.<sup>3</sup>



Map showing Lot 9 (Davlin's Paddock) and Lot 10 of the Duntroon Estate, 1906 (Queanbeyan Observer, 23 October 1906)

In October 1906, large parts of the Duntroon Estate were put up for sale by the trustee, James Scroggie, in accordance with George Campbell's will. One of the parts offered for sale was Davlin's, which was advertised as Lot 9. By that time, the lot was bisected by the railway line running diagonally through it. The land was completely fenced around its perimeter and was divided into three paddocks by 6-wire and log fencing and by the railway line. It was described as 'beautiful low-lying, undulating country, dotted thinly with fine, well-grown timber' and was 'permanently watered by Jerrabomberra Creek'. It is clear that no buildings stood on the land at the time of the sale.<sup>4</sup>

<sup>110, 137;</sup> Lyall Gillespie, *Canberra 1820-1913*, Canberra, 1991, p. 47; *Queanbeyan Age*, 22 September 1870, p. 1

<sup>&</sup>lt;sup>3</sup> *Queanbeyan Observer*, 23 October 1906, pp. 1, 2; E.J. Lea-Scarlett, R.L. Cross and P.B. Sheedy, *Queanbeyan Pioneer Cemeteries*, vol. 3, 1985, p. 299; *Queanbeyan Age*, 28 December 1865, p. 3; 25 January 1866, p. 2.

<sup>4</sup> *The Age* [Queanbeyan], 23 October 1906, p. 3; *Queanbeyan Observer*, 23 October 1906, pp. 1, 2; *Queanbeyan Leader*, 30 October 1906, p. 2.

Page 63 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.

Lot 9 was purchased at the Duntroon auction by Alexander Joseph McDonald whose parents, John and Eliza, owned 'Uriarra'. At the same time, Alexander McDonald bought Lot 10 of 1,308 acres a little to the south, which was already known as 'Duntroon Hill Station' or just 'Hill Station'. McDonald incorporated Lot 9 into Hill Station, eventually building the property up by other purchases to a total of 5,100 acres by 1920.<sup>5</sup>

In that same year, McDonald sold Hill Station to Henry Brougham Blyth, an experienced pastoralist from Cooma. Blyth retained the property for only a few years, selling it off in separate large lots in March 1924. The lots were all advertised as freehold and 'Not subject to Federal Resumption', indicating that they were all in NSW. With the formation of the Capital Territory, Lot 9 had been – or was about to be – halved in size, as the part to the west of the railway line now fell within the Territory's boundaries. The purchaser of the major part of the Hill Station property was James Patrick Heaton of Gurrundah northwest of Goulburn. In December 1924, Heaton sold the property on to the real estate developer, Henry Ferdinand Halloran of Sydney, although the land was actually bought in the name of his wife, Amy Gwendoline Halloran.<sup>6</sup>

Henry Halloran had grand visions for the extensive acquisition. Along with other land bordering the eastern edge of the Capital Territory that he bought up, he subdivided the property into residential allotments, aiming to reap substantial profits by selling them as the closest freehold lots to the Territory, where land could only be held as leasehold. He called his new housing estate 'Environa'. It comprised 1,766 allotments with, at its northern end, a large area that he reserved for an 18-hole golf course and sports and recreation ground (see map below). This was the area immediately to the south of Jerrabomberra Creek and is the area on which the stone-faced brick building stands. According to David Larcombe, who is the Hallorans' grandson and owner of the current 'Environa' property to the south, his grandfather could not subdivide this area into housing allotments because it was subject to flooding from the creek. The golf course was never established, but a sports field or oval was created, with a post and single-rail fence enclosing it (see photographs in Part 4 of this report).<sup>7</sup>

The sports and recreation ground was used for a variety of events from 1929 up until World War 2. At Easter in 1929 and 1930, it was the venue for the Tuggeranong picnic sports day, and in October 1930 the 'Environa Picnic Grounds', as they were called, hosted a fund-raising event for St Christopher's at Manuka in the ACT. The most consistent use of the sports oval, however, was as the home ground for the Federal Capital Territory Rugby League. The Canberra League started using the ground from mid-1932 for matches against towns and villages in the region, including Goulburn, Yass, Boorowa, Braidwood, Bungendore and Captain's Flat. Rugby League matches continued to be held at Environa up to and including the winter of 1939, but thereafter they and other sporting and recreational uses of the ground appear to have lapsed.<sup>8</sup>

<sup>&</sup>lt;sup>5</sup> The Age [Queanbeyan], 30 October 1906, p. 2; Queanbeyan Age, 13 February 1920, p. 2; Bruce Moore, The Warm Corner, Pearce ACT, 1981, p. 201.

<sup>&</sup>lt;sup>6</sup> *Queanbeyan Age*, 13 February 1920, p. 2; 12 February 1924, p. 2; 11 March 1924, p. 2; 18 March 1924, p. 2; 23 December 1924, p. 2; *The Land*, 15 February 1924, p. 2; Yarralumla Shire Valuation and Rate Book 1924-25-26, B Riding, valuation nos. 1201 and 1202.

<sup>&</sup>lt;sup>7</sup> Hugh Clarke, 'Environa: a land developer's dream', *Canberra and District Historical Society Journal*, 1969, part 3, pp. 1-2; Lea-Scarlett, *Queanbeyan District and People*, pp. 185-7; Yarralumla Shire Valuation and Rate Book for the Years 1927-29, B Riding, valuation no. 807; MAP G8984.C3G46 1926, 'Environa 8<sup>th</sup> Division of the Canberra Freehold Estates', 1926, National Library of Australia [NLA]; *Canberra Times*, 2 April 1929, p. 2. 
<sup>8</sup> *Canberra Times*, 2 April 1929, p. 2; 22 October 1930, p. 3; 27 July 1932, p. 3; 1 June 1933, p. 3; 1 June 1935, p. 2; 5 June 1939, p. 3.



Excerpt from a locality plan of Henry Halloran's Canberra Freeholds Estate, 1926, showing the northern section of Environa with the area reserved for a golf course and for recreation (NLA MAP RM 892). Another sales plan of Environa (NLA MAP G8984.C3G46 1926) shows the area more specifically reserved for a recreation and sports ground and a golf course.

The handsome return that the Hallorans hoped to realise from 'Environa' never materialised, largely because of the winding down in the development of Canberra from the latter half of 1928 onward and then the onset of the Great Depression the following year. Nonetheless, the Halloran family retained ownership of the property for decades afterwards. For some time, they leased the land to the Morrison family of 'Tralee', except that they sold the northern section – on which the stone-faced brick building stands – to John Morrison or his son Bernard ('Bernie'). The Morrisons incorporated it into 'Tralee'.<sup>9</sup>

In the late 1960s, Bernie Morrison in association with the Canberra Speedway Club embarked on a venture to develop a professional speedway track for cars and motorcycles on Tralee station. The site chosen for the track was the northern extremity of Environa where Henry Halloran had envisaged laying out a golf course four decades before and where he had established his sports and recreation ground. Morrison was joined by Peter Gurbiel of the Canberra Speedway Club and a Canberra caterer, Keith Nurse, in forming a company to build the track and accompanying facilities. Together, they were responsible for the development of a ¼-mile circuit overlooked by a three-storey grandstand, restaurant and administration centre. Photographs suggest that the circuit was built on the site of Halloran's sports oval. It was officially opened on 21 June 1970 and was known initially as the Tralee Speedway. When the surface was asphalted in 1974, it was renamed the Fraser Park Speedway in honour of the Member for Canberra, Jim Fraser, who had died in April 1970.<sup>10</sup>

Further development of the complex took place later in the 1970s. In March 1976, a 400-metre grass track was laid down for quarter-horses. In August the following year, a whole new racing track for

Page 65 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.

<sup>&</sup>lt;sup>9</sup> Greg Murphy, 'Henry F. Halloran: dealer in land and dreams', *Canberra Historical Journal*, no. 17, March 1986, pp. 1-8, especially pp. 6-8; Clarke, 'Environa: a land developer's dream', pp. 1, 2; Department of the Valuer General, N.S.W., Valuation List for Queanbeyan, Serial No. 8690-360A-00-4, Valuer General No. 4325-91000, valuation date, 11 February 1980, printing date 8 January 1982.

<sup>&</sup>lt;sup>10</sup> Canberra Times, 20 September 1968, p. 1; 22 January 1970, p. 1; 15 May 1970, p. 24; 17 June 1970, p. 32; 16 June 1970, p. 3; 22 June 1970, p. 16; <a href="https://www.speedwayandroadracehistory.com/canberra-tralee---fraser-park-speedways.html">www.speedwayandroadracehistory.com/canberra-tralee---fraser-park-speedways.html</a>.

vehicles was opened to the east of the original one. It was a ½-mile dirt circuit that was mainly intended for motorcycle racing and was popularly known as the 'long track'. Its formal title, however, was the Tralee Speedway, while the name, Fraser Park Speedway, was reserved for the original ¼-mile circuit.¹¹

From its inception in 1970, the speedway complex managed to keep going despite suffering some serious financial problems at times. It eventually closed down in 1997 after more than 27 years of operation. By that time, the facility had become somewhat rundown probably because of dwindling patronage and lack of revenue. One of the main reasons for its closure, however, was the encroachment of suburban development at Jerrabomberra and complaints from residents about noise emanating from the speedway.<sup>12</sup>

<sup>&</sup>lt;sup>11</sup> Canberra Times, 4 March 1976, p. 24; 30 April 1977, p. 39; 23 August 1977, p. 18; 27 August 1977, p. 40; 6 August 1993, p. 22; information from Jason Burgess, Village Building Company P/L.

<sup>&</sup>lt;sup>12</sup> Canberra Times, 2 December 1978, p. 43; <a href="https://www.speedwayandroadracehistory.com/canberra-tralee---fraser-park-speedways.html">www.speedwayandroadracehistory.com/canberra-tralee---fraser-park-speedways.html</a>.

#### 4. The Stone-Faced Brick Building

Information on the building was sought from Bernie Morrison's daughter, Anne Forrest. On being asked when the building was erected, she instantly replied that it was 'a Halloran building'. By this, she meant that it was built at the time that Henry Halloran was trying to develop Environa as a residential estate. She did not know what the original purpose of the building was, but said that her father used it to store hay. She was adamant that the building long pre-dated the speedway development at Tralee and that it had nothing at all to do with the speedway.

Information was also sought from David Larcombe, grandson of Henry Halloran and the current owner / occupier of the Environa property. When asked about the date of the building's construction and about its function, he said that his grandfather had had it built in the latter half of the 1920s as a toilet block for the 'picnic grounds' or 'playing fields' that he had reserved for the northern part of his Environa development. He said that the building had been erected by Halloran's stonemason, Mr Powe. As with most of the other structures that Halloran had erected at Environa, Powe used stones gathered from the surrounding fields.<sup>13</sup> Mr Larcombe added that it was the only building at Environa or in any other of his grandfather's numerous developments in NSW that was 'lined with brick'.

Subsequently, David Larcombe was able to find an entry relating to the building from one of his grandfather's ledgers that he has in his possession. The entry records that on 14 August 1928 Henry Halloran ordered 7,000 bricks from the Queanbeyan Brick and Tile Company to construct lavatories (see below). The number of bricks is much greater than the number that would have been used in the construction of the toilet block, but Halloran may have been intending to build more and / or larger lavatory facilities.



Excerpt from one of Henry Halloran's ledgers, recording his purchase on 14 August 1928 of bricks for lavatories at Environa (courtesy of David Larcombe)

<sup>&</sup>lt;sup>13</sup> Jennifer Horsfield, 'Environa: marketing a life-style near Canberra 80 years ago', *National Library of Australia News*, October 2005, p. 9.

Page 67 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.

David Larcombe was also able to find two photographs that showed the toilet block soon after it was built. The photographs were taken during a field day at the Environa sports and recreation ground in 1929. Standing in the background of the photographs is one of the small circular kiosks or pavilions that Halloran had constructed at Environa. David Larcombe stated that Bernie Morrison towed this away with a tractor and positioned it at another site on his Tralee property. The date that this occurred is not clear, but it is likely to have happened when the speedway was under development in the late 1960s.



View looking approximately north of a field day on the sports / recreational ground at Environa, 1929, with the toilet block at left and kiosk at right (Courtesy of David Larcombe)

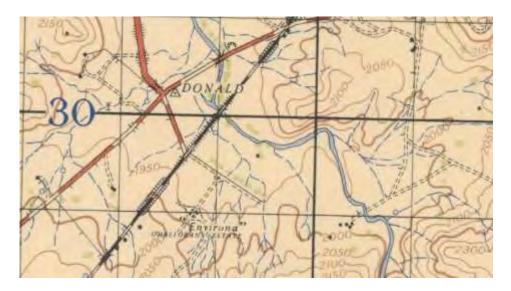


View looking approximately north of a field day on the sports / recreational ground at Environa, 1929, with the toilet block half in view at left and kiosk at right (Courtesy of David Larcombe)



A contemporary view looking approximately north, showing the stone-faced brick building (left) and with the same hills in the background

A topographical map based on 1941 aerial photographs and now held by the National Library shows the general area of Environa, together with Jerrabomberra Creek, the railway line, roads and tracks. The toilet block erected by Halloran is clearly visible on the map, though the cartographers did not bother to depict the nearby kiosk. The 1941 photographs on which the map was based could not be located at the National Library, but aerial photographs of the area were found that date from December 1944 and May 1952. These show both the toilet block and kiosk *in situ*, though the buildings are much easier to see on the better-quality 1952 image (which is included below).



Excerpt from a 1942 topographical map (based on 1941 aerial photographs), with the stone-faced brick building in the centre, immediately to the south of Jerrabomberra Creek (NLA Map G8980 S63)



Excerpt from a 1952 aerial photograph, showing in the centre the stone-faced brick building at left and kiosk at right (NLA I55-16, Canberra-Queanbeyan, 3 May 1952, Run 6, photograph no. 5148)

Anne Forrest expressed the view that it may have been her father who purchased the Italian tiles to re-roof the building. However, as her father used the building as a hay shed, it seems fairly unlikely that he would have invested in expensive tiles to do any re-roofing. The only possibility is that he had the building re-roofed in order to make it usable as a toilet block for the speedway development. But the block would have been too small for the sort of crowds that attended speedway races and, in any case, Morrison and his partners in the speedway venture erected two new purpose-built lavatory blocks in the first stage of the development. <sup>14</sup> David Larcombe also thought that he had seen a record of the purchase of the tiles in Henry Halloran's ledgers, though he was unable to locate it for this study.

Page 70 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.

<sup>&</sup>lt;sup>14</sup> Canberra Times, 8 May 1970, p. 24; 15 May 1970, p. 3.

#### 5. Discussion and Conclusion

The evidence shows that the stone-faced brick building at the northern end of Tralee was purpose-built as a toilet block by Henry Halloran as part of the development of his planned Environa subdivision. Its purpose was to serve as a facility for the sports and recreation ground and perhaps the golf course that Halloran had in mind for the northern end of Environa. The building was erected in the latter half of 1928 or in the early part of 1929. The actual work of construction was undertaken by a Mr Powe, Halloran's stonemason, who faced the structure with stones gathered on the estate. The only function of the facing stones was aesthetic, in that they were intended to make the building match or harmonise with the other stone structures that Halloran had built at Environa. There is no evidence to indicate that the building ever had anything to do with the speedway venture of the 1970s to 1990s.

The building is as an integral part of Halloran's putative Environa development and thus properly belongs with his other structures that stand at Environa, particularly the stone ones. More widely, the building is an example of Halloran's personal aesthetic preference for rustic-looking structures built of, or in this case faced with, stone. As such, it is of a piece with other stone structures he had built at places further afield, notably those he had constructed in the 1920s and 1930s at Tanilba House at Tanilba Bay, Port Stephens, which is listed on the NSW State Heritage Register (no. 5045714). Tanilba House, together with an elaborate stone wall Halloran had built to the west of it and his stone Portal to the Peerless at Port Stephens, are all also listed on the State Heritage Inventory (nos. 2280216, 2280129 and 2280108 respectively).

It should be noted that the Inventory entries for the latter two of these listings claim, incorrectly, that they are 'part of the sequence of stone structures built by Henry Halloran in the 1930's that make Tanilba Bay unique.' They are not unique, however, as the stone structures at Environa, including the stone-faced lavatory block, demonstrate. The Environa structures, moreover, are almost certainly more extensive than those Halloran had erected in the Port Stephens area.

The State Heritage Inventory also includes four separate entries for places listed under the general title 'Environa (Tralee Homestead Complex)'. These are the Open Air Motor Sport Track (*ie*, the speedway), the burnt-out ruins of a timber shed, a sheep dip and the Tralee Landing Ground (nos. 2290393 to 2290397 inclusive). It is not clear, though, whether the Environa subdivision ever covered the location of the sheep dip and, apart from the fact that the other three places happen to lie on the subdivision land, neither they nor the sheep dip ever had any relationship with Halloran's Environa. In like manner, the speedway development did not really have anything to do with the Tralee Homestead Complex. It would be better to amend the general title above to reflect the fact that the places lie on what was Tralee Station, while reserving the title 'Environa' for the actual structures associated with Halloran's proposed subdivision.

# QUEANBEYAN-PALERANG REGIONAL COUNCIL

Planning and Strategy Committee of the Whole Meeting Attachment

8 MAY 2019

ITEM 5.2 PLANNING PROPOSAL - WEST JERRABOMBERRA

ATTACHMENT 4 NTH TRALEE CONTAMINATION STUDY AUGUST 2018

Report on Detailed Site Investigation for Contamination

> Proposed Subdivision 360A Alderson Place, Tralee

Prepared for Canberra Estates Consortium No 4 Pty Ltd

> Project 46162.12 August 2018







## **Document History**

#### Document details

Project No.	46162.12	Document No.	R.001.Rev1
Document title	Report on Detailed Site Proposed Subdivision	Investigation for	Contamination
Site address	360A Alderson Place, 1	Tralee	
Report prepared for	Canberra Estates Cons	sortium No 4 Pty	Ltd
File name	46162.12.R.001.Rev1		

#### Document status and review

Status	Prepared by	Reviewed by	Date issued
Revision 0	Peter Storey	Dean Woods	July 2018
Revision 1	Peter Storey	Dean Woods	August 2018

#### Distribution of copies

Status	Electronic	Paper	Issued to
Revision 0	4	0	Jason Burgess, Canberra Estates Consortium No 4 Pty Ltd
Revision 1	- +	0	Jason Burgess, Canberra Estates Consortium No 4 Pty Ltd

The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and maccuracies.

Signati	ire	Date
Author	Peter Storey	August 2018
Reviewer	Dean Woods	August 2018



PS 604853

Dauglas Pariners Pty Lati ABN 75 053 980 117 www.dauglaspartners.com au Unit 2, 73 Shappard Street Hume ACT 2620 PO 804 1487 Fyelwick ACT 2608 Phone (02) 6260 2788 Fax (02) 6260 1147



## **Executive Summary**

This report presents the results of a detailed site investigation for contamination (DSI) undertaken for a proposed subdivision at 360A Alderson Place, Tralee. The investigation was commissioned in an email dated 25 May 2018 by Jason Burgess of Canberra Estates Consortium No 4 Pty Ltd and was undertaken in accordance with Douglas Partners' proposal CAN180102 dated 7 May 2018.

DF understands that the site is to be subdivided and rezoned to the following zones:

- RE2. Community playing fields; and
- IN2 Industrial

The objectives of the proposed works include:

- · Review site history information for the site,
- Undertake soil sampling at the site with interpretation of soil laboratory results, and
- Advise on any contamination and the need, or otherwise, for on-going site investigations and/or remediation.

The site comprises a large irregular shaped area and is approximately 54 hectares in size. An area in the central western portion of the site was used as a race track. An oval race track, earthen embankment and buildings are present in this area. A gravel road is present running along the southern boundary of the site. The remaining area of the site is grassed and scattered with trees. The maximum north-south dimensions and east-west dimensions are approximately 550 m and 1.2 km, respectively.

The site is generally flat and slopes down gently towards the north to northwest and the surface level of the site ranges from approximately 590 m AHD in the east of the site to 580 m AHD in the west of the site. The regional topography slopes down towards the north-west with the Tralee Hills present to the south-east of the site.

The site is bounded by rural properties to the north and south, low density residential properties to the east and commercial and industrial properties to the west.

The site history review indicated that the site had primarily been used for livestook grazing prior to development of the Speedway race track in 1970. The race track was operational from 1970 to approximately 1997. Anecdotal information and the results of the site inspection indicated an area of hummocky land was present in the north of the site that may have been associated with the dumping of waste material associated with the speedway operation. In addition, buildings located in the north-east corner of the site appeared in the early 1990s and were associated with potential sand or gravel extraction. The overall potential for contamination is considered to be moderate, with localised areas of more elevated contamination potentials.

The table below outlines the justification behind the identification of areas of environmental concern (AECs) and the environmental contaminants of concern (associated with each AEC).

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine



AEC Description	Justification	Potential Contaminants of Concern	Comments
AEC 1: Fill embankments with filling of unknown origin	Potential importation or use of filling of unknown origin. Possible contamination from burial of unknown wastes	TRH, BTEX, PAH, Metals, DCP/OPP, PCB, Asbestos	Generally comprising the fill embankment surrounding the main speedway race track.  DP considers the likelihood for cantaminants to be present to be moderate to high.  Soil media potentially affected.
AEC 2 Main Race Track	Potential spills and leaks from motor race vehicle during operation of the speedway	TRH, BTEX, PAH and Metals	Race track was in operation for approximately 30 years. There is potential for accumulation of hydrocarbon contamination from spills and leak from race vehicles.  DP considers the likelihood for contaminants to be present to be moderate.  Soil and groundwater media potentially affected
AEC 3: Race Track pits area	Potential spills and leaks from motor race vehicle during operation of the speedway	TRH, BTEX, PAH and Metals	The pits area to the east of the main race track was used to maintain vehicles prior to racing. There is the potential for accumulation of hydrocarbon contamination resulting from spill and leaks.  DP considers the likelihood for contaminants to be present to be moderate.  Soil and groundwater media potentially affected.
AEC 4: Hazardous Building Material	Hazardous building material associated with race track buildings.	Asbestos, Lead, PCBs.	Potential asbestos contaving material and lear paint used in construction of on-site buildings. DP considers the likelihood for contaminants to be present to be moderate to high in localised areas surrounding buildings.
AEC 5, Toilet Blocks and Spakaways	Potential biological pathogens associated with drainage of toilet blocks.	E.coli, Salmonella and Faecal coliforms	Several toilet blocks were present across the site. Site inspection indicated that these discharged to soakaways. There is the potentia for biological pathogens to be present.  DP considers the likelihood for contaminants to be present to be low to moderate.  Soil and groundwater media potentially affected.

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine

46162.12 R.001 Rev1 August 2018



AEC Description	Justification	Potential Contaminants of Concern	Comments
AEC 6: Historic on-site landfill	Anecdotal information indicates that waste from race track operation was buried on site.	TRH, BTEX, PAH, Metals, OCP/OPP, PCB, Asbestos	Anecdotal information from the current site owners indicates that waste material from speedway events were buried on site DP considers the likelihood for contaminants to be present to be moderate to high.  Soil and groundwater media potentially affected.
AEC:7: Potential sand /gravel extraction	Historical aerial photographs indicate the possible extraction of sand and or gravel in the north-east corner of the site. Possible machinery associated with this activity may have been present.	TRH, BTEX, PAH, Metals, PCB	Potential machinery associated with any extraction may have been powered by fuel oils. Storage and use of fuel oils may have resulted in leaks and spills and the accumulation of hydrocarbon contamination.  DP considers the likelihood for contaminants to be present to be low.  Soil and groundwater media potentially affected.
AEC 8 Potential historical use of pesticides	Prior to development of the speedway, the site was used for grazing, Pesticides may have been applied to livestock,	OCP/OCP, metals	No obvious sheep dip sites were observed during the site inspection, however there is potential for pesticides to have been used at the site.  DP considers the likelihood for accumulation of significant quantities of pesticides to be low.  Soil media potentially affected

The AECs were identified on the basis of the available site information, site inspection and limited subsurface investigation. Based on the findings of the assessment, including limited sampling and testing to date, the potential for gross contamination to be present within the site is considered to be low, with localised areas of more elevated contamination potential.

It is recommended that prior to the commencement of construction activities, further intrusive-based investigation be carried out to further characterise each of the identified AECs. The recommendations for further works are summarised in the Table below. The further works aim to confirm the suitability of the site for the proposed end-uses (commercial/industrial and recreational)

AEC	Description	Recommendations for further work
T		The results of the sampling of the fill embankment indicate that gross contamination was not present within the filling.
AEC 1	Fill Embankment	DP understands the filling may be re-used on site. DP considers the filling may be suitable for on-site reuse subject to further investigation and the implementation of an unexpected finds protocol.
AEC 2	Use of hydrocarbon fuel in race track area	No further investigation required but it would be prudent to include this area in the unexpected finds protocol

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine



AEC 3	Spills and leaks of fuels in pits area	
AEG 4	Hazardous building materials	A pre-demolition hazardous materials survey is recommended for buildings and former buildings in the race track area and should be undertaken by a licensed asbestos assessor.  Identified hazardous building materials should be removed by a licensed asbestos removalist and validation of the removal should be completed by a licensed asbestos assessor.
AEC 5	Toilet blocks and soakaways	No further investigation required except for a hazardous building materials survey.
AEC 6	Former landfill area	The results of the sampling of the former landfill identified the presence of anthropogenic waste, including asbestos containing material.  DP recommends the area is excavated and stockpiled on site prior to undertaking a waste classification assessment in order to dispose the material off-site to a suitably licensed waste disposal facility.
AEC 7	Potential sand and /or gravel extraction	No further investigation required.
AEC 8	Potential former Pesticide use	No further investigation required.

Based on the assessment undertaken to date, it is considered that the site is likely to be suitable for the proposed development, following further investigation and remediation detailed in the Table above.

In addition, DP recommends that a construction environmental management plan (CEMP), incorporating an unexpected finds protocol be implement during the development works at the site.



## **Table of Contents**

			rage
1.	Introd	duction.	1
2.	Scop	e of Works	t
3.	Site I	identification and Description	2
	3.1	Site Identification	2
	3.2	Site Layout and Description	3
4.	Soil L	andscape, Regional Geology and Hydrogeology	3
4	4.1	Soil Landscape	
	4.2	Regional Geology	
	4.3	Hydrogeology	
	4.4	Groundwater Bore Search	4
5	Site I	History	4
21	5.1	Regulatory Notice Search under the CLM and POEO Acts	
	5.2	Historical Title Search	
	5.3	Historical Aerial Photography	
	5.4	Additional Historical Information	
6.	Site I	Inspection	8
7	Prope	osed Development	9
8	Poter	ntial for Contamination	9
9.	Conc	peptual Site Model	- 11
	9.1	Potential Receptors.	
		9.1.1 Human Health Receptors	
		9.1.1 Environmental Receptors	12
	9.2	Potential Pathways	12
	9.3	Summary of Potential Complete Pathways	12
10.	Samp	pling and Analysis Plan and Methodology	14
	10.1	Data Quality Objectives	14
	10.2	Sampling Rationale	16
		10.2.1 Motor Vehicle Speedway	16
		10.2.2 Former Landfill	16
		10.2.3 Former Toilet Blocks	
		10.2.4 Former Agricultural Use	
	10.3	Methods and Sampling Locations	17

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Tralee



	10.4	Soil Sampling Procedure	
	10.5	Analytical Rationale	18
11.	Qual	ity Assurance and Quality Control	18
12.	Site	Assessment Criteria	18
	12.1	Health Investigation and Screening Levels	19
	12.2	Ecológical Investigation Levels	21
	12.3	Ecological Screening Levels – Petroleum Hydrocarbons	22
	12.4	Management Limits – Petroleum Hydrocarbons	23
	12.5	Asbestos in Soil	24
13.	Resu	ults of the Investigation	25
	13.1	Subsurface Conditions	25
		13.1.1 Race Track Embankment	
		13.1.2 Former Race Track Area	25
		13.1.3 Former Race Track Pits Area	25
		13.1.4 Former Landfill Area	
		13.1.5 General Areas of the Site	
	13.2	Field Screening Observations	26
	13.3	Contamination Observations	26
		13.3.1 Field Sieve Screening for Asbestos	
	13.4	Analytical Results	27
	13.5	Assessment of Laboratory Results	27
		13.5.1 Motor Vehicle Speedway Area	
		13.5.2 Former Landfill Area	27
		13.5.3 Former Toilet Block Areas	27
		13.5.4 Agricultural Areas	27
14.	Revis	sed Conceptual Site Model	28
15.	Conc	clusions and Recommendations	29
16.	Refe	fences	30
17.	Limit	alions	31

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales



## APPENDICES

Appendix A About This Report

Appendix B Drawings

Appendix C: Site History Searches

Appendix D: Historical Aerial Photographs

Appendix E Site Photographs
Appendix F Test Pit Logs

Appendix G: Data Quality Assessment

Appendix H: Laboratory Certificates of Analysis and Chain of Custody Documentation

Appendix I: Ecological Investigation Level Calculation Sheet Output

Appendix J: Tables



Page 1 of 33

# Report on Detailed Site Investigation for Contamination Proposed Subdivision 360A Alderson Place, Tralee

#### 1. Introduction

This report presents the results of a detailed site investigation for contamination for contamination (DSI) undertaken for a proposed subdivision at 360A Alderson Place, Tralee. The investigation was commissioned in an email dated 25 May 2018 by Jason Burgess of Canberra Estates Consortium No 4 Pty Ltd (CEC) and was undertaken in accordance with Douglas Partners' proposal CAN180102 dated 7 May 2018.

DP understands that the site is to be subdivided and rezoned to the following zones:

- RE2: Community playing fields; and
- IN2 Industrial

The site is approximately 54 hectares in size and has formerly been used for agricultural uses and a motor vehicle race track. Anecdotal information indicates that a possible former landfill is also located in the northern part of the site. DP further understands that remediation of asbestos contamination has occurred on part of the site adjacent to the southern boundary. CEC therefore, require a site contamination assessment to inform any further remediation works that may be necessary prior to development.

The objectives of the proposed investigation include:

- Review site history information for the site;
- Undertake soil sampling at the site with interpretation of soil laboratory results, and
- Advise on any contamination and the need, or otherwise, for on-going site investigations and/or remediation.

This report must be read in conjunction with the notes About this Report which are included in Appendix A:

#### Scope of Works

The following scope of works was conducted to meet the project objectives:

- Preparation of a list of Potential Areas of Environmental Concern (PAEC) through investigation of the site by the following methods:
  - A desk study of available topographical, geological and hydrogeological maps;
  - A search through the Contaminated Land Register for notices issued under the CLM Act;
  - A search of the groundwater bore database;
  - A review of available historical aerial photography;

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales

46162.12 R.001 Rev1 August 2018



Page 2 of 32

- A review of historical land titles with respect to the Deposited Plan to identify previous site owners. The names and occupations of site owners may assist in the identification of potentially contaminating activities.
- Review of existing environmental reports available for the site; and
- Site inspection by an environmental scientist;
- Formulation of a preliminary conceptual site model (CSM) based on the site history review and inspection;
- Subsurface investigation with sampling and laboratory testing for the contaminants of concern as outlined Sections 10 and 11;
- Revision of the CSM based on the results of the limited subsurface investigation and laboratory testing; and
- Preparation of this report presenting the findings of the DSI, identification of potential sources of contamination, and an assessment of the need for further investigations and/or management.

The works documented in this report were undertaken with reference to the following guidance:

National Environment Protection Council, National Environment Protection (Assessment of Site Contamination) Measure (1999, as amended 2013) (Ref 1); and

NSW Office of Environment and Heritage (OEH) (2011) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites (Ref 2).

## 3. Site Identification and Description

#### 3.1 Site Identification

Site information is summarised in Table 1 below.

Table 1: Site Identification Details

Item	Details
Site Owner/ Occupiers	The Village Building Company Limited
Site Address	360A Alderson Place, North Trailee
Registered Lot and Plan (see Drawing 1, Appendix B)	The site is comprised of the following registered lot parcels  Lot 6, DP239080, Lot 3, DP239080, and  Lot 1, DP313299
Current land use	Stock grazing
Current Zoning	DM: Deferred Matter (extract of Queanbeyan-Palerang Regional Council Local Environment Plan 2009 is presented in Appendix C):
Council	Queanbeyan-Palerang Regional Council
Approximate Site Area	54 hectares
Proposed future land-use	Commercial/Industrial development and recreational - playing fields

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trailed 46162.12 R.001,Rev1 August 2018



Page 3 of 32

11	tem	Details	
Proposed future	e zoning	RE2: Community Playing Fields; and IN2; Industrial	
Surrounding Land Use	North:	Jerrahomberra Creek with open agricultural land beyond	
	South:	Open agricultural land grazing	
	East:	Low Density Residential properties	
	West:	Commercial/Industrial properties	

## 3.2 Site Layout and Description

The site comprises a large irregular shaped area and is approximately 54 hectares in size. An area in the central western portion of the site was previously used as a race track. An oval race track, earther embankment and buildings are present in this area. A gravel road is present running along the southern boundary of the site. The remaining area of the site is grassed and scattered with trees. The maximum north-south dimensions and east-west dimensions are approximately 550 m and 1.2 km, respectively.

The site is generally flat and slopes down gently towards the north to northwest and the surface level of the site ranges from approximately 590 m AHD in the east of the site to 580 m AHD in the west of the site. The regional topography slopes down towards the north-west with the Tralee Hills present to the south-east of the site.

The site is bounded by rural properties to the north and south, low density residential properties to the east and commercial and industrial properties to the west.

Drawing 1, Appendix B present the site location and an aerial view of the current site features

## 4. Soil Landscape, Regional Geology and Hydrogeology

## 4.1 Soil Landscape

Reference to the 1:100 000 'Canberra Soil Landscape' Series Sheet 8727 (Ref 3) indicated that the site is mapped as being on the Williamsdale Soil Group.

The Williamsdale Soil Group is characterised by undulating rises, alluvial fans and valley flats on Silurian Volcanics of the Canberra Formation. Generally, little or no rock outcrops occur within this soil group. Soils are moderately deep, well drained podzolic soils, red and brown earths on upper rises and fan elements and moderately to very deep, poorly to imperfectly drained, solodic soils on lower rises and fan elements. This soil group is limited by its erodible and dispersible nature, its acidity, potential for seasonal water-logging and localised flooding hazard.

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Flace, Trales



Page 4 of 32

## 4.2 Regional Geology

Reference to the Canberra 1:100 000 Geological Series Sheet (Ref 4) indicates that the site is undertain by geological rock units of the Laidlaw Volcanics of late Silurian age.

The Laidlaw Volcanics typically comprise rhyodacitic ignimbrite with minor volcaniclastic and argillaceous sedimentary rocks.

## 4.3 Hydrogeology

The 1:100,000 map 'Hydrogeology of the Australian Capital Territory and Environs' (Ref 5) indicates that the site is underlain by geological units of late Silurian aged. These typically include dacitic, rhyodactic, ignimbrite, bedded luffs, minor shale, sandstone, limestone and ashstone and are typically fractured, high yielding where minor limestone beds, major fold closures, major geologic contacts, individual ash-flows and interbedded sediments appear. The mapped water quality is indicated to be good with total dissolved solids of less than 500 mg/L and yield is mapped at less than 0.5 L/s.

If is anticipated that groundwater flow direction in the area will follow the regional topography and flow towards the north to north west:

## 4.4 Groundwater Bore Search

A search of the groundwater bore database was conducted through the NSW Department of Primary Industries. Based on the database there are two groundwater abstraction bores registered within a 1.5 km radial search area of the site. Further information was available through the database for the bore as shown in Appendix C and summarised in Table 2.

Table 2: Groundwater Bores Attribute Data

Groundwater Bore Number	Date Installed	Distance to site (m)	Private/Public	Groundwater Usage	Depth (m)	Depth to standing water level (m)	Yield (L/s)
GW043846	1/10/69	835 m S	Private	Imigation	40,50	17.6	0.51
GW043847	1/08/69	1,020 m	Private	Stock, Domestic	37.70	12.10	0.07

#### 5. Site History

#### 5.1 Regulatory Notice Search under the CLM and POEO Acts

A search on 5 June 2018 for Statutory Notices issued under the Contaminated Land Management Act 1997 and Protection of the Environment Operation Act 1997 (POEO) available on the NSW Environment Protection Authority (EPA) website indicated that there have been no notices issued on the subject Lots.

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Flace, Trales



Page 5 of 33

An extract of the "List of NSW Contaminated Sites Notified to EPA" is presented in Appendix C.

#### 5.2 Historical Title Search

Historical title records were reviewed to identify any previous land owners and/or site uses that may indicate a potential for contamination. Information of current and previous owners is presented in Table 3. The historical title search results are presented in Appendix C.

Table 3: Summary of Historical Titles

Date of Acquisition and term held	Registered Proprietor(s) & Occupations	Interred Land Use
19.12.1924 (1924 to 1925)	James Patrick Heaton (Grazier)	Agnoultural
01.04.1925 (1925 to 1936)	Amy Gwendoline Halloran (Married Woman)	Agricultural
01.07 1936 (1936 to 1954)	John Morrison (Grazier)	Agricultural
31.03.1954 (1954 to 1993)	John Walsh Morrison (Catholic Priest) Bernard Lawrence Morrison (Grazier) (Application by Transmission not investigated)	Agricultural
04.03.1993 (1993 to 1999)	Bernard Lawrence Morrison (Grazier)	Unknown
18 06 1999 (1999 to 1999)	Sandra Anne Walsh Graeme Farquhar Finlayson (Executors of the Will of Bernard Lawrence Morrison)	Unknows
18.10.1999 (1999 to 2002)	Therese Mary Hansen John Bernard Mornson Lucille Margaret Wilmot Sandra Anne Walsh	Unknown
13.06.2002 (Part) (2002 to 2003)	The Village Building Co. Limited	Unknewn
02.04.2014 (2014 to Date)	The Village Building Co. Limited	Unknown

No significant potential sources of contamination were identified based on a review of the inferred site ownership records.

## 5.3 Historical Aerial Photography

Five historical aerial photographs available from the ACT Planning and Land Authority and twosatellite images obtained from Google Earth were reviewed (refer to Aerial Photograph Plates D1 to D8 presented in Appendix D).

The photographs and image were examined for signs of potential areas of environmental concern such as planting patterns, previous structures which may have subsequently been removed, existing

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trailed

46162.12 R.001 Rev1 August 2018



Page 6 of 33

structures, stripped soil or areas of filling or disturbance or other signs of potentially contaminating activities. Findings of the review are summarised Table 4

Table 4: Summary of Historical Aerial Photography Review

Aerial Photograph	On-site Conditions	Surrounding Area
1951 Photograph Run 9-5118	The site appeared to be unimproved open land open covered by grass and sporadic trees. Two small structures appeared to be present in the central part of the site, one of which may have been a homestead. Several track crossed the site. It is possible that hay production was occurring in the north-eastern corner of the site.  Creek lines were present aligned southeast to north-west crossing the central portion of the site of the site.	The surrounding area was unimproved open grassland and several farm dams were present. Jerrabomborra Greek was present immediately to the north of the site.  An unsealed track was present to the south of the site. A railway line was present to the west of the site.
1961 Photograph Sortie 23-120	Largely unchanged from the previous aerial photograph. A farm dam was present in the south west corner of the site.	Largely unchanged from the previous aerial photograph.
1973 Photograph Run 73C14-12B	The western part of the site had been developed as a race track arena consisting of an oval-shaped vehicle track and earthen embankment. The race track appeared to be unsealed.  Two buildings were present on the western side of the race track and one building was present on the eastern side of the race track.  Access tracks were present leading from the north-west comer of the site to the race track area.  An excavation was present immediately to the east of the possible homestead located in the central part of the site.  The eastern part of the site was largely unchanged.	Largely unchanged from the previous aerial photograph.  Farm dams and drainage channels had been cut into the agricultural land to the south of the site.
1983 Photograph Run 21-123	An additional race track had been constructed to the east of the original race track. The new race track area appeared to be unsealed.	The construction of commercial and industrial properties to the west of the site had been undertaken:

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine



Page 7 of 32

Aerial Photograph	On-site Conditions	Surrounding Area
	The area to the east of the original race track appeared to have been developed as an un-sealed car park and additional buildings had been constructed in this area.  A disturbed area of ground was visible to the north-east of the original race track, adjacent to Jerrabomberra Creek.	
	The excavation to the east of the homestead building had been in-filled. The second building visible on the 1951 aerial photograph was no longer present.	
	Several fracks crossed the site, a track crossed the site along the northern site boundary to a building located in the north-east corner of the site.	
1990 Photograph Run 21-792	Largely unchanged from the previous photo. Two additional small buildings were present to the west of the race track.  Several small stockpiles were present in the west of the site. The car parking area to the east of the original race track had been enlarged and the second race track appeared to be un-used.  Buildings had been constructed in the north-east corner of the site, where bare earth was present and it appeared the banks of Jerrabomberra Creek had been excavated.	Additional construction of commercial and industrial properties to the west of the site had been undertaken.  A lake had been constructed to the east of the site
1995 Photograph Run21-64	Largely unchanged from the previous aerial photograph	Largely unchanged from the previous photo. Some additional buildings had been developed in the north-east corner of the site.
1898 Photograph Run 8-92	Largely unchanged from the previous aerial photograph. Some of the buildings associated with the race track were no longer present.	Residential properties had been developed to the east of the site.
2005 GoogleEarth Satellite Image	The race track area of the site appeared to be disused and some of the buildings appeared to have been demolished.  The buildings in the north-east corner of	Largely unchanged from the previous aerial photograph.

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine



Page 8 of 32

Aerial Photograph	On-site Conditions	Surrounding Area	
	the site were no longer present.		
2018 GoogleEarth Satellite Image	Largely unchanged from the previous aerial photograph. A dirt road had been constructed along the southern boundary of the site.	Largely unchanged from the previous aerial photograph	

#### 5.4 Additional Historical Information

An internet search for the 'Tralee Speedway' conducted on 2 July 2018 indicated the following information:

- The Tralee Speedway was constructed during 1970 and opened in May 1970;
- The speedway consisted of an oval track with a surrounding earthen embankment. The race track had a dirt surface and was 410 m in length;
- A large building was located adjacent to the west of the track. It is understood that the building contained a canteen and control tower for race track operations;
- A 'pits area' was located to the east of the track where cars were prepared for racing;
- Between 1974 and 1977 it is understood that the race track was sealed with bitumen. Following 1977, it is understood that the surface of the race track was returned to dirt and a second race track, approximately half a mile in length was built to the east of the main race track; and
- The speedway ceased operations in 1997.

## Site Inspection

A site inspection was undertaken on 4 June 2018 by an experienced environmental scientist. The inspection was undertaken to check and identify (where possible) the likely presence, or otherwise, of potential sources of contamination. Reference was made to the site history review, in order to identify and comment on additional potential sources of contamination which were encountered or observed. Drawing 1, Appendix B, and site photographs, Appendix E, shows the layout of the site.

The following observations were made during the site inspection:

- The site is a large, relatively flat block of land that is mainly grassed that was un-used at the time
  of the site inspection;
- A race track was present in the central part of the site. The race track was oval shape and
  unsealed Surrounding the race track was a large earthen embankment. The embankment was
  approximately 5 m to 6 m in height at its highest point and approximately 30 m wide.
- Two buildings were present to the west of the race track, a small square building and a larger rectangular building. The two buildings were in a state of disrepair and broken pieces of compressed cement sheeting were observed on the ground surface in the vicinity of both buildings;
- A concrete slab was located to the west of the two buildings indicating the former presence of another building. Building and demolition rubble was noted on the ground surface in this area;

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales



Page 9 of 32

- A soakaway was observed between the two buildings. The soakaway was constructed from a section of concrete pipe. Two drainage pipes were observed to enter the soakaway.
- A large concrete stab was present on the western side of the racetrack. Stockpiles of building and demolition rubble were present adjacent to the concrete stab.
- A stockpile of demolition rubble was present on the southern part of the earthen embankment.
   The stockpile contained timber and pieces of compressed cement sheeting;
- Immediately to the west of the race track was an area of hard standing surfaced with bitumen.
   Four concrete slabs were present in were present in this area. In addition, in the north western part of this area, stockpiles of building and demolition rubble were present;
- The remains of a tollet block building were present to the south of the hard standing area. A soakaway was observed associated with the tollet block building remains;
- An area of hummocky ground was present to the north-east of the race track area. Anthropogenic
  waste materials including metal, concrete and car parts were observed protruding from the
  ground surface. Information from the site owner's representative indicated that this area may
  have been used as a small landfill area associated with the speedway operation;
- The remains of an old homestead building were present to the south of the area of hummocky
  ground. What appeared to be a soakaway was present to the south of the homestead;
- A gravel road was present running along adjacent to the southern boundary of the site
- A further toilet block was located to the south of the gravel road. The toilet block was constructed from cinder blocks and was in a state of disrepair. A soakaway was located to the north-west of the toilet block.
- Areas of disturbed ground were present adjacent to the western boundary of the site. Bare earth
  was present at the surface and anthropogenic material including concrete was observed,
  suggesting the presence of filling; and
- . No potential sheep or cattle tick dip facilities were observed during the site inspection.

Selected site photographs from the site inspection visit are presented in Appendix E.

#### 7. Proposed Development

DP understands that the proposed development will include the subdivision of the site for commercial/industrial and recreational use. Detailed development plans were not available at the time of writing this report, however, it is understood that the recreational use will include the development of playing fields. It is understood that at this time, there are no plans for residential development at the site.

## 8. Potential for Contamination

The site history review indicated that the site had primarily been used for livestock grazing prior to development of the Speedway race track in 1970. The race track was operational from 1970 to approximately 1997. Anecdotal information and the results of the site inspection indicated an area of

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales



Page 10 of 32

nummocky land was present in the north of the site that may have been associated with the dumping of waste material associated with the speedway operation. In addition, buildings located in the north-east corner of the site appeared in the early 1990s and were associated with potential sand or gravel extraction. The overall potential for contamination is considered to be moderate, with localised areas of high contamination potential.

Table 5 outlines the justification behind the identification of areas of environmental concern (AECs) and the environmental contaminants of concern (associated with each AEC). Due to the varying potential for environmental impact associated with different contamination sources, intrusive sampling should be undertaken targeting all potential AECs.

Table 5: Summary of Identified Areas of Environmental Concern

AEC Description	Justification	Potential Contaminants of Concern	Comments
AEC 1: Fill embankments with filling of unknown origin	Potential importation or use of filling of unknown origin. Possible contamination from burial of unknown wastes.	TRH, BTEX, PAH, Metals, OCP/OPP, PCB, Asbestos	Generally comprising the fill embankment surrounding the main speedway race track.  DP considers the likelihood for contaminants to be present to be moderate to high Soil media potentially affected.
AEC 2 Main Race Track	Potential spills and leaks from molor race vehicle during operation of the speedway.	TRH, BTEX, PAH and Metals	Race track was in operation for approximately 30 years. There is potential for accumulation of hydrocarbon contamination from spills and leaks from race vehicles.  DP considers the likelihood for contaminants to be present to be moderate.  Soil and groundwater media potentially affected.
AEC 3 Race Track pits area	Potential spills and leaks from motor race vehicle during operation of the speedway.	TRH, BTEX, PAH and Metals	The pits area to the east of the main race track was used to maintain vehicles prior to racing. There is the potential for accumulation of hydrocarbon contamination resulting from spills and leaks.  DP considers the likelihood for contaminants to be present to be moderate.  Soil and groundwater media potentially affected.
AEC 4. Hazardous Building Material	Hazardous building material associated with race track buildings	Asbestos, Lead, PCBs	Potential asbestos containing material and lead paint used in construction of on-site buildings.  DP considers the likelihood for contaminants to the present to be moderate to high in localised areas surrounding buildings.  Soil media potential affected

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine



Page 11 of 32

AEC Description	Justification	Potential Contaminants of Concern	Comments
AEC 5; Toilet Blocks and Scakaways	Potential biological pathogens associated with drainage of toilet blocks	E coli, Salmonella and Faecal coliforms	Several toilet blocks were present across the site. Site inspection indicated that these discharged to soakaways. There is the potential for biological pathogens to be present.  DP considers the likelihood for contaminants to be present to be low to moderate.  Soil and groundwater media potentially affected.
AEC 8 Historic on-site landfill	Anecdotal information indicates that waste from race track operation was buried on site.	TRH, BTEX, PAH, Metals, OCP/OPP, PCB, Asbestos	Anecdotal information from the current site owners indicates that waste material from speedway events were buried on site.  DP considers the likelihood for contaminants to be present to be moderate to high.  Soil and groundwater media potentially affected.
AEC 7: Potential sand /gravel extraction	Historical serial photographs indicate the possible extraction of sand and or grayel in the north-east corner of the site. Possible machinery associated with this activity may have been present.	TRH. BTEX. PAH, Metals, PCB	Potential machinery associated with any extraction may have been powered by fuel oils. Storage and use of fuel oils may have resulted in leaks and spills and the accumulation of hydrocarbon contamination.  DP considers the likelihood for contaminants to be present to be low.  Soil and groundwater media potentially affected.
AEC 8: Potential historical use of pesticides.	Prior to development of the speedway, the site was used for grazing, Pesticides may have been applied to livestock.	DCP/OCP metals	No obvious sheep dip sites were observed during the site inspection, however there is potential for pesticides to have been used at the site.  DP considers the likelihood for accumulation of significant quantities of pesticides to be low.  Soil media potentially affected

## 9. Conceptual Site Model

Based on Section 8, the potential contamination sources are as follows:

- S1 Fill embankments
- S2 Use of hydrocarbon fuel in race track area
- S3 Spills and leaks of hydrocarbon fuels in pit area
- S4 Hazardous Building Materials
- S5 Toilet blocks and soakaways

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trailed



Page 12 of 32

- S6 Filling in former landfill area
- S7 Potential sand and/or gravel extraction
- S8 Potential historical use of pesticides

## 9.1 Potential Receptors

#### 9.1.1 Human Health Receptors

Potential human health receptors include the following

- R1 Current users (general public)
- R2 Construction and maintenance workers
- R3 Future users (commercial workers and general public in recreational areas)
- R4 Land users in adjacent areas

## 9.1.1 Environmental Receptors

Potential Environmental Receptors include the following:

- R5 Groundwater
- R6 Surface water (Jerrabomberra Creek)
- R7 Ecological receptors

#### 9.2 Potential Pathways

Potential pathways for contamination present include the following:

- P1 Incidental ingestion and dermal contact of soil and dust particulates
- P2 Indoor inhalation of vapours
- P3 Outdoor inhalation of dust particulates
- P4 Outdoor inhalation of vapours
- P5 Surface water run-off
- P6 Leaching of contaminants and vertical mitigation into groundwater
- P7 Lateral migration of groundwater providing base-flow to watercourses
- P8 Direct contact with ecological receptors

## 9.3 Summary of Potential Complete Pathways

A 'source-pathway-receptor' approach has been used to assess the potential risks of harm being caused to human, water or environmental receptors from contamination sources on or in the vicinity of the site, via transport pathways (potential complete pathways). The possible pathways between the above sources (S1 to S3) and receptors (R1 to R6) are provided below in Table 6.

Detailed Site Investigation for Contamination, Proposed Subdivision - 360A Alderson Place, Trales

46162.12 R.001 Rev1 August 2018



Page 13 of 32

Table 6: Summary of Potentially Complete Pathways

Source	Receptor	Transport Pathway	Comments
	R2	P1_P3 and P4	The unknown origin of the filling within the embankment
	R3	P1, P2, P3 and P4	<ul> <li>surrounding the racetrack presents a risk to human health receptors.</li> <li>An intrusive investigation is required to assess possible</li> </ul>
	R5	P6 and P7	contamination within the filling. As the site is currently
S1 – Fill	R6	P5 and P7	disused, no current users of the site were identified
Embankment	R7	P8	If soil contamination is identified, assessment of groundwater and identified surface water receptors may be necessary.  Investigation of soils is required to assess the risk to ecological receptors.
da eri era	R2	P1, P3 and P4	Leaks and spills of hydrocarbons were possible during
S2 – Use of hydrocarbon fuel in race	R3	P1, P2, P3 and P4	the operation of the speedway. Intrusive investigation is required to assess possible site contamination
track area	R5	P6 and P7	If soil contamination is identified, assessment of
S3 – Spills	R6	P5 and P7	groundwater and identified surface water receptors may
and leaks of fuels in pits R7 P8 Intrusir	<ul> <li>be necessary</li> <li>Intrusive investigation of soils is required to assess the risk to ecological receptors.</li> </ul>		
S4 – Hazardous building materials	R2	P3	Intrusive investigation is required to establish the extent
	R3	P3	of hazardous building materials in filling materials present at the site.
	R2	Pt	An intrusive investigation is required to assess possible
	R3	P1	site contamination. If soil contamination is identified,
S5 – Toilet blocks and	R5	P6 and P7	assessment of groundwater and identified surface water receptors may be necessary.
soakaways	R7	P8	Intrusive investigation of soils is required to assess the risk to ecological receptors.
	R2	P1, P3 and P4	The former landfill area was confirmed to contain waste
	R3	P1, P2, P3 and P4	material during the site inspection. An intrusive investigation is required to assess possible site.
00 6.0	R5	P6 and P7	contamination
S6 – Former landfill area	R6	P5 and P7	If soil contamination is identified, assessment of
anount area	R7	P8	<ul> <li>groundwater and identified surface water receptors may be necessary</li> <li>intrusive investigation of soils is required to assess the risk to ecological receptors.</li> </ul>
S7'-	R2	P1, P3 and P4	An intrusive investigation is required to assess possible
Potential sand and /or gravel	R3	P1_P2, P3 and P4	site contamination.  If soil contamination is identified, assessment of
extraction	R5	P6 and P7	groundwater and identified surface water receptors may

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trailed



Page 14 of 33

Source	Receptor	Transport Pathway	Comments
	R6	P5 and P7	be necessary.
	R7	P8	Intrusive investigation of soils is required to assess the risk to ecological receptors.
	R2	P1_P3	An intrusive investigation is required to assess possi
	R3	P1. P3	site contamination
S8 – Potential	R5	P6 and P7	If soil contamination is identified, assessment of
historical use of pesticides	R6	P5 and P7	groundwater and identified surface water receptors may be necessary.
or pesticides	R7	P8	Intrusive investigation of soils is required to assess the risk to ecological receptors.

## 10. Sampling and Analysis Plan and Methodology

## 10.1 Data Quality Objectives

Data qualitative objectives (DQOs) are qualitative and quantitative statements that specify of data required for the assessment and have been derived from the CSM. The DQO process is a seven-step iterative planning approach that is used to define the type, quantity and quality of data needed to inform decisions relating to the environmental condition of a site. DQOs for this assessment were developed in accordance with the seven-step DQO process specified in NEPM (Schedule B2, Appendix B) and are summarised in Table 7 below.

Table 7: DQOs for the project

Problem	Uncertainty exists as to whether contamination exists at the site
Identify the	Does soil contamination exist from previous site uses?
Decision/ Goal	Are there any signs of elevated soil contamination within the site?
	Does the site, or is the site likely to, present a risk of harm to human health or the environment?
	Are there any significant contamination issues that could restrict the proposed development?
	Does the site require further investigation, remediation and/or validation to render the site suitable for the proposed use?
	Is there any contamination requiring the site to be listed on list of contaminated sites notified to the NSW EPA?
information	Historical information regarding past land uses and features
Inputs	Site operations and observation details
	Soil profile information obtained through the sampling phase
	Chemical analysis data for soil samples analysed
	Assessment of analytical data against applicable site assessment criteria

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trailed



Page 15 of 32

Study	The physical site boundary is shown on Drawing 1, Appendix 8 and forms the boundary of this investigation.
	The temporal boundary of this assessment is limited to the time at which the assessment was conducted.
Decision Rules	Information obtained in this investigation is to be used to make an assessment of contamination issues likely to impact on the proposed development.
	In assessing analytical data against screening levels for ecological and/or human health risk, site conditions can be stated to be acceptable if either:
	All results are below the relevant screening level; OR
	<ul> <li>Individual concentrations of analytes (non-volatile) are less than 250% of the relevant screening level; and</li> </ul>
	<ul> <li>The 95% upper confidence limit (UCL) of mean concentrations of a data set to samples of like material is below the relevant screening level, and</li> </ul>
	The standard deviation of the population is <50% of the relevant screening level.
	Statistical analysis needs only be conducted where analytical results for a contaminant of concern are recorded above, but less than 250% of the relevant screening level.
	Laboratory results are accepted and considered suitable for this assessment under the following conditions:
	<ul> <li>All laboratories are accredited by National Association of Testing Authorities (NATA for all analyses to be performed</li> </ul>
	<ul> <li>All practical quantitation limits (PQLs), or laboratory limits of reporting (LORs) set by the laboratories fall below the adopted assessment criteria.</li> </ul>
	<ul> <li>Reported concentrations of analytes in the replicate and/or split sample pairs an within accepted limits; and</li> </ul>
	<ul> <li>Quality assurance/quality control (QA/QC) protocols and results reported by the laboratories comply with the requirements of NEPM (Schedule B3).</li> </ul>
Performance Critéria	Analyte selection was based on available site history information, observed site activities, site features, and field observations during sampling.
	The potential for contaminants to be present other than those analysed is considered to be low
	Assessment criteria adopted from the guidelines stated in Section 12 incorporate risk probabilities.
	Acceptable limits for laboratory QA/QC parameters are based on those stated by the laboratory and those stated in NEPM (Schedule B3).
Optimisé design	Locate sampling points to larger potential sources of contamination.
	Procedures for collection of environmental samples were developed prior to fieldwork with reference to NEPM, AS4482.1, AS4482.2, and current good industry practice.
	Use of NATA accredited analytical laboratories to conduct sample analyses.

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traise



Page 18 of 32

## 10.2 Sampling Rationale

The site area is understood to be approximately 54 hectares. For the purposes of this investigation, the site was split into smaller areas for investigation as recommended by the NSW EPA Sampling Density Guidelines (NSW EPA, 1995).

The site was divided into three zones for more effective sampling of the site. The division of the site was based on the past uses of the site identified during the desktop site history review. The site was divided into the following smaller areas.

- The motor vehicle speedway area in the central south of the site;
- . The former landfill in the north of the site:
- Former toilet blocks, and
- Areas of the site used for agricultural purposes

The following sampling rationales were developed for each of the above areas.

#### 10.2.1 Motor Vehicle Speedway

The motor vehicle racing track is approximately 4 ha in size and comprises the former race track surface, a large fill embankment, a race track pits area and former buildings that are in various states of disrepair, with the majority only retaining the concrete slab. DP excavated 42 test pits across this area to target the following PAEC.

- Nineteen test pits (Pits 1 to 15, Pits 31 to 33 and Pit 50) were excavated within the fill embankment surrounding the main race track (AEC 1) Pits 1 to 10, 31 to 33 and 50 were excavated from the top of the fill embankment. Pits 11 to 15 were excavated into the northern slope of the northern side of the embankment.
- Six test pits (Pits 16 to 21) were excavated within the main race track (AEC 2).
- Nine test pits (Pits 22 to 30) were excavated within the race track pits area to the east of the main race track (AEC 3) and
- Eight test pits (Pits 34 to 40 and Pit 49) were excavated in the vicinity of building footprints (AEC 4)

## 10.2.2 Former Landfill

The former possible landfill in the north of the site is approximately 3,000 m<sup>2</sup> in size and is understood to comprise an area where waste from racing events was dumped and then covered with soil DP excavated 10 test pits (Pits 51 to 60) across this area to target the AEC (AEC 6)

#### 10.2.3 Former Toilet Blocks

Eight test pits (Pits 41 to 48) were excavated to investigate the former toilet blocks and soakaways (AEC5).

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales



Page 17 of 32

## 10.2.4 Former Agricultural Use

The site is understood to have been used for grazing purposes prior to development of the motor speedway DP excavated 20 test pits (Pits 61 to 80) across the site to assess for contaminants associated with agricultural use. This also included 3 test pits (Pits 63 to 65) located within the northeast corner of the site to assess potential contamination associated with the possible extraction of sand and/or gravel

#### 10.3 Methods and Sampling Locations

The fieldwork comprised the excavation of 80 test pits (Pits 1 to 80) to a maximum depth of 3.2 m below ground level (bgl) using a Kobelco mini-excavator filted with a 450 mm bucket. Samples were collected directly from pit walls or directly from the centre of the excavator bucket at regular intervals during the excavation process. All test locations were selected for the collection of soil samples.

Fieldwork was undertaken between on 18 June and 26 June 2018 by suitably qualified environmental scientists who undertook the following:

- Marking out the test locations:
- Logging of the subsurface profile, and
- Collection of samples to assist in strata identification and for laboratory testing purposes

A calibrated photo-ionisation detector (PID) was used during the fieldwork to screen the collected soil samples to assess whether volatile organic compounds were present. The approximate test locations are shown on Drawing 1 in Appendix B. Sampling depths are shown on the test pit logs in Appendix F.

## 10.4 Soil Sampling Procedure

All sample locations were checked for underground services by a review of dial before you dig (DBYD) plans and by a services locator.

All sampling data was recorded on DP test pit logs with essential information included on the chain-ofcustody sheets. The general sampling procedure adopted for the collection of environmental samples is summarised below:

- The use of disposable gloves for each sampling event;
- Transfer of samples into laboratory-prepared glass jars, and capping immediately.
- Collection of replicate soil samples in zip-lock plastic bags at each depth for PID screening;
- Collection of replicate samples for QA/QC purposes,
- Labelling of sample containers with individual and unique identification, including project number sample location and sample depth;
- Placement of the sample jars and replicate sample bags into a cooled, insulated and sealed container for transport to the laboratory;
- Selected soil samples within the filling were subjected to field screening for asbestos following the procedure described within the WA DOH guidelines, and

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales



Page 18 of 33

 Use of chain of custody (COC) documentation so that sample tracking and custody could be cross-checked at any point in the transfer of samples from the field to the laboratory.

Samples for environmental purposes were generally collected from the near surface, and at regular depth intervals or changes in strata within each test pit.

Soil samples were collected from the centre of the excavator bucket. Care was taken whilst collecting the samples to remove any extraneous material on the outside of the bucket.

Envirolab Services Pty Ltd (Envirolab) (NATA accreditation number, 2901) was used for the analysis of soil samples. The laboratory is required to carry out routine in-house QC procedures.

Field replicates were recovered and analysed by intra-laboratory analysis for a limited suite of contaminants with reference to standard industry practice and guidelines. The comparative results are outlined in Appendix G together with other QA/QC evaluations of the assessment, COC documentation (Field and Laboratory) and sample receipt information.

#### 10.5 Analytical Rationale

The analytical scheme was designed to obtain an indication of the presence of a broad range of contaminants of potential concern (COPC) that may be attributable to past and present activities and features that may reasonably be expected to have occurred within the site as identified in the CSM (see Section 9)

Selected primary soil samples were analysed for the various COPC namely metals (As, Cd, Cr, Cu, Pb, Hg, Mn, Ni, Zn), TRH, BTEX, PAH, PCB, OCP, OPP, phenois and asbestos.

Laboratory analytical methods are as stated in the certificate of analysis in Appendix H

## 11. Quality Assurance and Quality Control

Quality assurance (QA) and quality control (QC) measures were implemented throughout the investigation. This was achieved by defining the data quality objectives (DQOs, Table 7) for the project based on the CSM prior to the commencement of field investigations. All QA/QC information was then evaluated against the DQOs and is summarised in Appendix G.

#### 12. Site Assessment Criteria

The site is proposed to be subdivided and developed into commercial/industrial land use and recreational use in the form of playing fields. The site has therefore been assessed against criteria for public open space and commercial/industrial land use settings.

The Site Assessment Criteria (SAC) applied in the current investigation are informed by the CSM (refer to Section 9) which identified human and environmental receptors to potential contamination on the site. Analytical results were assessed (as a Tier 1 assessment) against the SAC comprising the

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales

46162.12 R.001 Rev1 August 2018



Page 19 of 32

investigation and screening levels of Schedule B1, National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013 (NEPC, 2013) (Ref 4). The NEPC guidelines are endorsed by the NSW EPA.

The investigation and screening levels are applicable to generic land use settings and include consideration of, where relevant, the soil type and the depth of contamination. The investigation and screening levels are not intended to be used as clean up levels. Rather, they establish concentrations above which further appropriate investigation (e.g. Tier 2 assessment) should be undertaken. They are intentionally conservative and are based on a reasonable worst-case scenario.

## 12.1 Health Investigation and Screening Levels

The Health Investigation Levels (HIL) and Health Screening Levels (HSL) are scientifically-based, generic assessment criteria designed to be used in the first stage (Tier 1) of an assessment of potential human health risk from chronic exposure to contaminants.

HILs are applicable to assessing health risk arising via all relevant pathways of exposure for a range of metals and organic substances. The HIL are generic to all soil types and apply generally to a depth of 3 m below the surface for recreational/open space land use. A depth of 1 m below the surface has been adopted for this investigation for a recreational land use.

HSLs are applicable to selected petroleum compounds and fractions to assess the risk to human health via inhalation. HSL have been developed for different land uses, soil types and depths to contamination.

The generic HIL and HSL are considered to be appropriate for the assessment of contamination at the site. Given the proposed land use, the adopted HIL and HSL are:

- HIL-C/HSL-C Recreational includes public open space such as parks, playgrounds, playing field (e.g. ovals), secondary schools and unpaved footpaths, and
- HIL-D/HSL-D Commercial/Industrial land use.

in addition, the HSL adopted are predicated on the inputs summarised in Table 8.

Table 8: Inputs to the Derivation of HSLs

Variable	Input	Rationale		
Potential exposure pathway	Soil vapour intrusion (inhalation)	Potential exposure pathways include vapour intrusion through concrete slabs from potentially contaminated filling beneath the slab. There is also the risk of soil vapours during any excavation of potentially contaminated filling		
Soil Type	Silt A mixture of gravel, sand, silt and of encountered during the intrusive inversity (Section 13). Silt has been adopted as a conservative screen.			
Depth to contamination	0 m to <2 m	A conservative approach has been adopted for this DSI. A depth of 1 m bgl has been adopted in the		

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Flace, Trales



Page 20 of 32

Variable	Input	Rationale
		areas where filling was encountered.

The adopted soil HIL and HSL for the potential contaminants of concern are presented in Table 9

Table 9: Health Investigation and Screening Levels (HIL and HSL) in mg/kg unless otherwise indicated

Contaminants		HIL-C	HSL-C 0 m to <1m	HIL-D	HSL-D 0 m to <1m
Cadmium	90	NC	900	NC	
Chromium (VI)	300	NC.	3,600	NC	
Copper	17,000	NC	240,000	NC	
Lead	600	NC	1,500	NC	
Mercury (inorganic)	80	NC	730	NC	
Nickel	1,200	NC	6,000	NC	
Zinc	30,000	NC	400,000	NG	
PAH	Benzo(a)pyrene TEQ <sup>1</sup>	3	NC	40	NC
	Naphthalene	NC	NL	NC	NL
	Total PAH	300	NC	4,000	NC
TRH	C6 - C10 (less BTEX) [F1]	NC	NL	NC	260
	>C10-C16 (less Naphthalene) [F2]	NC	NL	NC-	NL
	>C16-C34 [F3]	NC	NC	NC	NC
	>C34-C40 [F4]	NC	NC	NC	NC
втех	Benzene	NC	NL	NG	3
	Toluene	NG	NL	NC.	NL
	Ethylbenzene	NC	NL	NG	NL
	Xylenes	NC	NL	NC	230
Phenol	Phenol	40,000	NC	240,000	NC
OCP	Aldrin + Dieldrin	10	NC	45	NC
	Chlordane	70	NC	530	NC
	DDT+DDE+DDD	400	NC	3,600	NC
	Endosulfan	340	NC	2,000	NC

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine



Page 21 of 32

	Lorens Avens	HIL-C	HIL-C HSL-C		HSL-D 0 m to <1m
Contaminants		1,000	0 m to <1m		
	Endrin	20	NC	100	NC
	Heptachlor	10	NC	50	NG
	HCB	10	NC	80	NC
	Methoxychlor	400	NC	2,500	NC
OPP	Chlorpyrifos	250	NC	2,000	NC
PCB <sup>2</sup>		1	NG	7	NG

#### Notes.

- I sum of carcinogenic PAH
- 2 non dioxin-like PCBs only.
- I NG No Criteria
- 4 NL Not Limiting

## 12.2 Ecological Investigation Levels

Ecological Investigation Levels (EIL) have been derived for selected metals and organic compounds and are applicable for assessing risk to terrestrial ecosystems (NEPC, 2013). EIL depend on specific soil physiochemical properties and land use scenarios and generally apply to the top 2 m of soil, which corresponds to the root zone and habitation zone of many species. The EIL is determined for a contaminant based on the sum of the ambient background concentration (ABC) and an added contaminant limit (AGL). The ABC of a contaminant is the soil concentration in a specific locality that is the sum of naturally occurring background levels and the contaminants levels that have been introduced from diffuse or non-point sources (e.g. motor vehicle emissions). The ACL is the added concentration (above the ABC) of a contaminant above which further appropriate investigation and evaluation of the impact on ecological values is required.

The EIL is calculated using the following formula:

The ABC is determined through direct measurement at an appropriate reference site or through the use of methods defined by Olszowy et al. Trace element concentrations in soils from rural and urban areas of Australia, Contaminated Sites monograph no. 4, South Australian Health Commission, Adelaide, Australia 1995 (Olszowy, 1995) or Hamon et al., Geochemical indices allow estimation of heavy metal background concentrations in soils, Global Biogeochemical Cycles, vol. 18, GB1014, (Hamon, 2004). ACL is based on the soil characteristics of pH, CEC and clay content.

EIL (and ACLs where appropriate) have been derived in NEPC (2013) for only a short list of contaminants comprising As, Cu, Cr (III), DDT, naphthalene, Ni, Pb and Zn. An Interactive (Excel) Calculation Spreadsheet may be used for calculating site-specific EIL for these contaminants, and has been provided in the ASC NEPM Toolbox available on the SCEW (Standing Council on Environment and Water) website (http://www.scew.gov.au/node/941).

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales



Page 22 of 3

The adopted EIL, derived from the Interactive (Excel) Calculation Spreadsheet are shown in the following Table 10. The following site specific data and assumptions have been used to determine the EILs.

- A protection level of 80% for urban residential and public open space land uses has been adopted;
- The EILs will apply to the top 2 m of the soil profile;
- Given the likely source of soil contaminants (i.e. historical filling, golf course maintenance) the contamination is considered as "aged" (>2 years);
- ABCs have been derived using the Interactive (Excel) Calculation Spreadsheet using input parameters of NSW for the State in which the site is closest to, and high for traffic volumes. No background concentration is assumed for lead (conservative).
- Based on average pH. CEC and clay content values for soils collected across the site, the following values have been used for the soil profile: pH = 8.7, CEC = 21.4 cmol/kg and clay content = 19%. The Calculation Spreadsheets are included in Appendix I.

Table 10: Ecological Investigation Levels (EIL) in mg/kg

Analyte		EIL	Comments
Metals	Arsenic	100	Adopted pH of 8 7, CEC of
	Copper	230	21.4 cmol <sub>c</sub> /kg and clay content 19%
	Nickel	280	
	Chromium III	410	
	Lead	1100	
	Zinc	810	
PAH	Naphthalene	170	
OCP	DDT	180	

## 12.3 Ecological Screening Levels - Petroleum Hydrocarbons

Ecological Screening Levels (ESL) are used to assess the risk of selected petroleum hydrocarbon compounds, BTEX and benzo(a)pyrene to terrestrial ecosystems. ESL apply to the top 2 m of the soil profile as for EIL

ESL have been derived in NEPC (2013) for petroleum fractions F1 to F4 as well as BTEX and Benzo(a)pyrene. Site specific data and assumptions as summarised in Table 11 have been used to determine the ESL. The adopted ESL, from Table 1B(6), Schedule B1 of NEPC (2013) are shown in Table 12.

Table 11: Inputs to the derivation of ESL

Variable	Input	Rationale
Depth of ESL application	Top 2 m of the soil profile	The top 2 m depth below ground level corresponds to the root zone and habitation zone of many species

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales

46162.12.R.001.Rev1 August 2018



Page 23 of 32

Land use	Public open space	It has been assumed for this site contamination assessment that the activities on site will be public open space land uses.
Soil Texture	Fine	The approach adopted for this investigation is based on the sand, silt and clay soils encountered during the investigation

Table 12: Ecological Screening Levels (ESL) in mg/kg

	Analyte		Comments
TRH	C6 - C10 (less BTEX) [F1]	180*	*All ESLs are low
	>C10-C16 (less Naphthalene) [F2]	120*	reliability apart from
	>C16-C34 [F3]	1,300	<ul> <li>those marked with *</li> <li>which are moderate</li> </ul>
	>C34-C40 [F4]	5,600	reliability
BTEX	Benzene	65	
	Toluene	105	
	Ethylbenzene	125	
	Xylenes	45	
PAH	Benzo(a)pyrene	0.7	

## 12.4 Management Limits - Petroleum Hydrocarbons

In addition to appropriate consideration and application of the HSL and ESL, there are additional considerations which reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable light non-aqueous phase liquids (LNAPL).
- Fire and explosion hazards;
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services.

Management Limits to avoid or minimise these potential effects have been adopted in NEPC (2013) as interim Tier 1 guidance. Management Limits have been derived in NEPC (2013) for the same four petroleum fractions as the HSL (F1 to F4). The adopted Management Limits, from Table 1B(7), Schedule B1 of NEPC (2013) are shown in the following Table 13. The following site specific data and assumptions have been used to determine the Management Limits.

- The Management Limits will apply to any depth within the soil profile.
- The Management Limits for residential, parkland and public open space apply.
- A mixture of sand, silt and clay was encountered during the DSI (Section 13). Silt (fine) has been adopted as an initial conservative screen.

Table 13: Management Limits in mg/kg

Analyte		Management Limit	
TRH	Ce - Cie (F1) "	800	
	>C10-C16 (F2) *	1,000	

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales

48162.12.R.001.Rev1 August 2018



Page 24 of 33

Analyte	Management Limit
>C <sub>16</sub> -C <sub>34</sub> (F3)	3,500
>C <sub>24</sub> -C <sub>40</sub> (F4)	10,000

<sup>5</sup> Separate management limits for BTEX and naphthalene are not available hence these have not been subtracted from the relevant fractions to obtain F1 and F2.

### 12.5 Asbestos in Soil

Bonded asbestos-containing material (ACM) is the most common form of asbestos contamination across Australia, generally arising from.

- Inadequate removal and disposal practices during demolition of buildings containing asbestos products.
- Widespread dumping of asbestos products and asbestos containing filling on vacant land and development sites; and.
- Commonly occurring in historical filling containing unsorted demolition materials.

Mining, manufacturing or distribution of asbestos products may result in sites being contaminated by friable asbestos including free fibres. Severe weathering or damage to bonded ACM may also result in the formation of friable asbestos comprising fibrous asbestos (FA) and/or asbestos fines (AF)

Asbestos only poses a risk to human health when asbestos fibres are made airborne and inhaled. If asbestos is bound in a matrix such as cement or resin, it is not readily made airborne except through substantial physical damage. Bonded ACM in sound condition represents a low human health risk, whilst both FA and AF materials have the potential to generate, or be associated with, free asbestos fibres. Consequently, FA and AF must be carefully managed to prevent the release of asbestos fibres into the air.

On the basis that several land uses will be present within the final development, and in accordance with Table 1, Schedule B1, NEPC (Ref 4), asbestos HSL for applicable land use settings have been included to assess the contamination risk posed by asbestos.

Table 14: Health Screening Levels for Asbestos Contamination in Soil (% w/w)

Form of	HSL-C	HSL-D	
Asbestos	Public Open Space	Commercial / Industrial	
Bonded ACM	0.02 %	0.05 %	
FA and AF	0.001 %	0.001 %	
All Forms of Asbestos	No visible asbestos for surface soil		

Detailed Site Investigation for Contamination, Proposed Subdivision - 360A Alderson Place, Trales



Page 25 of 32

## 13. Results of the Investigation

### 13.1 Subsurface Conditions

Details of the subsurface conditions encountered during the field work are included on the logs, refer Appendix F, which must be read in conjunction with the included explanatory notes that define classification methods and terms used to describe the soils and rocks. In summary, the pils encountered variable subsurface conditions underlying the site with the succession of strata broadly summarised as follows for each of the main site areas:

### 13.1.1 Race Track Embankment

- FILLING: generally moist to dry silty sand, clayey sand and silty clay encountered in all pits within
  the race track embankment to a maximum depth of 3.2 m. It should be noted, pits situated on top
  of the embankment were not able to fully penetrate the depth of the embankment due to height of
  the embankment and restrictions on the reach of the excavator. Minor anthropogenic material
  including metal and plastic was encountered in Pits 2, 6, 31 and 32, and
- SANDY CLAY/SANDY SILT moist to dry, orange brown to brown sandy clay and sandy silt in pits 11 to 15, 31 to 33 to depths of 1.6 m to 3.2 m bgl which were terminated in this strata.

### 13.1.2 Former Race Track Area

- FILLING: generally moist to dry, brown to orange brown gravelly sand, sandy silt, silty clay or sand clay, cemented in places, with well graded gravel, encountered in Pits 16 to 21 to depth of between 0.4 m to 1.3 m bgl, and
- SANDY CLAY/SILTY CLAY moist to dry, brown to orange brown and mottle grey with varying sand and silt content with trace gravel, encountered in Pits 16 to 21 to depths of 1.6 m to 2.7 m bot.

## 13.1.3 Former Race Track Pits Area

- ASPHALT: black asphalt cement with a maximum thickness of 0.01 m encountered in Pits 25 and 28.
- TOPSOIL FILLING: moist to dry brown, sandy silt and silty sand encountered in Pits 21, 23, 24, 26, 27 to depths of between 0.02 in and 0.15 in bgl;
- FILLING: generally moist to dry, brown to orange brown sandy clay, silty sand or gravelly sand, and encountered in Pits 22 to 30 to depths of between 0.2 m to 1.6 m bgl. Minor anthropogenic content including bitumen, metal, concrete and plastic were observed; and
- SILTY CLAY/SANDY CLAY: moist to dry, brown to orange brown and mottled grey with varying sand and silt content with trace gravel, encountered in Pits 22 to 30 to depths of between 1.2 m and 2.5 m bgl.

### 13.1.4 Former Landfill Area

 FILLING: generally moist to dry, brown to dark brown silty sand or sandy silts, encountered in Pits 50 to 53, 56 and 56 to depths of between 0.9 m to 2.1 m bgl. Waste material content including

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trales



Page 26 of 32

food packaging, glass, metal, cloth, drink cans, bitumen, metal, concrete, tyres, car parts, oil barrel and plastic were observed. Corrugated compressed cement sheet fragments were observed in Pit 57, and

 SILTY CLAY/SANDY CLAY: moist to dry, brown to orange brown and mottle grey with varying sand and silt content with trace gravel, encountered in Pits 51 to 60 to depths of between 1.0 m and 2.3 m bgl.

### 13.1.5 General Areas of the Site

- FILLING: generally moist to brown to orange brown silty and sandy clay, silty sand or sandy silt, encountered in Pits 41 to 48, 63, 65, 70 and 76 to 80 to depths of between 0.1 m to 2.1 m bgl. Minor anthropogenic content including bitumen, metal, concrete and brick was observed in Pits 44, 46, 47 and 80.
- TOPSOIL: moist brown sitty clay with some rootlets encountered in Pits 34 to 40, 60 to 62, 64, 66 to 69 and 71 to 73 to depths of between 0.02 m to 0.2 m bgl.
- SILTY SAND/CLAYEY SAND light brown/grey to orange brown silty clay or sandy clay
  encountered in Pits 34 to 40, 61, 70 and 71 to depths of between 1.5 m and 2,5 m bgl, and
- SILTY CLAY/SANDY CLAY, light brown/grey to orange brown silty clay or sandy clay encountered in Pits 41 to 49, 62 to 69 and 72 to 80.

## 13.2 Field Screening Observations

The results of the PID screening are included on the test pit logs (Appendix F). The screening tests indicated that the subsurface conditions were generally absent of volatile organic compounds with recorded values generally test than 5 ppmV.

## 13.3 Contamination Observations

## 13.3.1 Field Sieve Screening for Asbestos

Samples (10 L) for on-site sleving for the assessment of asbestos were collected from pits where filling was present. The results of the on-site sleving analysis reported fragments of potential ACM in good condition were identified the following pits:

- Pit 57 1.0 m to 1.1 m bgl two fragments of ACM in good condition were identified. The fragments were approximately 70 mm to 80 mm in length and weighed 42.3 g; and
- Pit 57 2.0 m to 2.1 m bgl three fragments of ACM were identified. The fragments were in good condition and ranged in size from approximately 40 mm to 200 mm in length and weighed 223 50 g.

The fragments were collected and submitted for laboratory analysis for asbestos:

The results of the field sieve screening are presented in Table J1 in Appendix J.

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Flace, Trains



Page 27 of 32

## 13.4 Analytical Results

A summary of the results of the laboratory analysis undertaken on the soil and surface water samples are presented in Tables J2 to J5 in Appendix J along with the laboratory certificates.

### 13.5 Assessment of Laboratory Results

### 13.5.1 Motor Vehicle Speedway Area

All soil results for TRH, BTEX, PAH, OPP, OPP and PCB were below the laboratory's practical quantitation limit (PQL) and therefore below the site assessment ontena (SAC).

Soil results for metals were generally above the laboratory PQL with the exception of arsenic, cadmium and mercury which were below the laboratory PQL. All soil results for metals were below the SAC.

Soil results for asbestos reported that the laboratory analysis did not record the present of asbestos, including FA/AF

### 13.5.2 Former Landfill Area

All soil results for TRH, BTEX, PAH, OPP, OPP and PCB were below the laboratory's practical quantitation limit (PQL) and therefore below the site assessment criteria (SAC)

Soil results for metals were generally above the laboratory PQL with the exception of arsenic, cadmium and mercury which were below the laboratory PQL. All soil results for metals were below the SAC.

Soil results for asbestos reported that the laboratory analysis of the fragments of potential ACM collected from Pit 57 at 1.0 m to 1.1 m and 2.0 m to 2.1 m bgl contained amosite, chrysotile and crocidolite asbestos fibres. The concentration of asbestos in soil for these two samples was 0.046 % and 0.224 %, respectively. The concentration of asbestos in the sample from Pit 57.2.0 m to 2.1 m bgl was above the investigation level for commercial/industrial land use and the concentration of asbestos in both samples was above the investigation level for parks and public open spaces.

### 13.5.3 Former Toilet Block Areas

All soil results for E. Coli, Salmonella and faecal coliforms were below the laboratory PQL

## 13.5.4 Agricultural Areas

All soil results for TRH, BTEX, PAH, OPP, OPP and PCB were below the laboratory's PQL and lherefore below the site assessment criteria (SAC).

Soil results for metals were generally above the laboratory PQL with the exception of arsenic, cadmium and mercury which were below the laboratory PQL. All soil results for metals were below the SAC.

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Flace, Trales



Page 28 of 33

Soil results for asbestos reported that the laboratory analysis did not record the present of asbestos, including FA/AF.

# 14. Revised Conceptual Site Model

The preliminary CSM in Section 9 has been updated to incorporate the findings of this PSI. The updated CSM is presented in Table 15 below

Table 15: Revised Summary of Potentially Complete Pathways

Source	Receptor	Transport Pathway	Comments
	R2	P1_P3 and P4	The results of the sampling of the fill embankment
	R3	P1, P2, P3 and P3	encountered filling comprising silty sand, clayey sand and silty clay with only trace inert anthropogenic
	R5	P6 and P7	Inclusions noted.
	R6	P5 and P7	The laboratory analytical results indicate that gross contamination of the filling was not present within the
S1 — Fill Embankment	R7	PS	areas of the site where samples were obtained.  However, it should be noted that there is the potential for anthropogenic material to be present in areas of the embankment that were not sampled. Therefore it is considered that this pathway remains potentially complete
S2 – Use of	R2	P1_P3 and P4	The results of the limited sampling did not identify the presence of gross hydrocarbon contamination associated with the use of hydrocarbon fuels in the strack and pits areas.  Therefore if is considered that this pathway is not
hydrocarbon fuel in race track area	R3	P1, P2, P3 and P3	
a mad rows	R5	P6 and P7	
S3 - Spills and leaks of	R6	P5 and P7	
fuels in pits area	R7	P8	complete.
	R2	P3	Hazardous building materials (ACM) were identified in
S4 — Hazardous building materials	R3	P3	buildings associated with the Speedway race track and it is considered that the pathway remains potentially complete. DP recommends that a hazardous materials survey be undertaken prior to demolition of the buildings. Results of the intrusive sampling in the vicinity of the buildings did not identify hazardous building materials.
			present in the filling. However, it was not possible to obtain samples directly beneath the building slab footprint.
S5 - Toilet	R2	P1	The results of the limited sampling did not identify the
blocks and	R3	P1	presence of gross biological contamination associated

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine

46162.12.R.001.Rev1 August 2018



Page 29 of 32

Source	Receptor	Transport Pathway	Comments
soakaways	R5	P6 and P7	with the former toilet blocks and soakaway areas.
	R7	P8	Therefore it is considered that this pathway is incomplete.
	R2	P1, P3 and P4	The former landfill area was confirmed to contain waste
	R3	P1, P2, P3 and P3	material during the intrusive investigation. Furthermore, ACM was confirmed to be present in Pit 57 at a
	R5	P6 and P7	concentration above the adopted investigation levels
S6 – Former landfill area	R6	P5 and P7	Results of laboratory analysis of soil samples did not indicate chemical contaminants of concern above the
	R7	P8	adopted investigation levels.  Due to the presence of asbestos and other waste materials, it is considered that this pathway remains potentially complete.
	R2	P1, P3 and P4	The state of the s
S7 – Potential	R3	P1. P2. P3 and P3	The results of the sampling did not identify the presence of gross contamination associated with the potential
sand and /or gravel	R5	P6 and P7	sand and/or gravel extraction that may have occurred in the north-east corner of the site. It is considered that this
extraction	R6	P5 and P7	pollutant pathway is not complete
	R7	P8	
	R2	P1, P3	The results of the consists did not identify the
S8-	R3	P1 P3	<ul> <li>The results of the sampling did not identify the presence of gross contamination associated with the potential</li> </ul>
Potential historical use	R5	P6 and P7	historical application pesticides that may have occurred
of pesticides	R6	P5 and P7	at the site. It is considered that this pollutant pathway is not complete.
	R7	PB	This walliamed.

## 15. Conclusions and Recommendations

The AECs were identified on the basis of the available site information, site inspection and limited subsurface investigation. Based on the findings of the assessment, including limited sampling and testing to date, the potential for gross contamination to be present within the site is considered to be low, with localised areas of more elevated contamination potential.

If is recommended that prior to the commencement of construction activities, further intrusive-based investigation be carried out to further characterise each of the identified AECs. The recommendations for further works are summarised in Table 16 below. The further works aim to confirm the suitability of the site for the proposed end-uses (commercial/industrial and recreational).

Detailed Site Investigation for Contamination, Proposed Subdivision - 360A Alderson Place, Traine



Page 30 of 32

Table 16: Recommendations for Further Works

AEC	Description	Recommendations for further work
AEC 1	Fill Embankment	The results of the sampling of the fill embankment indicate that gross contamination was not present within the filling.  DP understands the filling may be re-used on site. DP considers the filling may be suitable for on-site reuse subject to further investigation and the implementation of an unexpected finds protocol.
AEC 2	Use of hydrocarbon fuel in race track area.	No further investigation required but it would be prudent to include this
AEC 3	Spills and leaks of fuels in pits area	area in the unexpected finds protocol
AEC 4	Hazardous building materials	A pre-demolition hazardous materials survey is recommended for buildings and former buildings in the race track area and should be undertaken by a licensed asbestos assessor.  Identified hazardous building materials should be removed by a licensed asbestos removalist and validation of the removal should be completed by a licensed asbestos assessor.
AEC 5	Toilet blocks and soakaways	No further investigation required except for a trazardous building materials survey.
AEC 6	Former landfill area	The results of the sampling of the former landfill identified the presence of anthropogenic waste, including asbestos containing material.  DP recommends the area is excavated and stockpiled on site prior to undertaking a waste classification assessment in order to dispose the material off-site to a suitably licensed waste disposal facility.
AEC 7	Potential sand and /or gravel extraction	No further investigation required
AEC 8	Potential former Pesticide use	No further investigation required.

Based on the assessment undertaken to date, it is considered that the site is likely to be suitable for the proposed development, following further investigation and remediation detailed in Table 16 above

In addition, DP recommends that a construction environmental management plan (CEMP), incorporating an unexpected finds protocol be implement during the development works at the site.

### 16. References

 National Environment Protection Council (NEPC) (1999), National Environment Protection (Assessment of Site Contamination) Measure, Schedule A and Schedule B1 to B9, (1999 – amended 2013).

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Traine



Page 21 of 32

- NSW Office of Environment and Heritage (OEH) (2011) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites.
- 3 NSW Department of Land and Water Conservation (2000): Canberra Soil Landscape Series Sheet 8727 1:100 000 scale map
- Bureau of Mineral Resources (1992). Geology of Canberra Geological Series Sheet 8727, 1.100 000 scale map.
- Bureau of Mineral Resources, Geology and Geophysics (1984). Hydrogeology of the Australian Capital Territory and Environs 1:100,000 scale map.

## 17. Limitations

Douglas Partners (DP) has prepared this report for this project at 360A Alderson Place, North Tralee in accordance with DP's proposal CAN180102 dated 7 May 2018 and acceptance received from Jason Burgess of Canberra Estates Consortium No 4 Pty Ltd dated 6 June 2018. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of Canberra Estates Consortium No 4 Pty Ltd for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

Asbestos has been detected by observation and laboratory analysis in filling materials within the investigation area (Former landfill area). Building demolition materials, such as concrete, brick title, also observed which are considered as indicative of the possible presence of hazardous building materials (HBM), including asbestos. Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the site that have not been sampled and analysed. This is either due to undetected variations in ground conditions or to budget constraints (as discussed above), or to vegetation preventing visual inspection and reasonable access. It is therefore considered possible that HBM, including asbestos, may be present in unobserved or untested parts of the site, between and beyond sampling locations, and hence no warranty can be given that asbestos is not present.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations

Detailed Site Investigation for Contamination, Proposed Subdivision 360A Alderson Place, Trains



Page 32 of 32

or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

The contents of this report do not constitute formal design components such as are required, by the Health and Safety Legislation and Regulations, to be included in a Safety Report specifying the hazards likely to be encountered during construction and the controls required to mitigate risk. This design process requires risk assessment to be undertaken, with such assessment being dependent upon factors relating to likelihood of occurrence and consequences of damage to property and to life. This, in turn, requires project data and analysis presently beyond the knowledge and project role respectively of DP. DP may be able, however, to assist the client in carrying out a risk assessment of potential hazards contained in the Comments section of this report, as an extension to the current scope of works, if so requested, and provided that suitable additional information is made available to DP. Any such risk assessment would, however, be necessarily restricted to the environmental components set out in this report and to their application by the project designers to project design, construction, maintenance and demolition.

**Douglas Partners Pty Ltd** 

Detailed Site Investigation for Contamination, Proposed Subdivision - 360A Alderson Place, Trains

# About this Report



### Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

### Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

### Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

### Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

 In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water lable may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes.
   They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

### Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions.
   The potential for this will depend partly on borehole or pit spacing and sampling frequency:
- Changes in policy or interpretations of policy by statutory authorities or
- The actions of contractors responding to commercial pressures

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

July 2010

# About this Report

### Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

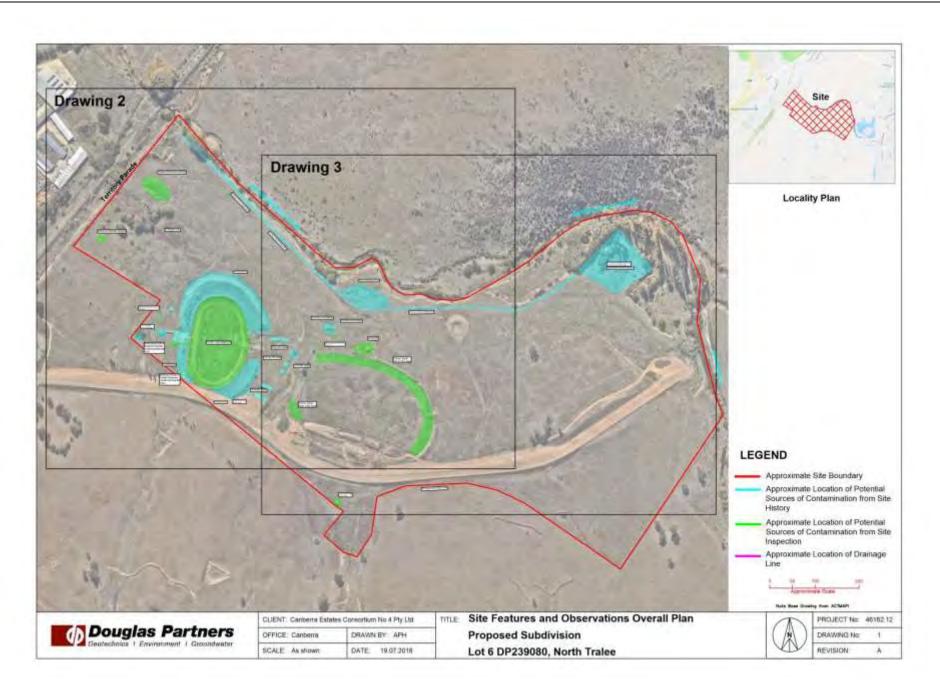
### Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

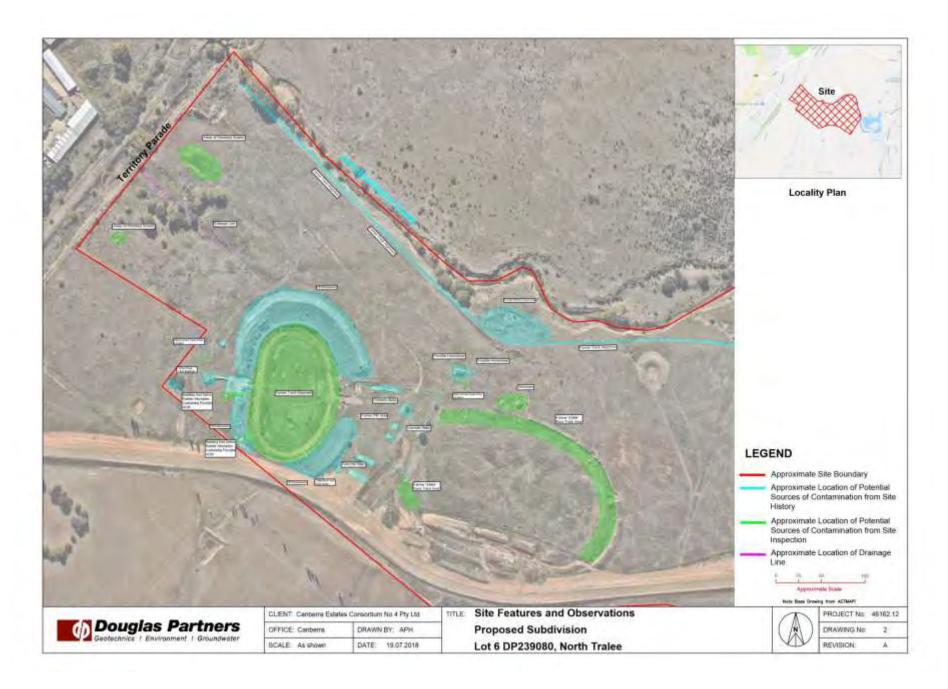
### Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

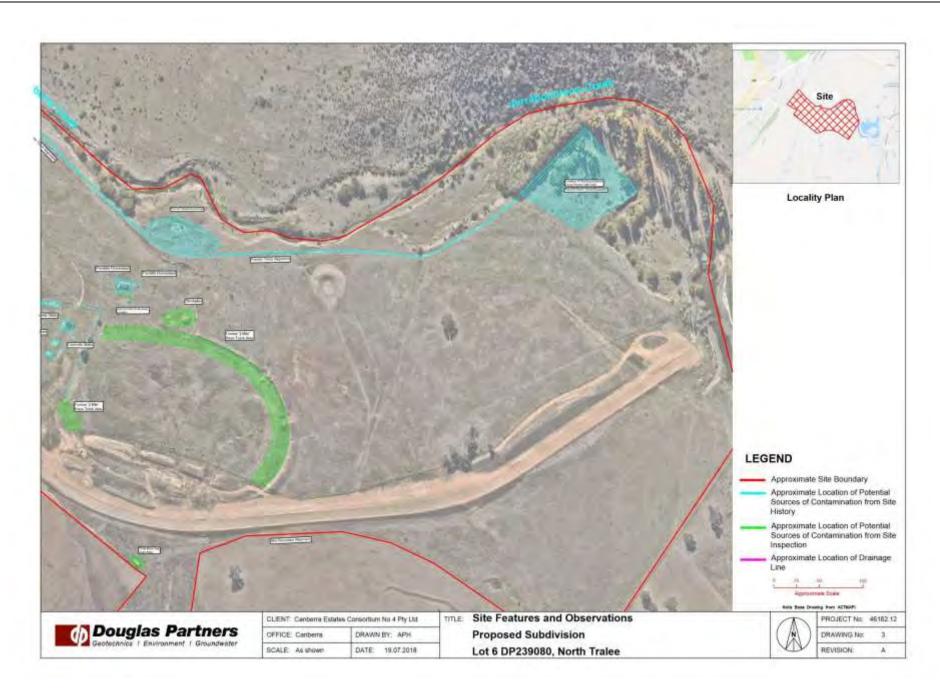
July 2010



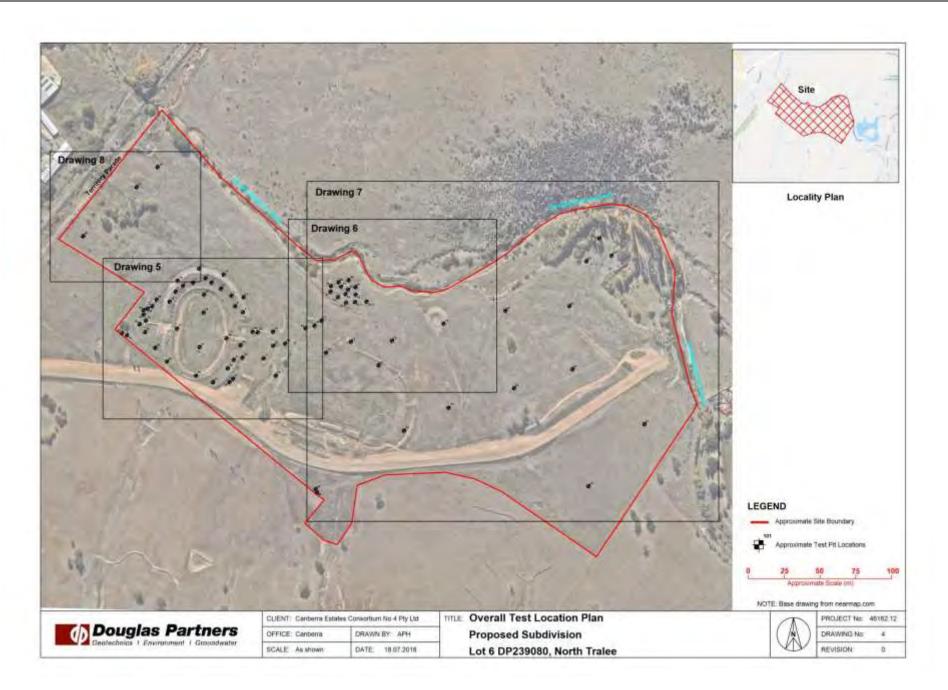
Page 118 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



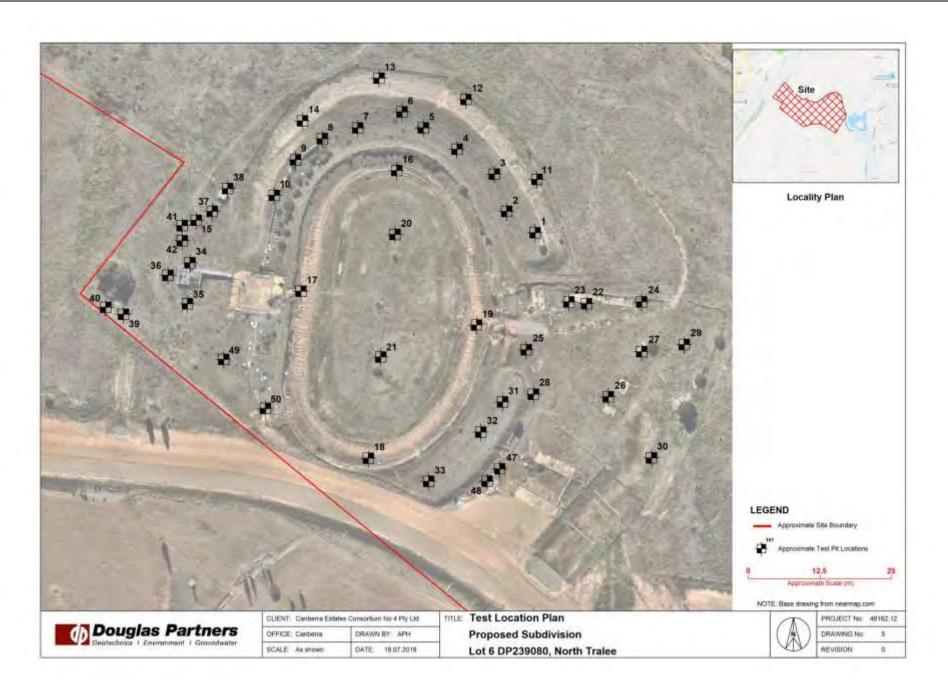
Page 119 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



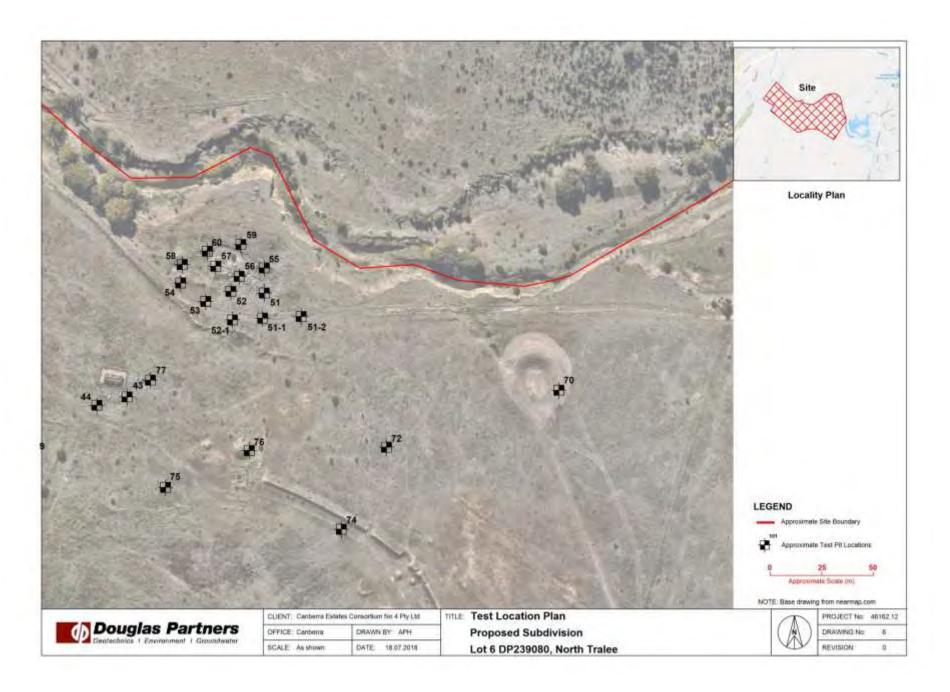
Page 120 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



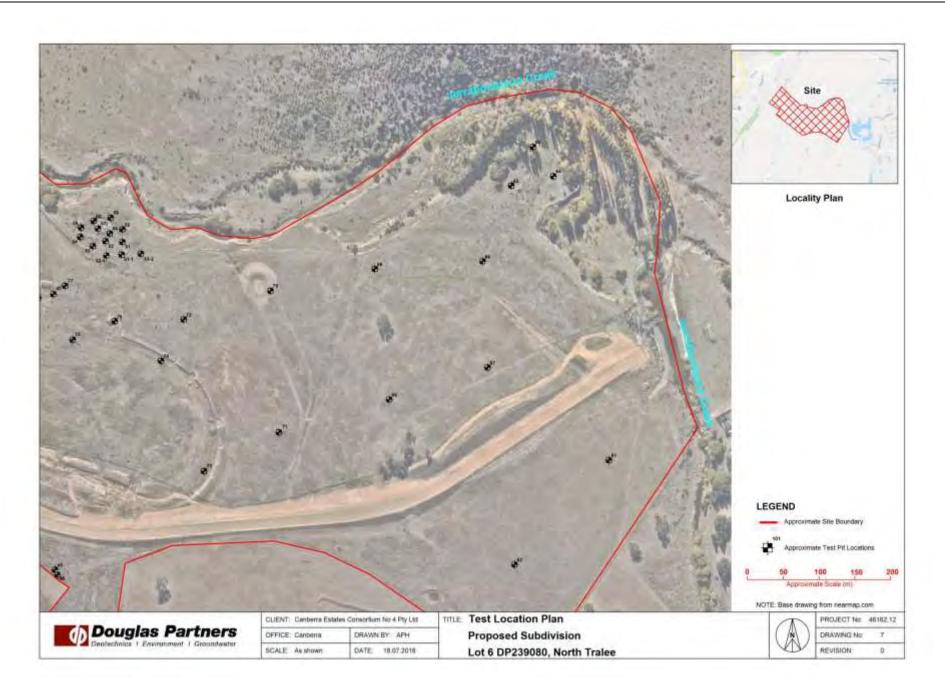
Page 121 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



Page 122 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



Page 123 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



Page 124 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



Page 125 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.

# List of NSW Contaminated Sites Notified to EPA as of 16 April 2018

# Background

A strategy to systematically assess, prioritise and respond to notifications under Section 60 of the Contaminated Land Management Act 1997 (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under Government Information (Public Access) Act 2009.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

For some notifications, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any offsite consequences to the community or environment. Such sites would still need to be cleaned up, but this could be done in conjunction with any subsequent building or redevelopment of the land. These sites may not require intervention under the CLM Act, but could be dealt with through the planning and development consent process.

Where indications are that the nominated site is causing actual harm to the environment or an unacceptable offsite impact (i.e. it is a "significantly contaminated site"), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site.

As such, the sites notified to the EPA and presented in the following table are at various stages of the assessment and/or remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The tables provide an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the responsible landowner.

The following questions and answers may assist those interested in this issue:

## Frequently asked questions

What is the difference between the "List of NSW Contaminated Sites Notified to the EPA" and the "Contaminated Land: Record of Notices"?

A site will be on the <u>Contaminated Land</u>: <u>Record of Notices</u> only if the EPA has issued a regulatory notice in relation to the site under the <u>Contaminated Land Management Act 1997</u>.

The sites appearing on this "List of NSW contaminated sites notified to the EPA" indicate that the notifiers consider that the sites are contaminated and warrant reporting to the EPA. However, the contamination may or may not be significant enough to warrant regulation by the EPA. The EPA needs to review and, if necessary, obtain more information before it can make a determination as to whether the site warrants regulation.

### Why my site appears on the list?

Your site appears on the list because of one or more of the following reasons:

List current as of 16 April 2018

Page 1 of 75

- The site owner and/or the person partly or fully responsible for causing the contamination notified to the EPA about the contamination under Section 60 of the Contaminated Land Management Act 1997. In other words, the site owner or the "polluter" believes the site is contaminated.
- The EPA has been notified via other means and is satisfied that the site is or was contaminated.

### Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that the EPA is aware of, with regard to its regulatory role under the CLM Act. An absence of a site from the list does not necessarily imply the site is not contaminated.

The EPA relies upon responsible parties to notify contaminated sites.

### How are these notified contaminated sites managed by the EPA?

There are different ways that the EPA manages these notified contaminated sites. First, an initial assessment is carried out by the EPA. At the completion of the initial assessment, the EPA may take one or more than one of the following management approaches:

- The contamination warrants the EPA's direct regulatory intervention either under the Contaminated Land Management Act 1997 or the Protection of the Environment Operations Act 1997 (POEO Act), or both. Information about current or past regulatory action on this site can be found on EPA website.
- The contamination with respect to the current use or approved use of the site, as defined under the Contaminated Land Management Act 1997, is not significant enough that it warrants EPA regulation.
- The contamination does not require EPA regulation and can be managed by a planning approval process.
- The contamination is related to an operational Underground Petroleum Storage System, such as a service station or fuel depot. The contamination may be managed under the POEO Act and the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.
- The contamination is being managed under a specifically tailored program operated by another agency (for example t
- · he Department of Industry and Investment's Derelict Mines Program).

### I am the owner of a site that appears on the list. What should I do?

First of all, you should ensure the current use of the site is compatible with the site contamination. Secondly, if the site is the subject of EPA regulation, make sure you comply with the regulatory requirements, and you have considered your obligations to notify other parties who may be affected.

If you have any concerns, contact us and we may be able to offer you general advice, or direct you to accredited professionals who can assist with specific issues.

### I am a prospective buyer of a site that appears on the list. What should I do?

You should seek advice from the vendor to put the contamination issue into perspective. You may need to seek independent expert advice.

The information provided in the list is meant to be indicative only, and a starting point for your own assessment. Site contamination as a legacy of past site uses is not uncommon,

List current as of 16 April 2018

Page 2 of 75

particularly in an urbanised environment. If the contamination on a site is properly remediated or managed, it may not materially impact upon the intended future use of the site. However, each site needs to be considered in context.

# List of NSW Contaminated Sites Notified to the EPA

### Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

- 1. any information in the list; or
- 2. any error, omission or misrepresentation in the list; or
- 3. any malfunction or failure to function of the list;
- without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or <i>Protection of the Environment Operations Act 1997</i> . Alternatively, the EPA may require information via a notice issued under s77 of the <i>Contaminated Land Management Act 1997</i> or issue a Preliminary Investigation Order.
Regulation under CLM	The EPA has completed an assessment of the contamination and decided
Act not required	that regulation under the Contaminated Land Management Act 1997 is not required.
Regulation being	The EPA has completed an assessment of the contamination and decided
finalised	that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.

List current as of 16 April 2018

Pag= 3 of 75

Contamination	The EPA has completed an assessment of the contamination and decided
currently regulated	that the contamination is significant enough to warrant regulation under the
under CLM Act	Contaminated Land Management Act 1997 (CLM Act). Management of the
	contamination is regulated by the EPA under the CLM Act. Regulatory
	notices are available on the EPA's Contaminated Land Public Record.
Contamination	The EPA has completed an assessment of the contamination and decided
currently regulated	that the contamination is significant enough to warrant regulation.
under POEO Act	Management of the contamination is regulated under the Protection of the
	Environment Operations Act 1997 (POEO Act). The EPA's regulatory
	actions under the POEO Act are available on the POEO public register,
Contamination being	The EPA has completed an assessment of the contamination and decided
managed via the	that the contamination is significant enough to warrant regulation. The
planning process	contamination of this site is managed by the consent authority under the
(EP&A Act)	Environmental Planning and Assessment Act 1979 (EP&A Act) planning
	approval process, with EPA involvement as necessary to ensure significant
	contamination is adequately addressed. The consent authority is typically
	local council or the Department of Planning and Environment.
Contamination	The EPA has determined that the contamination is no longer significant
formerly regulated	enough to warrant regulation under the Contaminated Land Management
under the CLM Act	Act 1997 (CLM Act). The contamination was addressed under the CLM Ac
Contamination	The EPA has determined that the contamination is no longer significant
formerly regulated	enough to warrant regulation. The contamination was addressed under the
under the POEO Act	Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was	The EPA has determined that the contamination is no longer significant
addressed via the	enough to warrant regulation. The contamination was addressed by the
planning process	appropriate consent authority via the planning process under the
(EP&A Act)	Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance	The EPA has determined that ongoing maintenance, under the
required to manage	Contaminated Land Management Act 1997 (CLM Act), is required to
residual contamination	manage the residual contamination. Regulatory notices under the CLM Ac
(CLM Act)	are available on the EPA's Contaminated Land Public Record.

List current as of 16 April 2018

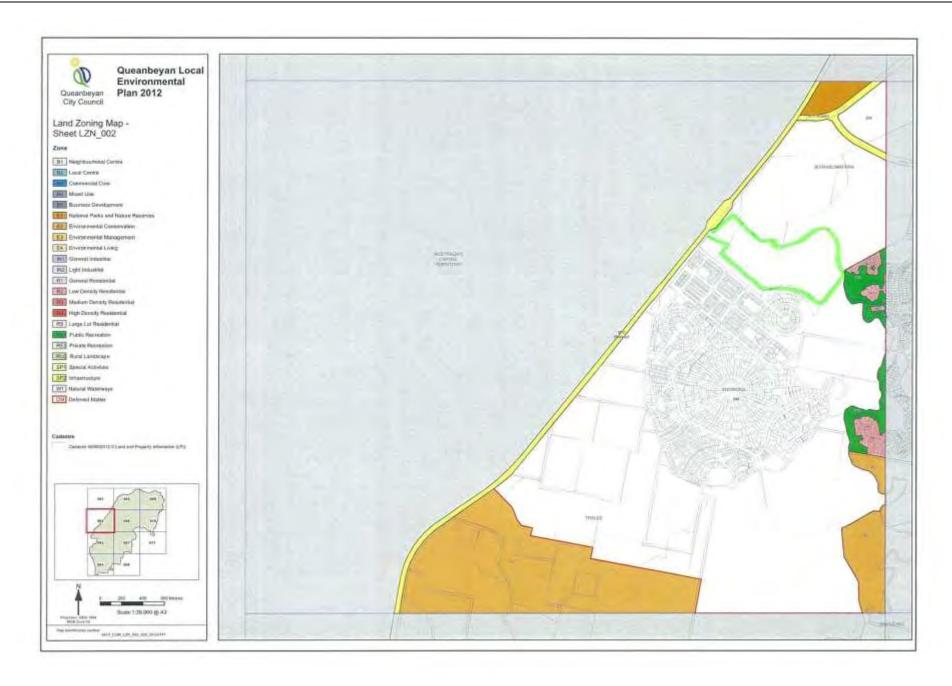
Page 4 of 75

Soburb	Site Name	Address	Contamination Activity Type	EPA Management Class	Latitude	Longitude
COCTAMUNDIA	Former Ampol Service Station	72 Parket STREET	Service Station	Regulation under CLM Act not required	-34 63471008	348-029631
COOTAMUNDRA	Furmer Ampol Contamundra Rail Sunng	Back Brawlin (IOAD	Other Perroleum	Under assessment	34.65376435	148.014306
CORAMBA	Martin Wreet	End of Martin Street and adjacent on park OTHES	Service Station	Ongoing maintenance required to manage residual contamination	30.22125208	153,015699
COROWA	Carpwe Shire Council Works Depart	24 Paseidon (KCIAD)	Other Petraleum	Regulation under CLM Act out required	-35 98807921	346.365226
COROWA	Former Ampol Corows	10 Bow STREET	Service Station	Regulation under CLM Act not required	35,99364786	146 390125
COROWA	Cignal Corover	280 Hume STREET	Setwice Station	Under assessment	-36.00996015	146,376013
CORRINAL	7 Eleven Cominal	138-145 Princes HIGHWAY	Service Station	Regulation under CLM Act rist tequired	-34.36986923	150.897827
CORIGINAL	Woolwarthe Pilitrol - Corrimet	275-277 Princes HIGHWAY	Service Station	Under assessment	-34.37527426	150.896263
CDWRA	Former Gasworks	30 Brougham STREET	Garsworks	Contamination currently regulated under CLM Act	33,8389659	148.696348
COWRA	Shell Depot	34 Brougham STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	33.83932421	148.697629
COWRA	Landmark Fertiliser Storage Facility	Corner Young Road & Waratah STREET	Chemical Industry	Regulation under CLM Act not required	33.84321832	148.672257
CDWRA	Lowes Petroleum (former BP Cowra Depot)	12 Compbell STREET	Other Petroleum	Regulation under CLM Act not required	-33.83803706	148,697787
CRANGAN BAY	Big T Road House.	555 and 565 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-83.17326538	151.608386
CREMORNE	Shell Coles Express Service Station	225 Milliary ROAD	Service Station	Regulation under CLM Act not required	33.83063306	151.22622
CRESTWOOD	Formus Caltins Depot Queanbeyan	35 Kendulii (Cnr Stephana Rd) AVENUE	Other Petroleum	Regulation under CLM Actural required	-35,34615540	149,20780
CRESTWOOD	France: BP Queanleyan	SELVISATIA ROAD	Service Station	Regulation under CLM Act violatequired	-35,34646177	149.224626
CROA	Breen Holdings	Bate Bay ROAD	Other inclustry	Regulation under CLM Act not required	-34.03863737	351 161013
CROWS NEST	Caltex Service Station	111-121 Falcon STREET	Service Station	Régulation under CLM Act not réquired Régulation under CLM Act not	33.82868236	351,206091
CREYDON	BP Auntield	AGE-418 Liverpool BDAD	Servior Station	required	33.88853994	151.11587
CROYDON	Mobil Service Station	582-586 Parramatta ROAD	Service Station	Under assessment Regulation under CLM Act not	-3.3.87399A09	151 126729
CHDYDON PARK	Caltex Service Station	334 Georges River ROAD	Service Station	required  Regulation unifer CLM Act rist	-33.897/16/6	151.099919
CUICARN	Baal Sone Colliny	2883 Dlympic HIGHWAY	Service Station	required Regulation under CLM Act rist	35.67441635	147,035684
COILEN BUILEN	Gallesi Service Station (I Marring	Castlerago, HIGHWAY	Other industry	required Regulation under CLM Act viol	-93.27193879	150,058719
CUNDLETOWN	River Drive)	Old Pacific HIGHWAY	Service Scattion	required	31.89379598	157.506822

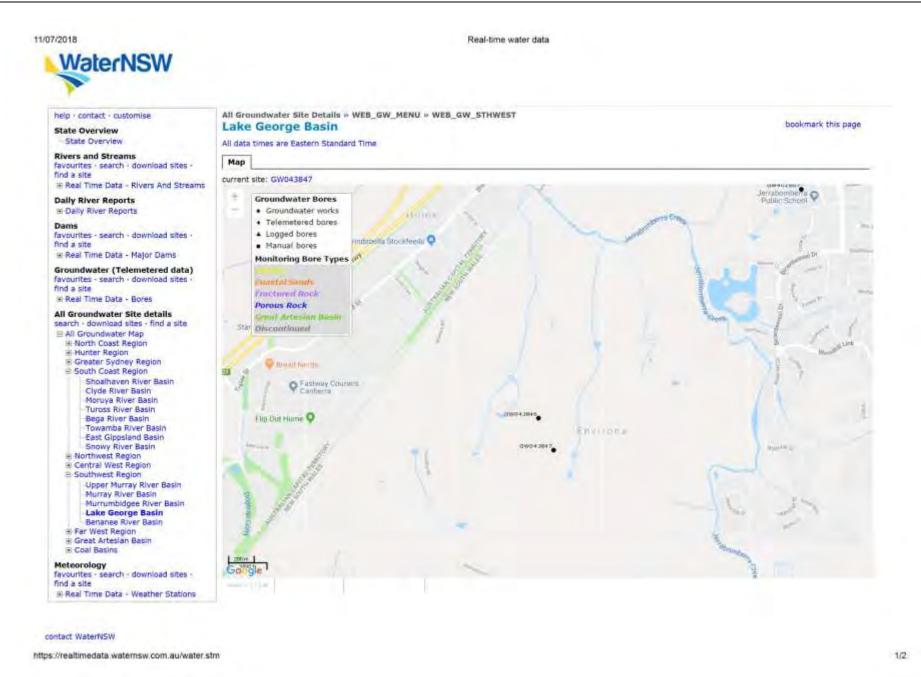
Project of 72

Soburb	Site Name	Address	Contamination Activity Type	EPA Management Class	Latitude	Longitude
PWMONT	Former Council Works Deput (Fig. and Wattle Disset)	L4-26 WARRIE STREET	Other industry	Under assessment	-93.8752655	151.194264
QUAKERSHILL	7-Elever (former Mobil) Service Station	S3 Later (KOAD)	Service Station	Regulation under CLM Act not required	33.72759077	150.896676
QUAKERS HILL	BP Branded Parkway (Former Cattes) Service Station Osakers	450 Quakers His PARKWAY	Service Station	Regulation under CLM Act not required	33.72998613	150,902361
GUEANBLYAN	Former Mobil Service Station	158 Umarra ROAD	Service Station	Regulation under CLM Actinut required	-35,34425514	149.234868
QUEANREYAN	Bill Lifley Automotive	Idd Crawford STREET	Service Station	Regulation under CLM Act not required	45.35138121	149,73748
QUEAMBEYAN	Woolwortho Queanbeyan Service Station	STREET	Service Station	Regulation under CLM Act not required	-35,35163055	149.233575
QUEANBEYAN	Caltex Quantibeyan Service Skyllon	RR Marquaid (also know) as Bungendore Rd) 57REET	Service Station	Regulation under CLM Act rist required	-35.34930535	349.243860
QUEANBEYAN	Tormer Mobil Emoleum Depot	105-111 High STHEET	Other Perceleum	Regulation under CLM Act not required	35,3396115	149.29755
QUEANBEYAN	Former Califes Depot	20-30 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-35,34523	149,22,13
QUEANBEYAN EAST	BP-Branded Service Station Queanbeyon	SO Yess ROAD	Service Station	Regulation under CLM Act rist required	35,34126641	149.244510
QUEANBEYAN WEST	Carrier Service Station	Lanyon Dr Chr Mocrae St (1 Schuc) Place   57REET	Service Station	Regulation under CLM Act riot required	35.36372921	149.206753
COUNCIL	Tomer Mobil Depot Qurindi	4-6 Cross 5TRCET	Other Petroleum	Regulation under CIAT Act not required	-31.49900155	150,68197
QUIRIND	Cattes Service Station, Duired	199-201 George STREET	Service Matton	flegulation under CLM Activation tequired	-31.50654793	150.680358
QUIRIND	Tamarang Servicentre Quinnuli	113/11/ Station STREET	Service Station	Under assessment	-31.50179204	150.681461
KAMSGATE	Sheff Coles Express Service Station	Grand Parade unit Ramagate ROAD	Service Station	Regulation under CLM Act not required	-33.98537988	351,147123
RANDWICK	7-Eleven Service Station	125-130 Barrer STREET		Confamination currently regulated under CEM Act	-33,92096157	151.735592
NANDWICK	Service Station, Randwick	33-37 Carrington ROAD	Service Station	Contamination currently regulated under CEM Act	43.90655015	151.252500
BANDWICK	Caltay Service Station	Z Alison ROAD	Service Station	Regulation under CLM Act not required	33,9065752	351,297069
RANDWICK	Metro Petroleum	345 Avola STREET	Service Station	Regulation unifer CLM Act (sa) sequired	33.92544832	151,7396/9
BAVENSWORTH	Hayersworth Operations Nacama Minu	Lemington BOAD	Other industry	Regulation under CLM Act not required	-12:47115903	151,085957
RAVENSWORTH	Currentle Colliery	Pixes Gully RDAD	Other industry	Regulation under CLW Act not required	32,40218281	150,996008
RAYMOND TERRACE	Shell Coles Express Baymond Terrace	107 Adelaide (formerly Pacific Highway) STREET	Service Ration	Regulation unifer CLM Act rial intquired	-02.76110922	351.749284
RAYMOND TERRACE	Caltex Service Station Raymond Terrore	136 Adolande (Cer Adolaide and General St.) TIPLET	Service Station	Regulation under CLM Act rist required	<u>42.76503842</u>	151.762526
RAYMOND TERRACE	Former Motor Registry	53 William STREET	Other Petruléum	Regulation under CLM Act not required	-32,76286473	151.744583

Programmit we at 15 April 2016



Page 133 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



11/07/2018 Real-time water data

https://realtimedata.waternsw.com.au/water.stm

11/07/2018

https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043846.agagpf\_org.wsr.htm?1531273484011

# NSW Office of Water Work Summary

#### GW043846 Licence: 400E,102984 Licence Status: CONVERTED Authorised Purpose(s): STOCK DOMESTIC Intended Purpose(s): IRRIGATION Work Type: Bore open thru rock Work Status: Construct Method: Cable Tool Owner Type: Private Commenced Date: Final Depth: 48:50 m Completion Date: 01/10/1009 Driffed Depth: 48 50 m Contractor Name: Driller: Assistant Driller Property: ENVIRONA GWMA: -Standing Water Level (m): Salinity Description: Hard GW Zone Yield (L/s): Site Details Site Chosen By: Form A: MURRA Parish Cadastre Licensed: MURRAY TUGGERANONG Whole Lot 8 Region: 40 - Murumbidgee CMA Map: 8727-38 River Basin: 410 - MURRUMBIDGEE RIVER Grid Zone: Scale: Elevation: 0.00 m (A.H.D.) Northing: 6080498.0 Latitude: 35°23'57.4°S Longitude: 149°10'43.3°E Elevation Source: (Unknown) GS Map: MGA Zone: 0 Coordinate Source: GD.ACC.MAP Construction Negative depths indicate Above Ground Level, C Comented: St. Stot Length, A Aperture, GS Grain Size, D Quantity, PL Placement of Gravel Pack, PC Pressure mented; S.Sump; CE-Centralisers Hole Pipe Component Diameter Diamet Threaded Shed 1 1 Casing Water Bearing Zones Thickness WBZ Type Hole Depth (L/b) 0.00 (Unknown) Geologists Log Drillers Log Geological Material Thickness | Drillers Description 1.83 Soil Subsoil 16.15 Purphyry Decomposed 12.80 Porphyry Very Hard 9.76 Porphyry Hard

https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043846.agagpf\_org.wsr.htm?1531273484011

1/2

11/07/2018	https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043846.agagpf_org.wsr.htm?1531273484011	https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043846.agagpf_org.wsr.htm?1531273484011				
Remarks						
	*** End of GW042846 ***					
Warreing To Chemis: This raw date has been supplied to	The MSW Office of Water by distince, Sciences and other sources. The MSW does not verify the accountry of this data. The data is presented for use by you does not verify on the country of the data is presented for use by you does not receive an all the presented in the country or independent address presented for user by a data.					

https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043846.agagpt\_org.wsr.htm?1531273484011

11/07/2018

https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043847.agagpf\_org.wsr.htm?1531273520333

## NSW Office of Water Work Summary

#### GW043847 Licence: 400E.103102 Licence Status: CONVERTED Authorised Purpose(s): STOCK DOMESTIC Intended Purpose(s): STOCK, DOMESTIC Work Type: Bore open thru rock Work Status: Construct Method: Cable Tool Owner Type: Private Commenced Date: Final Depth: 37.70 m Completion Date: 01/08/1909 Contractor Name: Driller: Assistant Driller Property: ENVIRONA GWMA: -Standing Water Level (m): Salinity Description: Hard GW Zone Yield (L/s): Site Details Site Chosen By: Form A: MURRA Parish Cadastre Licensed: MURRAY TUGGERANONG Whole Lot 8 Region: 40 - Murumbidgee CMA Map: 8727-38 River Basin: 410 - MURRUMBIDGEE RIVER Grid Zone: Scale: Elevation: 0.00 m (A.H.D.) Northing: 6080280.0 Letitude: 35°2/704.4°S Elevation Source: (Unknown) GS Map: MGA Zone: 0 Coordinate Source: GD.ACC.MAP Construction Negative depths indicate Above Ground Level, C-Comented, SL-Stot Length, A-Apenture, GS-Gram Size, Q-Quantity, PL-Placement of Gravel Pack, PC-Pressure emented, S. Sump, CE-Centralisers Hole Pipe Component Diameter Diamet Threaded Shed 1 | Casing Water Bearing Zones Hole Depth Thickness WBZ Type (L/b) 0.00 Fractured Geologists Log **Drillers Log** Geological Material Thickness Drillers Description Sail Subsail 24:08 Porphyry Decomposed Porphyty 12.50 Porphyry Hard 0.01 Bedrock Hard Water Supply

https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043847.agagpf\_org.wsr.htm?1531273520333

11/07/2018	https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043847.agagpf_org	j.wsr.htm?1531273520333
Remarks		
	*** End of GW043847 ***	
Werning To-Cleans: This rays date has been supplied your own risk. You alread	the MSW Office of Webs by deliters, it means and other neutron. The NOW does not verify the usurency of him data. The delite a presented for one by you also refine the latter onlying on a. Professional hydrogenizated about missingly be usuaged in misrapology and using the risks.	

https://realtimedata.waternsw.com.au/wgen/users/104d0006f7ef4ce997478433f5418e9e/gw043847.agagpf\_org.wsr.htm?1531273520333



ABN: 36 092 724 251 Ph: 02 9099 7400 Level 14, 135 King Street, Sydney 2000 GPO Box 4103 Sydney NSW 2001 DX 967 Sydney

Report

NSW LRS (Formerly LPI)

Sydney

Address: 360A Alderson Place, Queanbeyan

Description: - Lot 6 D.P. 239080

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
19.12.1924 (1924 to 1925)	James Patrack Heaton (Grazier)	Vol 3677 Fol 132
01.04.1025 (1925 to 1936)	Amy Gwendoline Hallorau (Marned Woman)	Vol 3677 Fol 132 Now Vol 3817 Fol 104
0) 07.1936 (1936 to 1954)	John Monrison (Grazier)	Vol 3817 Fol 104 Now Vol 4788 Fol 123
31.03.1954 (1954 to 1993)	John Walsh Mornson (Catholic Prest) Bernard Lawrence Mornson (Grazier) (Application by Transmission not investigated)	Voi 4788 Fol 123 Now 6/239080
04.03.1993 (1993 to 1999)	Bernard Lawrence Morrison (Grazier)	6/239080
18.06 (1999 (1999 to 1999)	Sandra Anne Walsh Graeme Farquhar Finlayson (Executors of the Will of Bernard Lawrence Morrison)	6/239080
18.10.1999 (1999 to 2002)	Therese Mary Hansen John Bernard Mornson Lucille Margaret Wilmot Sandra Anne Walsh	6/239080
	Numerious Transfer were found between 13.06.2002 to 02.04.2014, between the above 4 named people, transferring various shares, these have not been investigated.	
15.06 2002 (Part) (2002 to 2005)	The Village Building Co. Limited Now The Village Building Co Limited	6/239080
02.04.2014 (2014 to Date)	# The Village Building Co Limited Now # The Village Building Co Limited	6/239080

## # Denotes Current Registered Proprietor

## Easements: - NIL

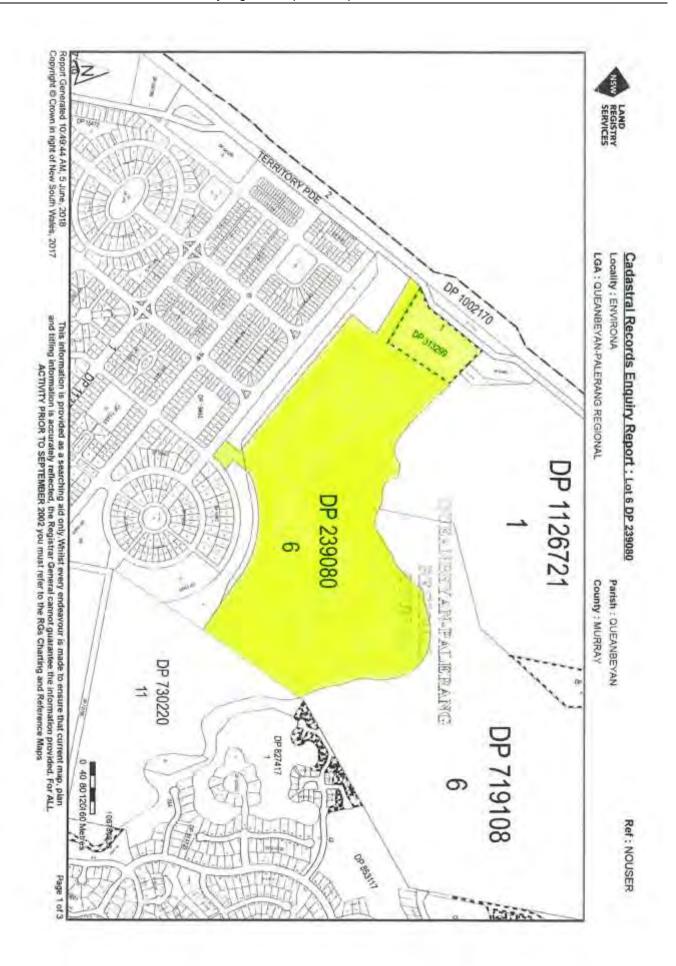
#### Leases

13.07.1962 (JT17774) - Bernard Lawrence Mornson (Grazier) - expired not investigated

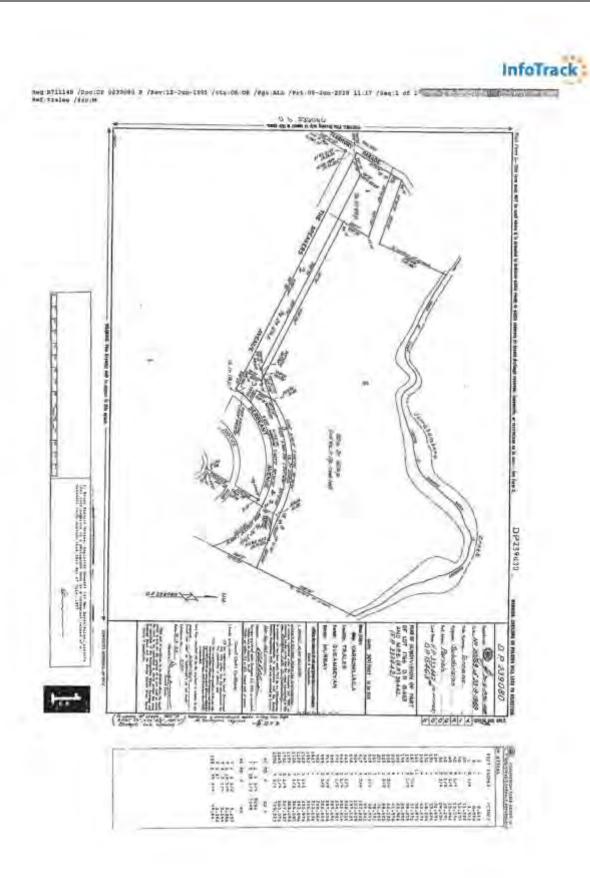
Yours Sincerely James McDonnell 5 June 2018

Email: james.medonnell@infotrack.com.au

ì



Page 141 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.







## NSW LRS - Owner Enquiry

### Search Summary

Owner Name: Include Properties Previously Ownerd? The Village Suilding

Matter:

traion

### Current Owner Names (Auto Titles)

Owner Name	Locality	Title Reference	Dealing
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	176/754912	T AN83611
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	148/754912	T. AN83811
THE VILLAGE BUILDING GO LIMITED	TRALEE	1/1207489	TX AJ597880
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1140653	T AJ959737
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/1140653	T AJ959737
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/1140653	T AJ969737
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1207487	T ANB3611
THE VILLAGE BUILDING CO. LIMITED	COFFS HARBOUR	9/270533	* AE593861
THE VILLAGE BUILDING CO, LIMITED	ENVIRONA	8655-144	CN Al696791
THE VILLAGE BUILDING CO. LIMITED	QUEANBEYAN	3817-132	CN A(696791
THE VILLAGE BUILDING CO. LIMITED	QUEANBEYAN	4316-172	CN AM96792
THE VILLAGE BUILDING CO. LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/865411	CN Al696791
THE VILLAGE BUILDING CO. LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	CN A1696792
THE VILLAGE BUILDING CO, LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651916	GN AI696795
THE VILLAGE BUILDING CO. LIMITED	TRALEE	3/239060	CN AI696791
THE VILLAGE BUILDING CO. LIMITED	TRALEE	6/239080	CN Al696791
THE VILLAGE BUILDING CO, LIMITED	TRALEE	1/1039904	CN Al696793
THE VILLAGE BUILDING CO. LIMITED	TRALSE	1/224095	CN_AI696793
THE VILLAGE BUILDING CO. LIMITEU	THALEE	2/224095	CN Al696793
THE VILLAGE BUILDING CO. LIMITED	TRALEE	3/224095	CN Al696793
THE VILLAGE BUILDING CO. LIMITED	TRALEE	4/224095	CN AR96793
THE VILLAGE BUILDING CO. LIMITED	TRALÉE	5/224095	CN Al695793
THE VILLAGE BUILDING CO. LIMITED	TUGGERANONG	1/213249	CN A)696793
THE VILLAGE BUILDING COMPANY LIMITED	TRALEE	1/1023430	T 9185635
VILLAGE BUILDING CO LIMITED	WOLLDNGONG	2/5P68133	- AM953291

## Purchaser/Lessee Names (From 1/6/1971)

Owner Name	Locality	Title Reference	Dealing
THE VILLAGE BUILDING CO LIMITED	COFFS HARBOUR	1/24/758258	L AA401526
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T 8680559
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T 8750841
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	1 9620599
THE VILLAGE BUILDING GO LIMITED	ENVIRONA.	8655-144	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AG817758
THE VILLAGE BUILDING GO LIMITED	ENVIRONA	8655-144	T AG617769
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AG671700
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	B855-144	T AG871701
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AG871702
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AG871703
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	3655-144	T AG871704
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T.AG871705
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8656-144	T AG871706
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AHERBRO
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AH53393

THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T-AH8160
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AH6161
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AH8162
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	6855-144	T AMB163
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8855-144	T AHB164
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	T AHE165
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8855-144	T ÁHE166
THE VILLAGE BUILDING CO LIMITED	ENVIRONA	8655-144	TZ A1486036
THE VILLAGE BUILDING CO LIVITED	QUEANBEYAN	3817-132	T 8680559
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4315-172	T 8880559
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T 8750841
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4315-172	T-8750841
THE VILLAGE BUILDING CO LIMITED	QUEANBEVAN	3817-132	T 9620599
THE VILLAGE BUILDING CO LIMITED	QUEANBEVAN	4316-172	7 9620599
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	TZ AG28223
THE VILLAGE BUILDING OO LIMITED	QUEANBEYAN	3817-132	7.AG617768
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T.AG617768
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T-AG617769
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AG617769
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AG871700
THE VILLAGE BUILDING GO LIMITED	QUEANBEYAN	4316-172	T AG871700
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AG871700
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	
THE VILLAGE HUILDING CO LIMITED	QUEANBEYAN		T AG871701
THE VILLAGE BUILDING CO LIMITED		9817-192	T AG871702
	GUEANBEYAN	4316-172	T AG871702
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AG871703
THE VILLAGE BUILDING CO LIMITED	GLIEANBEYAN	4316-172	TAG871703
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AG871704
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AG871704
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AGII71705
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AGE71705
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	1 AG#71706
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AG871706
THE VILLAGE BUILDING OF LIMITED	QUEANBEYAN	381 r-132	T AH53392
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T A)+53392
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AH53393
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AH53393
THE VILLAGE BUILDING CO.LIMITED	QUEANBEYAN	3817-132	T AH8160
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AHB160
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AH6101
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AH6161
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AM6162
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4315-172	T AH6162
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3617-132	T AH6163
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AH6153
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AH6164
HE VILLAGE BUILDING GO LIMITED	QUEANBEYAN	4315-172	T AH8164
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3617-132	T AH6165
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	4316-172	T AH6105
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3817-132	T AH6166
THE VILLAGE BUILDING CO LIMITED	DUEANBEYAN	4316-172	T AH6166
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN	3811-132	TZ A1486036
HE VILLAGE BUILDING CO LIMITED	GGEANBEYAN	4316-172	TZ AI488036
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T 8840559
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/665411	T 8889559
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T.8680559
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T 8750641
HE VILLAGE BUILDING GO LIMITED	QUEANBE VAN-PALERANG REGIONAL	926/665411	T 8750841
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T 8750841
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T 9620599
HE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	225/665411	
THE THE POWER OF STATE SHIP I SEE	AND THE PERSON OF THE PERSON O	E-60/00/04/17	T 9020599

THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	3/651918	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN PALERANG REGIONAL	226/665411	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-12A	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651916	T AG617768
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/665411	T-AG617768
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788/124	T AG817708
THE VILLAGE BUILDING DO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/851958	1 AG617769
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/865411	T AG617769
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	A788-124	1.AG617769
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T AG871700
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/6654 v V	T AG871700
THE VILLAGE BUILDING CO LIMITED	QUEANBEVAN-PALERANG REGIONAL	4788-124	T AG871700
THE VILLAGE BUILDING GO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651916	T AG871701
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/665411	T AG871701
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T AG871701
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T AG871702
THE VILLAGE BUILDING OD LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/6/05411	T AG671702
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4768-124	T AG871702
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/661918	T AG871703
THE VILLAGE BUILDING CO LIMITED	QUEANBEVAN-PALERANG REGIONAL	226/865411	T AG871703
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4768-124	T AG871703
THE VILLAGE BUILDING CO.LIMITED	QUEANBEVAN-PALERANG REGIONAL	1/551918	T AGII71704
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	225/665411	T AGB71704
THE VILLAGE BUILDING COLUMNED	QUEANBEYAN-PALERANG REGIONAL	71.77.75	
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651018	1 AGE71704
THE VILLAGE BUILDING CO LIMITED		-	T AGE71705
	GUEANBEYAN-PALERANG REGIONAL	225/665411	T AG671706
THE VILLAGE BUILDING CO LIMITED	DUEANBEYAN-PALERANG REGIONAL	4786-124	T AGB71705
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/851918	T AG871706
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/665411	T.AG871706
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T AG871706
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/657918	T AH53392
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/665411	T AH53392
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4781/124	T AH53392
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T AH53393
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN PALERANG REGIONAL	220/065411	T.AH53393
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	47B(F124	T AH533H3
THE VILLAGE BUILDING COLLIMITED	QUEANBEYAN-PALERANG REGIONAL	1/65191A	T AH616G
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/665411	T AH6160
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T AH6160
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T AH6107
THE VILLAGE BUILDING CO LIMITED	QUEANBEVAN-PALERANG REGIONAL	226/065411	T AHE161
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T AHB167
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1AIS1918	T AH8162
THE VILLAGE BUILDING CO LIMITED	QUEANUEYAN-PALERANG REGIONAL	226/985411	T AHB1B2
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T AH6162
THE WILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T AHR163
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN PALERANG REGIONAL	226/665411	T AH8163
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T AH6163
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/651918	T.AH0104
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226/665411	T.AHd164
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4785-124	T. AH6164
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN PALERANG REGIONAL	1mS1918	T.AH6165
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	2266665411	T /046165
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-124	T AH6105
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	1/851918	T AH6166
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	228/865411	T A316166
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	4788-11A	T AH6168
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN PALERANG REGIONAL	1/651918	TZ AM86038
THE VILLAGE BUILDING CO LIMITED	QUEANBEYAN-PALERANG REGIONAL	226(6654)1	TZ /V466036
THE VILLAGE BUILDING CO LIMITED	QUEANBETAN-PALERANG REGIONAL	4768-124	TZ A1486036
THE VILLAGE BUILDING DO L'IMITED	TRALEE	1/1039894	T 8880659
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T assesses
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T 8680859

THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T 8680559
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	1.8680559
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T 8680559
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T 8680559
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T 6880559
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T 8750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T 8750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T 8750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T B750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T 8750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T 8750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T 8750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T 8750841
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T 9620599
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T 9620599
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T 9620599
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T 9620599
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T 9620599
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T 9620599 T 9620599
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	
THE VILLAGE BUILDING CO LIMITED	TRALEE		T 9620599
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1140653	TX AF452190
THE VILLAGE BUILDING CO LIMITED	TRALES	2/11/0653	TX AF452190
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/1140653	TX AF452190
		1/1039904	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	TZ AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	12 AG28223
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T.AG617768
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG617768
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224096	T.AG617768
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG617768
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AG617768
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG617788
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AG517768
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T AG817768
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG617769
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG617769
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AG617769
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG617769
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AG617769
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG617769
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AG617769
HE VILLAGE BUILDING CO LIMITED	TRALEE	8/239080	T-AG617769
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG871700
HE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG871700
HE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AG871700
HE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG871700
HE VILLAGE BUILDING CO LIMITED	TRALÉE	3/239080	T AG871700
HE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG871700
HE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T MG871700
HE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T.AG871700
HE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG871701
HE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T.AG871701
HE VILLAGE BUILDING GO LIMITED	TRALEE	2/224095	T AG871701
HE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG871701
HE VILLAGE BUILDING OO LIMITED	TRALPE	3/239080	T AG871701
HE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG871701
			a treat diad.

THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239060	T AG871701
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG871702
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG871702
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AG871702
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG871702
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239060	T AG871702
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG871702
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AG871702
THE VILLAGE BUILDING CO-LIMITED	TRALEE	6/239080	T AG871702
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG871703
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG8/1703
THE VILLAGE BUILDING CO-LIMITED	TRALEE	2/224095	T AG871703
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG871703
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AG871703
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG871703
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AG871703
THE VILLAGE BUILDING CO LIMITED	TRALEE	277777	
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T AG871703
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG871704
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG871704
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AG871794
	11000000	3/224995	T AG871704
THE VILLAGE BUILDING CO LIMITED THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239060	T.AG871704
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG871704
	TRALEE	5/224096	T AG871704
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T AG8/1704
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG871705
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG871705
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AG871705
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG871705
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AG871705
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AG871705
THE VILLAGE BUILDING GO LIMITED	TRALEE	5/224095	T AG871705
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/23/008/0	T AG871795
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AG871706
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AG871706
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AG871706
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AG871708
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AG871706
THE VILLAGE BUILDING CO-LIMITED	TRALEE	4/224095	T.AG871708
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	TAG871708
THE VILLAGE BUILDING CO LIMITED	TRALEE	8/239080	T AG871706
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039964	T AH53392
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH53392
THE VILLAGE BUILDING GO LIMITED	TRALEE	2/224095	T AH53392
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AH53392
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AH53392
HE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AH53392
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AH53392
THE VILLAGE BUILDING CO LIMITED	TRACEE	6/239080	7 AH53392
HE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AH53393
HE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH53393
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AH58393
HE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AH53393
HE VILLAGE BUILDING GO LIMITED	TRALEE	3/239080	
HE VILLAGE BUILDING CO LIMITED	TRALEE		T AH53393
HE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AH53393
HE VILLAGE BUILDING CO LIMITED		5/224095	T AH53393
	TRALEE	8/239086	T AH53393
HE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AH6160
HE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH5160
HE VILLAGE BUILDING GO LIMITED	TRALEE	2/224095	T AH6160
HE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AH6160
HE VILLAGE BUILDING COLIMITED	TRALEE	3/239080	T AH8160

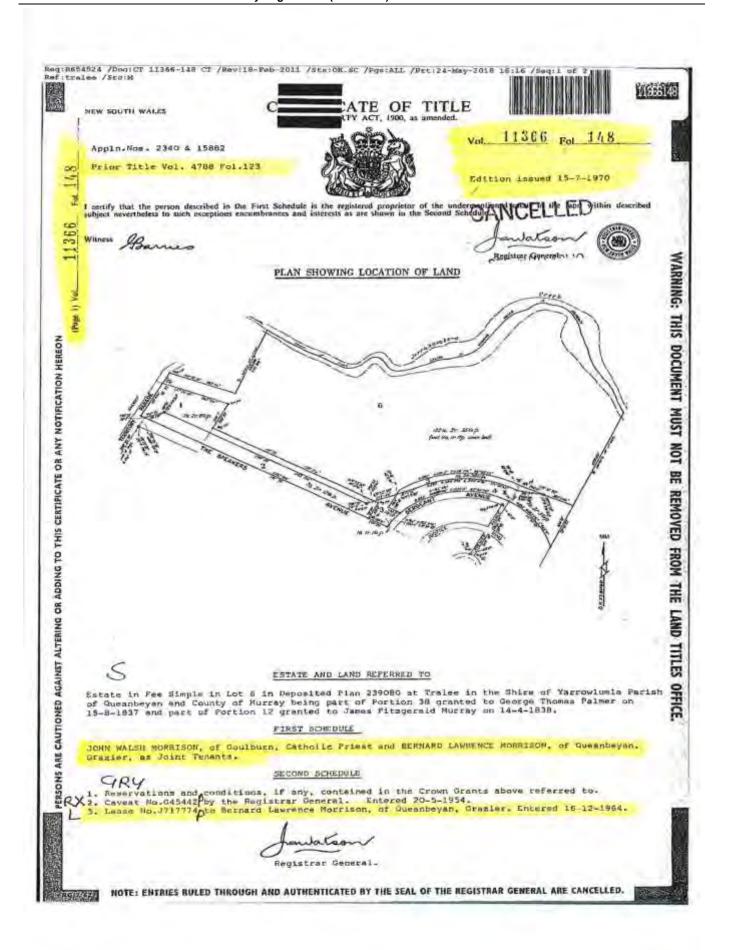
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AH6160
THE VILLAGE BUILDING GO LIMITED	TRALEE	6/239080	T AH6160
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AH6181
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH6161
THE VILLAGE BUILDING GO LIMITED.	TRALEE	2/224095	T AH6161
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T.AH6161
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AH6161
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AH6161
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AH6161
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T-AH6161
THE VILLAGE BUILDING OD LIMITED	TRALEE	1/1039904	T AH6162
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH6162
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AH6162
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AH6162
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239060	T AH6162
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AH6162
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AH6162
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T AH8162
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1009904	T AH6163
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH6163
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AH6163
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AH0163
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
THE VILLAGE BUILDING CO-LIMITED	TRALEE	4/224095	T AHS163
	TRALEE		T AHE163
THE VILLAGE BUILDING CO LIMITED		5/224095	T AH6163
THE VILLAGE BUILDING CO LIMITED	TRALEE	8/239083	T AH8163
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AH6164
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH6164
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AH6164
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	T AH6164
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239060	T AH6164
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AH5164
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	T AH6164
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	T AH6164
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AH6185
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH6165
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AHB165
THE VILLAGE BUILDING GO LIMITED	TRALEE	3/224095	T AH6185
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AH5185
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	T AH6166
THE VILLAGE BUILDING OD LIMITED	TRALEE	5/224095	T AH6165
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239060	T AH6165
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	T AH6166
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	T AH8166
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	T AH6166
THE VILLAGE BUILDING CO LIMITED	TRALEF	3/224095	T AH6166
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	T AH5156
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224085	T.AH6196
THE VILLAGE BUILDING CO LIMITED.	TRALEE	5/224095	T AH6166
THE VILLAGE BUILDING CO LIMITED	TRALBE	8/239080	T AH6168
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/1039904	TZ AI486038
THE VILLAGE BUILDING CO LIMITED	TRALEE	1/224095	TZ Al486036
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/224095	TZ A/486038
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/224095	TZ AM66036
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/239080	TZ A/486036
THE VILLAGE BUILDING CO LIMITED	TRALEE	4/224095	TZ AI486036
THE VILLAGE BUILDING CO LIMITED	TRALEE	5/224095	TZ AI486038
THE VILLAGE BUILDING CO LIMITED	TRALEE	6/239080	TZ A1486036
THE VILLAGE BUILDING CO LIMITED	TRALEE	171140653	T AJ959736
THE VILLAGE BUILDING CO LIMITED	TRALEE	2/1140653	T AJ959736
THE VILLAGE BUILDING CO LIMITED	TRALEE	3/1140653	T AJ959736
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T 8680559

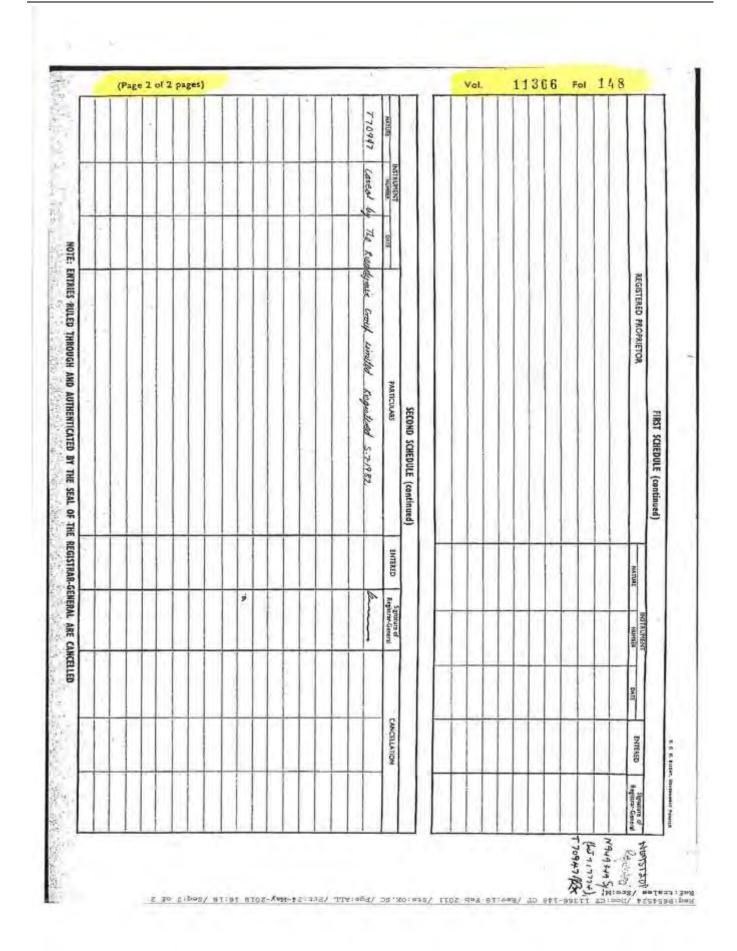
THE VILLAGE BUILDING OD LIMITED	TUGGERANONG	1/213249	T 9620599
THE VILLAGE BUILDING OD LIMITED	TUGGERANONG	1/213249	TZ AG28223
THE VILLAGE BUILDING DO LIMITED	TUGGERANONG	1/213249	T AG617788
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AG617769
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AG871700
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AG871701
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	1 AG871702
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AG871703
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AG87 1704
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AG871705
THE VILLAGE HUILDING CO LIMITED	TUGGERANONG	1/213249	T AG871705
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AH53392
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AH53393
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AHETED
THE VILLAGE BUILDING CO LIMITED	TUGGERANDNG	1/213249	T/AH6161
THE VILLAGE BUILDING GO LIMITED	TUGGERANONG	1/213249	T AH6352
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T.AH5163
THE VILLAGE BUILDING GO LIMITED	TUGGERANONG	1/213249	T AH5164
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AH6155
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	T AM6166
THE VILLAGE BUILDING CO LIMITED	TUGGERANONG	1/213249	TZ AI486036

This information is provided as a searching aid only. The Registrar General does not guarantee that the information provided decrease details of all jand/promises owned/leased by the party searched against. The information returned reliefs to owners/leaseds registered from 1971 prevents except in relation to current lease information which is returned from 1988 powers. Manual indexes are available for records registered prior to 1971, Note: " indicates Losseo name."

Copyright © Office of the Registrar-General 2016

Received 05/06/2019 11:17:47







## Historical Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE 24/5/2018 4:16PM

FOLIO: 6/239080

First Title(s): SEE PRIOR TITLE(S) Prior Title(s): VOL 11366 FOL 148

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987	totale	TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
18/2/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
8/6/1988	x617058	DEPARTMENTAL DEALING	
4/3/1993	T137519	NOTICE OF DEATH	EDITION 1
17/9/1996		AMENDMENT: LOCAL GOVT AREA	
18/6/1999	5838334	REQUEST	
18/6/1999	5802622	TRANSMISSION APPLICATION	EDITION 2
18/10/1999	6275246	DEPARTMENTAL DEALING	
18/10/1999	6220649	TRANSFER	EDITION 3
12/2/2001	7406495	DEPARTMENTAL DEALING	
5/4/2002	8234995	REQUEST	EDITION 4
22/4/2002	8531636	DEPARTMENTAL DEALING	EDITION 5
13/6/2002	8680559	TRANSFER	EDITION 6
19/8/2002	8750841	TRANSFER.	EDITION 7
2/10/2002	9003012	DEPARTMENTAL DEALING	EDITION 8
2/10/2002	9003177	DEPARTMENTAL DEALING	EDITION 9
17/6/2003	9620599	TRANSFER	EDITION 10
31/1/2011	AG28223	TRANSFER WITHOUT MONETARY CONSIDERATION	EDITION 11
31/3/2011	AG152111	CAVEAT	
13/4/2011	AG163696	CAVEAT	
13/4/2011	AG163697	CAVEAT	

END OF PAGE 1 - CONTINUED OVER

PRINTED ON 24/5/2018

traleel

## NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

## SEARCH DATE 24/5/2018 4:16PM

FOLIO: 6/2	39080		PAGE 2
*****			
Recorded	Number	Type of Instrument	C.T. Issue
27/4/2011	AGI.93974	CAVEAT	
18/5/2011	AG225888	REQUEST	
7/6/2011	AG282211	REQUEST	
6/3/2012	AG617768	TRANSFER	
6/3/2012	AG617769	TRANSFER	EDITION 12
25/5/2012	AG871700	TRANSFER	
25/5/2012	AG871701		
	AG871702		
	AG871703		
	AG871704		
	AG871705		
25/5/2012	AGB71706	TRANSFER	
	AR6160		
25/5/2012		TRANSFER	
25/5/2012		TRANSFER	
25/5/2012	AH6163	TRANSFER	
	AH6164	TRANSFER	
25/5/2012	AH6165	TRANSFER	
25/5/2012	AH6166	TRANSFER	EDITION 13
9/7/2012	AH53392	TRANSFER	
9/7/2012	AH53393	TRANSFER	EDITION 14
2/4/2014	AI486033	WITHDRAWAL OF CAVEAT	
and the second second second	AI486034	WITHDRAWAL OF CAVEAT	
2/4/2014	AI486035	REQUEST	
2/4/2014	A1486036	TRANSFER WITHOUT MONETARY	EDITION 15
101.44.005.4	H1400030	CONSIDERATION	60411W 13
1/7/2014	A1696791	CHANGE OF NAME	
1/7/2014	AI696794	MORTGAGE	EDITION 16

\*\*\* END OF SEARCH \*\*\*

traleel

PRINTED ON 24/5/2018

Info fracts an approved AGM bistomation (Index hereby certifies that the Information contained in this document has been provided electronically by the Replatrar General in accordance with Social 166(2) of the Real Property Act 1500.

Copyright & Office of the Registrar-General 2018

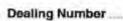
Percental (04/05/2018) (6:16-25

	EROU)		B	SEE ANNEAU	137519 P
	V.	NOTICE O SECTION IOI, REAL P (See Instructions for Com)	ROPERTY ACT, 1900	ND 4 1 4	3 -
UPTION		LAND of which de	cessed is a registered pro	-	- 1 1
ND a)	Torrem	Title Reference	0 /9000 5 15 0	Torrane Title Reference	N .
7	Volume 11366 Folio 14 Volume 10510 Folio 20 Volume 10075 Folio 63 Volume 2750 Folio 218	06	Volume 11366 Volume 10075 Volume 10075 Volume 2194 F	Folio 62 Folio 66 For re	emaining Titles nnexure hereto
		LEASE, MORTGAGE, or CHARG	E of which decrared is a	registered proprietor	
TERED NG b)	Type of Dealing	Registered Number		Torrara Title Reference	
SED	JOHN WALSH MORRISON				OFFICE LIKE DNEY
HETOR e)	The second second		100	1000	N
d)	(the abovenamed DECEASED) is regin	stered as one of the proprietors of the	land above described.	dealing. The APPLICANT	
CANT E)	BERNARD LAWRENCE MORR	ISON of Trales Station,	Trales Street,	Hume, Granier	CHILLE SHLY
0		viT, hereby applies to be registered as	proprietor of the estate or	interest comprised in the above	bove described.
dt.	being the SURVIVING JOINT TENAN STATUTORY DECLARATION I selemnly and sincerely declare that	JOHN WALSH MORRI		interes: comprised in the land a	bove described.
(c) and (g)	STATUTORY DECLARATION	JOHN WALSH MORRI		interest comprised in the state of the state	
c) and (g)	STATUTORY DECLARATION I solemely and sincerely declare that	JOHN WALSH MORRI the said in the State of No intered in the said State, and that the the land above described.	SON W South Wales	es 26th June,	1, 88
(g) and (g)	STATUTORY DECLARATION  I solumnly and sincerely declare that died as Young  that particulars of such death are regions of the registered proprietors of si	the said  in the State of No.  instered in the said State, and that the land above described.  ALSH MORRISON reporty Act, 1900.	SON w South Wales and deceased a identical w Annexed hereto	on 26th June, on JOHN WALSH MORRI	SON 1988 Copy of the Dea
(g) and (g)	statutory declarations I selemely and sincerely declare that died as Young that particulars of such death are regions of the registered proprietors of the Contification of JOHN W. And I make the sofema declaration of the region of the Real P. Made and subscribed at Young	JOHN WALSH MORRI the said in the State of No stered in the said State, and that the land above described, alsh MORRISM conscientiously believing the same to reporty Act, 1900.	SON  W South Wales  and deceased is identical w  Annexed hereto o	on 26th June, on JOHN WALSH MORRI and mexicod "A" is a	SON 1988 Copy of the Dea
(g) and (g)	statutory declaration  I sciencely and sincerely declare that died as Young  that particulars of such death are regi ene of the registered proprietors of at Certificate of JOHN W  And I make this sofemn declaration correct for the purposes of the Real P  Hade and subscribed as the presence of the pres	JOHN WALSH MORRI the said in the State of Ne intered in the said State, and that the tand shows described, alsh MORRISON conscientiously believing the same to reporty Act. 1900.  The	SON  W South Wales  and deceased is identical w  Annexed hereto o	on 26th June, on JOHN WALSH MORRI and mexicod "A" is a	SON 1988 Copy of the Dea
(g) and (g)	statutory declaration  I scientify and sincerely declare that died as Young  that particulars of such death are registered propriesors of the registered propriesors of the Real P  And I make this sofemn declaration of correct for the porposes of the Real P  Hade and subscribed at the pressure of the p	JOHN WALSH MORRI the said  in the State of Ne instered in the said State, and that the te land shows described. AISH MORRISON conscientiously believing the same to reporty Act. 1900.  The  CAY SON WHAT  FRY: 232-5491	SON  W South Wales  and deceased is identical w  Annexed hereto o	DOEN WALSH MORRI  and mexicod "A" is a  costn Act, 1900, and I hereby day of Documental Control of the control	SON Copy of the Dea copy of the Dea copy of the Pea
DEPLITED AND PARTY	statutory declaration  I sciencely and sincerely declare that died as Young  that particulars of such death are registered propriesors of the registered propriesors of the Courtification of John W  And I make this solemn declaration of correct for the purposes of the Heal P  Hade and subscribed at the pressure of the Heal P  Hade and subscribed at the pressure of Wilson  GLAEME FIN  Hame of Wilson GLOSS  Moreon and Table Courtified  C	JOHN WALSH MORRI the said in the State of Ne intered in the said State, and that the tand above described, ALSH MORRISON conscientiously believing the same to reperty Act. 1900 the  LOYPON WHAT	SON  w South Wales  wild deceased a identical will  Annessed herreto a  terror and by virtue of the	DOEN WALSH MORRI  TO STATE OF THE STATE OF T	SON Copy of the Dea copy of the Dea copy of the Pea
DEPLITED AND PARTY	statutory declaration  I scientify and sincerely declare that died at Young  that particulars of such death are registered proprietors of the registered proprietors of the Real P  And I make this sofemn declaration of correct for the purposes of the Real P  Made and subscribed at the pressing of the Real P  Made and subscribed at the pressing of the Real P  Made and subscribed at the pressing of the Real P  Made and subscribed at County of the pressing of th	JOHN WALSH MORRI the said  in the State of Ne instered in the said State, and that the te land shows described. AISH MORRISON conscientiously believing the same to reporty Act. 1900.  The  CAY SON WHAT  FRY: 232-5491	SON  w South Wales  wild deceased a identical will  Annessed herreto a  terror and by virtue of the	DOEN WALSH MORRE  AND MELTING "A" IS OF COUNTY OF DOCUME  Herewith.  In B.G.O. with	SON Copy of the Dea copy of the Dea copy of the Dea
DEPLITED AND PARTY	statutory declaration  I sciencely and sincerely declare that died as Young  that particulars of such death are registered proprietors of the Cortification of John William of the Real Proprietor for the purposes of the Real Proprietor for the Rea	JOHN WALSH MORRI the said  In the State of No. In the State of No. Instered in the said State, and that the te land shows described. ALSH MORRISON Conscientiously believing the same to reporty Act. 1900. The  CAPAN THE STATE OF THE STATE O	SON  w South Wales  wild deceased a identical will  Annessed herreto a  terror and by virtue of the	LOCATION OF DOCUME	SON COPY of the Dea cortily this application to 19 92  Applicant

traleel /S	Oct:DL I137519 /Rev:11-May-2010 /Sts:OK. Ro:M					
	ANNEXURE TO NOTICE OF DEATH DATED	224.	DAY OF Dec	enter	1992,	
	Volume 4559 Folio 80 Volume 939 Folio 238					B
	Volume 939 Polio 237					
	Volume 939 Folio 232					
	Volume 4788 Folio 124					
	Volume 4550 Folio 215					
	Volume 4316 Polio 172	* SEE	ANNEXURE	FOR	update	•
	Volume 3889 Folio 113					
	Volume 3889 Polio 111					
	Volume 3820 Folio 154					
	Volume 3817 Polio 132					
	Volume 3313 Folio 92					
	Volume 10505 Folio 153					
1	Value 5959 Folio 116					
4.	Volume 7241 Polio 55					
1.	Sa in					
	2					
	Showleage		.,			
	7					
			4			0.00

Req:R655880 /Doc:DL I137519 /Rev:11-May-2010 /Sts:OK.OK /Pgs:ALL /Prt:25-May-2018 08:32 /Seq:3 of 4 Ref:tralee1 /Src:M

## TITLE REFERENCE UPDATE ANNEXURE



土137519



TITLE REFERENCE	NOW BEING
939 - 238	276/754912
939 - 237	275/754912
939 - 232	147/754912
4550 - 215	1/18 458 3
3889 - 113	1/177918
3889 - 111	2/177918
0505 - 153	1/651918
1366 - 148	6/239080
0075 - 63	3/224095
2750 - 218	63/754912
1366 - 145	3/239080
0075 - 62	2/224095
0075 - 66	6/224095
2194 - 37	148/754912

LT3/

			OFFICE USE ONLY	<b>A</b>
			STRATION DIRECTION ANNEXURE  on his side unity for First and Second Schedule directions.  DO NOT USE ROTH SIDES OF THE FORM  PIRST SCHEDULE DIRECTIONS	AUTO ANNEXUR
100	y FOLD MENTERS	er bective	ga HAME	THE THE PARTY OF T
1	276/754912	-		
t	275/754912			
	147/ 754912			
*	1/184583	_	-	
1	2/177918			
X	1/ 651918			
X	6/ 239080			Morrison
1	3/ 224095	7 8	Bernard Lawrence	Herrison
	63/754912			
*	3/239080			
	2/224095			
0	-1			
N-	6/224095			
7.1	148/754912			
	· Laura			
*	1/184583			
X	6/239080			
*	3/224095			
*	3/239080			
	2/224095	OFF	X C45442	
-	1	OFF	V 415112	
	6/224095			
1	148/754912			
	Verion	055	V 1/28/10	
*	1/651918	OFF P	X K628610	
		,	1 2 2 2 3	
	011			
	ALL _	CT-	-245.	
		1		

Fern: 97-03TA Licence: 026CN/0528796	TRANSMISSION APPLICATION New South Wales Section 93 Real Property Act 1900
Instructions for filling out this form are available from the Land Titles Office	Office of State Revenue use only
(A) LAND Show no more than 20 titles.	See Schedule of Lands ennexed and marked "A"
(B) REGISTERED DEALING If applicable.	
(C) LODGED BY	LTO Box Name, Address of DX and Telephone  GALLOWAY & CO.  Phone: (02) 9233 1011 Fax: (02) 9232 6491  DX 340, SYDNEY L.T.O. Delivery 28A  REFERENCE (15 character maximum): EURINGTON: MORRILLOW
(D) DECEASED REGISTERS	PROPRIETOR BERNARD LAWRENCE MORRISON 4 224095 OFF L
10.2	
(E) APPLICANT	T A SANDRA ANNE WALSH and GRAEME FARQUHAR FINLAYSON J2
(F) I, the Applicant, being entitle to Probate No. 113200/93	A  and as Executors of the Will of the Deceased Registered Proprietor (who died on 8th May 1993) pursuant granted on 15th September 1993 to Sandra Anne Walsh and Graeme Farquhar Finlayson, apply to be estable or interest of the Deceased Registered Proprietor in the London purposed Above.
(F) I, the Applicant, being entitle to Probate No. 113200/93 registered as proprietor of the (G) Certified correct for the purpo Signed in my presence by the Signature of Winess (BLO)	A  and as Executors of the Will of the Deceased Registered Proprietor (who died on 8th May 1993) pursuant granted on 15th September 1993 to Sandra Anne Walsh and Graeme Farquhar Finlayson, apply to be estate or interest of the Deceased Registered Proprietor in the Land specified above.  because of the Real Property Act 1900. DATE. 16 a April 1999  Applicant who is personally known to me.  CK LETTERS)
(F) I, the Applicant, being entitle to Probate No. 113200/93 registered as proprietor of the (G) Certified correct for the purposigned in my presence by the Signature of W	A  and as Executors of the Will of the Deceased Registered Proprietor (who died on 8th May 1993) pursuant granted on 15th September 1993 to Sandra Anne Walsh and Graeme Farquhar Finlayson, apply to be estate or interest of the Deceased Registered Proprietor in the Land specified above.  assess of the Real Property Act 1900. DATE. 16 to Office 1999.  Applicant who is personally known to me.  CK LETTERS)  CK LETTERS)  CR LETTERS)  CR LETTERS.  CALLED A. Wall.

Req:R655881 /Doc:DL 5802622 /Rev:23-Jun-1999 /Stm:NO.OK /Pgm:ALL /Prt:25-May-2018 08:32 /Seq:2 of 2 Ref:tralee1 /Sro:M "A" SCHEDULE OF LANDS Volume 3817 Folio 132; T = 1. Volume 4316 Folio 172: X NOW BEING 2040 2 3. Volume 4788 Folio 124; XNOW BEING auto consol 4 4. Volume 10510 Folio 206; 5 Volume 3820 Folio 154 - NOW BEING 226 665411 6 Folio Identifier 1/224095 (formerly Volume 10075 Folio 61);-7. Folio Identifier 4/224095 (formerly Volume 10075 Folio 64); 8. Folio Identifier 5/224095 (formerly Volume 10075 Folio 65); 9. Folio Identifier 2/224095 (formerly Volume 10075 Folio 62); -10. Folio Identifier 3/224095 (formerly Volume 10075 Folio 63); Folio Identifier 6/224095 (formerly Volume 10075 Folio 66); 11. 12. Folio Identifier 3/239080 (formerly Volume 11366 Folio 145); Folio Identifier 6/239080 (formerly Volume 11366 Folio 148). 13 1. 1 18 61 61

		T N/0526/96		New South Wales Real Property Act 1900	6220649M
	Instructions for this form are av		Office of State I	Covenue use only	( \$ \$ ) \$ \$   \$   \$   \$   \$   \$   \$   \$
	from the Land I				01-07-1999 0000027119-004 SEUTION 63(A)
			1.		DUTY 6 ***********************************
		0			
(A)	LAND TRANSE Show no more the If appropriate, spe share or part trans	on 20 titles	1/651918, 3/23 14316-172, Auto	Consul 4788-124, Part Vol. 105 folio 132 being the whole exce	224095, 6/224095, Vol. 3820 Fol. 154, Auto Consul 10 Fol 206 being Part Portion 197 and Part Por. 233, pting thereout Portion 176
(B)	LODGED BY		LTO Box	Name, Address or DX and To	GALLOWAY & CO.
			COA		DX 340, SYDNEY L.T.O. Belivery 28A
				REFERENCE (15 character)	mesimum): Elting - Morris
(C)	TRANSFEROR	SANDE	A ANNE WALSH	and GRAEME FARQUHAR	FINLAYSON
(D)	noltinow ladges re	compt of the or	<del>unideration of S</del> pr	ursuant to the terms of the Wil	of the late Bernard Lawrence Morrison as amended
	by Orders of the !	Supreme Cour	of New South Wa	les made 6 May 1998 and 3 Fe	bruary 1999.
de la			d above transfers to	the transferee an estate in fee s	imple,
(H)	Encumbrances (il				
(F)	TRANSFEREE	TS (67(3 LGA) TW (Sheriff)	THERESE MA WILMOT AND common	RY HANSEN, JOHN BER SANDRA ANNE WALSH II	NARD MORRISON, LUCILLE MARGARET a equal undivided one quarter shares as tenants in
	-				CE Chin + 1000
(H)	Signed in my pres	scripe by the tri	unsferor who is pen LO. tness LO. K LETTERS)	Real Property Act 1900. Sonally known to me.	DATE 6th Quipust, 1999  Sandia a Wolsh  Cuculilarpon  Signature of Transleror
(H)	Signed in my pres	scripe by the tri ignature of Wi ign	unsferor who is pen LO. tness LO. K LETTERS) KARES	sonally known to me.	
(H)	Signed in my pres	scripe by the tri ignature of Wi ign	unsferor who is pen LO. tness LO. K LETTERS) KARES	Sonally known to me.	Signature of Transferor  29 - 6 - 99
(H)	Signed in my pres	scripe by the tri ignature of Wi ign	insteror who is pendiness  LO  K LETTERS)  KARE  mess  mulieree who is pera	omally known to me.	Signature of Transferor  29 - 6 - 99
(H)	Signed in my pres	sence by the tra	tness  K LETTERS)  Kaken  mess  mileree who is pero	conally known to me.	Signature of Transferor  29 - 6 - 99
(H)	Signed in my pres	sence by the tri  Companies of With  Address of With  sence by the tra	materor who is pendiness  LO  K LETTERS)  KARE  mess  materee who is pera	onally known to me.  SEE ANEXU  NB: if signed on the	Signature of Transferor  29 · L - 99  RE "A"

q:R655970 /Doo:DL 6220649 /Rev:23-Oct-1999 /Sts:NO.OK f:tralee1 /Sto:M	
ANEXURE	"A"
Signature of Witness  Kim KED  Name of Witness (BLOCK LETTERS)  Signature of Witness (BLOCK LETTERS)	Signature of Transferee
Signature of Witness  PHILIP BOYCE  Name of Witness (BLOCK LETTERS)  Solutions 1/36 Witness  Address of Witness	Sygnature of Transferee
Signature of Witness  Kim. KELO  Nume of Witness (BLOCK LETTERS)  5. Mersey Pl. Koleen ACT  Address of Witness	Paulia a. Walsh. Signature of Transferee
Signature of Witness  HOLLY LYN THOMPSON  Name of Witness (BLOCK LETTERS)  25 CORRINGLE CL. HIMPROOFICE  Address of Witness 2913	Signature of A ransferce

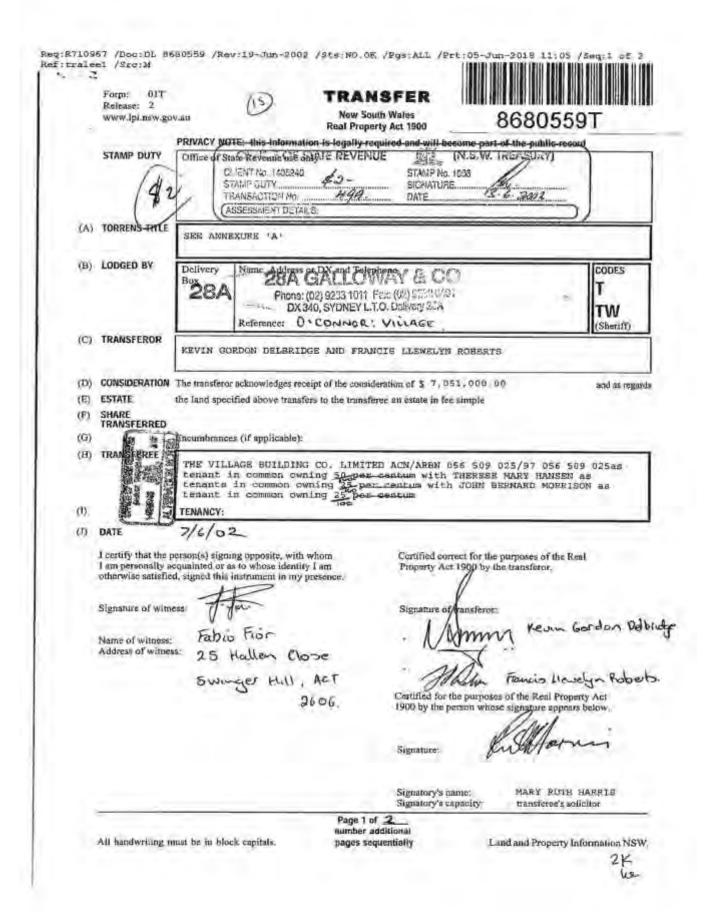
Req:R655970 /Doc:DL 6220649 /Rev:23-Dot-1999 /Sts:NO.OK /Pgs:ALL /Prt:25-May-2018 08:42 /Seq:3 of 3 Ref:tralee1 /Sro:M

## TITLE REFERENCE UPDATE ANNEXURE

Dealing Number .....

TITLE REFERENCE	NOW BEING
9275-217	1/213249
3820-154	226/665411
	1-6/224095
	1/651918
	3/239080
	6/239080
	4316-172 A/C
	4788-124 A/C
	8655-144 A/C
Manual Ref.	
3817-132	
Pt por 12, 66,68 89	1, 103, 108, 107
por. 107, 181)	

10-1270



Req:R710967 /Doc:DL 8680559 /Rev:L9-Jun-2002 /Sts:NO.OK /Pgs;ALL /Prt:05-Jun-2018 11:05 /Seq:2 of 2 Ref:tralee1 /Sro:M

FILM WITH \$68055

## ANNEXURE 'A'

Auto Consol 4788-124

Auto Consol 3817-132

Auto Consol 8655-144

Auto Consol 4316-172

Folio Identifier 3/239080

Folio Identifier 6/239080

Folio Identifier 226/665411

Folio Identifier 1/651918

Folio Identifier 1/213249

Folio Identifier 1/224095

Folio Identifier 2/224095

Folio Identifier 3/224095

Folio Identifier 4/224095

Folio Identifier 5/224095

Folio Identifier 1/1039904



REL	Form: Release:	ED	.au		TRANS  New South Real Property	Wales Act 1900	DEL STREET, ST	20599U	
12	STAMP JUN 200	DUTY		IOTE: this inform State Revenue us	nation is legally requ e only	ired and will becom	NEW SOUTH 1 15-05-2003 SECTION 18	MALES DUTY 0001244	656-00:
ME:	2.19	5					DUTY	1 111111111	K88882.00
(A)	TORREN	S TITLE	OPE AN	NEXURE 'A'	HERETO				T
(B)	LODGED	ВУ	Delivery Box	J Name, Address 39U & Phone: (02	Second PX and Teleph Ball OV legal ser by 9233 1011 Fax: (02	Vays vices ) 9232 6491		T TW	
(C)	TRANSF	EROR	JOHN B	Reference:		no - Mor		(Sheri	
(D) (E) (F)	ESTATE SHARE TRANSF		the land sp	ecified above tra	receipt of the consideransfers to the transference of the transfer	ce an estate in fee sir		and as	regards
(H)	TRANSF	EREE	_	nces (if applicable	ing co. Limite	D ACN 056 50	09 025		
(H) (I)			THE VI	LLAGE BUILD	ING CO. LIMITE	) ACN 056 50			
(H)	DATE I certify I am per otherwise Signatur	that the property as	TENANCY  OUTO  Decreon(s) signatured of d, signed the	SER, 26 gning opposite, was as to whose identification instrument in	ING CO. LIMITED	Certified correct Property Act 19 Signature of tra	et for the purposes 900 by the transfe		
(H) (I)	DATE I certify I am per otherwise Signatur	that the personally a see satisfies the of witness:	TENANCY  OUTO  Decreon(s) signatured of d, signed the	SER, 26 gning opposite, was as to whose identification instrument in	ING CO. LIMITED	Certified correct Property Act 19 Signature of tra	et for the purposes 900 by the transfe	teal Property Act	
(H) (I)	DATE I certify I am per otherwise Signatur	that the personally a see satisfies the of witness:	TENANCY  OUTO  Decreon(s) signatured of d, signed the	SER, 26 gning opposite, was as to whose identification instrument in	ING CO. LIMITED	Certified correct Property Act 19 Signature of tra	et for the purposes 900 by the transfe ansferor:	teal Property Act	
(H) (I)	DATE I certify I am per otherwise Signatur	that the personally a see satisfies the of witness:	TENANCY  OUTO  Decreon(s) signatured of d, signed the	SER, 26 gning opposite, was as to whose identification instrument in	ING CO. LIMITED	Certified correct Property Act 19 Signature of tra	et for the purposes 900 by the transfe ansferor:	teal Property Act	
(H) (I) (J)	DATE I certify I am per otherwis Signatur Name or Address	that the personally assessment of witnesses of witnesses	TENANCY  OUTO  Decreon(s) signatured of d, signed the	LLAGE BUILD  SER, 26 gning opposite, vor as to whose ide ais instrument in  Corbell  ANBER	ING CO. LIMITED	Certified correct Property Act 19 Signature of tra Certified for the 1900 by the pers Signature: Signatory's name Signatory's cap	et for the purposes 900 by the transferansferor:	teal Property Act	

Req:R655800 /Doc:DL 9620599 /Rev:19-Jun-2003 /Sts:NO.OK /Pgs:ALL /Prt:25-May-2018 08:23 /Seq:2 of 2 Ref:tralee1 /Src:M

# (b)<sub>[]</sub> ANNEXURE 'A'

Record of the plan - the Folio Identifier 1/213249 Folio Identifier 1/224095 / Folio Identifier 2/224095 & Dr 105 2367 Folio Identifier 3/224095 Folio Identifier 4/224095 6 Folio Identifier 5/224095 & Folio Identifier 3/239080 Folio Identifier 6/239080 Folio Identifier 1/651918 Folio Identifier 226/665411 € W Folio Identifier 1/1039904 / Auto Consol 3817-132 6 50 Auto Consol 4316-172 < Acquirering ple-with a 623200 Auto Consol 4788-124 Auto Consol 8655-144 5 24

This is the annexure marked 'A' referred to in Transfer from John Bernard Morrison as Transferor to The Village Building Co. Limited as Transferee

	Form: 01T Release 4.0 www.lpma.nsw.	ov.au		TRAN New Sout Real Proper	CO. Transport	AG6	1776	
	by this form for the Register is m	r the establish	the Real Property A ment and mainte any person for se	ct 1900 (RP Act) nance of the R	authorises the may real Property Act Rent of a fee, if any	egister) Sel	Unglast Revenu	OK Ver tedencez in
	DECAMBIPUTY	Office of Sta	te Revenue use onl	ly	0	Ment No: 40 May: \$10 and domain:		6297358
ME:	TORRENS TITLE	SEE ANNEX	CURE "A'"					
(B)	LODGED BY	Document Collection Box 392 C		LEGAL AG	3.7.0			CODES T TW
(C)	TRANSFEROR	JOHN BERN	NARD MORRISON	•	rque			
(D) (E)		The second secon	acknowledges rece tioned land transfe		eration of \$ 182,3 ree an esta	08.89 te in fe	e simple	and as rega
(F) (G)	SHARE TRANSFERRED	99/10000 Encumbrance	(if applicable): _					
3159	TRANSFERRÉD	Encumbrance	GE BUILDING	co. may Lin	MITED A.C.N. 0	56 509 0 36 14 14	4914978	F STATE REVENUE  TREASURY  49
(G) (H)	TRANSFERRÉD	THE VILL	GE BUILDING	2000	6 6 116	COC 51	ALTER	ATION NOTED
(G) (H)	TRANSFERRED TRANSFEREE  DATE I certify that the I am personally a	THE VILLY TENANCY:  Decreon(s) signification of the control of the	GE BUILDING	choord ov	6 6 116	X /	ALTERU HG/636 poses of the Re	ATION NOTED
(G) (H)	TRANSFERRED TRANSFEREE  DATE I certify that the I am personally a	THE VILLY TENANCY:  Decreon(s) signing equainted or as ad, signed this in	AGE BUILDING	hom I am resence.	OFF Certified correc	t for the pur	ALTERU HG/636 poses of the Re	ATION NOTED
(G) (H)	TRANSFERRED TRANSFEREE  DATE I certify that the plam personally a otherwise satisfie	THE VILLE TENANCY:  Decreon(s) signing equainted or as ad, signed this in the sess:  KEN	ng opposite, with w to whose identity nstrument in my pr	rhom I am resence.	OFF Certified correc Property Act 15 Signature of tra	t for the pur	ALTERU HG/636 poses of the Re	ATION NOTED
(G) (H)	TRANSFERRED TRANSFEREE  DATE I certify that the I am personally a otherwise satisfic Signature of with	THE VILLE TENANCY:  Decreon(s) signing equainted or as ad, signed this in the sess:  KEN	oge BUILDING TO THE TO	hom I am resence.	OFF Certified correc Property Act 15 Signature of tra	t for the pur 900 by the tr	4914978 ALTER ACIONE Poses of the Reansferor	ATION NOTED
(G) (H) (I)	TRANSFERRED TRANSFEREE  DATE I certify that the I am personally a otherwise satisfic Signature of with	THE VILLY TENANCY:  Derson(s) signine equainted or as add, signed this in the sess:  KEN	ng opposite, with we to whose identity instrument in my property of the control o	hom I am resence.	OFF Certified correc Property Act 15 Signature of tra	t for the pur 2000 by the tr	4914976 ALTER  AG/G/G/G/G  poses of the Real  es of the Real	ATION NOTED  97 eal
(G) (H) (I)	TRANSFERRED  TRANSFEREE  DATE  I certify that the process of the state of witness and the state of witness address ad	THE VILLY TENANCY:  Derson(s) signine equainted or as add, signed this in the sess:  KEN	ing opposite, with we to whose identity instrument in my property of the control	hom I am resence.	OFF Certified correc Property Act 19 Signature of tra	t for the pur 2000 by the tr	4914976 ALTER  AG/G/G/G/G  poses of the Real  es of the Real	459 ATION NOTED 97 eal
(G) (H) (I) (J)	TRANSFERRED  TRANSFEREE  DATE  I certify that the plant personally a otherwise satisfie signature of with Name of witness. Address of witne	THE VILLE TENANCY:  Derson(s) signin equainted or as d, signed this in ess:  KEN	oge BUILDING  og opposite, with w to whose identity nstrument in my pr  NNETH EDW  SOLICIT TFloor, 32-38 T Phillip ACT	hom I am resence.	Certified correct for Act 1900 by the per	t for the purpose of	4914976 ALTER  AG/G/G/G/G  poses of the Real  es of the Real	Property ars below.

Req:R655802 /Doc:DL AG617768 /Rev:09-Mar-2012 /Sts:SC.OK /Pgs:ALL /Prt:25-May-2018 08:23 /Seq:2 of 2 Ref:traleel /Src:M

Annexure A to Transfer

Parties:

JOHN BERNARD MORRISON SALE TO THE VILLAGE BUILDING CO. LIMITED A.C.N. 056 509 025

Dated

Schedule of Land

The Transferor's 375/10000 share of

Lot 1 DP 213249
Lot 1 DP 224095
Lot 2 DP 224095
Lot 3 DP 224095
Lot 5 DP 224095
Lot 5 DP 224095
Lot 3 DP 239080
Lot 6 DP 239080
Lot 1 DP 651918
Lot 226 DP 665411
Lot 1 DP 1039904

Auto Consol 3817-132 Auto Consol 4316-172 Auto Consol 4788-124 Auto Concol 8655-144

0/1/6

Version: 2.1 (0612)

Page 2 of 2

	Form: 01T Release: 4,0 www.fpcna.nsw.g PRIVACY NOTE: by this form for the Posister is m	TRAM  New Sout  Real Property Section 31B of the Real Property Act 1900 (RP Act) the establishment and maintenance of the R ade available to any person for search upon paym	h Wales ty Act 1990 authorises the	AG61776	
	STAMP DUTY	Office of State Revenue use only	Clian	No: 4014978 \$10	458 629740
(A)	TORRENS TITLE	SEE ANNEXURE "A"			
(8)	LODGED BY	Document Collection SYDNEY LEGAL ACT SYD	ENTS		CODES T T
(C)	TRANSFEROR	THERESE MARY HANSEN (D	The second		-]
(D) (E) (F)	CONSIDERATION ESTATE SHARE	The transferor acknowledges receipt of the considerate abovementioned land transfers to the transfer 275/10000		7.00 in fee simple	and as reg
(G)	TRANSFERRED	Encumbrances (if appliesble):			
(H)	TRANSFEREE	THE VILLAGE BUILDING CO. 🗪 LIN		The second secon	EASUNY
(1)	DATE 21	TENANCY TENANTS IN COMMON THE VILLAGE AND THE TEMPINING TETS		AS TO 275 HOLD ATTEDATION AS AG 163 69	N NOTED!
(0)	I certify that the p	erson(s) signing opposite, with whom qualified or as to whose identity I am d, signed this instrument in my presence.	Certified correct f Property Act 1906	or the purposes of the Re- 0 by the transferor.	
	Name of witness: Address of witnes	Richard Kingham Nesbitt  S. GILLESPIE - JONES & CO.	Signature of trans	Same	
		Suite 1, First Floor			
		Suite 1, First Floor 22-24 Townsville Street FYSHWICK_A.C.T. 2609 RELODGED		he purposes of the Real P on whose algoriture appear	
		22-24 Townsville Street FYSHWICK_A.C.T. 2609 RELODGED  2 2 FEB 2012			
		22-24 Townsville Street FYSHWICK_A.C.T. 2609 RELODGED	Act 1900 by the perso	m whose Agoniture appear	

Req:R655803 /Doo:DL AG617769 /Rev:O9-Mar-2012 /Sts:SC.OK /Pgs:ALL /Prt:25-May-2018 08:23 /Seq:2 of 2 Ref: traleel /Sro:M \_ Annexure to Transfer Parties; THERESE MARY HANSEN SALE TO THE VILLAGE BUILDING CO. LIMITED A.C.N. 056 509 025 Dated Schedule of Land 2509/10000 share of 175 The Transferor's Lot Lot 1 Lot 2 DP 224095 DP 224095 Lot 3 DP 224095 Lot 4 Lot 5 Lot 3 DP 224095 DP 224095 DP DP 239080 DP 651918 Lot 6 Lot 1 DP Lot 1 DP 1039904 Auto Consol 3817-132 Auto Consol 4316-172 Auto Consol 4788-124 Auto Concol 8655-144 Chart James

Version: 2.1 (0612)

Page 2 of 2

	Release: 4-1	WC TRANS without monetary New South Real Property	Wales AI486036L
	by this form	E. Section 31B of the Real Property Act 1900 (RP Act) at for the establishment and maintenance of the Re made available to any person for search upon payment	uthorises the Registrar General to collect the Information requal Property Act Register. Section 868 RP Act requires
	STAMP DUTY	Office of State Revenue use only	19-03-2014 0007498754- 19-03-2014 0007498754- TEAMSER DUTINGLE RHOUNT \$ ******1,524,67 DUTY \$ *****69,449,50
(A)	TORRENS TITE	SEE AMMEXURE "A"	DUTY 7 3543507, 937,30
(B)	LODGED BY	SYDNEY LEGAL A 392 C LLP: 128005 Y	1
(C)	TRANSFEROR	Reference: O'CONNO HELENA JOHANNA MORRISON	2 105126
(E)	ESTATE	IN SEE ANNEXURE "A" and as regards the above land transfers to the trans	force an estate in fee simple
(F)	TRANSFERRE	WHOLE	
(G)		Encumbrances (if applicable):	
(H)	TRANSFEREE	THE VILLAGE BUILDING CO LIMITED	ACN 056 509 025
(1)	- T	TENANCY:	
in.	DATE2		
CIV	recently rame	n eligible witness and that the transferor ling in my presence. w)	Certified correct for the purposes of the Real Property 1900 by the transferor.
(J)	[See note* bel		
(a)	Signature of w	iness: ANG SA	Signature of transferor:
(i)	[See note* bel	88 Cailed to the Francis	Signature of transferor
(I)	[See note* bel- Signature of w Name of witne	ss. Or helle known ton	A STATE OF THE STA
(a)	[See note* bel- Signature of w Name of witne	ss. Or helle known ton	Certified correct for the purposes of the Real Property A
(a)	[See note* bel- Signature of w Name of witne	ss. Or helle known ton	Certified correct for the purposes of the Real Property A 1900 on behalf of the transferee by the person whose signature appears below

Req:R712195 /Doo:bL A1486036 /Bev:D4-Apr-2014 /Sts:NO.OK /Pgs:ALL /Prt:O5-Jun-2018 12:18 /Seq:2 of 2 Ref:tralee1 /Src:M

#### Annexure A to Transfer

Parties: HELENA JOHANNA MORRISON Transfer to

THE VILLAGE BUILDING CO LIMITED ACN 056 509 025

Dated 27, 03,11+

## (A) TORRENS TITLE

The Transferor's 875/10000 share of

1/213249 1/651918 1/1039904 1/224095 2/224095 3/224095 4/224095 5/224095 3/239080 6/239080 226/665411

AUTO CONSOL 8855-144 AUTO CONSOL 3817-132 AUTO CONSOL 4316-172 AUTO CONSOL 4788-124

### (D) CONSIDERATION

PURSUANT TO CONSENT ORDERS MADE IN THE FAMILY COURT OF AUSTRALIA AT SYDNEY NO. SYC 2405 OF 2011 DATED 24 JULY 2013

43

Page 2 of 2

	Form: 10CN Release: 5-3	4	CHANGE OF NAI  New South Wales Real Property Act 1900  AI696791A
	by this form fo	or the establis	of the Real Property Act 1900 (RPAct) authorises the Register Section 96B RP Act requires that to any person for search upon payment of a fee, if any.
A)	TORRENS TITLE		Y,6/239080,226/665411,Auto Consol 8655-144,Auto Consol 3817-132
8)	REGISTERED DEALING	Number	Torrens Title
C)	LODGED BY	Document Collection Box	Name, Address or DX, Telephone, and Customer Account Number if any COMMONINGALTH DANK OF AUSTRALIA LLPN:123836E
		24J	Reference: CD9022502N6 464-38/8
D)	REGISTERED PROPRIETOR	Whose nam	e is to be changed; show the name as it currently appears on the Torrens Title  AGE BUILDING CO LIMITED ACN 056 509 025 **
3)	NEW NAME	Of the above	e registered proprietor in full AGE BUILDING CO. LIMITED ACN 056 509 025
	contacting the re		hat land and hereby consents to the Registrar General
3)	statutory DEC 1. Lober solemnly and sin 1. I am the sin 2. on	CLARATION BY -+ L accrety declare	authorities to validate any supporting evidence lodged with this application.  THE APPLICANT®  1:100 0f 26 Lane Poole Place YARRA LUMIA ACT 2600
	STATUTORY DEC I. Lobert solemnly and sin I. I am the sin 2. on I married	Company Di	authorities to validate any supporting evidence lodged with this application.  THE APPLICANT*  JANA OF 26 Lane POOIE Place YARRALUMIA ACT 2600 that—  rector/secretary of the Company referred to above.
	statutory DEC  I. Lobber  solemnly and sin  I. I am the in  2. on     I married  3. Company r  I make this solen for the making o	ARATION BY  L  Accrety declare  Company Di  name was in  mn declaration  false statemen	authorities to validate any supporting evidence lodged with this application.  THE APPLICANT®  I AND OF 26 Lane POOIE Place YARRALUMIA ACT 2600 that—  rector/secretary of the Company referred to above.  at in the
	statutory DEC  I. Low the solemnly and sin  I. I am the sin  2. on    I married  3. Company r  I make this solen for the making o to be true in ever  Made and subscript the presence of  Justice of the  Other qualific	ARATION BY  Accrety declare Company Di  name was in  mn declaration f false statement y particular, an ibed at M.  of Janes Peace (J.P. Num ded witness [spec	authorities to validate any supporting evidence lodged with this application.  THE APPLICANT*  I And of 26 Lane Poole Place YARRAL UMLA ACT 2600 that—  rector/secretary of the Company referred to above at in the  incorrectly noted on the original transfer  by virtue of the Statutory Declarations Act 1959, and subject to the penalties provided by that Act ants in statutory declarations, conscientiously believing the statements contained in this declaration and I certify this application to be correct for the purposes of the Real Property Act 1900.  Iddel in the Australian Capital Territory on 1 106/20 14  McCorrect of Car Landa Cut - Analysis Au Carbon MCT (1969)
	statutory DEC  I. Looker solemnly and sin  I. I am the sin  2. on I married  3. Company r  I make this solen for the making o to be true in ever Made and subscript the presence o  Justice of the Other qualifies  who certifies the satisfied that if  2. I have known	cerely declare Company Di mame was in min declaration fulse statement y particular, art ibod at M.  for Janes Peace (J.P. Num bed witness fispe the following in of the person he person had	authorities to validate any supporting evidence lodged with this application.  THE APPLICANT*  Line of 26 Lane Poole Place YARRA Lunca ACT 2600 that—  rector/secretary of the Company referred to above.  at in the  necorrectly noted on the original transfer  by virtue of the Statutory Declarations Act 1959, and subject to the penalties provided by that Act has in statutory declarations, conscientiously believing the statements contained in this declaration and I certify this application to be correct for the purposes of the Real Property Act 1900.  Ideal in the Australian Capital Territory on 1 106/20 (4 of Carlot Landa cetter Angles Act Carlot Act Carl
	statutory DEC  I. Look solemnly and sin  I. I am the it  2. on I married  3. Company r  I make this solen for the making o to be true in ever Made and subscript the presence o  Justice of the Other qualifies  I. I saw the face satisfied that it  I have known the document  Signature of with	mame was in the person had- the person had- the person for it- relied on was in the person for it- the perso	THE APPLICANT  I had of 26 Lane Poole Place YARRA Lumina ACT 2600 that— rector/secretary of the Company referred to above at in the  mecorrectly noted on the original transfer  by virtue of the Statutory Declarations Act 1959, and subject to the penalties provided by that Act has in statutory declarations, conscientiously believing the statements contained in this declaration and I certify this application to be correct for the purposes of the Real Property Act 1900.  I had in the Australian Capital Territory on 11 106/2014  of Car Lander cut a Annalise Act 1969 and subject to the penalties provided by that Act had a property Act 1900.  I had the control of the purposes of the Real Property Act 1900.  I had a subject to the person who made it:  OR I did not see the face of the person becomes the person who made it:  OR I did not see the face of the person becomes the person was wearing a face covering, but I am a special justification for not removing the covering; and at least 12 months OR I have confirmed the person's identity using an identification document and 10 to 100 to
	statutory DEC  I. Lond the  Solemnly and sin  I. I am the sin  2. on  I married  3. Company r  I make this solen for the making o to be true in ever  Made and subscription of the  Other qualifies  Who certifies to  I saw the face satisfied that if  I have known the document-  Signature of with  As the service lodgment. • If	mame was in the person had be person for it relied on was inserted.	authorities to validate any supporting evidence lodged with this application.  THE APPLICANT*  I AND OF 26 Lane POOIE Place YARRAL UMLA ACT 2600 that— rector/secretary of the Company referred to above at in the  Incorrectly noted on the original transfer  by virtue of the Statutory Declarations Act 1959, and subject to the penalties provided by that Act his in statutory declarations, conscientiously believing the statements contained in this declaration and I certify this application to be correct for the purposes of the Real Property Act 1900.  I child in the Australian Capital Territory on 11 106/20 (4  of Car London cut - Analys Act Carbon ACT  mber. 200 1165  I Practising Solicitor  cify)  natters concerning the making of this statutory declaration by the person who made it:  OR 1 did not see the fine of the person because the person was wearing a face covering, but I am a special justification for not removing the covering; and at least 12 months OR Lhave confirmed the person's identity using an identification document and the statutory of the person's identity using an identification document and the statutory of the person's identity using an identification document and the statutory of the person's identity using an identification document and the statutory of the person's identity using an identification document and the person's identity using an identification document and the person of the person is identity using an identification document and the person of the person is identity using an identification document and the person is identity using an identification document and the person is identity using an identification document and the person is identity using an identification document and the person is identity using an identification document and the person is identity using an identification document and the person is identity using an identification document and the person is identity using an identification document and the person is identity using an identification document and the person







NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 6/239080

-

SEARCH DATE TIME EDITION NO DATE
24/5/2018 10:43 PM 16 1/7/2014

LAND

LOT 6 IN DEPOSITED PLAN 239080

AT TRALEE

LOCAL GOVERNMENT AREA QUEANBEYAN-PALERANG REGIONAL PARISH OF QUEANBEYAN COUNTY OF MURRAY TITLE DIAGRAM DP239080

FIRST SCHEDULE

THE VILLAGE BUILDING CO. LIMITED

(CN AI696791)

SECOND SCHEDULE (2 NOTIFICATIONS)

----

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 A1696794 MORTGAGE TO COMMONWEALTH BANK OF AUSTRALIA

NOTATIONS

------

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

tralee

PRINTED ON 24/5/2018

\* Any entries proceeded by an asserties do not appear on the current extrem of the Certificate of Title, Warming: the information appearing sider installation has not been terminally resourced of the Registric Institute in approved by the State S

Copyright © Office of the Augustral-General 2018

Secret: \$105/2010 22:43:15

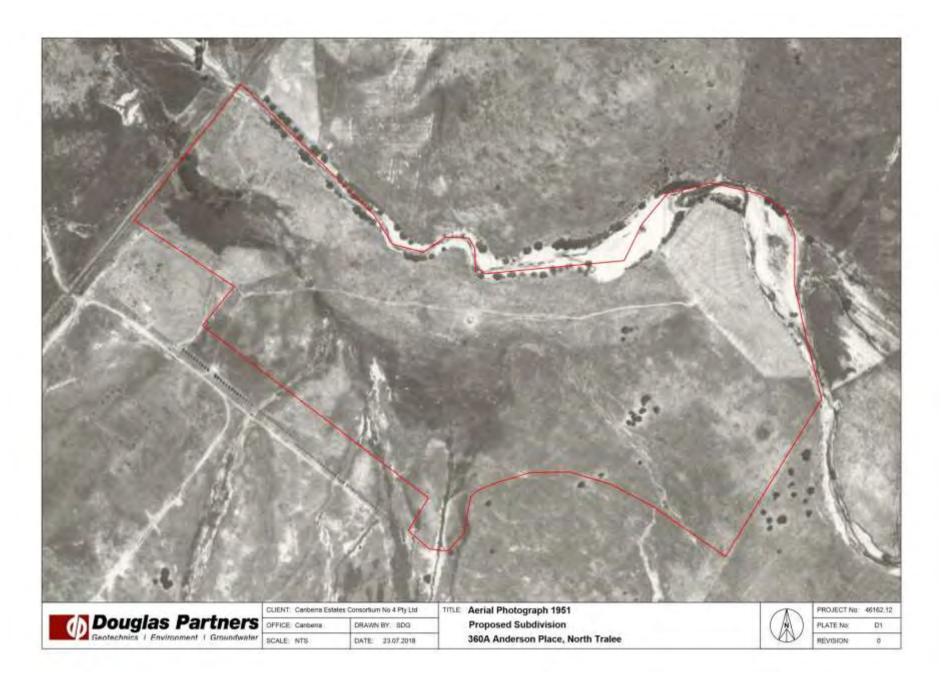




















Photo 1: View of the site from the north west corner looking south-east



Photo 2: View of the site from the north west corner looking east



Site Photographs		PROJECT:	46162.12
360A	Anderson Place	Plate	1
Tralee	, NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 3: View of the site from the north west corner looking south



Photo 4: View of the north-east corner of the site, looking east



Site P	hotographs	PROJECT:	46162.12
360A	Anderson Place	Plate	2
Tralee	, NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 5: View of Jerrabomberra Creek to the north of the site



Photo 6: View of the filling embankment to surrounding the race track



Site Photographs		PROJECT:	46162.12
360A Anderson Place		Plate	3
Tralee	, NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 7: View of the race track area



Photo 8: View of buildings adjacent to the race track area



Site Photographs		PROJECT:	46162.12
360A Anderson Place		Plate	4
Tralee	, NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 9: View of potential hazardous building materials



Photo 10: View of buildings adjacent to the race track area



Site Photographs		PROJECT:	46162.12
360A Anderson Place		Plate	5
Tralee	, NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 11: View of potential hazardous building materials



Photo 12: View of former building footprints



Site P	hotographs	PROJECT:	46162.12
360A Anderson Place		Plate	6
Tralee	, NSW	REV:	A
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 13: View of former building footprints



Photo 14: View of stockpiles of building and demoliton rubble



Site Photographs		PROJECT:	46162.12
360A Anderson Place		Plate	7
Tralee	, NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 15: View of stockpiles of building and demoliton rubble



Photo 16: View of race track area



Site Photographs		PROJECT:	46162.12
360A	Anderson Place	Plate	8
Tralee	, NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 17: View of landfill area



Photo 18: View of landfill area



Site Photographs		PROJECT:	46162.12
360A Anderson Place		Plate	9
Tralee	, NSW	REV:	A
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18





Photo 21: View of soakaway adjacent to race track buildings



Photo 22: View of stockpiles to the east of the race track area



Site Photographs		PROJECT:	46162.12
360A Anderson Place		Plate	-11
Tralee	, NSW	REV:	A
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18



Photo 23: View of soakaway adjacent to former homestead building



Photo 24: View of toilet block adjacent to the southern boundary



Site Photographs		PROJECT:	46162.12
360A Anderson Place		Plate	12
Tralee	NSW	REV:	Α
Client	Canberra Estates Consortium No. 4 Pty. Ltd	DATE:	13-Jul-18

# Soil Descriptions



## **Description and Classification Methods**

The methods of description and classification of soils and rocks used in this report are based on Australian Standard AS 1726, Geotechnical Site Investigations Code. In general, the descriptions include strength or density, colour, structure, soil or rock type and inclusions.

#### Soil Types

Soil types are described according to the predominant particle size, qualified by the grading of other particles present:

Туре	Particle size (mm)
Boulder	>200
Cobble	63 - 200
Gravel	2.36 - 63
Sand	0.075 - 2.36
Sill	0.002 - 0.075
Clay	<0.002

The sand and gravel sizes can be further subdivided as follows:

Туре	Particle size (mm)				
Coarse gravel	20 - 63				
Medium gravel	6 - 20				
Fine grave/	2.36 - 6				
Coarse sand	0.6 - 2.36				
Medium sand	0.2 - 0.6				
Fine sand	0.075 - 0.2				

The proportions of secondary constituents of soils are described as:

Term	Proportion	Example			
And	Specify	Clay (60%) and Sand (40%)			
Adjective	20 - 35%	Sandy Clay			
Slightly	12 - 20%	Slightly Sandy Clay			
With some	5-12%	Clay with some sand			
With a trace of	0 - 5%	Clay with a trace of sand			

Definitions of grading terms used are:

- Well graded a good representation of all particle sizes
- Poorly graded an excess or deficiency of particular sizes within the specified range
- Uniformly graded an excess of a particular particle size
- Gap graded + a deficiency of a particular particle size with the range

#### Cohesive Soils

Cohesive soils, such as clays, are classified on the basis of undrained shear strength. The strength may be measured by laboratory testing, or estimated by field tests or engineering examination. The strength terms are defined as follows:

Description	Abbreviation	Undrained shear strength (kPa)			
Very soft	vs	<12			
Soft	\$	12 - 25			
Firm	f	25 - 50			
Stiff	st	50 - 100			
Very stiff	vst	100 - 200			
Hard	h	>200			

### Cohesionless Soils

Cohesionless soils, such as clean sands, are classified on the basis of relative density, generally from the results of standard penetration tests (SPT), cone penetration tests (CPT) or dynamic penetrometers (PSP). The relative density terms are given below:

Relative Density	Abbreviation	SPT N value	CPT qc value (MPa)
Very loose	VI.	₹4	<2
Loose	1	4 - 10	2-5
Medium dense	md	10 - 30	5-15
Dense	d	30 - 50	15 - 25
Very dense	yd	>50	>25

# Soil Descriptions

#### Soil Origin

It is often difficult to accurately determine the origin of a soil. Soils can generally be classified as:

- Residual soil derived from in-situ weathering of the underlying rock;
- Transported soils formed somewhere else and transported by nature to the site; or
- Filling moved by man.

Transported soils may be further subdivided into:

- Alluvium river deposits
- Lacustrine lake deposits
- · Aeolian wind deposits
- · Littoral beach deposits
- · Estuarine tidal river deposits
- Talus scree or coarse colluvium
- Slopewash or Colluvium transported downslope by gravity assisted by water.
   Often includes angular rock fragments and boulders

# Rock Descriptions



#### Rock Strength

Rock strength is defined by the Point Load Strength Index (Is(50)) and refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects. The test procedure is described by Australian Standard 4133.4.1 - 1993. The terms used to describe rock strength are as follows:

		Point Load Index (5(50) MPa	Approx Unconfined Compressive Strength MPa*
Extremely low	EL	< 0.03	<0,6
Very low	VL 003-01		0.6 - 2
Low	L	0.1 - 0.3	2 - 6
Medium	M	0.3 - 1.0	6 - 20
High	gh H 1-3		20 - 60
Very high VH 3		3-10	60 - 200
Extremely high	EH	>10	>200

<sup>\*</sup> Assumes a ratio of 20:1 for UCS to Is(80)

### Degree of Weathering

The degree of weathering of rock is classified as follows:

Term	Abbreviation	Description						
Extremely weathered	EW	Rock substance has soil properties, i.e. it can be remoulded and classified as a soil but the texture of the original rock is still evident.						
Highly weathered	HW	Limonite staining of bleaching affects whole of ro substance and other signs of decomposition are evide. Porosity and strength may be aftered as a result of in leaching or deposition. Colour and strength of original fre rock is not recognisable.						
Moderately weathered	MW	Staining and discolouration of rock substance has taken place						
Slightly weathered	htty weathered SW	Rock substance is slightly discoloured but shows little or no change of strength from fresh rock						
Fresh stained	Fs	Rock substance unaffected by weathering but staining visible along defects						
Fresh	Fr	No signs of decomposition or staining						

## Degree of Fracturing

The following classification applies to the spacing of natural fractures in diamond drill cores. It includes bedding plane partings, joints and other defects, but excludes drilling breaks.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with some fragments
Fractured	Core lengths of 40-200 mm with some shorter and longer sections
Slightly Fractured	Core lengths of 200-1000 mm with some shorter and loner sections
Unbroken	Core lengths mostly > 1000 mm

# Rock Descriptions

#### **Rock Quality Designation**

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index defined as:

RQD % = cumulative length of 'sound' core sections : 100 mm long total drilled length of section being assessed

where 'sourid' rock is assessed to be rock of low strength or better. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e. drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

## Stratification Spacing

For sedimentary rocks the following terms may be used to describe the spacing of bedding partings:

Term	Separation of Stratification Planes
Thinly laminated	<6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly-bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	>2 m

# Symbols & Abbreviations



#### Introduction

These notes summarise abbreviations commonly used on borehole logs and test pit reports.

## **Drilling or Excavation Methods**

C Core Drilling
R Rotary drilling
SFA Spiral flight augers
NMLC Diamond core - 52 mm dia
NQ Diamond core - 47 mm dia
HQ Diamond core - 63 mm dia
PQ Diamond core - 81 mm dia

#### Water

Water seep
Water level

## Sampling and Testing

Auger sample Bulk sample Disturbed sample E Environmental sample Undisturbed tube sample (50mm) Uso Water sample pocket penetrometer (kPa) pp Photo ionisation detector PID PL Point load strength (s(50) MPa Standard Penetration Test S Shear vane (kPa)

#### Description of Defects in Rock

The abbreviated descriptions of the defects should be in the following order. Depth, Type, Orientation, Coating, Shape, Roughness and Other. Drilling and handling breaks are not usually included on the logs.

## Defect Type

B Bedding plane
Cs Clay seam
Cv Cleavage
Cz Crushed zone
Os Decomposed seam
F Fault
J Joint

J Joint
Lam lamination
Pt Parting
Sz Sheared Zone
V Vein

Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

h horizontal
v vertical
sh sub-horizontal
sv sub-vertical

#### Coating or Intilling Term

cin clean co coating he healed inf infilled stn stained b light vn veneer

#### Coating Descriptor

ca calcite
cbs carbonaceous
cly clay
fe iron oxide
mn manganese
slt silty

### Shape

cu curved ir irregular pl planar st stepped un undulating

### Roughness

po polished ro rough sl slickensided sm smooth vr very rough

## Other

fg fragmented bnd band qtz quertz

# Symbols & Abbreviations

## Graphic Symbols for Soil and Rock

General		Sedimentary	Rocks
	Asphalt	229	Boulder conglomerate
0.500	Road base		Conglomerate
0000	Concrete		Conglomeratic sandstone
	Filling		Sandstone
Soils		=:=:=	Siltstone
	Topsoil		Laminite
	Peat	=====	Mudstone, claystone, shale
	Clay		Coal
	Silty clay		Limestone
	Sandy clay	Metamorphic	Rocks
	Gravelly clay	~~~~	Slate, phyllite, schist
	Shaly clay	+ + +	Gneiss
	Silt		Quartzite
	Clayey silt	Igneous Roc	ks
	Sandy silt	+++++	Granite
	Sand	< < < <	Dolerite, basalt, andesite
1/1/2	Clayey sand	× × × ×	Dacite, epidote
444444	Silty sand	~ ~ ~	Tuff, breccia
,0,0,d	Gravel	P	Porphyry
1000 P	Sandy gravel		
	Cobbles, boulders		
	Talus		

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

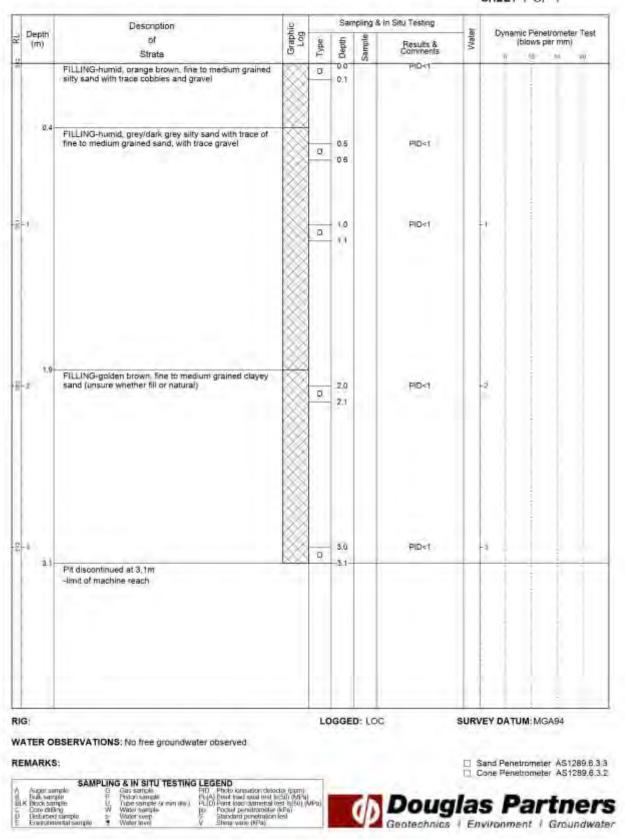
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 582 M AHD

EASTING: 698046 NORTHING: 6081625 PIT No: 1 PROJECT No: 46162.12

DATE: 21/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place

REMARKS: Test pil conducted halfway up embankment.

SAMPLING & IN SITU TESTING LEGEND

SURFACE LEVEL: 583 M AHD

EASTING: 698030 NORTHING: 6081637 PIT No: 2

PROJECT No: 46162.12 DATE: 21/6/2018 SHEET 1 OF 1

-		Description	E .		San		in Situ Testing	100	Delegando	Penetron	ofer tee
De (n	pin n)	of Strate	Graphic	Type	Depth	Sample	Results & Comments	Water	Dynamic (b)	bws per m	im)
		FILLING-humid, brown fine to medium grained gravelly sand, with some conglomerate cobbles, very dark grey with white gravel, slightly cemented, with trace pebbles		0	0.1	i	PID<1				
	0.3-	FILLING-humid, orange/brown, fine to medium grained clayey sand with trace gravel, slightly camented		o	0.5		PID<1				
					06						
241				D	- 10		PID<1	-	+		
4				D	2.0		PID-11		-ž		
	25	-at 2.3m, 3 black pipes  FILLING-damp, grey mottled prange/brown, fine to medium grained clayey sand		0	25		PID<1				
	2.7				2.6		-				
		Pit discontinued at 2.7m -limit of investigation							-1		
										-	
liG:	-1	SSERVATIONS: No free groundwater observed		LC	GGE	<b>D</b> : LOC		SURV	EY DATU	M: MGA94	,

Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

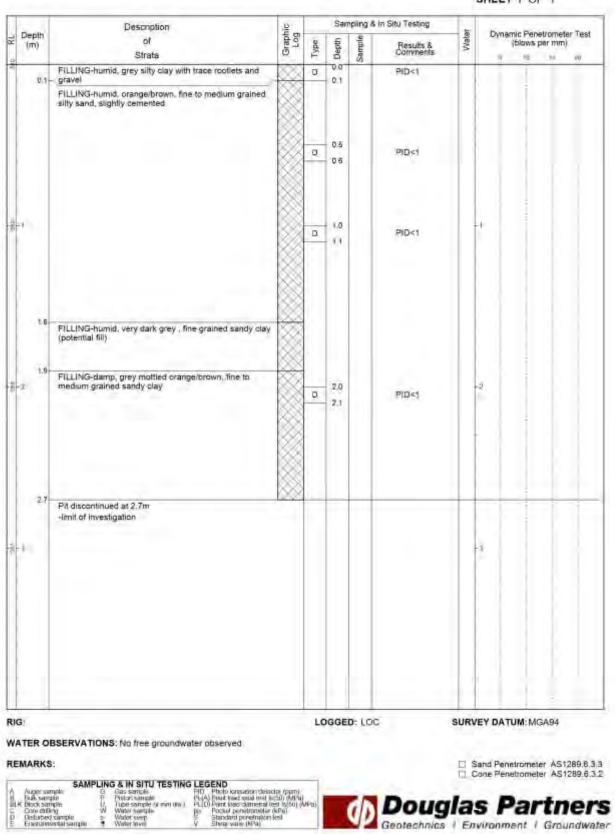
Geotechnics | Environment | Groundwater

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 590 M AHD

EASTING: 698023 NORTHING: 6081658 PIT No: 3 PROJECT No: 46162.12

DATE: 21/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

SAMPLING & IN SITU TESTING LEGEND

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 589 M AHD

EASTING: 698002 NORTHING: 6081672 PIT No: 4

PROJECT No: 46162.12 DATE: 21/6/2018 SHEET 1 OF 1

Donath	Description	PH F	Sampling & in S			n Situ Testing	Dynamic Penetrometer Test		
Depth (m)	of Strate	Graphic Log	Type	Depth	Sample	Results & Comments	Water	(blaws per mm)	
	FILLING-humid, light brown, fine to medium grained with trace gravel and some rootlets		0	0.1		PID<1			
, D:	FILLING-hund, fine to medium grained clayey sand — with trace gravel								
	-at 0.3m, ground compact, difficult for excavator to get through		o	0.4		PID<1			
	-at 0.5m, small pocket of grey and very dark grey. The to- medium grained sandy clay present in layer			06					
=1			D	1.0		PID<1		-1	
-2			O	2.0		PID<		-2	
2.	FILLING-damp, grey mottled orange/brown, fine to medium grained sandy clay								
2.	Pit discontinued at 2.5m -limit of investigation	200					Ī		
i i								÷	
			10	POPE	D: LOC		elip	VEY DATUM: MGA94	

Geotechnics | Environment | Groundwater

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 594 M AHD PIT No: 5

EASTING: 697983 NORTHING: 6081684 PIT No: 5

PROJECT No: 46162.12 DATE: 21/6/2018 SHEET 1 OF 1

Disease	Description	을.		San		in Situ Testing	100	Dynamic Penetrometer Test		
(m)	of Strata	Graphic	Type	Depth	Sample	Results & Comments	Water	(blaws per mm)		
0.05	FILLING-humid, brown fine to medium grained sandy silt with trace large gravel and rootlets	8	O	0.0		PID<1				
	FILLING-humid, golden brown, fine to medium grained silty sand, slightly cemented, with trace of conglomerate						Ш	į		
	cobbles (grey/slightly dark grey rock with white gravel)	88					Ш	K		
			o.	0,4		PID<1	Ш			
				06		200				
1										
-1			-	1.0		0.4		-1		
		80	D	0		PID<1				
		88								
1										
		88								
-2 2.0	FILLING-humid, very dark grey clay with trace of gravel		D	2.0		PID<1	Ш			
2.2		88		2.1						
	FILLING-damp, grey and brown/crange, fine to medium grained sandy clay	88					Ш			
2.4	Pit discontinued at 2.4m	1000					+			
	-ilmit of investigation									
							Ш			
-								-3		
							١.			
							-			
IG			10	COE	D: LOC		elib\	/EY DATUM:MGA94		
	BSERVATIONS: No free groundwater observed		20	JUE	J. 100		JUNI	E. WATERIONS		
EMARKS	The second secon						D S	Sand Penetrometer AS1289.8.		
	SAMPLING & IN SITU TESTING LEGEND							Cone Penetrometer AS1289.6.		
	ngdo G Gas semple PRD Photo ionserior desoci	Street, Square, or other party of the last								

Canberra Estates Consortium No 4 Pty Ltd CLIENT:

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 579 M AHD

PIT No: 6 **EASTING:** 697971 PROJECT No: 46162.12 NORTHING: 6081693 DATE: 21/6/2018 SHEET 1 OF 1

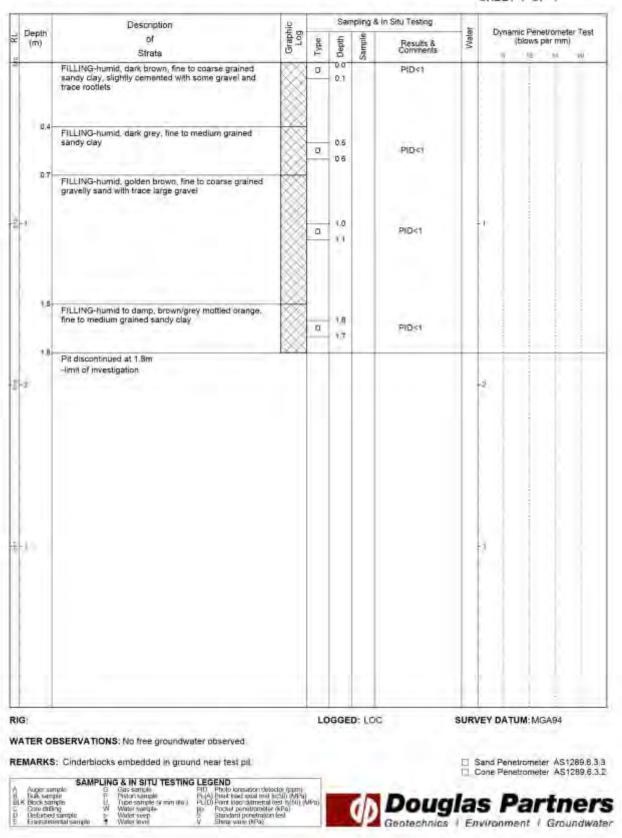
Physide	Description	HE -		San		in Situ Testing	*	Dynamic Penetrometer Test		
(m)	of Strate	Graphic	Туре	Depth	Sample	Results & Comments	Water	(blaws per mm)		
	FILLING-humid, golden brown fine to medium grained silty sand with trace rootlets and trace aluminium can		0	0.1		PID<1				
0.2	FILLING-humid, grey/dark grey day with trace of medium grained sand, slightly cemented						Ш			
	FILLING-humid, brown. Tine to medium grained silty sand, cemented		o.	0.5		PID<1				
	-at 0.7m, pocket of conglomerate gravel									
1			a	- 1.0		PID<1		-+		
7.8	FILLING-brownish grey moltied orange, fine to medium grained sandy clay	8%						-		
2			D	2.0		PID		-2		
10	Pit discontinued at 2.2m -limit of investigation							-1		
			LC	OGGE	<b>0</b> : LOC		SUR	VEY DATUM: MGA84		
			LC	GGE	D: LOC		SUR	VEY DATUM: MGA94		

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 580 M AHD

EASTING: 697946 NORTHING: 6081684 PIT No: 7 PROJECT No: 46162.12

DATE: 21/6/2018 SHEET 1 OF 1

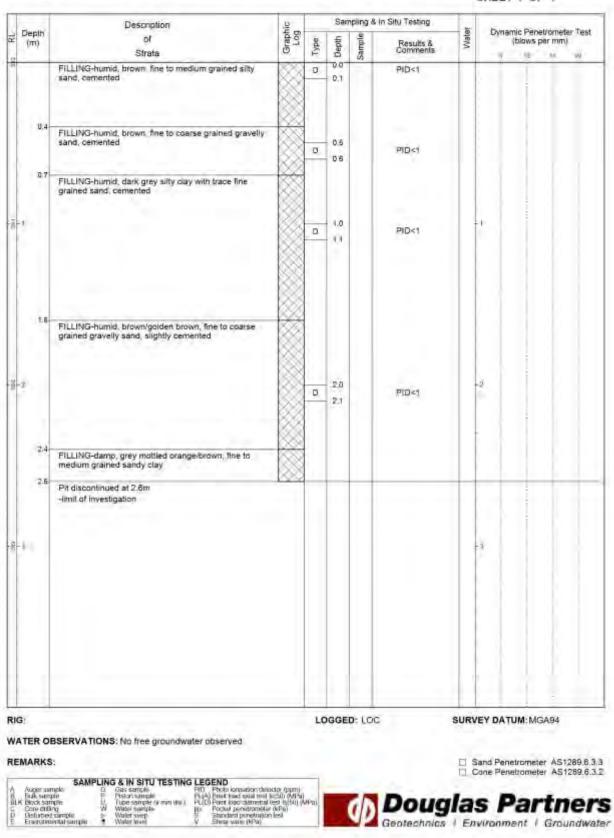


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 592 M AHD

EASTING: 697926 NORTHING: 6081678 PIT No: 8

PROJECT No: 46162.12 DATE: 21/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

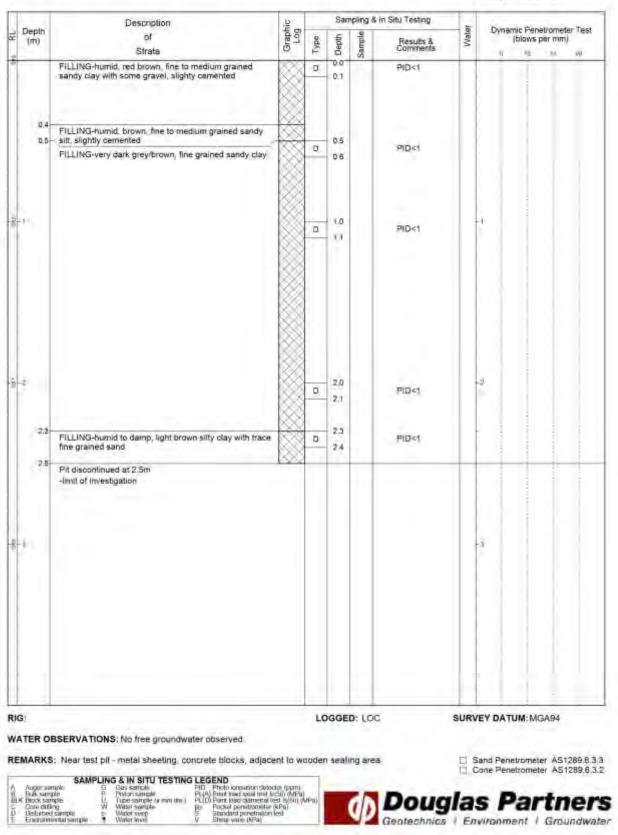
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 589 M AHD

EASTING: 697911 NORTHING: 6081668 PIT No: 9

PROJECT No: 46162.12 DATE: 22/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place

REMARKS: Adjacent to seating area

SAMPLING & IN SITU TESTING LEGEND

SURFACE LEVEL: 589 M AHD

EASTING: 697899 NORTHING: 6081646 PIT No: 10

PROJECT No: 46162.12 DATE: 22/6/2018 SHEET 1 OF 1

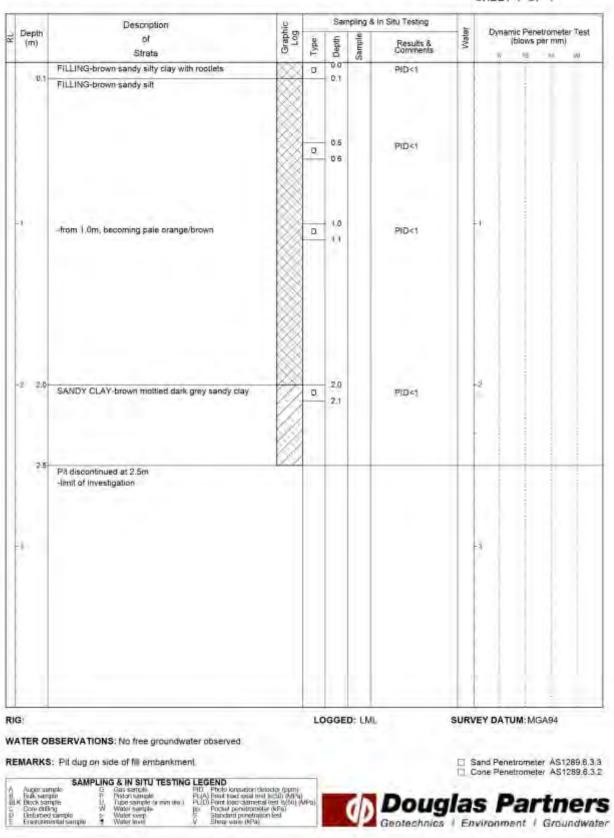
oth n)	**	T 40					Water				
"	of Strata	Graphic	Type	Depth	Sample	Results & Comments		Dj.	(blows	per mm)	er les
	FILLING-humid, brown fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe		0	0.1		PID<1					
			0	0.5		PlO<1					
4.7	FILLING-humid, very dark grey sitty clay with trace fine grained sand		D	1.0		PID<1		-1			
	-at 2.1m., aluminium can fragment		D	2.1		PIDE1		4			
2.7	FILLING-humid to damp, light brown mattled grey sifty clay with trace fine grained sand		۵	27		PION				1	
2.9	Pri discontinued at 2.9m	18382						-3		Ì	Ī
										=	
		FILLING-humid, brown, fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe  1.7  FILLING-humid, very dark grey silty clay with trace fine grained sand  -at 2.1m. aluminium can fragment  2.7  FILLING-humid to damp, light brown mottled grey silty clay with trace fine grained sand  2.9  Pri discontinued at 2.9m	FILLING-humid, brown fine to coarse grained sandy clay with some gravel, sightly cemented, with trace of steel pipe  The Filling-humid, very dark grey silty clay with trace fine grained sand  -at 2.1m. aluminium can fragment  Filling-humid to damp, light brown mottled grey silty clay with trace fine grained sand  Pri discontinued at 2.9m	FILLING-humid, brown fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe  0.7  FILLING-humid, very dark grey sitty clay with trace fine grained sand  0.7  -at 2.1m, aluminium can fragment  2.7  FILLING-humid to damp, light brown mottled grey sitty clay with trace fine grained sand  2.9  Pit discontinued at 2.9m	FILLING-humid, brown fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe  0.1  0.7  FILLING-humid, very dark grey sitty clay with trace fine grained sand  0.1  1.0  1.1  2.1  2.7  FILLING-humid to damp, light brown mottled grey sitty clay with trace fine grained sand  2.7  Pit discontinued at 2.9m	FILLING-humid, brown fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe 0.1  0.5  0.6  0.7  FILLING-humid, very dark grey slity clay with trace fine grained sand 0.1  -at 2.1m, aluminium can fragment 0.1  2.7  FILLING-humid to damp, light brown mottled grey slity clay with trace fine grained sand 0.2  2.7  FILLING-humid to damp, light brown mottled grey slity clay with trace fine grained sand 0.2  2.7  FILLING-humid to damp, light brown mottled grey slity clay with trace fine grained sand 0.2  2.9  Pit discontinued at 2.9m	FILLING-humid, brown, fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe  Do 0.5 PID<1  FILLING-humid, very dark grey sitty clay with trace fine grained sand  Do 0.5 PID<1  P	FILLING-humid, brown, fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe  Do 5	FILLING-humid, brown fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe  2.7 FILLING-humid, very dark grey sitty clay with frace fine grained sand  2.8 PID<1  2.9 PILLING-humid to damp, light brown mottled grey sitty clay with trace fine grained sand  2.7 FILLING-humid to damp, light brown mottled grey sitty clay with trace fine grained sand  2.8 Pilling fine grained sand  2.9 Pri discontinued at 2.9m limit of investigation  3.1 Pilling fine grained sand	FILLING-humid to damp, light brown mottled grey sitly    2.7 FILLING-humid to damp, light brown mottled grey sitly    2.7 FILLING-humid to damp, light brown mottled grey sitly    2.7 FILLING-humid to damp, light brown mottled grey sitly    2.8 Pilling-humid to damp, light brown mottled grey sitly    2.9 Pilling-humid to damp, light brow	FILLING-humid, brown fine to coarse grained sandy clay with some gravel, slightly cemented, with trace of steel pipe  0.1 PID<1  0.5 PID<1  0.7 FILLING-humid, very dark grey slity clay with trace fine grained sand  1.0 PID<1  1.1 PID<1  2.7 FILLING-humid to damp, light brown mottled grey slity clay with trace fine grained sand  2.7 FILLING-humid to damp, light brown mottled grey slity clay with trace fine grained sand  2.8 Pid damped and sand  2.9 Pid damped and sand  2.9 Pid damped and sand  2.9 Pid tinestypation  3.0 Pid Signature states and sand  2.9 Pid signature states and sand  3.9 Pid signature states and sand  3.0 Pid signature states and sand  3.0 Pid signature states and sand  3.0 Pid signature st

Sand Penetrometer AS1289.6.3.3

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: -EASTING: 698047 NORTHING: 6081655 PIT No: 11

PROJECT No: 46162.12 DATE: 25/6/2018

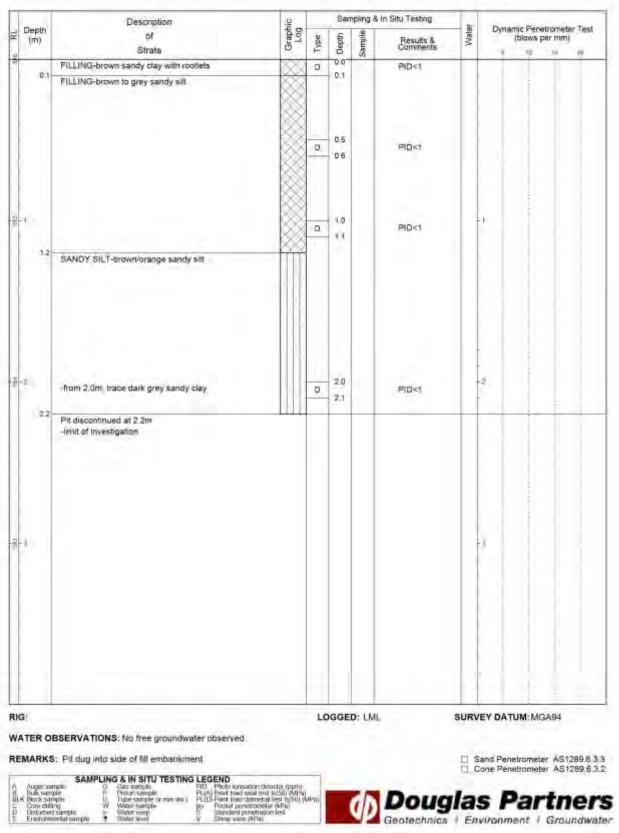


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 586 M AHD

EASTING: 698007 NORTHING: 6081700 PIT No: 12

PROJECT No: 46162.12 DATE: 25/6/2018

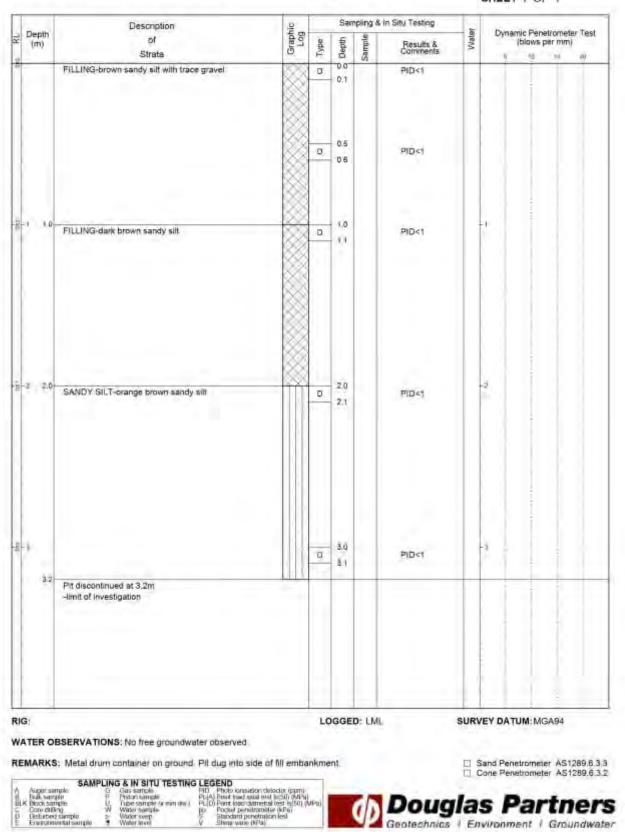


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 589 M AHD

EASTING: 697958 NORTHING: 6081712 PIT No: 13 PROJECT No: 46162.12

DATE: 25/6/2018 SHEET 1 OF 1

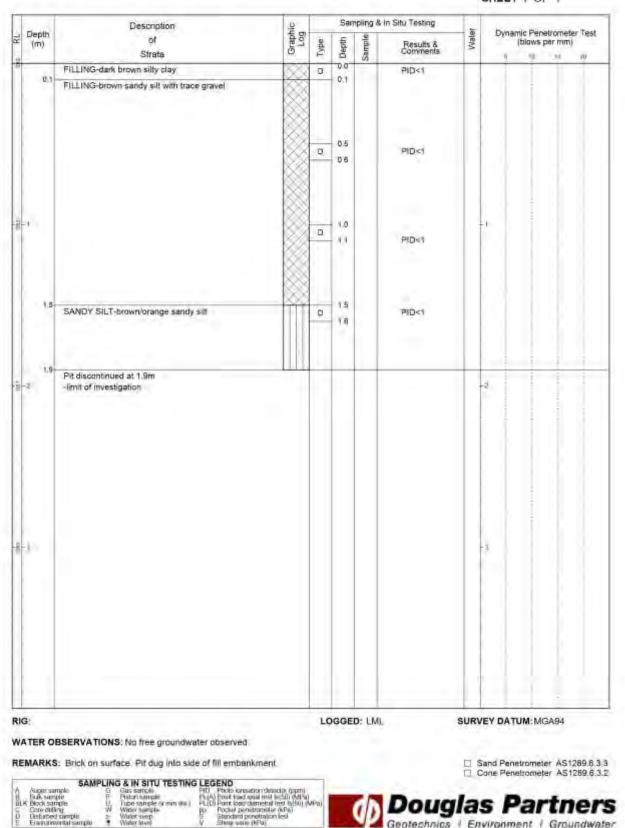


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 589 M AHD

EASTING: 697905 NORTHING: 6081887 PIT No: 14 PROJECT No: 46162.12

DATE: 25/6/2018 SHEET 1 OF 1

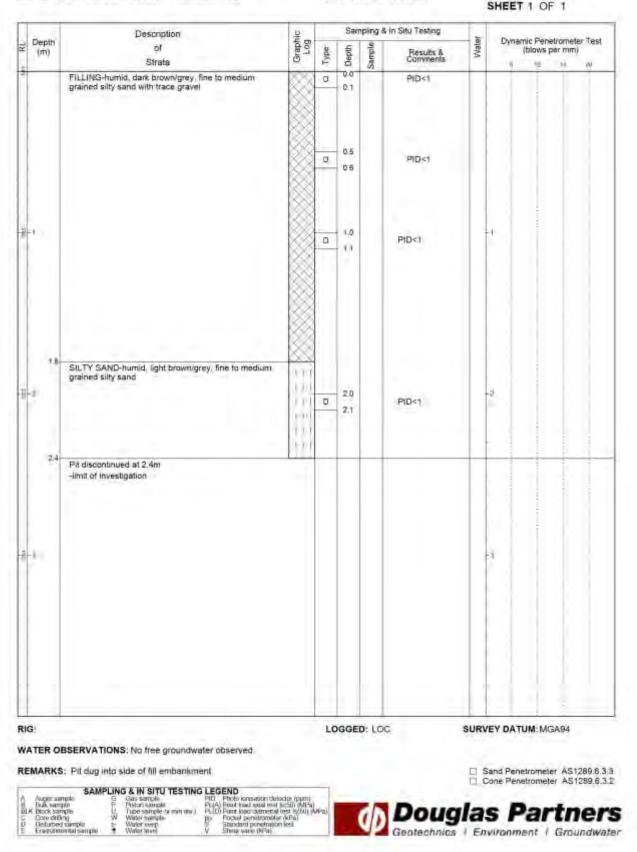


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 587 M AHD

EASTING: 697885 NORTHING: 6081632 PIT No: 15 PROJECT No: 46162.12

DATE: 22/6/2018

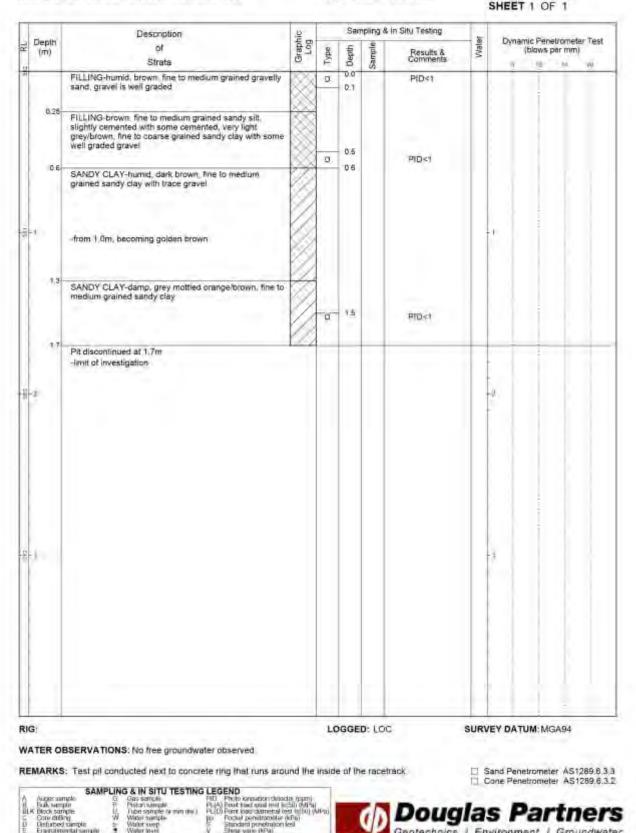


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 582 M AHD

**EASTING: 697968** NORTHING: 6081660 PIT No: 16

PROJECT No: 46162.12 DATE: 21/6/2018

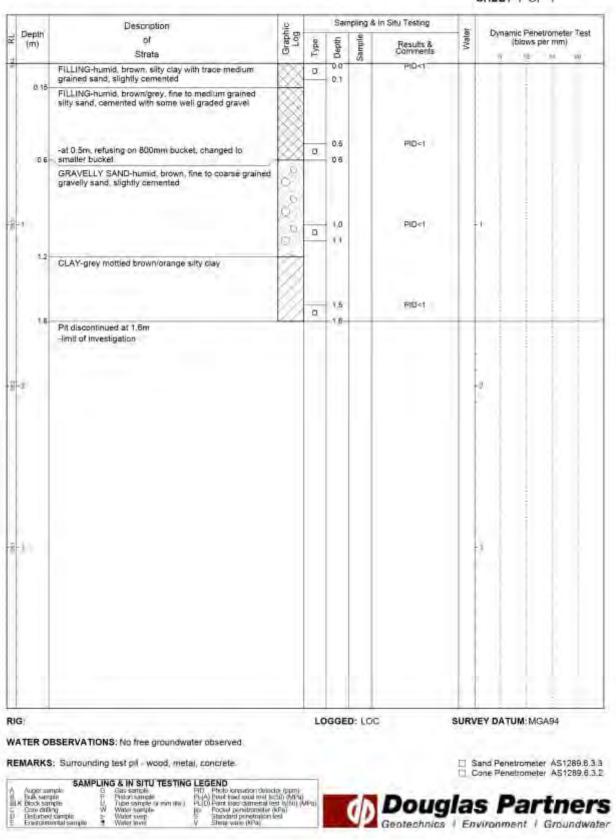


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 584 M AHD

EASTING: 697914 NORTHING: 6081592 PIT No: 17

PROJECT No: 46162.12 DATE: 21/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

SAMPLING & IN SITU TESTING LEGEND

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 581 M AHD

EASTING: 697952 NORTHING: 6081498 PIT No: 18

PROJECT No: 46162.12 DATE: 21/6/2018 SHEET 1 OF 1

Description of Strate	Graphic				in Situ Testing	10	Dynamic Penetrometer Test		
		Type	Depth	Sammle	Results & Comments	Water	(blaws per mm)		
FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel		0	0.0		PID<1				
FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel									
FILLING-very light grey silty clay, cemented, with trace gravel		O.	0.5		PID<1				
CLAYEY SAND-humid, brown, fine to medium grained sandy diay with trace grave!							-		
		D	1,0		PID<1		- +-		
SAVOY CLAY-damp, grey motted prownorange, fine to medium grained sandy clay	1	a	1.5		PID<1				
							-2		
							÷3		
	Strate  FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel  FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel  FILLING-very light grey silty clay, cemented, with trace gravel  CLAYEY SAND-humid, brown, fine to medium grained sandy clay with trace gravel  SANDY CLAY-damp, grey mottled brown/grange, fine to	FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel  FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel  FILLING-very light grey silty clay, cemented, with trace gravel  CLAYEY SAND-humid, brown, fine to medium grained sandy clay with trace gravel  SANDY CLAY-damp, grey mottled brown/orange, fine to medium grained sandy clay  Pit discontinued at 1.6m	FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel  FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel  FILLING-very light grey silty clay, cemented, with trace gravel  CLAYEY SAND-humid, brown, fine to medium grained sandy clay with trace gravel	FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel  FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel  FILLING-very light grey silty clay, cemented, with trace gravel  CLAYEY SAND-humid, brown, fine to medium grained sandy clay with trace gravel  SANDY CLAY-damp, grey mottled brown/orange, fine to medium grained sandy clay  Pit discontinued at 1.6m	FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel  FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel  FILLING-very light grey silty clay, cemented, with trace gravel  CLAYEY SAND-humid, brown, fine to medium grained sandy clay with trace gravel  SANDY CLAY-damp, grey mottled brown/orange, fine to medium grained sandy clay  Pit discontinued at 1.6m	FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel  FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel  FILLING-very light grey silty clay, cemented, with trace gravel  CLAYEY SAND-humid, brown, fine to medium grained sandy clay with trace gravel  SANDY CLAY-damp, grey mottled brown/orange, fine to medium grained sandy clay  PID<1  PID<1  PID<1  PID<1	FILLING-humid, brown silty clay, slightly cemented with trace fine to medium grained sand and gravel  FILLING-humid, orange brown, fine to medium grained sandy clay, cemented, with trace gravel  FILLING-very light grey silty clay, cemented, with trace gravel  CLAYEY SAND-humid, brown, fine to medium grained sandy clay with trace gravel  SANDY CLAY-damp, grey mottled brown/orange, fine to medium grained sandy clay medium grained sandy clay  PID<1  PIL discontinued at 1.6m		

Douglas Par

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

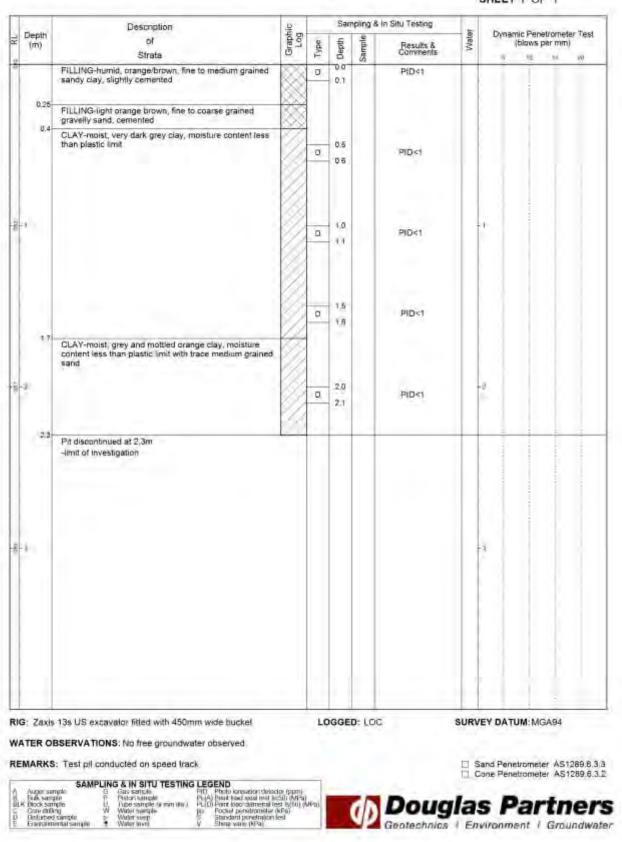
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 589 M AHD

**EASTING: 698013** NORTHING: 6081573 PIT No: 19 PROJECT No: 46162.12

DATE: 20/6/2018 SHEET 1 OF 1

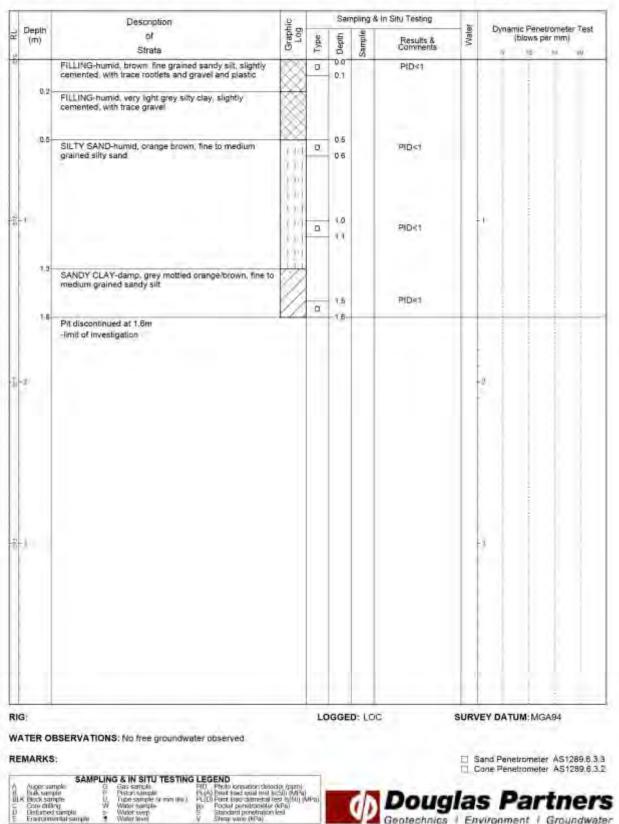


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 579 M AHD

EASTING: 697967 NORTHING: 6081624 PIT No: 20

PROJECT No: 46162.12 DATE: 21/6/2018

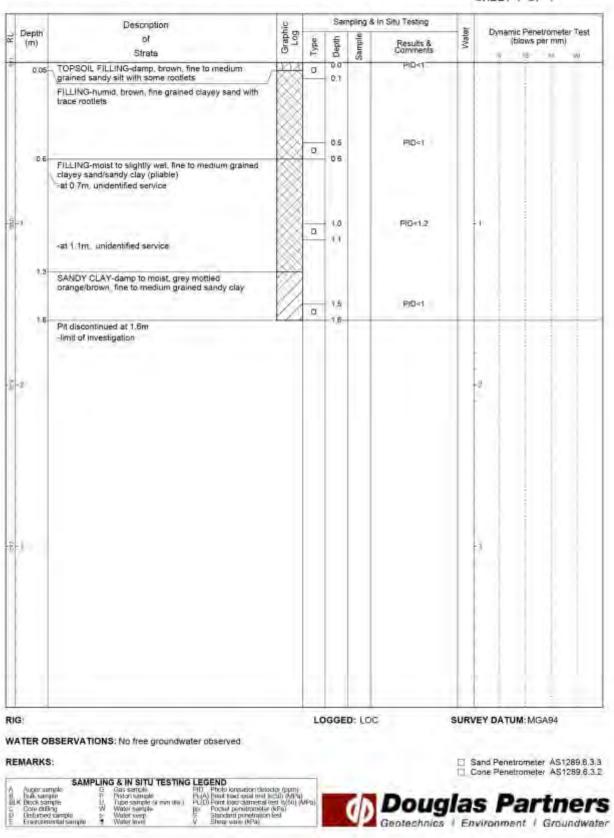


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 581 M AHD

EASTING: 697959 NORTHING: 6081555 PIT No: 21 PROJECT No: 46162.12

DATE: 21/6/2018 SHEET 1 OF 1



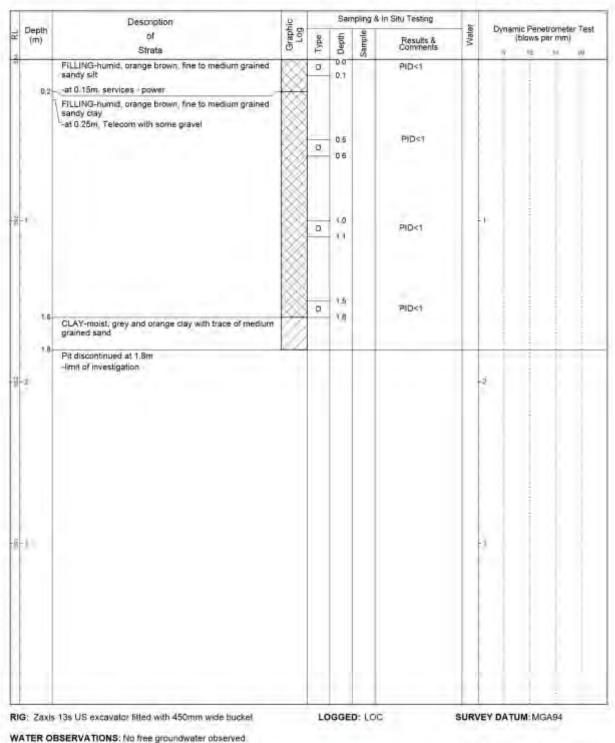
CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 594 M AHD

EASTING: 698075 NORTHING: 6081585 PIT No: 22

PROJECT No: 46162.12 DATE: 20/6/2018

SHEET 1 OF 1



| Task semple | Tristori sample | Tristori sampl

SAMPLING & IN SITU TESTING LEGEND

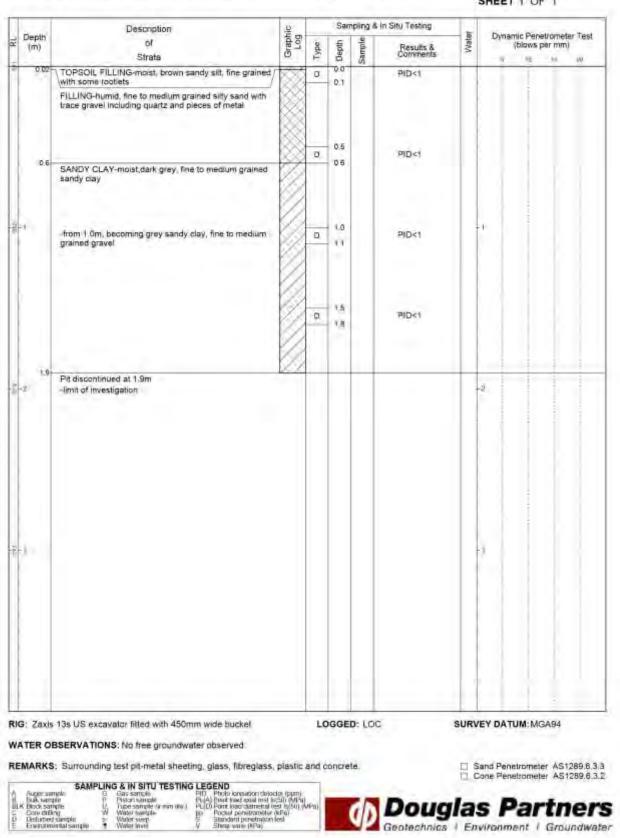
REMARKS:

□ Sand Penetrometer AS1289.8.3.3
□ Cone Penetrometer AS1289.6.3.2

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 581 M AHD

PIT No: 23 **EASTING: 698065** PROJECT No: 46162.12 NORTHING: 6081586 DATE: 20/6/2018

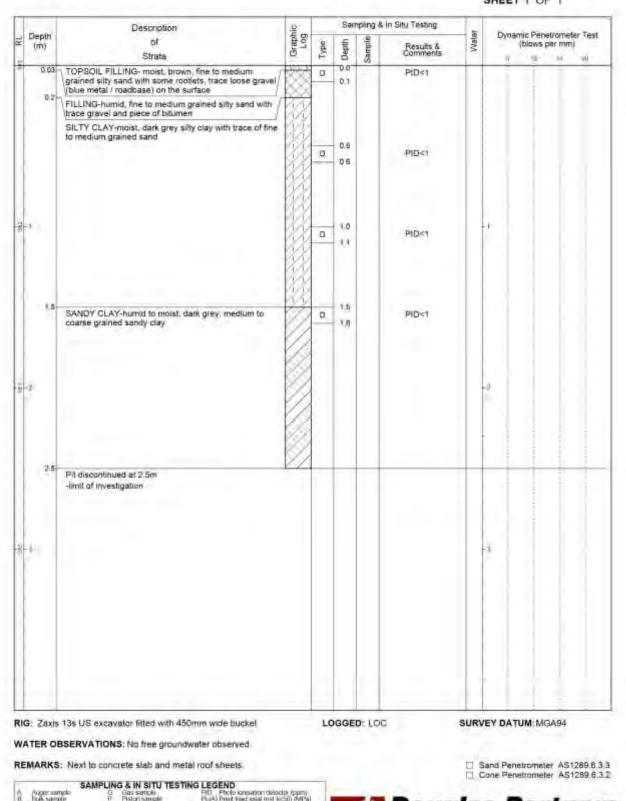


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 583 M AHD

EASTING: 698106 NORTHING: 6081586 PIT No: 24

PROJECT No: 45162.12 DATE: 20/6/2018 SHEET 1 OF 1

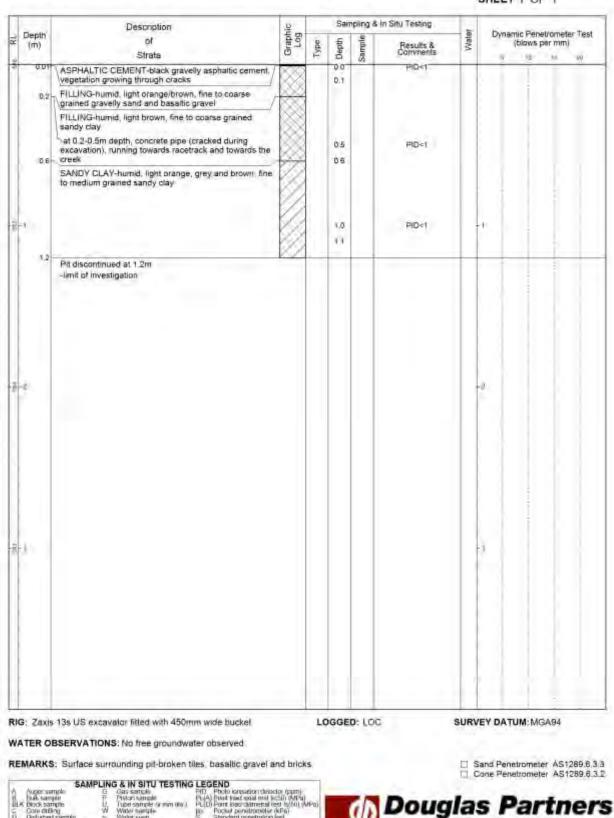


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 586 M AHD

EASTING: 698041 NORTHING: 6081559 PIT No: 25 PROJECT No: 46162.12

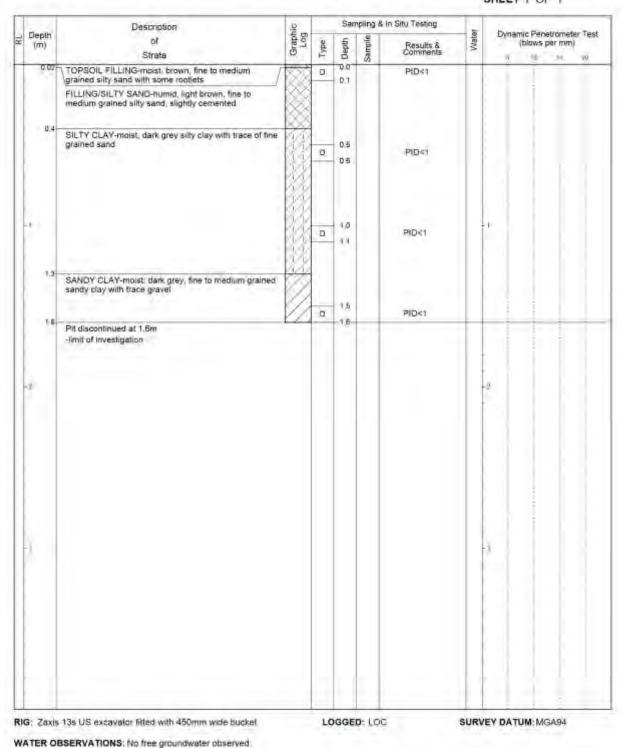
DATE: 20/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: -EASTING: 698086 NORTHING: 6081530 PIT No: 26

PROJECT No: 45162.12 DATE: 20/6/2018 SHEET 1 OF 1



REMARKS:



Sand Penetrometer AS1289.8.3.3

Cone Penetrometer AS1289.6.3.2

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

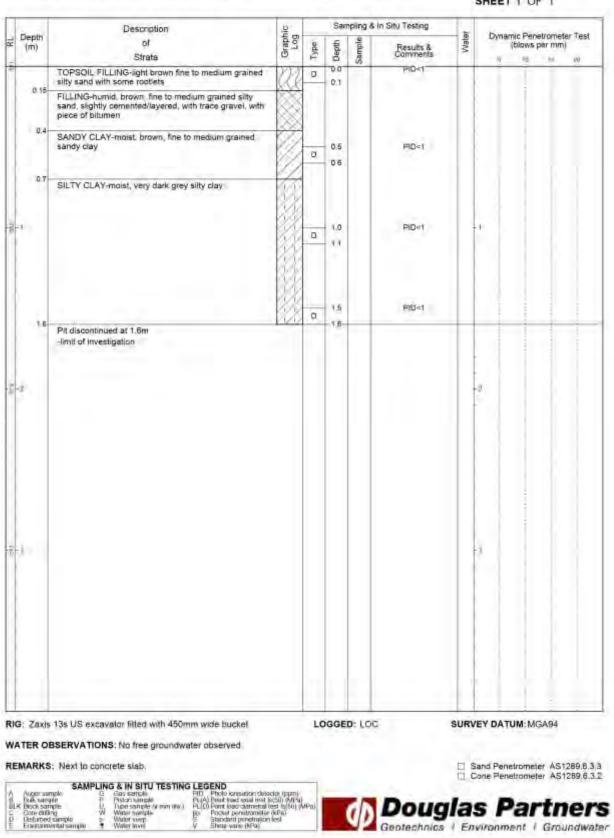
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 581 M AHD

EASTING: 698106 NORTHING: 6081558 PIT No: 27 PROJECT No: 46162.12

DATE: 20/6/2018 SHEET 1 OF 1



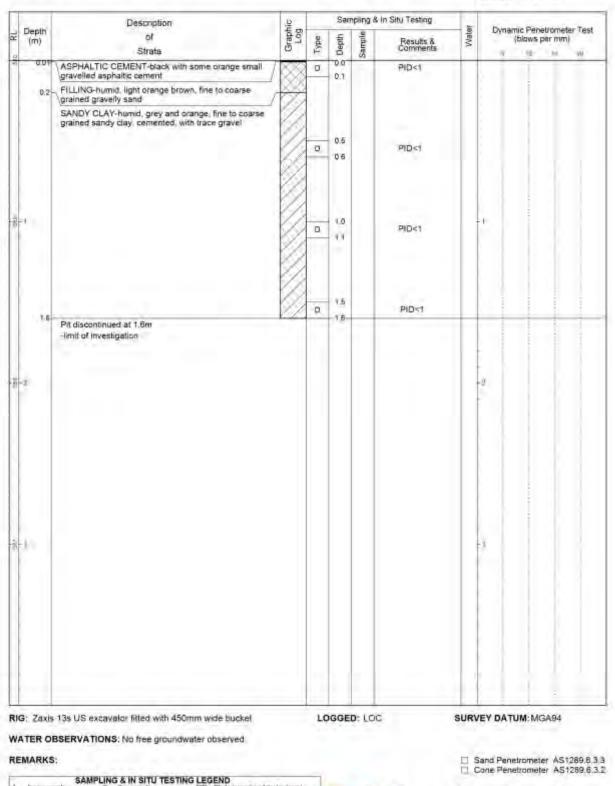
CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 590 M AHD

EASTING: 698045 NORTHING: 6081534 PIT No: 28

PROJECT No: 46162.12 DATE: 20/6/2018

SHEET 1 OF 1

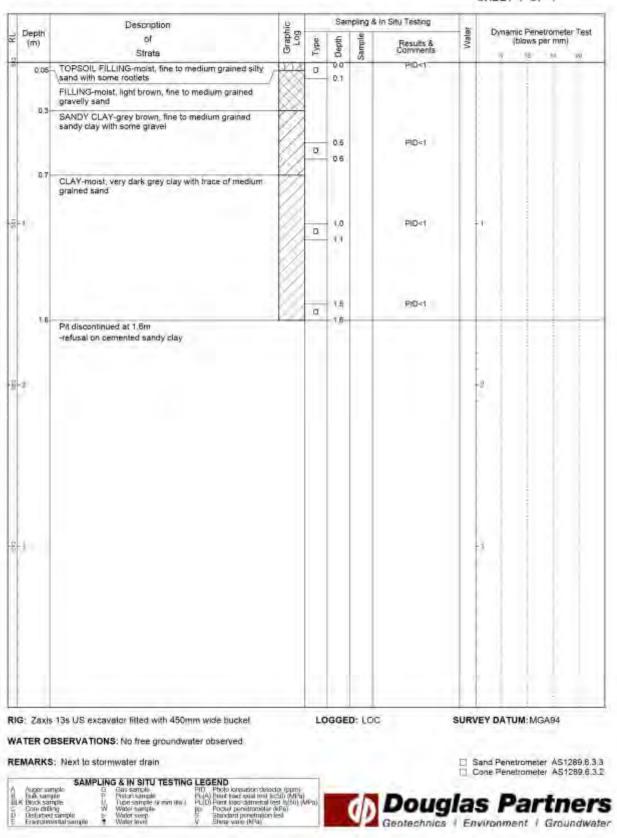


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 582 M AHD

EASTING: 698130 NORTHING: 6081562 PIT No: 29 PROJECT No: 46162.12

DATE: 20/6/2018 SHEET 1 OF 1

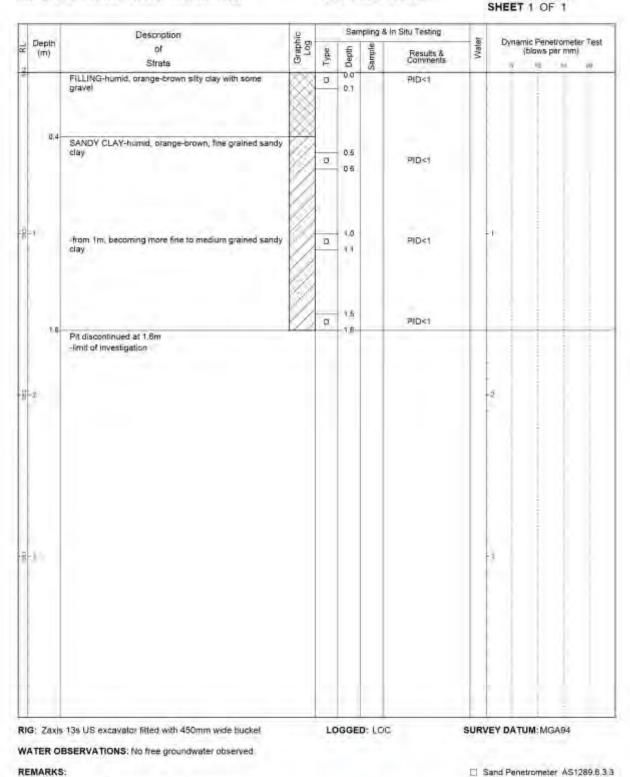


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 584 M AHD

EASTING: 698108 NORTHING: 6081499 PIT No: 30

PROJECT No: 46162.12 DATE: 20/6/2018



Book sample
Core office
Geotechnias | Environment | Groundwater

| Substitution |

SAMPLING & IN SITU TESTING LEGEND

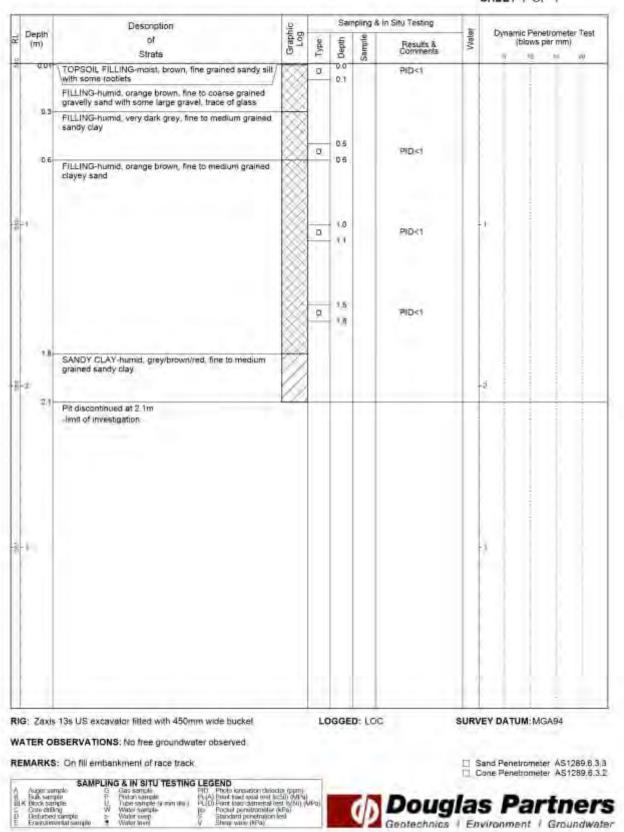
Cone Penetrometer AS1289.6.3.2

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 590 M AHD

EASTING: 698634 NORTHING: 6081528 PIT No: 31 PROJECT No: 46162.12

DATE: 20/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place

REMARKS: On surface near test pil - roof guttering fragments.

SURFACE LEVEL: 587 M AHD

EASTING: 698011 NORTHING: 6081515 PIT No: 32

PROJECT No: 46162.12 DATE: 20/6/2018 SHEET 1 OF 1

RL	Depth	Description of Strate	Diff.				in Situ Testing	6	Dynamic Penetrometer Test		
	(m)		Graphic	Type	Depth	Sample	Results & Comments	Water	(blaws per mm)		
	0.02	some rootlets  FILLING (natural reworked)-humid, light brown/orange.		0	0.1		PID<1	П			
		fine to medium grained sity sand						118			
	0.6	-at 0,4m, services (power)		o.	0.5		PID<	118			
		FILLING (potentially natural)-humid, orange/brown, fine- to coarse grained sandy clay with trace gravel									
	1 1.0	SANDY CLAY-humid, light brown, fine to medium grained sandy clay		D	- 10		PID<1		t =		
	1.7	Day in a second and a second a second and a second and a second and a second and a second a second and a second a second and a second a	1								
		Pit discontinued at 1.7m -lenit of investigation									
	2								0		
									-		
	jo.										
									4111		
Ė			_		-	-		-1-1			

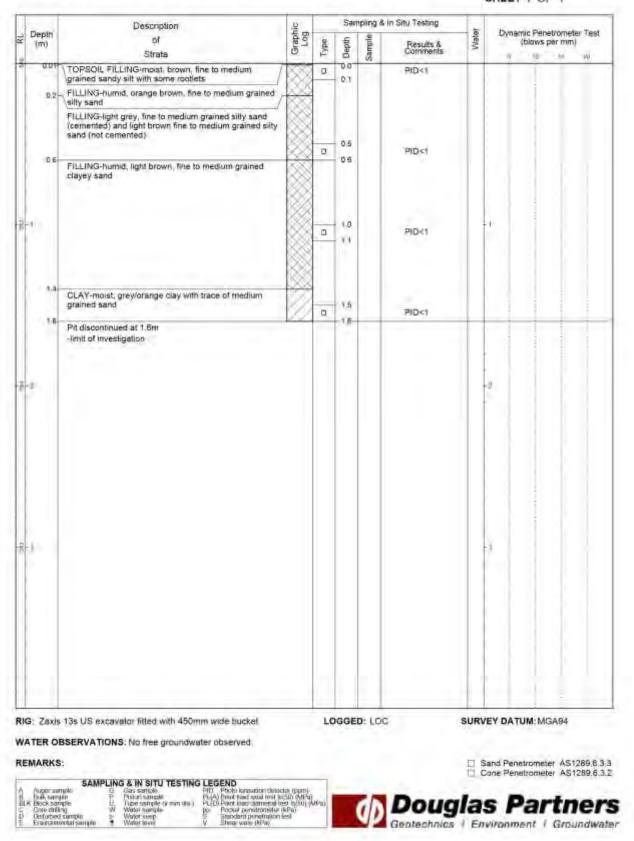
Sand Penetrometer AS1289.6.3.3

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 586 M AHD

EASTING: 697986 NORTHING: 6081485 PIT No: 33 PROJECT No: 46162.12

DATE: 20/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

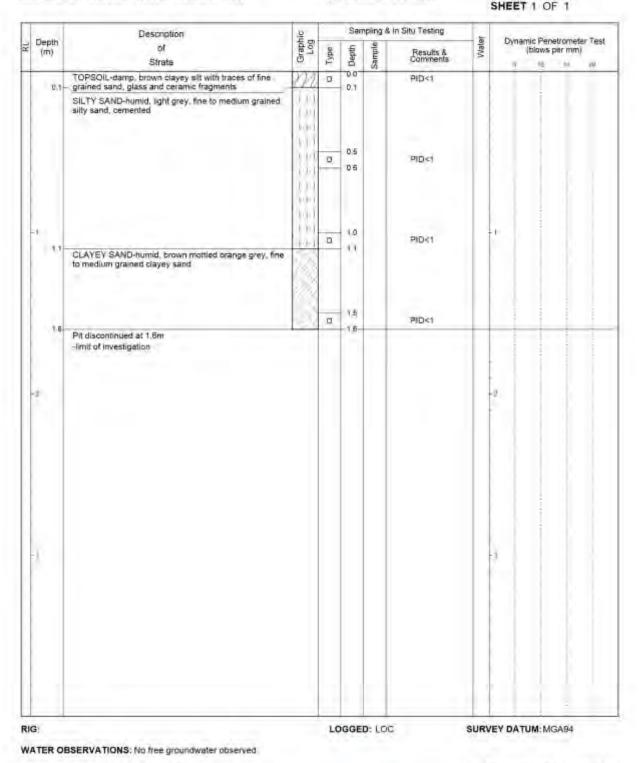
PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place

REMARKS: Test pil conducted next to abandoned building

Block sample Core drilling Distanced to Equations SAMPLING & IN SITU TESTING LEGEND

SURFACE LEVEL: -EASTING: 697852 NORTHING: 6081606 PIT No: 34

PROJECT No: 46162.12 DATE: 22/6/2018



Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

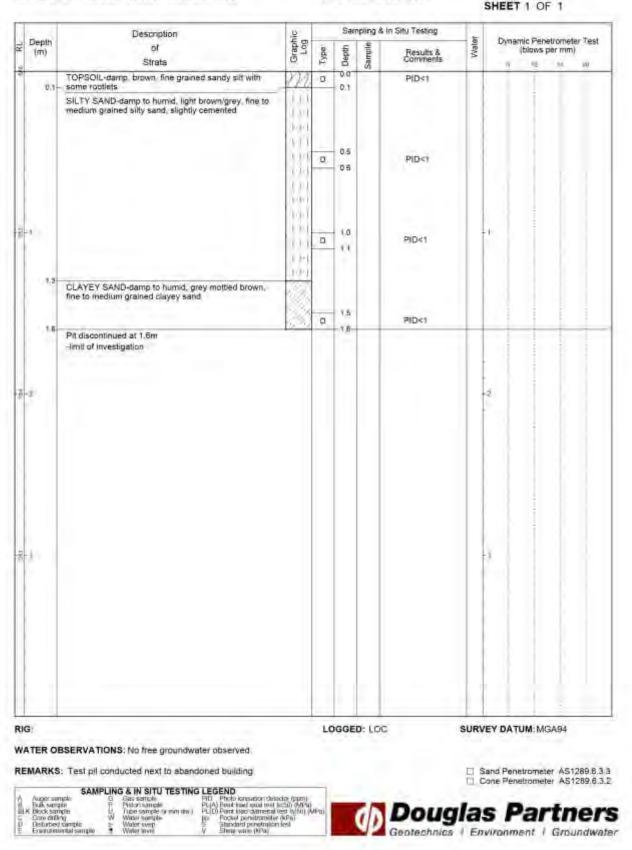
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 586 M AHD

**EASTING:** 697850 NORTHING: 6081585 PIT No: 35 PROJECT No: 46162.12

DATE: 22/6/2018

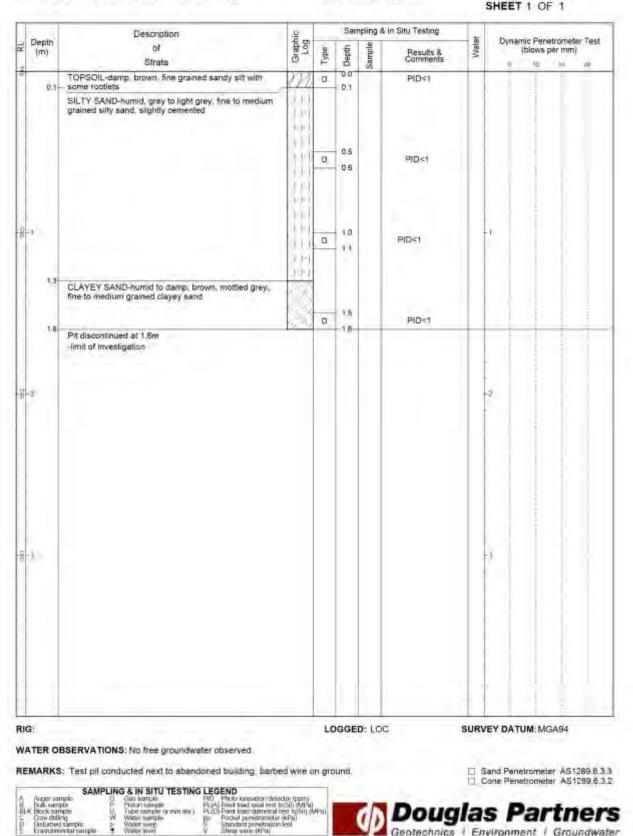


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 584 M AHD

EASTING: 697839 NORTHING: 6081601 PIT No: 36

PROJECT No: 46162.12 DATE: 22/6/2018

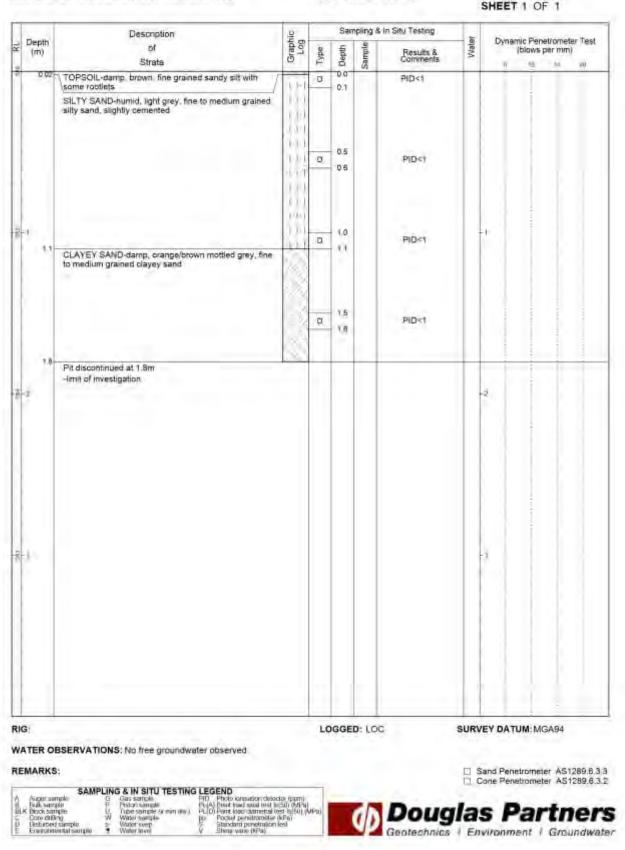


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 586 M AHD

EASTING: 697864 NORTHING: 6081637 PIT No: 37 PROJECT No: 46162.12

DATE: 22/6/2018

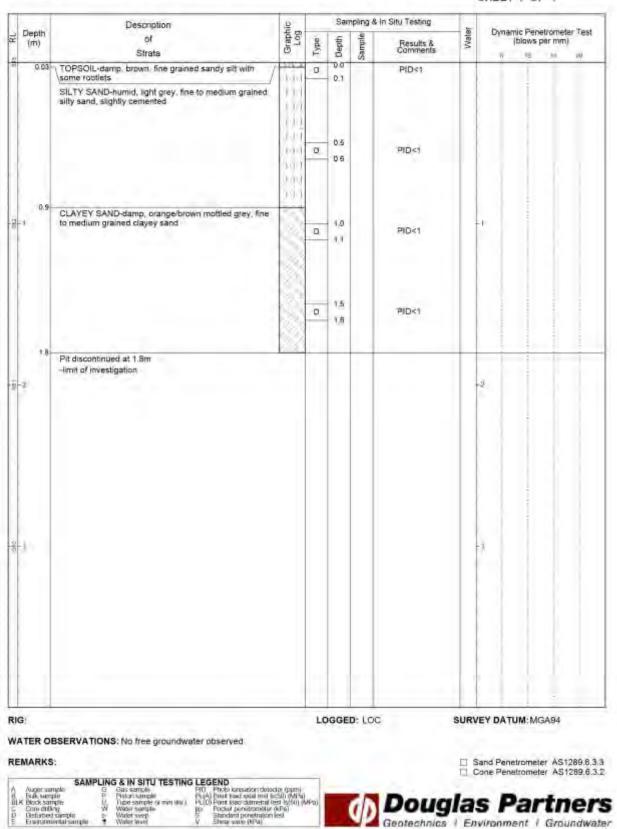


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 583 M AHD

EASTING: 697873 NORTHING: 6081645 PIT No: 38

PROJECT No: 46162.12 DATE: 22/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

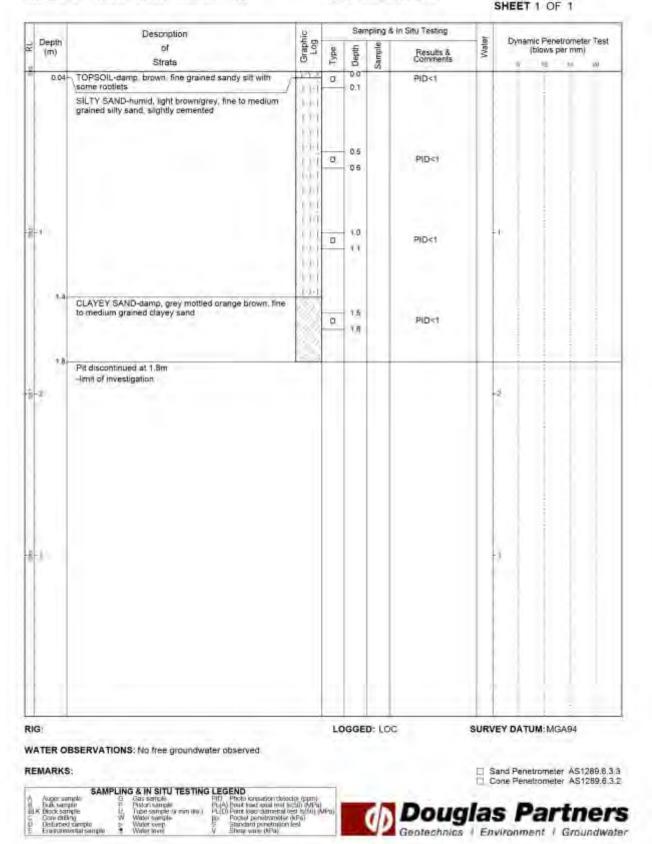
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 589 M AHD

**EASTING: 697814** NORTHING: 6081579 PIT No: 39 PROJECT No: 46162.12

DATE: 22/6/2018

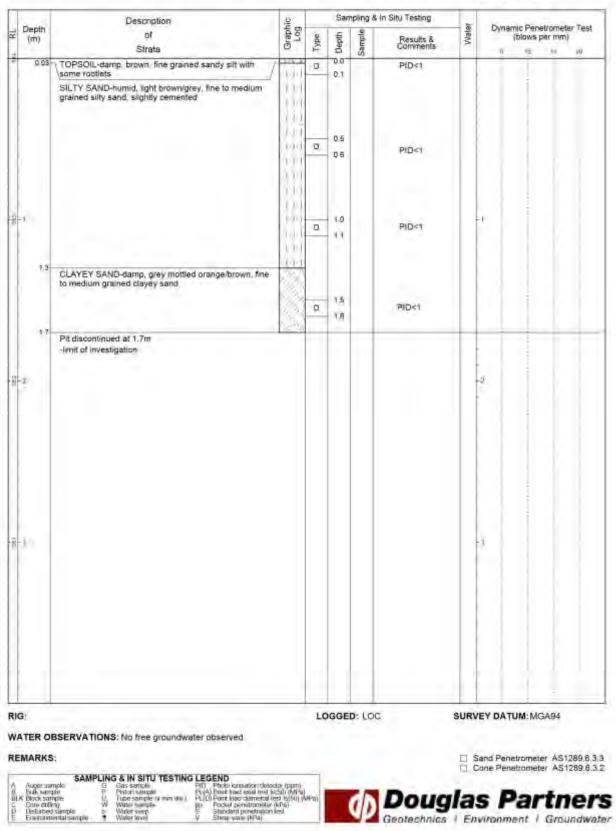


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 584 M AHD

**EASTING: 697804** NORTHING: 6081583 PIT No: 40

PROJECT No: 46162.12 DATE: 22/6/2018

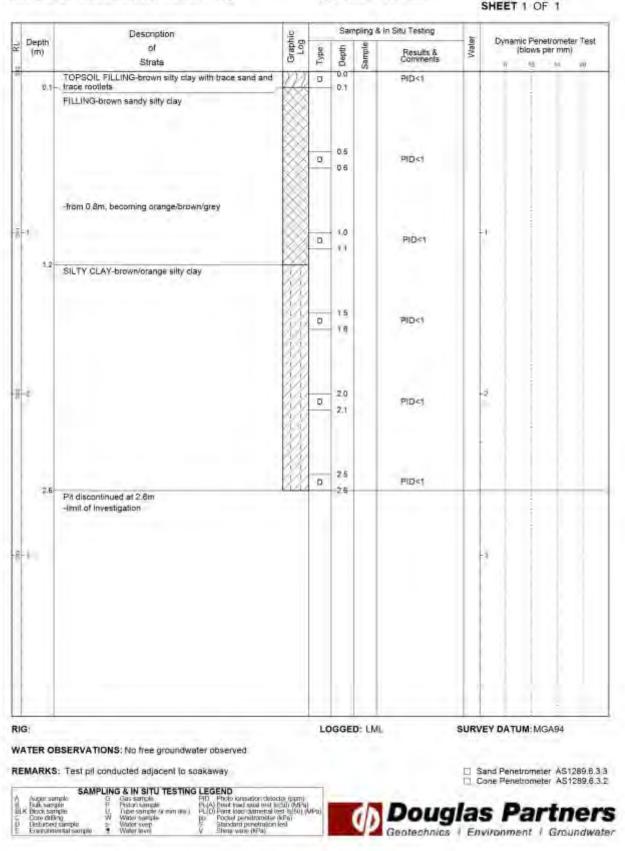


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 592 M AHD

EASTING: 697847 NORTHING: 6081629 PIT No: 41 PROJECT No: 46162.12

DATE: 25/6/2018

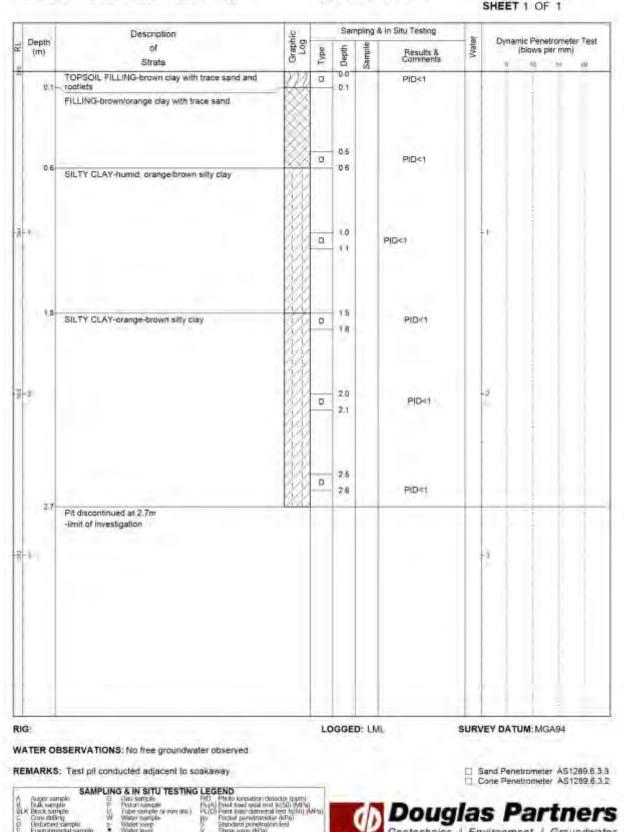


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 595 M AHD

**EASTING: 697847** NORTHING: 6081623 PIT No: 42

PROJECT No: 46162.12 DATE: 25/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 590 M AHD

EASTING: 698189 NORTHING: 6081598 PIT No: 43 PROJECT No: 46162.12

DATE: 25/6/2018 SHEET 1 OF 1

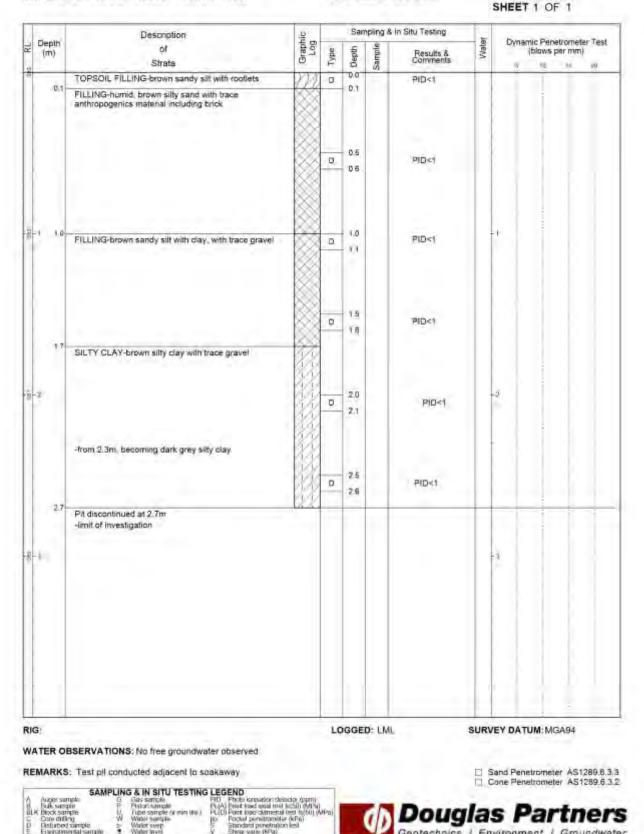


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 589 M AHD

**EASTING: 698171** NORTHING: 6081593 PIT No: 44

PROJECT No: 46162.12 DATE: 26/6/2018

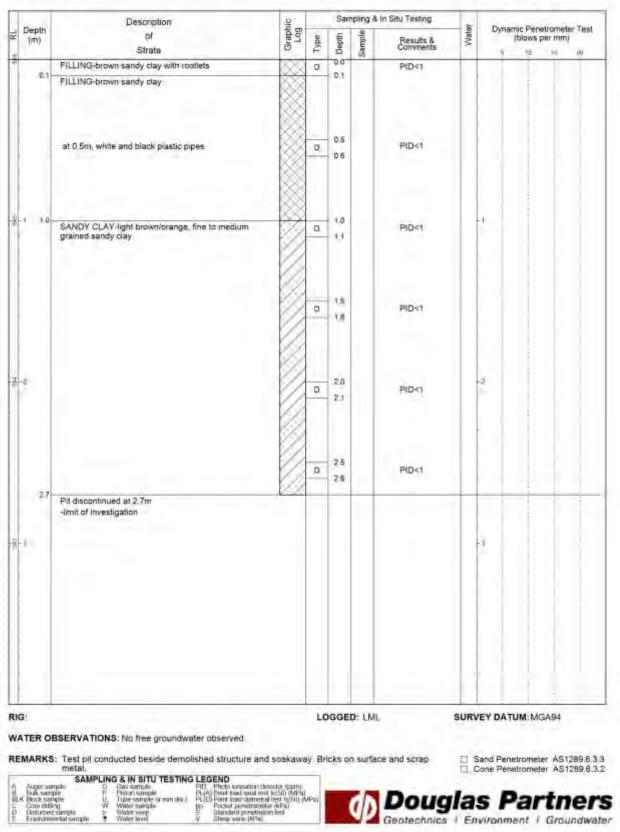


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 596 M AHD

EASTING: 698191 NORTHING: 6081271 PIT No: 45 PROJECT No: 46162.12

DATE: 26/6/2018 SHEET 1 OF 1

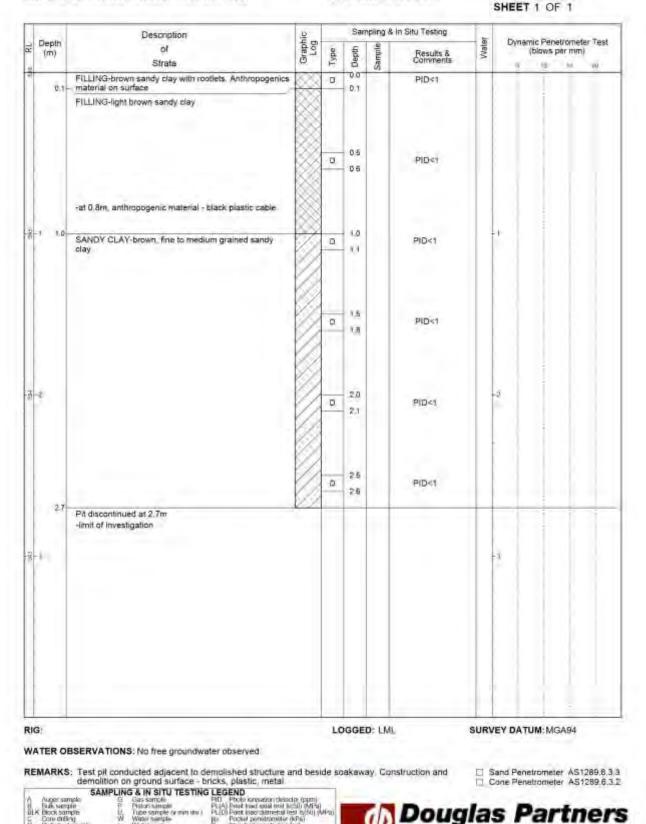


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 596 M AHD

EASTING: 698194 NORTHING: 6881265 PIT No: 46

PROJECT No: 46162.12 DATE: 26/6/2018



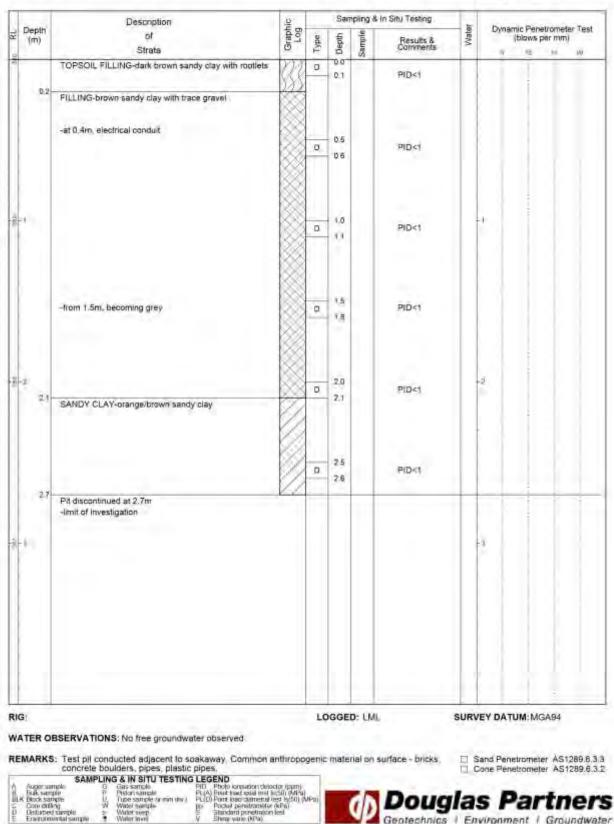
CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision SURFACE LEVEL: 590 M AHD **EASTING:** 698026

PIT No: 47 PROJECT No: 46162.12

LOCATION: Lot 6 DP239080 Alderson Place

NORTHING: 6081492 DATE: 26/6/2018 SHEET 1 OF 1

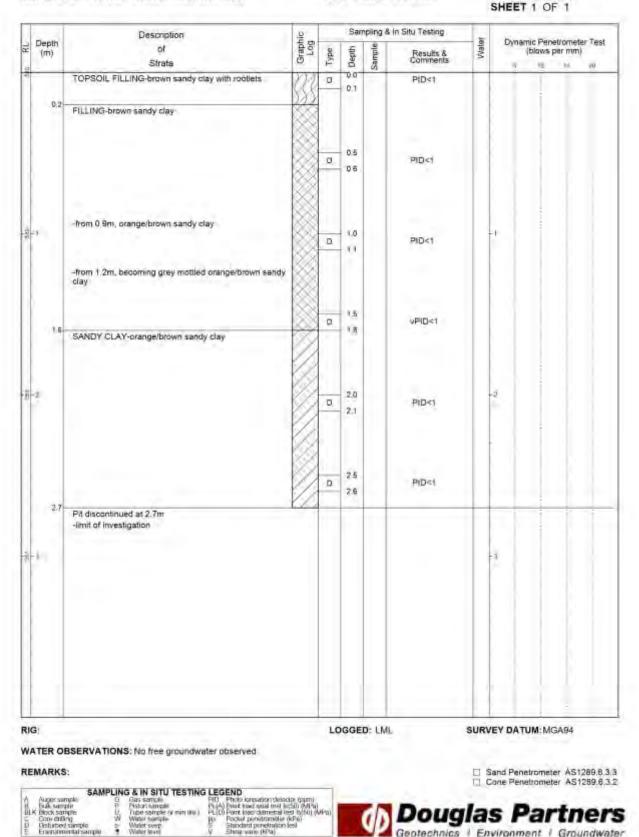


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 590 M AHD

EASTING: 698019 NORTHING: 6081485 PIT No: 48

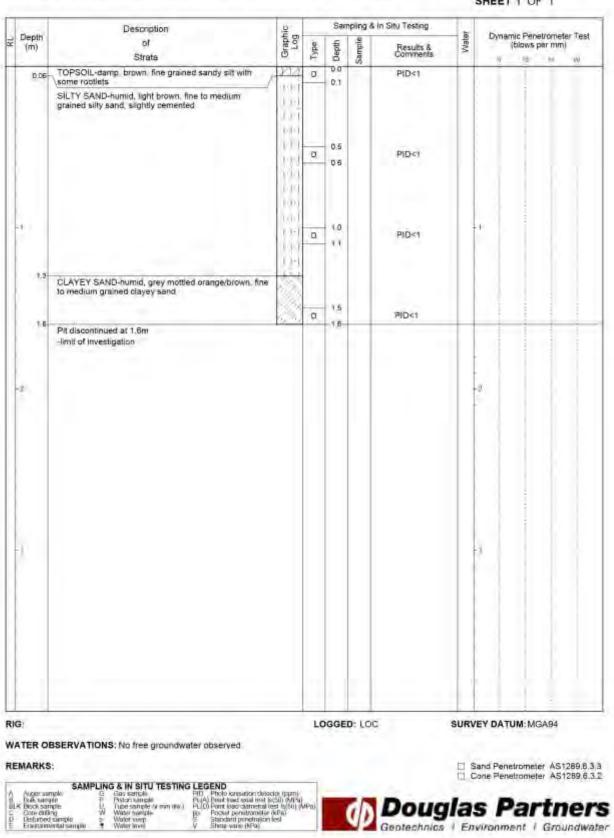
PROJECT No: 46162.12 DATE: 26/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL:-EASTING: 697870 NORTHING: 6081552 PIT No: 49

PROJECT No: 46162.12 DATE: 22/6/2018

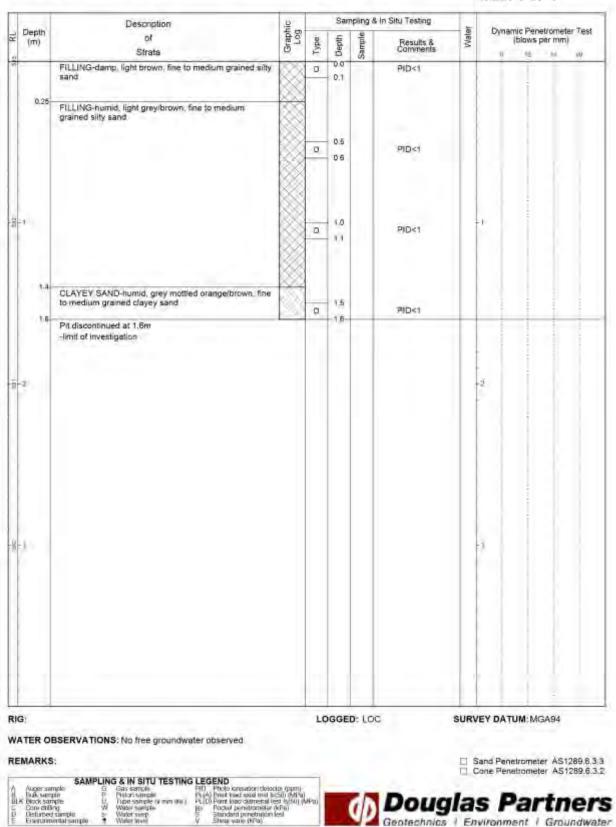


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 593 M AHD

EASTING: 697894 NORTHING: 6081526 PIT No: 50

PROJECT No: 46162.12 DATE: 22/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 585 M AHD

EASTING: 698271 NORTHING: 6081660 PIT No: 51

PROJECT No: 46162.12 DATE: 19/6/2018 SHEET 1 OF 1

Denth	Description	P.		San		n Situ Testing		Paintenia Departments Tox
Depth (m)	of Strate	Graphic	Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Tes (blows per mm)
	FILLING-humid, dark brown, fine to medium grained clayey sitty sand, with some anthropogenic material including - aluminium drink cans, styrofoam food containers, plastic toxysfigures, glass bottles, scrap- rusted metal, VHS tapes, cloth		D	0.1		PID+1		
	-from 0.6m, becoming line to medium grained sandy clay		D	0.5		PIO-1		
,			۵	10		PIDef		+
4.7	SANDY CLAY-moist, light grey medium grained sandy clay		ū	1.7		PID<1		
1.9	Pit discontinued at 1.9m -limit of investigation				0.5 PID<1	-2		
50								) )

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 590 M AHD

EASTING: 698251 NORTHING: 6081661 PIT No: 52

PROJECT No: 45162.12 DATE: 19/6/2018 SHEET 1 OF 1

Depth	Description	E.		_		in Situ Testing	100	Dynamic Penetrometer Test		
(m)	of Strate	Graphic	Type	Depth	Samplie	Results & Comments	Water	(blaws per mm)		
	FILLING-humid, brown fine to medium grained sandy silt with trace gravel, with some anthropogenic material (construction and demoitifion and household) including scrap metal, wire, wood, metal sheeting, fabric, concrete, food packaging, glass bottles, star pickels, copper wire, aluminium cans 1less rubbish in first 0.3m		0	0.0		PID<1				
			Ø.	05		PIDC1				
:1			D	1.0		PID<1		-+-		
1,3	CLAYEY SILT-humid to moist, dark browningrey, fine to medium grained clayey siit		ō	1.5		PID<1				
2.8.	Pit discontinued at 1.8m -limit of investigation							-0		
jo j								= 1		

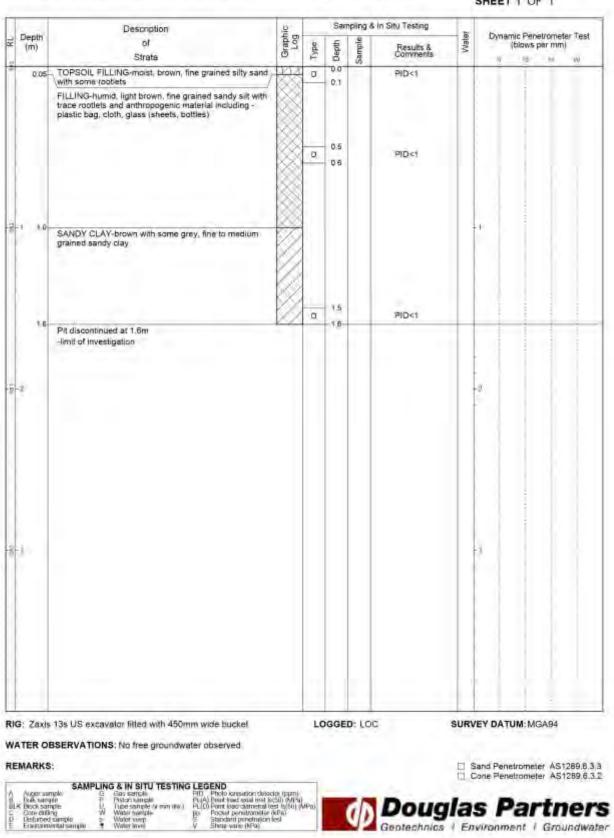
Douglas Par

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 583 M AHD

EASTING: 698236 NORTHING: 6081655 PIT No: 53 PROJECT No: 46162.12

DATE: 19/6/2018 SHEET 1 OF 1

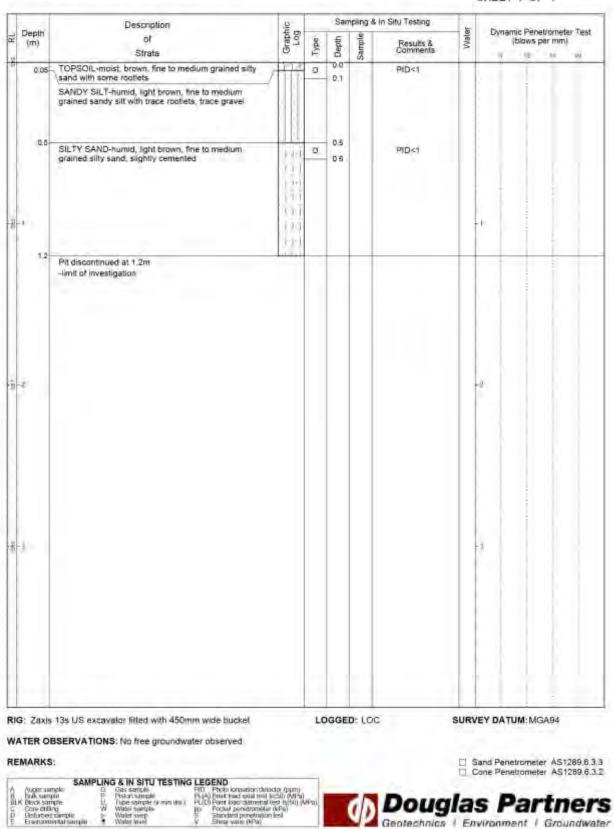


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 589 M AHD

EASTING: 698221 NORTHING: 6081666 PIT No: 54

PROJECT No: 46162.12 DATE: 19/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

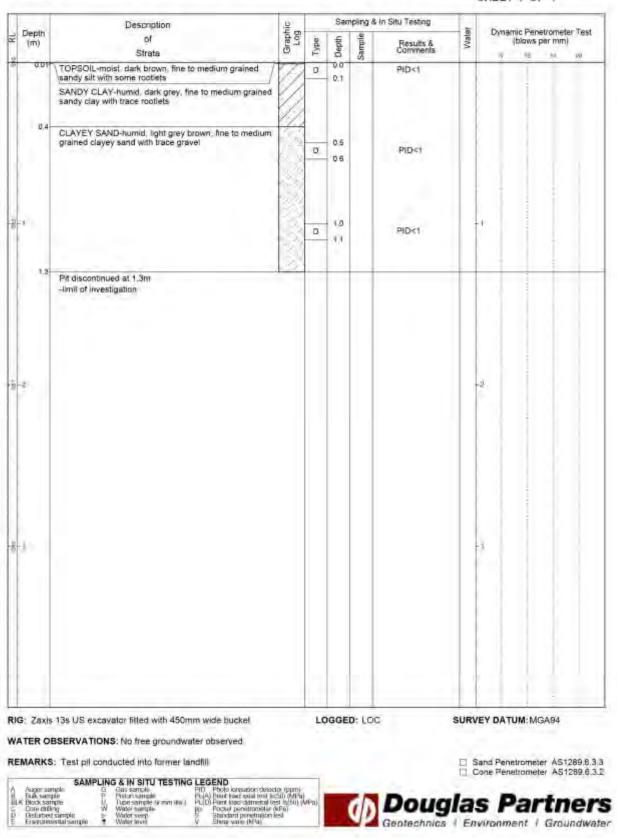
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 589 M AHD

EASTING: 698271 NORTHING: 6081675 PIT No: 55

PROJECT No: 46162.12 DATE: 19/6/2018



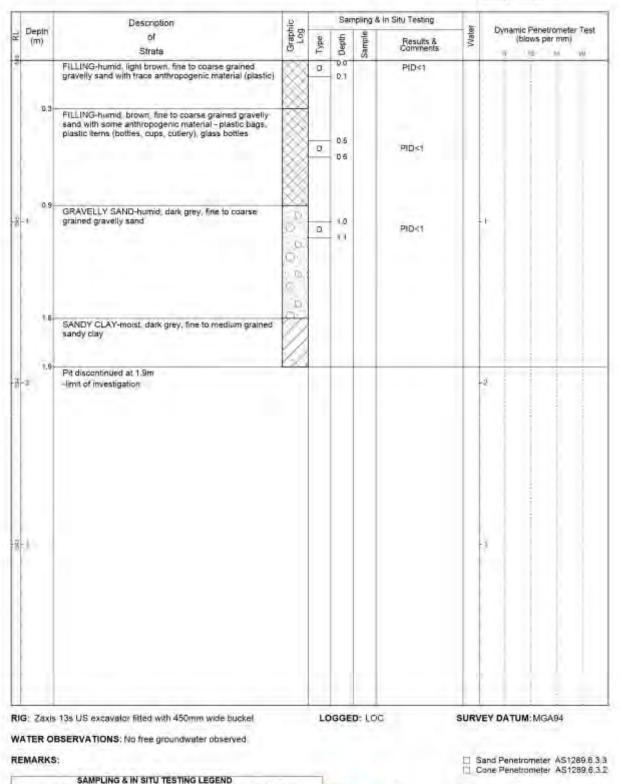
CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 596 M AHD

EASTING: 698256 NORTHING: 6081670 PIT No: 56

PROJECT No: 46162.12 DATE: 19/6/2018

SHEET 1 OF 1



Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

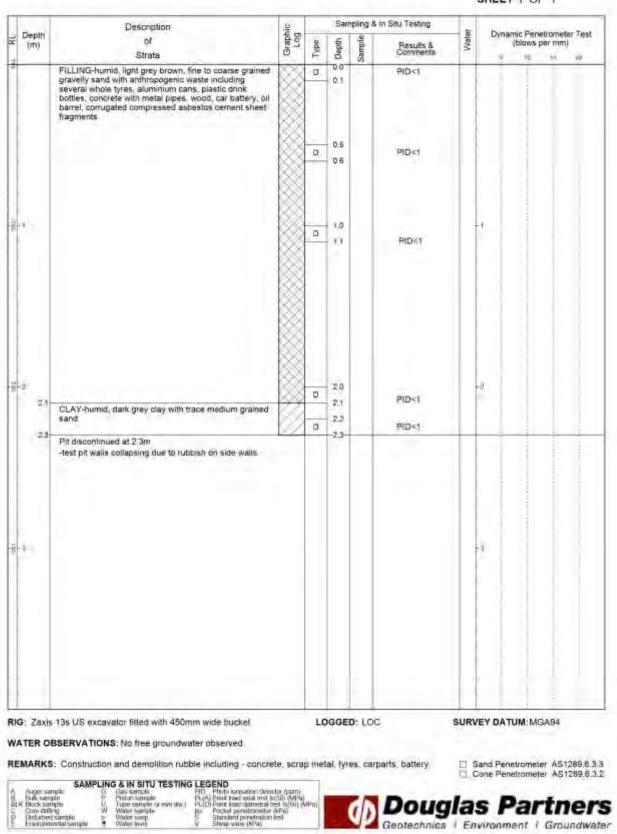
PROJECT: Proposed Subdivision

LOCATION: Lot 6 DP239080 Alderson Place

SURFACE LEVEL: 584 M AHD

**EASTING:** 698242 NORTHING: 6081676 PIT No: 57

PROJECT No: 46162.12 DATE: 20/8/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

SAMPLING & IN SITU TESTING LEGEND

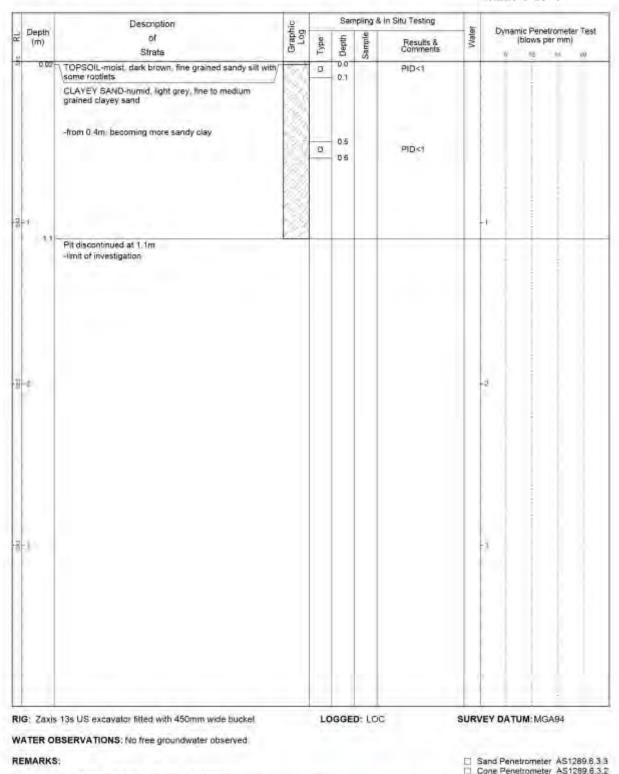
PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place EASTING: 698222 NORTHING: 6081677

SURFACE LEVEL: 585 M AHD

PIT No: 58

PROJECT No: 46162.12 DATE: 20/8/2018

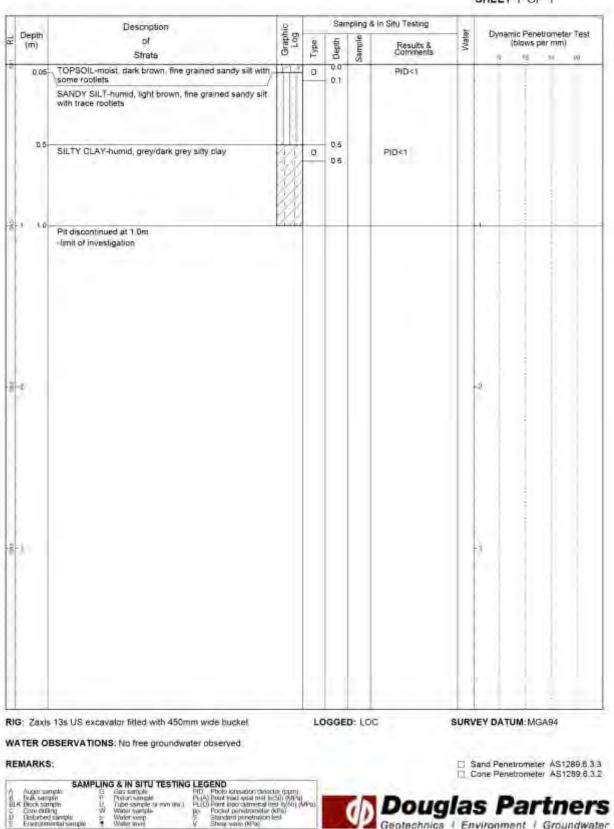
SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 591 M AHD EASTING: 698257

PIT No: 59 PROJECT No: 46162.12 NORTHING: 6081689 DATE: 19/6/2018

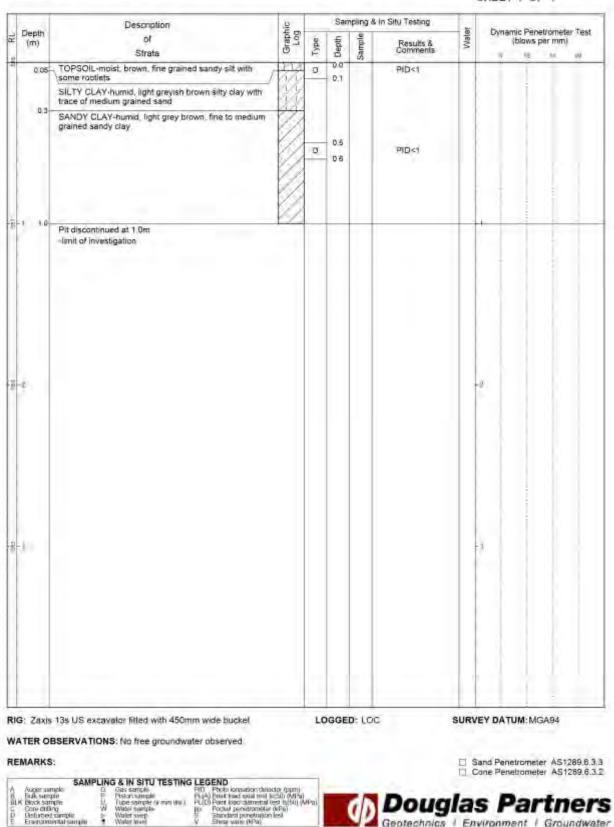


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 588 M AHD

EASTING: 698237 NORTHING: 6081685 PIT No: 60

PROJECT No: 46162.12 DATE: 20/8/2018



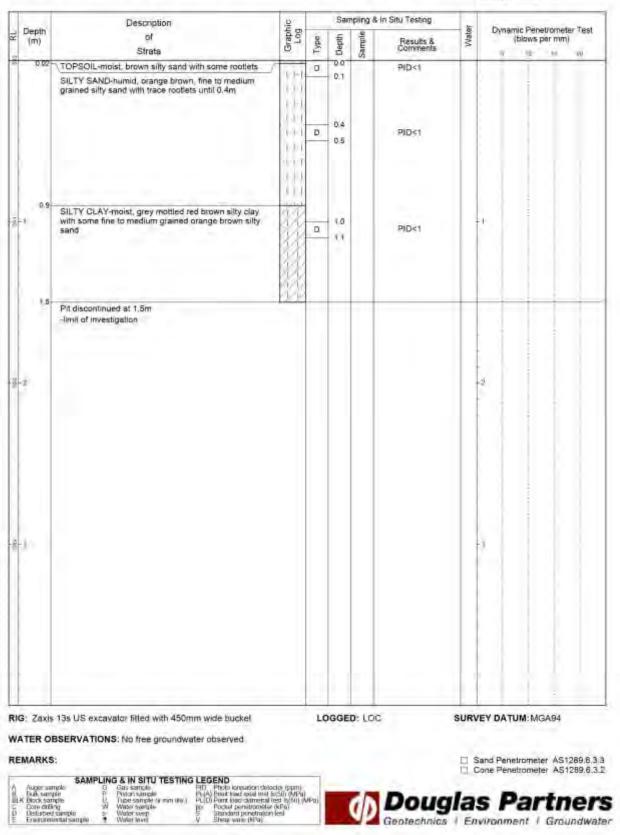
CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 592 M AHD

EASTING: 698849

PIT No: 61 PROJECT No: 46162.12

NORTHING: 6081401 DATE: 19/6/2018 SHEET 1 OF 1

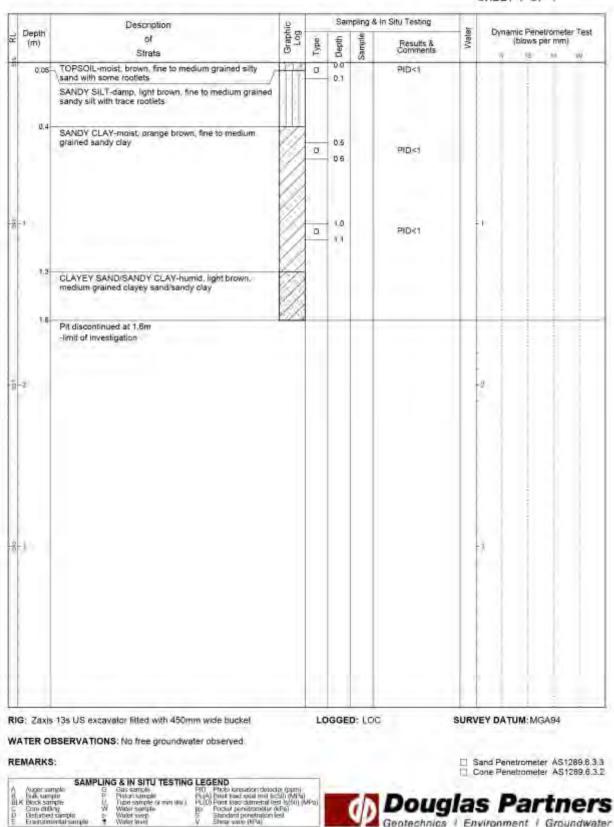


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 599 M AHD

EASTING: 698737 NORTHING: 6081277 PIT No: 62

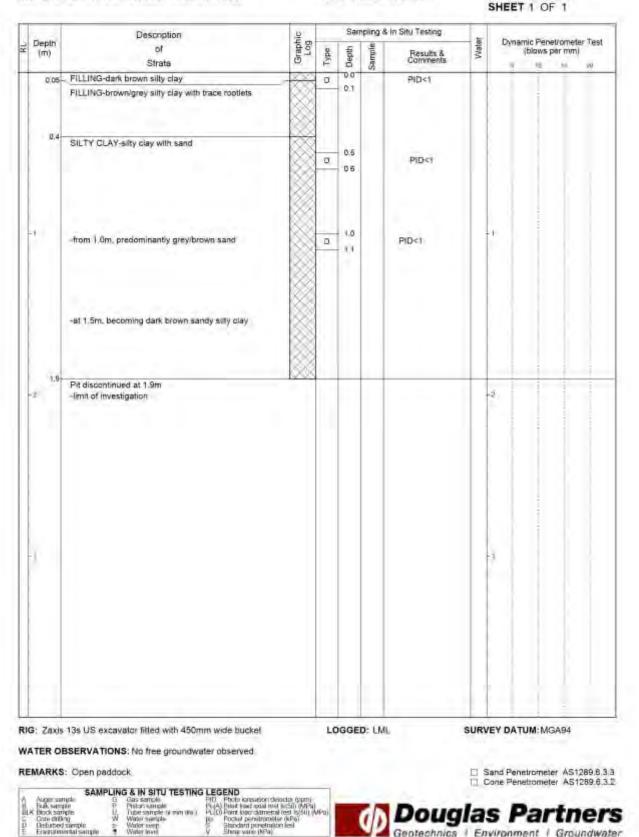
PROJECT No: 46162.12 DATE: 19/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL:-EASTING: 698733 NORTHING: 6081727 PIT No: 63

PROJECT No: 46162.12 DATE: 18/6/2018

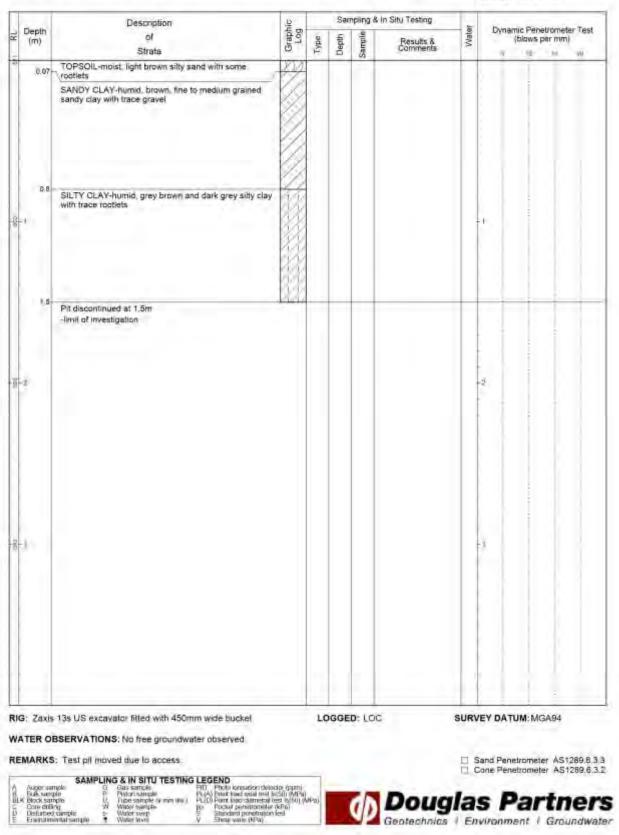


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 601 M AHD

EASTING: 698783 NORTHING: 6081738 PIT No: 64

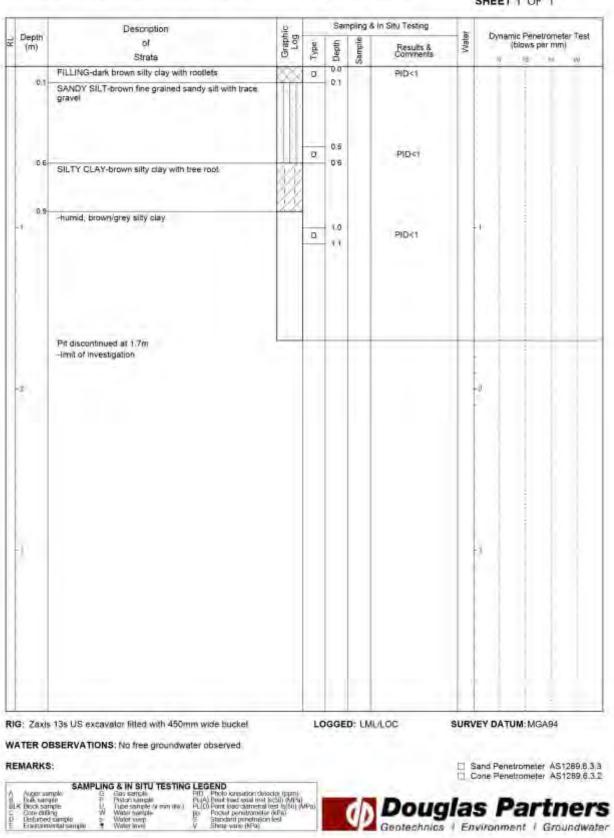
PROJECT No: 46162.12 DATE: 18/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL:-EASTING: 698759 NORTHING: 6081773 PIT No: 65

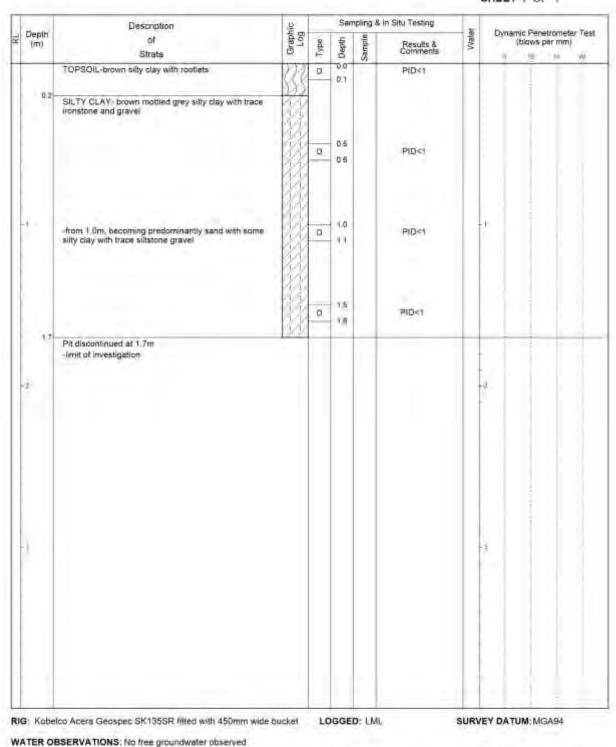
PROJECT No: 46162.12 DATE: 18/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL:-EASTING: 698699 NORTHING: 6081637 PIT No: 66

PROJECT No: 46162.12 DATE: 18/6/2018 SHEET 1 OF 1



REMARKS: Open paddock - construction and demolition rubble north east of test pill

SAMPLING & IN SITU TESTING LEGEND

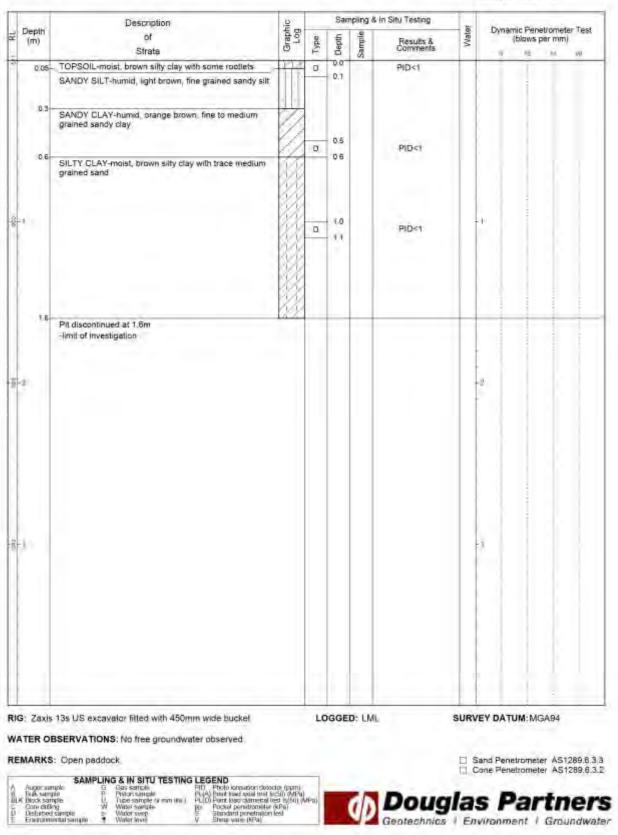
Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 601 M AHD

EASTING: 698705 NORTHING: 6081511 PIT No: 67 PROJECT No: 46162.12

DATE: 19/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: -EASTING: 698571 NORTHING: 6081628 PIT No: 68

PROJECT No: 46162.12 DATE: 18/6/2018 SHEET 1 OF 1

Page 1	Description	P.			npling & In Situ Testing			Paintenia Ganatiameter Tast			
Depth (m)	of Strate	Graphic	Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Tes (blows per mm)			
	TOPSOIL-brown silty clay	122	D	0.0		PID<1	T				
0.2	SILTY CLAY brown/mottled grey/brown silty clay with sand			- 05							
			O	ps.		PIDel					
1 1.0-	SAND- becoming predominantly sand with some silty clay.	100	D	- 1.0		PID<1		<u>-</u> +			
								-			
2.7	Pit discontinued at 1.7m -limit of investigation				П		Ť				
i								2			
į.								-1			
	13s US excavator fitted with 450mm wide bucket						1	VEY DATUM: MGA94			

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Open paddock

SAMPLING & IN SITU TESTING LEGEND

G. Gas sample
Finder sample
Finder sample or min law j
Waser sample
Waser sample
Finder sample or min law j
Waser sample or min law j
Waser sample
Finder Finder Sample or min law j
Waser sample
Finder Sample or min law j
Pocket pendiroceter (kPa)
Finder Sample or min law j
Finder Sample or Sample or min law j
Finder Sample or Sample or min law j
Finder Sample or

Douglas Partners

Geotechnics | Environment | Groundwater

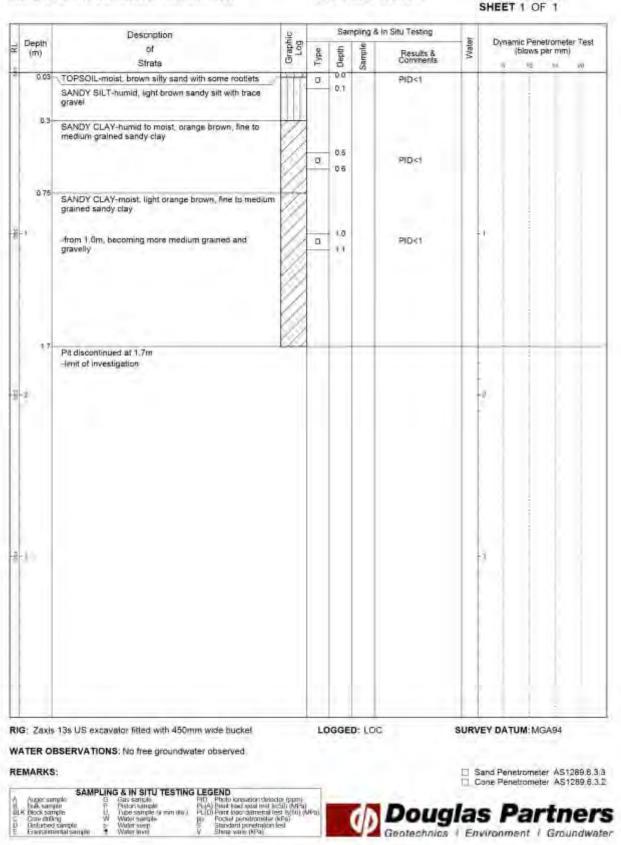
Sand Penetrometer AS1289.6.3.3

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 587 M AHD

EASTING: 698588 NORTHING: 6081473 PIT No: 69

PROJECT No: 46162.12 DATE: 19/6/2018



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 585 M AHD

EASTING: 698447 NORTHING: 6081602 PIT No: 70

PROJECT No: 46162.12 DATE: 19/6/2018 SHEET 1 OF 1

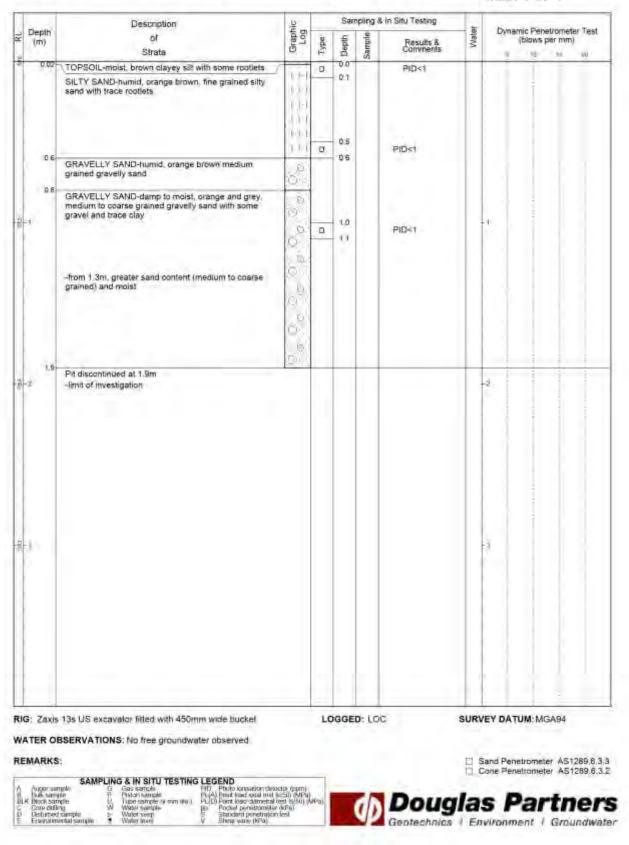
Depth	Description	을.			1.0	n Situ Testing	100	Dynamic Penetrometer Test		
(m)	of Strate	Graphic	Type	Depth	Sample	Results & Comments	Water	(bla	ws per mm)	M. LEPI
	FILLING-humid, dark grey to grey, fine to medium grained silty sand with trace gravel		0	0.0	0,	PID-1.1				
D.	-at 0,4m, surface level, layer of buried grass			0.5				3		
	SILTY SAND-humid, grey silty sand AND clayey sand (medium to coarse grained) with trace grayer	1 (2) 1 (1) 1 (0)	O	D.S.						
=1		101   103   103   101   101   101	ū	- 10		PIDe1_4		-+-		
-z	-at 2.0m, with some coarse grained gravel	1 (4)   1 (4)	p	2.0		PIDet		-2		
2.	Pit discontinued at 2.5m -limit of Investigation	)01								İ
-10								-1		
	ielco Acera Geospec SK135SR filled with 777		LO	GGE	o: Loc		SURV	EY DATUM	MGA94	
TER	DBSERVATIONS: No free groundwater observed									

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 586 M AHD

EASTING: 698457 NORTHING: 6081434 PIT No: 71 PROJECT No: 46162.12

DATE: 19/6/2018 SHEET 1 OF 1



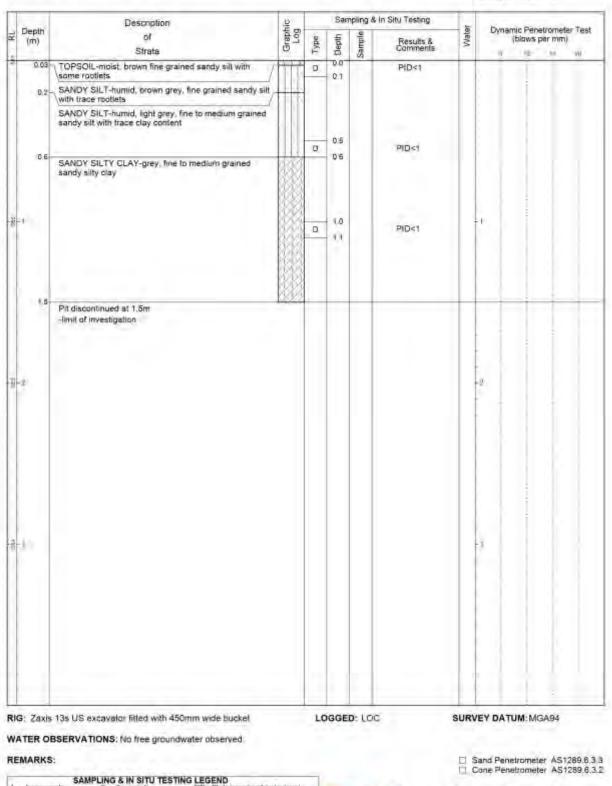
CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 587 M AHD

EASTING: 698344 NORTHING: 6081568 PIT No: 72

PROJECT No: 46162.12 DATE: 19/6/2018

SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 584 M AHD PIT No: 73 EASTING: 698368 PROJECT I

NORTHING: 6081388

PROJECT No: 46162.12

DATE: 19/6/2018 SHEET 1 OF 1

Sampling & In Situ Testing Description Graphic Dynamic Penetrometer Test Depth 10 )He Results & Comments (blows per mm) Strate 0.0 TOPSOIL-moist, brown, fine grained sandy silt with rootlets O PID<1 0.1 SANDY CLAY-damp, grey mottled orange, fine to medium grained sandy clay GRAVELLY SAND-humid, brown and orange, fine to coarse grained gravelly sand D D CLAYEY SAND-moist, grey and orange, medium to coarse grained clayey sand with some gravel CLAYEY SAND-moist, golden brown, fine to medium grained clayey sand (greater sand content than previous Pit discontinued at 1.6m -limit of investigation B-2 8-1 LOGGED: LOC SURVEY DATUM: MGA94 RIG: Zaxis 13s US excavator fitted with 450mm wide bucket WATER OBSERVATIONS: No free groundwater observed

REMARKS: White congiomerate rock cobbles present at surface- not found in test pit at depth

□ Sand Penetrometer AS1289.8.3.3
□ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A Nuccessmoke G Gas sample

If I National I Note that I

(1) Photo foreaster detector (ppm)
(A) head head agoid mit les (50) (6474)
(D) Periz less datinetal lest (s(34) (APa)
(Popul penatronete (APa)
(Shang wine (APa)

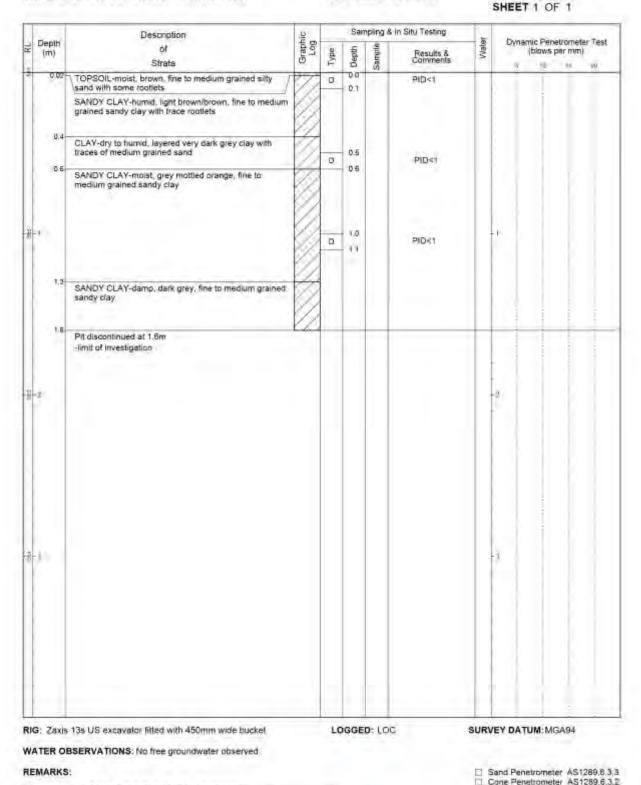


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 587 M AHD

EASTING: 698317 NORTHING: 6081519 PIT No: 74

PROJECT No: 46162.12 DATE: 19/6/2018



SAMPLING & IN SITU TESTING LEGEND

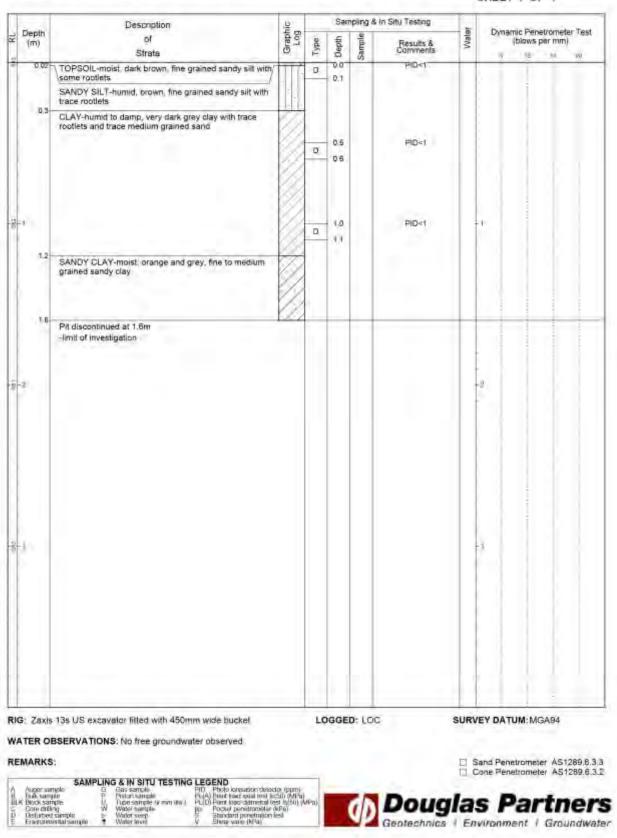
ouglas Par

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 583 M AHD

EASTING: 698212 NORTHING: 6081544 PIT No: 75 PROJECT No: 46162.12

DATE: 19/6/2018 SHEET 1 OF 1



CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 584 M AHD

EASTING: 698262 NORTHING: 6081566 PIT No: 76

PROJECT No: 46162.12 DATE: 19/6/2018 SHEET 1 OF 1

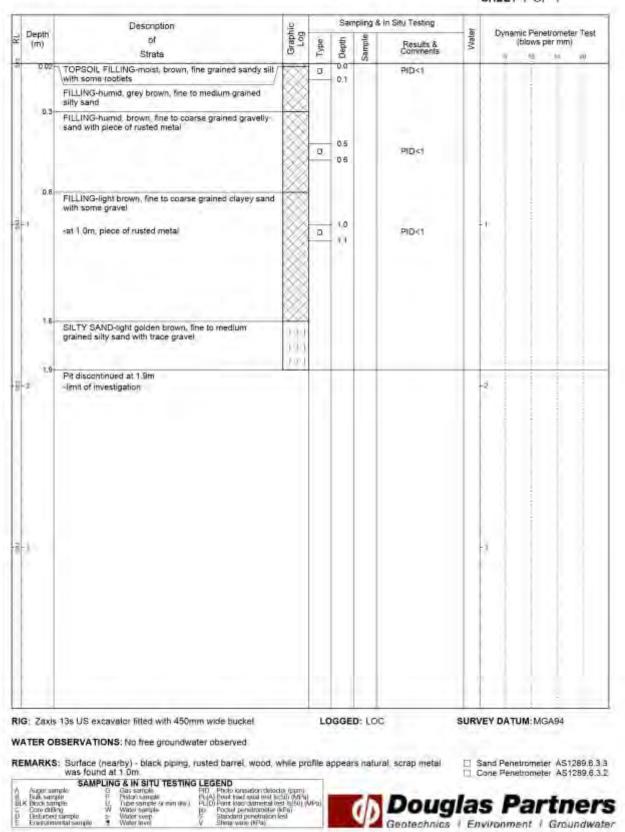
Please	Description	를		San		n Situ Testing		Dynamic Penetrometer Test			
Depth (m)	of Strate	Graphic	Type	Depth	Sample	Results & Comments	Water		blows per mm)	W)	
	FILLING-humid, light orange brown, fine to medium grained silty-sand with trace anthropogenic material (black plastic bags)		O	0.1		PID<1					
			D	0.4		PID<1					
=1	base of stockpile		D	- 1.0		PID<1		+			
	-at 1.7m, black plastic bag embedded in side wall										
-2 24-	-at 2.3m, cobbles and boulders dark grey claystone/shale SANDY CLAY-humid, brown and light grey, fine to medium grained sandy clay		D	2.1		PID<1		Ź	÷		
-1 11-			а	3.0		PIDet		-1			
	Pit discontinued at 3.1 m -limit of investigation										
	13s US excavator fitted with 450mm wide bucket		LO	GGE	D: Loc		SUR	VEY DATI	JM:MGA94		
	BSERVATIONS: No free groundwater observed :: Test pill conducted through stock pile								trometer AS128		

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 585 M AHD

EASTING: 698203 NORTHING: 6081608 PIT No: 77 PROJECT No: 46162.12

DATE: 19/6/2018 SHEET 1 OF 1



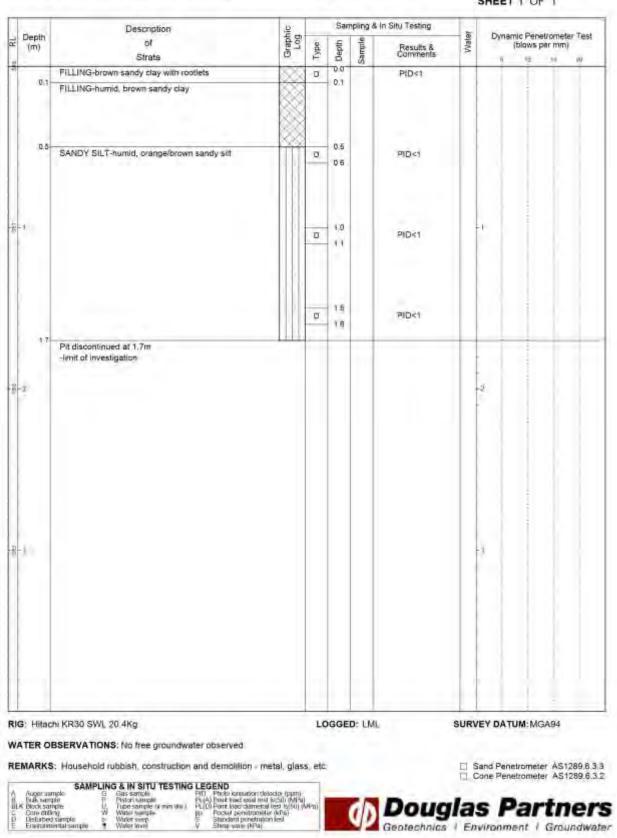
CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 588 M AHD

EASTING: 697875 NORTHING: 6081915 PIT No: 78

PROJECT No: 46162.12 DATE: 25/6/2018

DATE: 25/6/2018 SHEET 1 OF 1

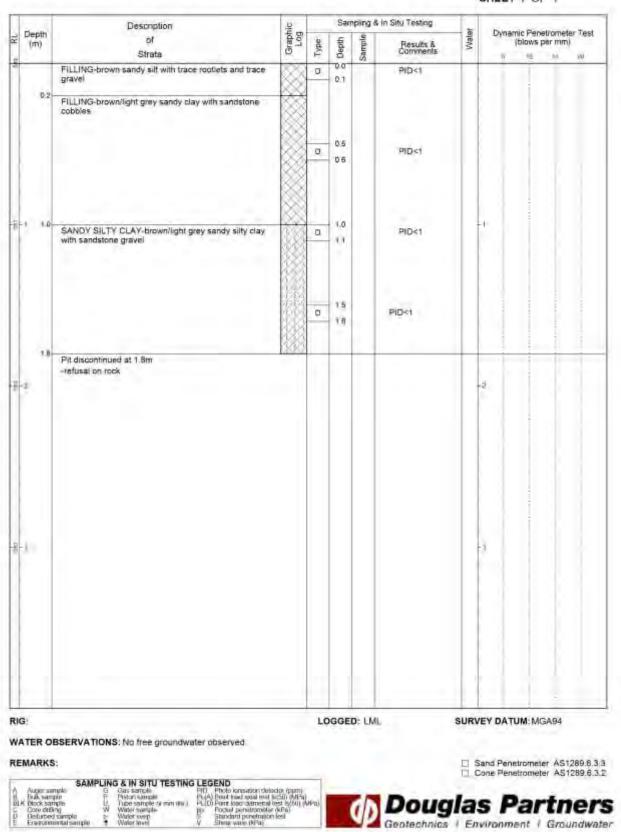


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 588 M AHD

EASTING: 697833 NORTHING: 6081875 PIT No: 79

PROJECT No: 46162.12 DATE: 25/6/2018 SHEET 1 OF 1

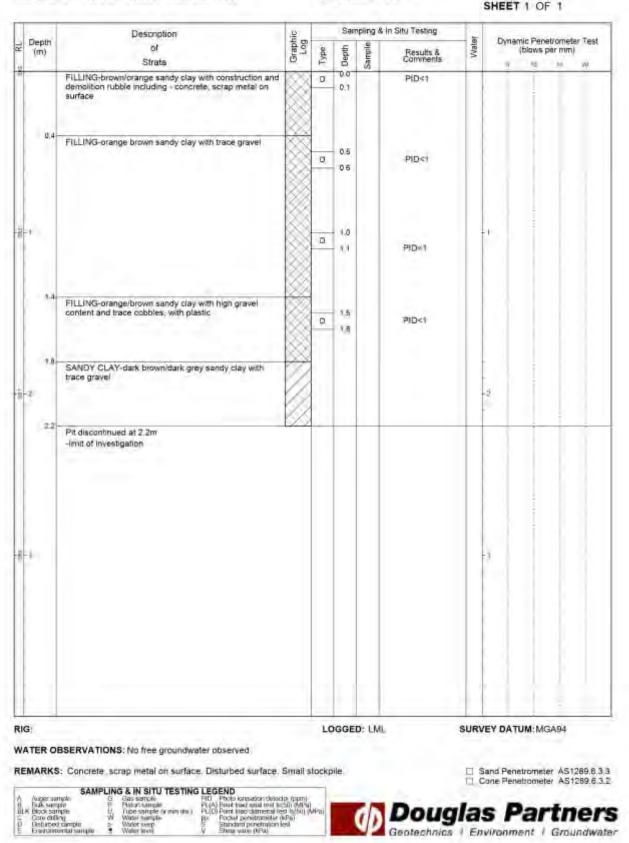


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 589 M AHD

EASTING: 697726 NORTHING: 6081777 PIT No: 80

PROJECT No: 46162.12 DATE: 25/6/2018

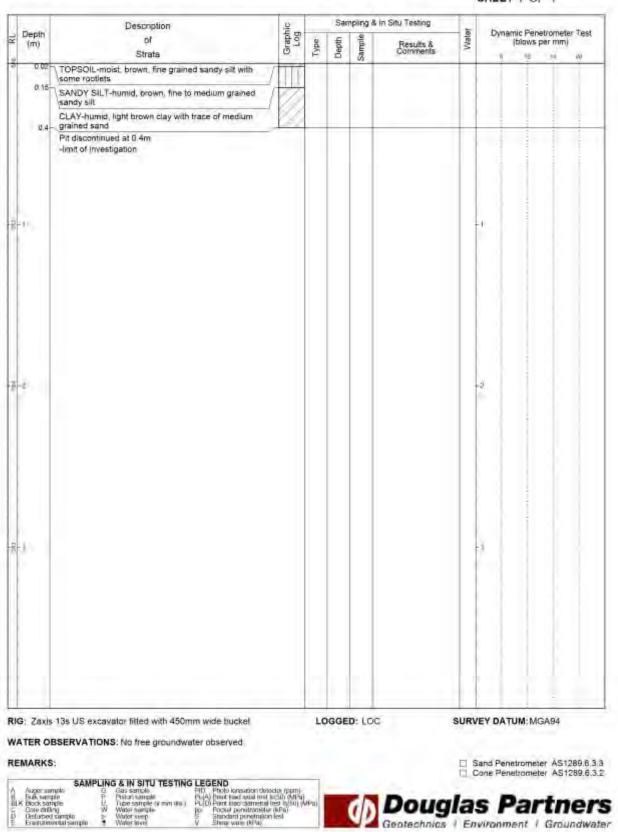


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 586 M AHD

EASTING: 698270 NORTHING: 6081645 PIT No: 51-1 PROJECT No: 46162.12

DATE: 20/6/2018 SHEET 1 OF 1

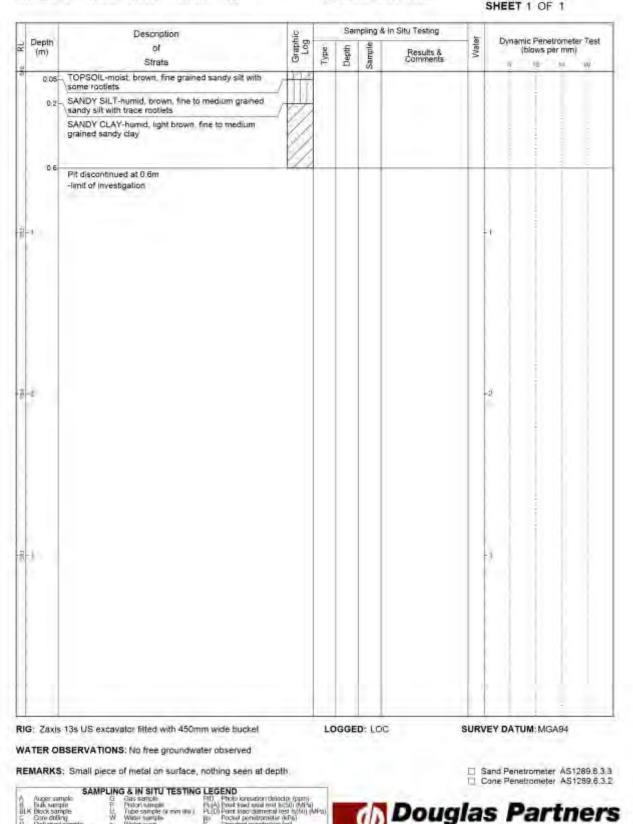


CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 586 M AHD

EASTING: 698293 NORTHING: 6081646 PIT No: 51-2

PROJECT No: 46162.12 DATE: 20/6/2018



Geotechnics | Environment | Groundwater

CLIENT: Canberra Estates Consortium No 4 Pty Ltd

PROJECT: Proposed Subdivision LOCATION: Lot 6 DP239080 Alderson Place SURFACE LEVEL: 585 M AHD EASTING: 698252

PIT No: 52-1 PROJECT No: 46162.12

NORTHING: 6081644 DATE: 20/6/2018 SHEET 1 OF 1

	Description	P.		San	4	in Situ Testing		Painamie Departments Past
Depth (m)	of Strate	Graphic	Type	Depth	Samule	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
0.03	TOPSOIL-brown, fine grained sandy silt with some	111		Ē	o2		$\Box$	
	SANDY SILT-humid, prown, fine to medium grained	Her						1
	sandy silt	m					11.1	
							11.3	
		Ш					11.3	
0.6	CLAY-humid, light brown clay with trace of medium	1						
	grained sand	10						
0.9		12						
1	Pit discontinued at 0.9m -limit of investigation							+
0							11	Ž.
								1 1 I I I
30								j i
							11.1	
: Zaxis	13s US excavator fitted with 450mm wide bucket		LO	GGE	o: Loc		SURV	EY DATUM: MGA94
TER O	BSERVATIONS: No free groundwater observed							
	: Extra test pit per client request (no sampling required)						D S	and Penetrometer AS1289.8.
- Villa	CAMBI INC & IN CITI TECTING I EGEND							one Penetrometer AS1289.6
Augier sur Fulli, semp C Block bat	note G Gas sample PHD Photo ionsation detock	p (ppm) 50) (Min)	Mari I			Dane		- Dorden
Core drift	ng W Wash neither to Pocket peristronistic of sample 5 Wash neither 5 Standard principal or in	CF BI	- r u)	- 9	(1)	Doug	ıa.	s Partner



Page 1 of 8

# DATA QUALITY ASSESSMENT

# Q1. Data Quality Objectives

The detailed site investigation report was prepared with reference to the seven step data quality objective (DQO) process which is provided in Appendix B, Schedule B2 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 as amended 2013 (NEPC, 2013). The DQO process is outlined as follows.

- Stating the Problem:
- Identifying the Decision;
- · Identifying inputs to the Decision;
- Defining the Boundary of the Assessment;
- Developing a Decision Rule;
- · Specifying Acceptable Limits on Decision Errors; and
- Optimising the Design for Obtaining Data.

The DQOs have been addressed within the report as shown in Table Q1.

#### Table Q1: Data Quality Objectives

Data Quality Objective	Report Section where Addressed
State the Problem	S1 Introduction
Identify the Decision	S15 Conclusions and Recommendations
Identify Inputs to the Decision	S1 Introduction S3 Site Identification and Description S4 Soil Landscape, Regional Geology and Hydrogeology S5 Site History S8 Potential for Contamination S9 Preliminary Conceptual Site Model S12 Site Assessment Criteria S13 Results of the Investigation S14 Revised Conceptual Site Model
Define the Boundary of the Assesament	S3 Site Identification and Description  Drawing 1 – Appendix 6
Develop a Decision Rule	S12 Site Assessment Criteria
Specify Acceptable Limits on Decision Errors	S10 Sampling and Analysis Plan and Methodology S12 Site Assessment Criteria QA/QC Procedures and Results – Sections Q2, Q3
Optimise the Design for Obtaining Data	S10 Sampling and Analysis Plan and Methodology QA/QC Procedures and Results - Sections Q2, Q3

Data Quality Assessment 360A Alderson Place: Trales, NSW 46162.12 R.001 Rev0 July 2018



Page 2 of 8

### Q2. FIELD AND LABORATORY QUALITY CONTROL

The field and laboratory quality control (QC) procedures and results are summarised in Tables Q2 and Q3. Reference should be made to the fieldwork procedures in Section 10 and the laboratory certificate (Appendix H) for further details.

#### Table Q2: Field QC

Item	Frequency	Acceptance Criteria	Achievement
Intra-laboratory replicates	>10% primary samples	RPD <30% inorganics), <50% (organics)	yes!

NOTES

qualifative assessment of RPD results overall: refer Section Q2.1

#### Table Q3: Laboratory QC

Item	Frequency	Acceptance Criteria	Achievement
Analytical laboratories used		NATA accreditation	yes
Holding times		In accordance with NEPC (2013) which references various Australian and international standards	yes
Laboratory / Reagant Blanks	1 per lab batch	<pql< td=""><td>yes</td></pql<>	yes
Laboratory duplicates	10% primary samples	<5xPQL - any RPD; >5xPQL - 0- 50%RPD	yes
Matrix Spikes	1 per lab batch	70-130% recovery (inorganics); 60-140% (organics)	yes
Surrogate Spikes	organics by GC	70-130% recovery (inorganics); 60-140% (organics)	yes
Control Samples	I per lab batch	70-130% recovery (inorganics); 60-140% (organics)	yes

In summary, the QC data is considered to be of sufficient quality to be acceptable for the assessment.

### Q2.1 Soil Intra-Laboratory Replicates

An intra-laboratory replicate was analysed as an internal check of the reproducibility within the primary laboratory Envirolab Services Pty Ltd (Envirolab) and as a measure of consistency of sampling techniques. The comparative results of analysis between original and intra-laboratory replicate sample are summarised in Table Q4.

Note that, where both samples are below LOR/PQL the difference and RPD have been given as a zero. Where one sample is reported below LOR/PQL, but a concentration is reported for the other, the LOR/PQL value has been used for calculation of the RPD for the less than LOR/PQL sample.

Data Quality Assessment 360A Alderson Place: Trales, NSW 46162.12.R.001 Rev0 July 2018



Page 3 of 8

# Table Q4: Relative Percentage Difference Results - Intra-laboratory Replicates

		-						Mata	is .					P	AH			11	EH .	
Lub	Sample ID	Date Sampled	Modia	Units	As	Ēd	Cr	Ğu	Pb	Hg	M	Žir	Total	Bap TEQ	Ban	Naphthalone	C6-C10	>C10-C18	>C16-C34	>C34-C40
Envirolab	Pit 70 0.0-0 1	19/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td>9</td><td>7</td><td>16</td><td><pql< td=""><td>5</td><td>35</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>∞PQL</td><td><pql< td=""><td>280</td><td>110</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>9</td><td>7</td><td>16</td><td><pql< td=""><td>5</td><td>35</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>∞PQL</td><td><pql< td=""><td>280</td><td>110</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	9	7	16	<pql< td=""><td>5</td><td>35</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>∞PQL</td><td><pql< td=""><td>280</td><td>110</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	5	35	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>∞PQL</td><td><pql< td=""><td>280</td><td>110</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>∞PQL</td><td><pql< td=""><td>280</td><td>110</td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>∞PQL</td><td><pql< td=""><td>280</td><td>110</td></pql<></td></pql<></td></pql<>	<pql< td=""><td>∞PQL</td><td><pql< td=""><td>280</td><td>110</td></pql<></td></pql<>	∞PQL	<pql< td=""><td>280</td><td>110</td></pql<>	280	110
Envirolati	BD1/19	19/06/2018	500	mg/kg	<pql< td=""><td><pql< td=""><td>45</td><td>6</td><td>19</td><td><pql< td=""><td>5</td><td>10</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>45</td><td>6</td><td>19</td><td><pql< td=""><td>5</td><td>10</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	45	6	19	<pql< td=""><td>5</td><td>10</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	5	10	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffe	rence		mg/kg	NA.	NA.	35	1	T	NA:	0	25	NA.	NA	NA.	NA	NA.	NA.	NA.	NA
	RI	PO		-%	NA.	NA.	133	15	5.4	NA.	0	111	NA .	NA	NA	NA	NA.	NA	NA.	NA
Envirolab	Pit 81 0 0-0 1	19/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td>37</td><td>6</td><td>16</td><td><pql< td=""><td>5</td><td>12</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>⊲PQL</td><td><pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>37</td><td>6</td><td>16</td><td><pql< td=""><td>5</td><td>12</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>⊲PQL</td><td><pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	37	6	16	<pql< td=""><td>5</td><td>12</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>⊲PQL</td><td><pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	5	12	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>⊲PQL</td><td><pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>⊲PQL</td><td><pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>⊲PQL</td><td><pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<></td></pql<></td></pql<>	<pql< td=""><td>⊲PQL</td><td><pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<></td></pql<>	⊲PQL	<pol< td=""><td><pql< td=""><td><pq!< td=""></pq!<></td></pql<></td></pol<>	<pql< td=""><td><pq!< td=""></pq!<></td></pql<>	<pq!< td=""></pq!<>
Envirolab	BD2/19	19/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td>15</td><td>6</td><td>14</td><td><pql< td=""><td>5</td><td>12</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td>*PQL</td><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>15</td><td>6</td><td>14</td><td><pql< td=""><td>5</td><td>12</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td>*PQL</td><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	15	6	14	<pql< td=""><td>5</td><td>12</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td>*PQL</td><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<>	5	12	<pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td>*PQL</td><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td><pql< td=""><td><pql< td=""><td>*PQL</td><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<>	<pql< td=""><td><pql< td=""><td>*PQL</td><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>*PQL</td><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	*PQL	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffe	rence		mg/kg	NA	NA.	21	0	2	NA	0	Q	NA.	NA	NA.	NA	NA.	NA.	NA	NA
	RI	PĎ		%	NA.	NA.	79	0	13	NA	0	ū	NA	NA	NA:	NA	NA.	NA	NA	NA
Envirolab	Pit 51 0.5-0.6	19/06/2018	soil	mg/kg	<pol< td=""><td><pql< td=""><td>8</td><td>В</td><td>24</td><td><pql< td=""><td>4</td><td>83</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pol< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<></td></pol<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pol<>	<pql< td=""><td>8</td><td>В</td><td>24</td><td><pql< td=""><td>4</td><td>83</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pol< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<></td></pol<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	8	В	24	<pql< td=""><td>4</td><td>83</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pol< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<></td></pol<></td></pql<></td></pol<></td></pql<></td></pql<>	4	83	<pql< td=""><td><pol< td=""><td><pql< td=""><td><pol< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<></td></pol<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td><pql< td=""><td><pol< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<></td></pol<></td></pql<></td></pol<>	<pql< td=""><td><pol< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<></td></pol<>	«PQL	<pql< td=""><td><pol< td=""><td><pq< td=""></pq<></td></pol<></td></pql<>	<pol< td=""><td><pq< td=""></pq<></td></pol<>	<pq< td=""></pq<>
Envirolab	DB3/19	19/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td>7</td><td>6</td><td>23</td><td><pql< td=""><td>6</td><td>38</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>7</td><td>6</td><td>23</td><td><pql< td=""><td>6</td><td>38</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	7	6	23	<pql< td=""><td>6</td><td>38</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	6	38	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffe	rence		mg/kg	NA.	NA.	1	2	-1	NA	2	25	NA.	NA	NA.	NA	NA	NA.	NA.	NA
	Ri	PD		%	NA.	NA.	13	28	4.2	NA	40	49	NA	NA .	NA	NA	NA .	NA	NA	NA
Envirolab	Pit 22 0.0-0.1	20/06/2018	soil	mg/kg	<pol< td=""><td><pql< td=""><td>7</td><td>3</td><td>10</td><td><pql< td=""><td>3  </td><td>14</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pol<>	<pql< td=""><td>7</td><td>3</td><td>10</td><td><pql< td=""><td>3  </td><td>14</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	7	3	10	<pql< td=""><td>3  </td><td>14</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<>	3	14	<pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
Envirolab	BD1/20	20/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td>8</td><td>5</td><td>16</td><td><pql< td=""><td>4</td><td>33</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql.< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql.<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>8</td><td>5</td><td>16</td><td><pql< td=""><td>4</td><td>33</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql.< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql.<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	8	5	16	<pql< td=""><td>4</td><td>33</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql.< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql.<></td></pql<></td></pql<></td></pql<></td></pql<>	4	33	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql.< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql.<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql.< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql.<></td></pql<></td></pql<>	<pql< td=""><td><pql.< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql.<></td></pql<>	<pql.< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql.<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffe	rence		mg/kg	NA	NA	1	2	7	NA:	1	19	NA.	NA.	NA	NA	NA.	NA	NA	NA
	R	PD		W	NA	NA.	13	50	46	NA	28	80	NA:	NA	NA	NA	NA.	NA.	NA	NA

Data Quality Assessment 360A Alderson Place, Tralee, NSW 46162.12 R 001 Rev0 July 2018



Page 4 of 8

							Motals PAH TRH						_							
Lab	Sample (D	Date Sampled	Media	Units	As	Ed	cr	Cu	Pb	На	NI	Zn	Total	Bap TEQ	Вар	Naphthalene	C6-C10	>010-016	>C16-C3A	>C34-C40
Envirorab	Pit 40 0 0-0 1	22/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td>8</td><td>6</td><td>17</td><td><pql< td=""><td>4.</td><td>28</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>8</td><td>6</td><td>17</td><td><pql< td=""><td>4.</td><td>28</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	8	6	17	<pql< td=""><td>4.</td><td>28</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	4.	28	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pqi< td=""></pqi<></td></pql<></td></pql<>	<pql< td=""><td><pqi< td=""></pqi<></td></pql<>	<pqi< td=""></pqi<>
Envirolab	BD1/22	22/06/2018	SOIL	mg/kg	<pql< td=""><td><pql< td=""><td>10</td><td>7</td><td>18</td><td><pql< td=""><td>5</td><td>32</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>10</td><td>7</td><td>18</td><td><pql< td=""><td>5</td><td>32</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	10	7	18	<pql< td=""><td>5</td><td>32</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	5	32	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<>	<pql< td=""></pql<>
	Diffe	rence		mg/kg	NA.	NA.	2	1	1	NA -	1	4	NA	NA	NA.	NA	NA.	NA:	NA	NA
	RI	20		16	NA.	NA.	22	15	5.7	NA	22	13.3	NA-	NA	NA	NA	NA	NA.	NA	NA.

Notes: NA/NT-

not applicable, not tested

Data Quality Assessment 360A Alderson Place, Tralee, NSW 46162.12,R.001 Rev0 July 2018

Page 5 of 8

# Table Q4 Continues: Relative Percentage Difference Results - Intra-laboratory Replicates

						БТ	EX	- 1	Phonol					OCP <sub>N</sub>					OPP	PCB
Lab	Sample ID	Data Sampled	Media	Units	Benzane	Toluene	Ethylbenzene	xylene	Phenol	DDT+DDD+DDE	Aldrin • Dieldrin	Chlordane	Endosulfan	Endeln	Няріасніот	нсв	Methoxychlor	Total OCPs	Total	Total
Envirolab	Pit 70 0.0-0.1	19/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<>	<pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pol<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<>	<pql< td=""><td>≺PQ</td></pql<>	≺PQ
Envirolab	BD1/19	19/06/2018	soil	mg/kg	∉PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>±PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>±PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>±PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>±PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	±PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffie	ense			NA.	NA.	NA	NA	NA.	NA.	NA	NA.	NA	NA.	NA	NA	NA.	NA	NA:	NA
	RI	D			NA	NA	NA	NA.	NA.	NA	NA .	NA	NA.	NA	NA	NA.	NA.	NA	NA	NA
Envirolab	PH 61 0.0-0.1	19/06/2018	lice	mg/kg	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<>	<pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
Enviroleti	BD2/19	19/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffe	ence			NA	NA.	NA	NA.	NA.	NA	NA.	NA.	NA.	NA.	NA	NA	NA.	NA.	NA	NA
	RI	PD			NA -	NA	NA.	NA	NA .	NA-	NA	NA	NA	NA	NA	NA	NA	NA	NA.	N/A
Envirolab	Pit.51 0.5-0,6	19/06/2018	sail	mg/kg	<pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>-₹PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	≺PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td>-₹PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>-₹PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>-₹PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	-₹PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<></td></pql<>	≺PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>≺PQ</td></pql<></td></pql<>	<pql< td=""><td>≺PQ</td></pql<>	≺PQ
Envirolab	DB3/19	19/06/2018	soil	mg/kg	≪PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>&lt;₽QL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>&lt;₽QL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>&lt;₽QL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>&lt;₽QL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<>	<₽QL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<></td></pql<>	<pql< td=""><td><pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pol<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffe	rence			NA	NA.	NA.	NA	NA.	NA	NA	NA.	NA.	NA	NA	NA	NA.	NA.	NA:	NA
	RI	PD D			NA	NA	NA-	NA.	NA .	NA	NA.	NA .	NA.	NA.	NA	NA:	NA	NA	NA .	NA
Enviroleb	Pit 22 0.0-0.1	20/06/2018	soil	ma/ka	∉PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>-tPQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>-tPQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>-tPQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>-tPQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	-tPQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>«PQL</td><td><pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<></td></pql<>	«PQL	<pql< td=""><td><pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<></td></pql<>	<pol< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pol<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
Envirolab	BD1/20	20/06/2018	soil	mg/kg	≼PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td>≺PQL</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	≺PQL	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pq< td=""></pq<></td></pql<></td></pql<>	<pql< td=""><td><pq< td=""></pq<></td></pql<>	<pq< td=""></pq<>
	Diffe	rence			NA	NA:	NA.	NA.	NA	NA.	NA	NA.	NA.	NA	NA	NA	NA.	NA:	NA.	NA
	RI	D			NA.	NA.	NA.	NA.	NA	NA.	NA.	NA.	NA.	NA.	NA	NA:	NA	NA.	NA	NA

Data Quality Assessment 360A Alderson Place, Tralee, NSW 46162.12,R:001 Rev0 July 2018

						BT	EX	-	Phanol					OCPs					OPP	PCB
Lab	Sample ID	Data Sampled	Media	Units	Benzene	Toluene	Ethylbenzene	anajāk	Phenol	DDT +DDD +DDE	Aldrin + Dieldrin	Chlordane	Endosulfan	Endrin	Heptachtor	HCB	Methoxychior	Total OCPs	Total	Total
Envirolab	Pit 40 0.0-0.1	22/06/2018	soil	mg/kg	≪PQL	<pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""></pql<></td></pql<>	<pql< td=""></pql<>
Envirolab	BD1/22	22/06/2018	soil	mg/kg	<pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>NT</td><td>NT</td><td>NT .</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td></pql<></td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td><pql< td=""><td>NT</td><td>NT</td><td>NT .</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td></pql<></td></pql<></td></pql<>	<pql< td=""><td><pql< td=""><td>NT</td><td>NT</td><td>NT .</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td></pql<></td></pql<>	<pql< td=""><td>NT</td><td>NT</td><td>NT .</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td><td>NT</td></pql<>	NT	NT	NT .	NT	NT	NT	NT	NT	NT	NT	NT	NT
	Diffe	rence			NA	NA.	NA.	NA.	NA	NA	NA	NA.	NA:	NA.	NA	NA .	NA	NA:	NA.	NA
	RI	PD			NA	NA	NA.	NA.	NA	NA	NA	NA.	NA.	NA.	NA	NA	NA.	NA	NA:	NA

Notes: NA/NT - r

not applicable, not tested

Data Quality Assessment 360A Alderson Place, Tralee, NSW 46162.12,R.001 Rev0 July 2018



The calculated RPD values were within the acceptable range of  $\pm$  30 for inorganic analytes and  $\pm$  50% for organics with the exception of the ones in bold. However, these are not considered to be significant because:

- · Most of the recorded concentrations being at/ close to the practical quantitation limit,
- The majority of RPDs within a replicate pair being within the acceptable limits, however, where the RPDs were outside of the limits, both the primary and duplicate sample results were well below the site assessment criteria.
- All other QA/QC parameters met the DQIs.

Overall, the intra-laboratory replicate compansons indicate that the sampling techniques were generally consistent and repeatable.

# Q3. Data Quality Indicators

The reliability of field procedures and analytical results was assessed against the following data quality indicators (DQIs):

- . Completeness a measure of the amount of usable data from a data collection activity,
- Comparability the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness the confidence (qualitative) of data representativeness of media present onsite.
- Precision a measure of variability or reproducibility of data; and
- Accuracy a measure of closeness of the data to the 'true' value.

The DQIs were assessed as outlined in the following Table Q5.

Table Q5: Data Quality Indicators

Method(s) of Achievement
Planned targeted and grid locations sampled;  Preparation of field logs, sample location plan and chain of custody (COC) records;  Laboratory sample receipt information received confirming receipt of samples intact and appropriationess of the chain of custody.  Samples analysed for contaminants of potential concern (COPC) identified in the preliminary site investigation stage of the assessment  Completion of COC documentation;  NATA endorsed laboratory certificate provided by the laboratory.

Data Quality Assessment 380A Alderson Place, Trales, NSW 46162 12 R 001 Rev0 July 2018



Data Quality Indicator	Method(s) of Achievement
	discussed in Section Q2.
Comparability	Using appropriate techniques for sample recovery, storage and transportation, which were the same for the duration of the project;
	Works undertaken by appropriately experienced and trained DP environmental scientist/lengineer.
	Use of NATA registered laboratories, with test methods the same or similar between laboratories;
	Satisfactory results for field and laboratory QC samples.
Representativeness	Target media sampled;
	Spatial and temporal distribution of sample locations,
	Sample numbers recovered and analysed are considered to be representative of the target media and complying with DQOs,
	Samples were extracted and analysed within holding times,
	Samples were analysed in accordance with the analysis request.
Precision	Acceptable RPD between original samples and replicates;
	Satisfactory results for all other field and laboratory QC samples.
Accuracy	Satisfactory results for all field and laboratory QC samples.

Based on the above, it is considered that the DQIs have been complied with. As such, it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

Outg Quality Assessment 360A Alderson Place, Trales, NSW 46162.12.R.001 Rev0

1	1	-
1	07	0

# Douglas Partners Geotochnics - Engineers - Groundwider

# CHAIN OF CUSTODY DESPATCH SHEET

Project Project DP Con Prior St	Nam No: itact orag	e: Perso e:	NOCT H-61 esky (fi	(† 174 62 ( 87 S) idge)/	Atua Z shelved	DP LDP	SI Order No:	12197	26	To	12 A CHA Ph: (	shley Street TSWOOD 1 02) 9910 62	NSW 2067	 7		
Sample ID	Dati San	e npled	Sample Type S-soil W-water	Lab ID	pН	CEC	Clay Content	30	450	Analyte:					TCLP	Notes
AT19 05-0.6	20	16	S	1	×	×	W	×								
PIT 22 0.0-0.1 PIT 22 1-0-1-1			1	2				×			1					
T 2.2				3						×						80.00
1T 23				4				X			0 2					5
454 454 454 454		1		-			-	×				-17.17.55		1.	BOUR .	Envirolab Services †2 Ashley St
T24.				6				1		×				Env	Ch Ch	tiswood NSW 2057 Ph: (02) 9910 6209
VT 25		1		2		1		×		-				Jol	No:	194568
9 26	_	1		8	1			X	1	$\rightarrow$				Dat	e Received	22/6/18
7 26 17 21 17 27 17 27				9	1	_		1/3	-	×				The Re	Becaived eived By:	17 14.0
15271	_	+		-	1.	+		×	<del>  -  </del>	+^				Ter	olina: Icarilo	Mich /4.0
IT 2.8	-	-	$\vdash$	10	+ -	1		×	-	-				Se	cority (anta)	Beick Graken/Nene
17 28 1.6-0.1	-	-	1	-11	+-			X			-	-	-	_	-	
17 294	_		<u> </u>	12	ļ			-		X				_	_	
PQL (S)			mg/kg mg/L	-	+	-		+	1	+	-		-			
PQL = prac # - Metals Date relind Total num	to Ar quish ber o	nalyse ed:2: f samp	ion limit *. (Please cir 1.1.6(1.1). les in cont	cle): (	As Cd C	r Cu Pb	(Detection Li Zn Hg Ni Mr 48hr 24h	rFe	Please s receipt o	S RECEIVE ign and date f samples an e:	to ackno d return l		Address PO BOX	Partners Pt : 1487 FYSI	WICK	

M:/Environmental/QA-QC/AmendedC-Q-C,doc

582

Ø	Douglas Partners Geolechniss - Environment - Groundwaler
---	---

# CHAIN OF CUSTODY DESPATCH SHEET

		Sample			1000000	0.000			Analyte	s	icinta Hurst	********			
Sample D	Date Sampled	Type S-soil W-water	Lab ID	pН	CEC	Clay Content	Con	اهم	Czn	50				TCLP	Notes
(29.1	20/4/18	S	13				×								
1.0-0-1	1	1	14				×							348	
10-01			15						×						
10000000000000000000000000000000000000	(0-0.1)	7	16	e:			×								
131-1			17						X						
132			18				×								
33			19				X				152900				
(33	1		20	138					×		0.000				
£21 P	19/6/18		ンナ				X								
5.0.4	1		22				X			11					
52 5-1-6		1	23						×						
152 5.0.6 152 15-1-6 15-1-6	4	₩	24.				×								
QL(S)		mg/kg													
QL (W)	tion! acceptifed	mg/L	Vo nor I	aborator	Mathad	(Detection Lin	nie)	CAMPLE	RECEIVE	<u></u>		Cond	esults to:		
- Metals Date relin	to Analyse ( quished:?!	Please cin	cle): 🎖	s Cd C	r Cu Ph	Zn Hg №Mn	Fe	Please sig receipt of	n and date samples an	to ack	n by fax	Dougla Addres PO BO	as Partners	io Silvena na c	
						48hr 24hr		Signature	:			ACT 2	609		
AT (Circl	e):	Ć	Standa	ard) 7	2 hr	48hr 24hr	Ř	Date: 27	16/18 L	ab Ref	194568	Fax: (0	2) 6260 11	147	

M:/Environmental/QA-QC/AmendedC-O-C.doc

Douglas Partners Geotschries - Environment - Grossphater
--

# **CHAIN OF CUSTODY DESPATCH SHEET**

1000 0000	Sec. 10	Sample	I CASS		ANGEST SEC	V-245/55 - 1/4			Analyte	tn: Ja			300-040-0719	
Sample ID	Date Sampled	Type S-soil W-water	Lab ID	pН	CEC	Clay Content	Com	80	Con	20			TCLP	Notes
1554	19/6/18	-5	25				×							
1.22	1	1	26				×							1
1736			27				×							
1.0-1.1	4		28						×			W I		
36-5	20/6/18		28				×			1 2				
F27	1		30						×					
1757 5.2-2.3			31.					9=1	X					
11.23	4		32				X							
15-0-6	19/6/18		33				X							
0.0-0.1	20/6/18		34				X							
1761	19/6/18		35-	-			X							
1.0-0.1	Ь	P	36				X							
PQL (S)		mg/kg												
# - Metals Date relind Total num	tical quantitati to Analyse ( quished:3 ber of sampl quired by: e):	Please cir A. (.SaLu.S. es in conti	cle): 1 ainer:	S Cd C	r Cu Pb	Zn Hg 🕅 Mr	rFe ·	Please si receipt of Signature		to ack nd retur	Dougla Addres PO BC ACT 2	ss: X 1487	ers Pty Ltd FYSHWICK	

M:/Environmental/QA-QC/AmendedC-O-C.doc

4	73	5
	* 1	-

# Douglas Partners Gestechnist - Environment - Groundwater

# **CHAIN OF CUSTODY DESPATCH SHEET**

	Ĭ	Sample		e						Analyt							
Sample ID	Date Sam	Charles Co.	Type S-soil W-wate	Lab ID	pН	CEC	Clay Content	64	ما		Noo					TCLP	Notes
1763	18/6	118	S	37				X									
3.4	1		- 1	38				X.									
4. E.				39				X									
1.6° P	4	1		40	X	X	×	X					 				
T63.	19/6	(1×		41				×									
1693	18/6	110		42				×									
5-0.6	19/6	-		43				×			Ĭ						
17 69 17 70 10 -0.)	1	10		44				×				1.1					
205-20				45						×							
1.0-2.0				46				×								i de la constante de la consta	
1572				47	1886			×									
15.00.1		7	4	48				X									
PQL (S)			mg/kg														
PQL (W)	diam'r		mg/L	*Ac port	horaton	Mothod	(Detection Lin	nit)	CAMPI	ES RECEIV			Cond	results t	ar.	2 37	
# - Metals Date relin	to An	alyse ( d;7	Please	circle): %	s Cd C	r Cu Pb	Zn Hg N) Mn	Fe ·	Please	sign and dat of samples a	e to ac		Dougl Addre	as Parti	ners Pt		
		A COLUMN TO SERVICE							Signatu	re: <i>M</i> 7					FISE	IWICK	
TAT (Circl	le):	. Бу		Standa	ard 7	2 hr	48hr 24hr			22/6/18				02) 626	n 1147		

M:/Environmental/QA-QC/AmendedC-O-C.doc

595

Ø	Douglas Partners Gestechnics - Environment - Groundwaler
---	---

# CHAIN OF CUSTODY DESPATCH SHEET

		Sample				no. 14-550/m	.72	rea Evan	Analyte				88-0 78		i i
Sample ID	Date Sampled	Type S-soil W-water	Lab ID	pН	CEC	Clay Content	CAN		200	ds)	VTA BIT	製		TCLP	Notes
17.74	24	8	49				X								
5-0.6	19/6/18	1	50				X								
15-0.6 15-0.6	1		12				X								
T.20			52						X						
NT 77	p.		53	X	×	X	X								
301-18	13/9/18		54												
301-19	19(6(18		22				×								
102-19	19/6/18		26				X								
303-19	19/6/18		57				X								
301-20	20/4/14	4	SP				X		$\perp$						
TB			59								K				
TS			60		l .						X				
PQL (S)		mg/kg mg/L		-	-				_	+	_   ·				
PQL = prac # - Metals Date relind Total num	to Analyse ( quished:2 ber of samp	ion limit Please cir L.C.X les in cont	rcle): 0	As Cd C	r Cu Pb	(Detection Li Zn Hg N Mr 48hr 24h	n Fe 	Please s receipt o		e to ackno nd return t		Dougla Addre PO BO ACT 2	OX 1487 F	YSHWICK	



# SAMPLE RECEIPT ADVICE

Client Details						
Client	Douglas Partners Canberra					
Attention	Peter Storey					

46162.12, North Tralee DSI	
194568	
22/06/2018	
22/06/2018	
29/06/2018	
	194568 22/06/2018 22/06/2018

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	60 soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14.0
Cooling Method	ice
Sampling Date Provided	YES

Comments		
Nil		

Please direct any queries to:

Jacinta Hurst	
Phone: 02 9910 6200	
Fax: 02 9910 6201	
Email: jhurst@envirolab.com.au	
	Phone: 02 9910 6200 Fax: 02 9910 6201

Analysis Underway, details on the following page:

1011



Sample ID	FIRMING COUNTERAINES	SVITTH (CYD-CHO) IN SOIL	PANS IN SOIL	Digariocopouna Pesticitaent soil	the passacrated and sample	PCBRBI Sell	Acid Extractable matakin soil	Ashireton ID - soils	Welling sa	Clay \$0.120g	CEG	On Hold
Pit19-0.5-0.6	1	4	1	1	1	1	1	1	1	1	1	
Pit22-0.0-0.1	1	1	~	~	1	1	1	1				
Pit22-1.0-1.1	1	1	1				1					
Pit23-0,5-0,6	1	1	1	1	1	1	1	1				
Pit24-0.0-0.1	1	1	1	1	1	1	1	1				
Pit24-0.5-0.6	1	1	1				1					
Pit25-0.0-0,1	1	1	1	1	1	1	1	1				Т
Pit26-0.0-0.1	1	1	1	1	1	1	1	1				
Pit26-0.5-0.6	1	1	1				1					
Pit27-0.0-0.1	1	4	1	1	1	1	1	1				
Pit28-0.0-0.1	1	1	1	1	1	1	1	4				
Pit28-1.0-1.1	1	1	1				1					
Pit29-0.0-0.1	1	1	1	1	1	1	1	1				
Pit30-0.0-0.1	1	1	1	1	1	1	~	1	П			Т
Pit30-1.0-1.1	1	1	1				1					
Pit31-0.5-0.6	1	1	1	1	1	1	1	1	П			
Pit31-1.0-1.1	1	1	1	П			1			1		
Pit32-0.5-0.6	1	1	1	1	1	1	1	1				
Pit33-00.1	1	1	1	1	1	1	1	1				
Pit33-1.0-1.1	1	1	1				1					
Pit51-0.5-0.6	1	1	1	1	1	1	1	1				
Pit52-0.5-0.6	1	1	1	1	1	1	1	1				
Pit52-1.5-1.6	1	1	1				1					
Pit53-0.5-0.6	1	1	1	1	1	1	1	1				
Pit54-0.5-0.6	1	1	1	1	1	1	1	1				
Pit55-0.0-0.1	1	1	1	1	1	1	1	1				
Pit56-0.5-0.6	1	1	4	1	1	1	1	1				
Pit56-1.0-1.1	~	1	1				1					
Pit57-0.5-0.6	1	1	1	1	1	1	1	1				
Pit57-1.0-1.1	1	1	1				1					
Pit57-2.2-2.3	1	1	1				1		Е			
Pit58-0.0-0.1	1	1	1	1	1	1	1	1				

2 of 1



Sample ID	Though charite and say	SATTH (CAD-CAO) IN SOL	PANS IN SCII	Digariocopionna Peddiscin na voli	Management of the Parket of the State of the	PCBsus Sou	Acid Extractable matrixin soil	slick - El sossitisp	a lette	Clay 50 120u	CEC	On Held
Pit59-0.5-0.6	1	4	1	1	1	1	1	1				
Pit60-0.0-0.1	1	1	V	~	1	1	1	4				
Pit61-0.0-0.1	1	1	1	1	1	1	1	1				
Pit62-0.0-0.1	1	1	1	1	1	1	1	1				
Pit63-0.0-0.1	1	1	1	1	1	1	1	1				
Pit64-0.5-0.6	1	1	1	1	1	1	1	1				
Pit65-0.5-0.6	1	1	1	1	1	1	1	1				Т
Pit66-0.5-0.6	1	1	1	1	1	1	1	1	1	1	1	
Pit67-0.0-0.1	1	1	1	1	1	1	1	1				П
Pit68-0.0-0.1	1	4	1	1	1	1	1	1				
Pit69-0.5-0.6	1	1	1	1	1	1	1	4				
Pit70-0.0-0.1	1	1	1	1	1	1	1	1				
Pit70-0.5-0.6	1	1	1				1					
Pit71-0.0-0.1	V	1	1	V	4	1	1	1				Г
Pit72-0.5-0.6	1	1	1	1	1	1	1	1				
Pit73-0.0-0.1	1	1	1	1	1	1	1	1				
Pit74-0.0-0.1	1	1	1	1	1	1	1	1				
Pit75-0.5-0.6	1	1	1	1	1	1	1	1				
Pit76-0.0-0.1	V	1	1	1	1	1	1	1				
Pit76-2.0-0.1	1	1	1				1					
Pit77-0.5-0.6	1	1	1	1	1	1	1	1	1	1	1	
BD1/18												1
BD1/19	1	1	1	1	1	1	1	1				
BD2/19	1	1	1	1	1	1	1	1				
BD3/19	1	1	1	1	1	1	1	1				
BD1/20	1	1	1	1	1	1	1	1				
ТВ	1											
TS	1											

The 'v' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

#### Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.





## **CERTIFICATE OF ANALYSIS 194568**

#### **Client Details**

Client Douglas Partners Canberra

Attention Peter Storey

Address PO Box 1487, Fyshwick, ACT, 2609

### Sample Details

Your Reference 46162.12, North Tralee DSI

Number of Samples 60 soil

Date samples received 22/06/2018

Date completed instructions received 22/06/2018

#### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

#### Report Details

 Date results requested by
 29/06/2018

 Date of Issue
 29/06/2018

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing, Tests not covered by NATA are denoted with "

## Asbestos Approved By

Analysed by Asbestos Approved Identifier: Lucy Zhu Authorised by Asbestos Approved Signatory: Lucy Zhu

#### Results Approved By

Dragana Tomas, Senior Chemist Jeremy Faircloth, Organics Supervisor Ken Nguyen, Senior Chemist Lucy Zhu, Asbsestos Analyst Nick Sarlamis, Inorganics Supervisor Steven Luong, Senior Chemist Authorised By

Jacinta Hurst, Laboratory Manager





Event 1 of 68

Our Reference		194568-1	194568-2	194568-3	194568-4	194568-5
Your Reference	UNITS	P#19	PH22	PH22	Pit23	PR24
Depth		0.5-0.6	0.0-0.1	16-11	0.5-0.6	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		sol	soil	501	500	500
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C <sub>6</sub> - C <sub>1</sub>	mg/kg	<25	<25	<25	<25	<25
TRH C <sub>0</sub> = C <sub>11</sub>	mg/kg	<25	<25	<25	<25	<25
TPH C6 - C16 less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluena	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>≼1</td><td>&lt;1</td></t<>	≼1	<1
n+p-xylene	mg/kg	<2	2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	׍	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	*1	<1
Surrogate asa-Trifluorotoluene	-%:	92	89	90	90	90

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194568-6	194568-7	194568-8	194568-9	194568-10
Your Reference	LINITS	P#24	Pit25	Pd26	P#26	P#27
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.5-0.6	0,040.4
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2016	20/06/2018
Type of sample		sol	soil	soll	BOIL	soll
Date extracted	~	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
RH Cs - Cs	mg/kg	<25	<25	<25	<25	<25
RH Ca - Cu	mg/kg	<25	<25	<25	<25	<25
TPH Cit - Cito less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
oluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	*1	-01
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
aphthalene	mg/kg	×1	<1	<1	<1	<1
otal +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate asa-Trifluorotoluene	%	90	93	92	85	89

English (Cherry) = 194568

Date | 2 of 88

Our Reference		194568-11	194568-12	194568-13	194568-14	194568-15
Your Reference	UNITS	Pit28	Plt28	P#29	PI(30	Pit30
Depth		0.0-0:1	1.0-1.1	0.0-0.1	0.0-0.1	1.0-1.1
Date Sampled		20/06/2018	20/06/2018	20/08/2018	20/06/2018	20/06/2018
Type of sample		sol	sail	Soil	50/	500
Date extracted	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C6 - C6	mg/kg	<25	<25	<25	<25	<25
RH C <sub>fi</sub> = C <sub>H</sub>	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>6</sub> • C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
oluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
aphthalene	mg/kg	<1	׍	<1	<1	<1
otal +ve Xylenes	mg/kg	<1	<1	<1	*1	<1
Surrogate asa-Trifluorotoluene	%	91	85	-91	88	80

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194588-16	194568-17	194568-18	194568-19	194568-20
Your Reference	LINITS	P#31	Pittit	Prt32	Pri33	P#33
Depth		0.5-0.6	1.0-1.1	0.5-0.6	00.1	1,041,1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2016	20/06/2018
Type of sample		sol	soil	sof	BOIL	soll
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/05/2018
TRH Cs - Cs	mg/kg	<25	<25	<25	<25	<25
RH Co - Cw	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>II</sub> - C <sub>ID</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Coluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	-31
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate asa-Trifluorotoluene	%	93	109	94	92	93

Epropulati Planetorus 194568 Payanati Par

Dage | 3 of 88

Our Reference		194568-21	194568-22	194568-23	194568-24	194568-25
Your Reference	UNITS	P#51	Plt52	PitS2	Pit53	Pit54
Depth		0.5-0.6	0.5-0.6	1,5-1 6	0.5-0.6	0,5-0.6
Date Sampled		19/06/2018	19/06/2018	19/06/2018	19/06/2015	19/05/2018
Type of sample		soll	sail	SOIL	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	12	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C <sub>6</sub> - C <sub>1</sub>	mg/kg	<25	<25	<25	<25	<25
TRH Co + CH	mg/kg	<25	<25	<25	<25	<25
VTPH C6 - C10 less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	κţ	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	×1	<1
Surrogate asa-Trifluorotoluene	%	92	94	91	87	90

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194566-26	194568-27	194568-2B	194568-29	194568-30
Your Reference	LINITS	P455	PIE56	Pri56	Pit57	Pit57
Depth		0.0-0.5	0.5-0.6	1.0-1.1	0.5-0.6	1,0-1,1
Date Sampled		19/06/2018	19/06/2018	19/06/2018	20/06/2016	20/06/2018
Type of sample		sol	soil	sof	BOIL	soll
Date extracted	~	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/05/2018
RH Cr Cr	mg/kg	<25	<25	<25	<25	<25
RH Ca - Cu	mg/kg	<25	<25	<25	<25	<25
TPH Cit - Cito less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
oluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	-31
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	41	<1	<1
aphthalene	mg/kg	×1	<1	<1	<1	<1
otal +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	90	91	93	93

Envirolati Ringrama 194568 Riogrampian Rio Thise | 4 of 88

Our Reference		194568-31	194568-32	194568-33	194568-34	194568-35
Your Reference	UNITS	Pit57	Plt58	Pit59	Pit60	PR61
Depth		2,2-2.3	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	19/06/2018	20/06/2015	19/06/2018
Type of sample		sol	sail	Soil	50/	500
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C <sub>6</sub> - C <sub>1</sub>	mg/kg	<25	<25	<25	<25	<25
TRH Ci + Cii	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>5</sub> • C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	< 0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	×t	<1	<1	<1
otal +ve Xylenes	mg/kg	<1	<1	<1	*1	<1
Surrogate asa-Trifluorotoluene	-%:	93	89	90	93	88

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194566-36	194568-37	194568-38	194568-39	194568-40
Your Reference	LINITS	P#62	PII63	P/154	P865	Pit66
Depth		0.0-0.5	0.0-0.1	0.5-0.6	0.5-0.6	0.5-0.6
Date Sampled		19/06/2017	16/06/2018	18/06/2018	18/06/2016	18/06/2018
Type of sample		soil	soil	soil	BOIL	soll
Date extracted	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	- 4	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Cs - Cs	mg/kg	<25	<25	<25	<25	<25
TRH Co - Cu	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>ft</sub> - C <sub>ft</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	≪0.2	<0.2	<0.2	<0.2
Coluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	-61
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	41	<1	<1
naphthalene	mg/kg	×1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<b>*1</b>	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	93	94	94	91

Engradud (Grenorus 194568 Roo Dags | 5 of 88

Our Reference		194568-41	194568-42	194568-43	194568-44	194568-45
Your Reference	UNITS	P#67	PH68	Pit69	P#70	PR70
Depth		0.0-0.1	0.0-0.1	0.5-0.6	0.0-0.1	0,5-0.6
Date Sampled		19/06/2018	18/06/2018	19/06/2018	19/06/2018	19/05/2018
Type of sample		sol	sail	SOIL	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	14	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C <sub>6</sub> - C <sub>1</sub>	mg/kg	<25	<25	<25	<25	<25
TRH Co + CH	mg/kg	<25	<25	<25	<25	<25
VTPH C6 - C10 less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	41	<1	<1	<1	<1
naphthalene	mg/kg	<1	×t	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	×1	<1
Surrogate asa-Trifluorotoluene	- %-	95	86	84	91	89

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194566-46	194568-47	194568-48	194568-49	194568-50
Your Reference	LINITS	P#71	Pit72	Pit73	P074	P#75
Depth		0.0-0.5	0.5-0.6	0.0-0.1	0.0-0.1	0.5-0.6
Date Sampled		19/06/2017	19/06/2018	19/06/2018	19/06/2016	19/06/2018
Type of sample		sol	soil	soll	BOIL	soll
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	- 4	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Cs - Cs	mg/kg	<25	<25	<25	<25	<25
RH Ca - Cu	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>11</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Coluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	-61
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	88	108	116	114

Engrand (Income 194568

Tyler 6 of 88

Our Reference		194568-51	194568-52	194568-53	194568-55	194568-56
Your Reference	UNITS	Pit76	Plt76	PH77	801/19	BD2/19
Depth		0.0-0.1	2.0-0.1	0.5-0.6	8	-
Date Sampler		19/06/2018	19/06/2018	19/06/2018	19/06/2015	19/05/2018
Type of sample		sol	sail	Soil	50/	500
Date extracted	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C <sub>6</sub> - C <sub>1</sub>	mg/kg	<25	<25	<25	<25	<25
RH C <sub>i</sub> = C <sub>i</sub>	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>6</sub> • C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
oluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	41	<1	<1	<1	<1
aphthalene	mg/kg	<1	ĸŤ	<1	<1	<1
otal +ve Xylenes	mg/kg	<1	<1	<1	*1	<1
Surrogate asa-Trifluorotoluene	%	109	100	111	104	111

Our Reference		194588-57	194568-58	194568-59	194568-60
Your Reference	LINITS	BD3/19	BD1/20	TB	76
Depth		-			
Date Sampled		19/06/2018	20/06/2018	20/06/2018	20/08/2010
Type of sample		sol	soil	soft	Boll
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Cr Cr	mg/kg	<25	<25	<25	
TRH Co - Cu	mg/kg	<25	<25	<25	
TPH C <sub>ft</sub> - C <sub>ft</sub> less BTEX (F1)	mg/kg	<25	<25	<25	
Benzene	mg/kg	<0.2	<0.2	<0.2	99%
Toluene	mg/kg	<0.5	<0.5	<0.5	99%
Ethylbenzene	mg/kg	<1	<1	<1	99%
n+p-xylene	mg/kg	<2	<2	<2	99%
-Xylene	mg/kg	<1	<1	<1	99%
naphthalene	mg/kg	×1	<1	<t< td=""><td></td></t<>	
Total +ve Xylenes	mg/kg	<1	et	<1	
Surrogate aaa-Trifluorotoluene	%	109	124	111	102

Epper had Riverence 194568

Dage | 7 of 88

svTRH (C10-C40) in Soil						
Our Reference		194568-1	194568-2	194568-3	194568-4	194568-5
Your Reference	UNITS	P#19	Plt22	Pit22	Pit23	Pit24
Depth		0,5-0,6	0,0-0,1	1,0-11	0.5-0.6	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		Soli	soil	501	500	50
Date extracted	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
TRH Can - Cas	mg/kg	<50	<50	<50	<50	<50
TRH Crs - Cas	mg/kg	×100	<100	<100	<100	<100
TRH Cas - Cas	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>10</sub> +C <sub>-11</sub>	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50.	<50	<50	<50	<50
TRH >C <sub>16</sub> -C <sub>31</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C34 -C46	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	100	107	98	97	99
svTRH (C10-C40) in Soil						_
Our Reference		194568-6	194568-7	194568-8	194568-9	194568-10
Your Reference	UNITS	P#24	PH25	P1/26	PIt26	PH27
Depth		0.5-0.6	0.0-0.1	0:0-0.5	0.5-0.6	0.0-0.1

svTRH (C10-C40) in Soil						
Our Reference		194568-6	194568-7	194568-8	194568-9	194568-10
Your Reference	UNITS	P#24	Pit25	P1/26	Pit26	PH27
Depth		0.5-0.6	0.0-0.1	0:0-0.1	0.5-0.6	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/05/2018	20/06/2018
Type of sample		90d.	sail	soil	50	508
Date extracted	12	25/08/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	¥	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
TRH CHI - C14	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>20</sub>	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	110	<100	<100	<100
TRH >C to +C to	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>10</sub> = C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C15-C34	mg/kg	<100	<100	<100	<100	<100
TRH >C:4-C=	mg/kg	<100	120	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	120	<50	<50	<50
Surrogate o-Terphenyl	%	96	98	98	99	98

Cryo that I (\*\*\*\*\*\*\*\*\* 194568

Page | 8 of 88

Our Reference		194568-11	194568-12	194568-13	194568-14	194568-15
Your Reference	UNITS	P428	Plt28	P/129	Pl(30	Pit30
Depth:		0.0-0:1	1.0-1.1	0.0-0.1	0.0-0.1	1.0-1.1
Date Sampled		20/06/2018	20/06/2018	20/08/2018	20/06/2018	20/06/2018
Type of sample		soll	sail	SOIL	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
TRH Girl - Cia	mg/kg	<50	<50	<50	<50	<50
TRH Cris - Cas	mg/kg	<100	<100	<100	<100	<100
TRH C25 - C85	mg/kg	<100	<100	<100	<100	<100
TRH >C to -C to	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C 15C34	mg/kg	<100	<100	<100	<100	<100
TRH >Csi +Cso	mg/kg	120	<100	<100	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	120	<50	<50	<50	<50
Surragate o-Terphenyl	%	98	97	99	98	96

Our Reference		194568-16	194568-17	194568-18	194568 19	194568-20
		100000000000000000000000000000000000000				
Your Reference	UNITS	PMS1	Pitst	P#32	PII33	Pit33
Depth		0,5-0.6	1.0-1.1	0.5-0.6	00.1	1.0-1.1
Date Sampled		20/05/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		908	soil	soil	soil	301
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-	25/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>26</sub>	mg/kg	<100	<100	<100	<100	<100
TRH Cov Cov.	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C19 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C15-C34	mg/kg	<100	<100	<100	<100	<100
TRH >C u-Call	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	*6	98	98	98	100	97

Crystalat Romanie 194568

Tyler | 9 of 88

Our Reference		194568-21	194568-22	194568-23	194568-24	194568-25
Your Reference	UNITS	Pt51	Plt52	PH52	Pit53	Pit54
Depth		0.5-0.6	0.5-0.6	1,5-1.6	0,5-0.6	0,5-0.6
Date Sampled		19/06/2018	19/06/2018	19/06/2018	19/06/2018	19/05/2018
Type of sample		soll	sail	SOII	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Girl - Gia	mg/kg	<50	<50	<50	<50	<50
TRH Cry - Cas	mg/kg	<100	<100	<100	<100	<100
TRH Ch - Cis	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C+1-C34	mg/kg	<100	<100	<100	<100	<100
TRH >Gsi -Cso	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	97	95	93	98	97

svTRH (C10-C40) in Soil						
Our Reference		194568-26	194568-27	194568-78	194568-29	194568-30
Your Reference	UNITS	P)(55	Pit56	PHS6	PI657	Pit57
Depth		0.0-0.1	0.5-0.6	1.0-1.1	0:5-0.6	1.0-1.1
Date Sampled		19/05/2018	19/06/2018	19/06/2018	20/06/2018	20/06/2018
Type of sample		900	soil	soil	soil	301
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Cro - C14	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>26</sub>	mg/kg	<100	<100	<100	<100	<100
TRH Cay - Cai	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C16-C14	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>14</sub> -C <sub>41</sub>	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	**	96	95	94	97	94

(1991) htt 1(1991) = 194568

There | 10 of 88

Our Reference		194568-31	194568-32	194568-33	194568-34	194568-35
Your Reference	UNITS	Pit57	Plt58	PitS9	Pit60	PR61
Depth		2,2-2.3	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	19/06/2018	20/06/2018	19/06/2018
Type of sample		soll	sail	SOII	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Girl - Gia	mg/kg	<50	<50	<50	<50	<50
TRH Cry - Cas	mg/kg	<100	<100	<100	<100	<100
TRH Ch - Cis	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C+1-C34	mg/kg	<100	<100	<100	<100	<100
TRH >Csi +Cso	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	%	94	93	94	95	97

svTRH (C10-C40) in Soil						
Our Reference		194568-36	194568-37	194568-38	194568-39	194568-40
Your Reference	UNITS	PH62	Plf63	PHS4	PH65	P856
Depth		0.0-0.1	0.0-0.1	0.5-0.6	0:5-0,6	0.5-0.6
Date Sampled		19/05/2018	18/06/2018	18/06/2018	18/06/2018	18/06/2018
Type of sample		908	5011	soil	500	308
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>26</sub>	mg/kg	<100	<100	<100	<100	<100
TRH Cov Cov.	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C 19 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C16-C84	mg/kg	<100	<100	<100	<100	<100
TRH >C u -Call	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	16	97	97	96	94	95

Carporalist 1 (\*\*\*\*\*\*\*\*\*\*\* 194568

Page | 11 of 88

Our Reference		194568-41	194568-42	194568-43	194568-44	194568-45
Your Reference	UNITS	P#67	PH68	P/t69	P#70	PR70
Depth		0.0-0.1	0.0-0.1	0.5-0.6	0.0-0.1	9,5-0.6
Date Sampled		19/06/2018	18/06/2018	19/06/2018	19/06/2018	19/05/2018
Type of sample		soll	sail	SOIL	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Girl - Gia	mg/kg	<50	<50	<50	<50	<50
TRH Cry - Cas	mg/kg	<100	<100	<100	<100	<100
TRH Ch - Cis	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >Cvc - Cvc less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C+-C34	mg/kg	<100	<100	<100	<100	<100
TRH >C₃₁ -C∞	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	%	100	94	95	94	95

svTRH (C10-C40) in Soil		-				
Our Reference		194568-46	194568-47	194568-48	194568:49	194568-50
Your Reference	UNITS	P#71	Plt72	P#73	P074	P#75
Depth		0.0-0.1	0.5-0.6	0.0-0.1	0.0-0,1	0.5-0.6
Date Sampled		19/05/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Type of sample		908	soil	soil	500	301
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Cau - Cau	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>26</sub>	mg/kg	<100	<100	<100	<100	<100
TRH Cay - Cai	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C16-C14	mg/kg	<100	<100	<100	<100	<100
TRH >C14-C41	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	*6	95	94	90	94	95

There | 12 of 88

svTRH (C10-C40) in Soli						
Our Reference		194568-31	194568-52	194568-53	194568-55	194568-56
Your Reference	UNITS	Pit76	Plt76	PH77	801/19	BD2/19
Depth		0.0-0:1	2.0-0.1	0.5-0.6	8	-
Date Sampleri		19/06/2018	19/06/2018	19/06/2018	19/06/2015	19/05/2018
Type of sample		sol	sail	Soil	500	50
Date extracted	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
TRH Girl - Cia	mg/kg	<50	<50	<50	<50	<50
TRH Cty - Cas	mg/kg	<100	<100	<100	<100	<100
TRH Ch - Ca	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	×50
TRH >C+o - C+c less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C++-C3+	mg/kg	<100	<100	<100	<100	<100
TRH >Csi -Cso	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	<50	<50	<50	<50	<50
Surragate a-Terphenyl	%	94	92	93	96	97

Our Reference		194568-57	194568-58
Your Reference	UNITS	803/19	BD1/20
Depth.	1000	-	-
Date Sampled		19/06/2018	20/06/2018
Type of sample		90/	soll
Date extracted		25/06/2018	25/06/2018
Date analysed	-	26/06/2018	26/06/2018
TRH C10 - C14	mg/kg	<50	<50
TRH C <sub>10</sub> - C <sub>20</sub>	mg/kg	<100	<100
TRH Cay Cay	mg/kg	<100	<100
TRH >C10-C16	mg/kg	<50	<50
TRH >C15 - C16 less Naph(halene (F2)	mg/kg	<50	<50
TRH >C15-C14	mg/kg	<100	<100
TRH >C 14-Call	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surragate o-Terphenyl	*6	96	96

(194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 194568 | 19

There | 13 of 88

PAHs in Soil				10000		
Our Reference		194568-1	194568-2	194568-3	194568-4	194568-5
Your Reference	LINITE	Pris	PH22	Pit22	Pit23	Pit24
Depth		0,5-0,6	D,0-0.1	1,0-11	0.5-0,6	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/05/2018	20/06/2018	20/06/2018
Type of sample		800	soil	501	500	50
Date extracted		25/05/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	≤0,1	<0.1	≥0.1	≤0,1
Acenaphthene	mg/kg	<0.1	-<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0,1	40.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	≈0.1	<0.†	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	≤0.05	<0.05	< 0.05	<0.05	<0.05
indeno(1,2,3-c.d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0,1	<0.1	<0.1
Benzo(g.h.i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<b>&lt;0.05</b>	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0,5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	%	83	90	86	90	88

(194568 - 194568 ) (1997)

These 14 of 88

PAHs in Soil						
Our Reference		134568-E	194568-7	194568-8	194568-9	194568-10
Your Reference	UNITS	PH24	Pit25	PH26	Fit26	PR27
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.5-0.6	0.040.1
Date Sampled		20/06/2018	20/06/2018	20/08/2018	20/06/2015	20/06/2018
Type of sample		sol	sail	SOIL	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	< 0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	16	90	91	91	90	:91

Chymhat I (\*\*\*\*\*\*\*\*\*\*\* 194568 | K00 15 of 88

PAHs in Soil						
Our Reference		194568-11	194568-12	194568-13	194568-14	194568-15
Your Reference	UNITS	P428	Plt28	P#29	PI/30	P#30
Depth		0.0-0.1	1.0-1.1	0.0-0.1	0.0-0.1	1.041.1
Date Sampler		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		80/	sail	501	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	< 0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h.i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	93	91	93	89	85

(1990) htt 1 (1995) = 194558 | R00 16 of 88

PAHs in Soil						
Our Reference		194568-16	194568-17	194568-18	194568-19	194568-20
Your Reference	UNITS	Pit31	Plt31	PH32	PIR35	P#33
Depth		0.5-0.6	1.0-1.1	0.5-0.6	00,1	1.54.1
Date Sampler		20/06/2018	20/06/2018	20/08/2018	20/06/2018	20/06/2018
Type of sample		sol	sail	SOIL	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	< 0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0,5	<0.5
Surragate p-Terphenyl-d14	16	96	91	91	91	88

Chymhat I (\*\*\*\*\*\*\*\*\*\*\* 194568 | K00 Page | 17 of 88

PAHs in Soil						
Our Reference		194568-21	194568-22	194568-23	194566-24	194568-25
Your Reference	UNITS	P#51	Plt52	PHS2	Pit53	PM54
Depth		05-06	0.5-0.6	1,5-1.6	0506	9,5-0.6
Date Sampler		19/06/2018	19/06/2018	19/06/2018	19/06/2015	19/06/2016
Type of sample		sol	sail	SOII	500	500
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	< 0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	< 0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	< 0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0,5	<0.5
Surragate p-Terphenyl-d14	%	93	92	90	88	85

194558 (1900) 1 18 to 88

PAHs in Soil						
Our Reference		194568-26	194568-27	194568-28	194568-29	194568-30
Your Reference	UNITS	P455	Plt56	PHS6	Pit57	PH57
Depth		0.0-0-1	0.5-0.6	10-11	0,5-0.6	1.0-1.1
Date Sampler		19/06/2018	19/06/2018	19/06/2018	20/06/2018	20/06/2018
Type of sample		500	sail	SOII	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	rog/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	40,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0:1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0,5	<0.5
Surragate p-Terphenyl-d14	%	86	83	85	91	84

194568 (400 1) (82 | 19 of 88

PAHs in Soil			Name and Address of the Owner, where			
Our Reference		194568-31	194568-32	194568-33	194568-34	194568-35
Your Reference	UNITS	Pit57	Plt58	PH59	Pitido	PR61
Depth		22-23	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Date Sampler		20/06/2018	20/06/2018	19/06/2018	20/06/2018	19/06/2018
Type of sample		80/	sail	SOII	500	500
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	rog/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	< 0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	%	90	86	82	85	87

1.1(40 mm) /(mm) 194558 (100 1 (a) 20 of 88

PAH5 in Soil						
Our Reference		194568-36	194568-37	194568-38	194568-39	194568-40
Your Reference	UNITS	PW62	PH63	Pit64	Pit65	PR66
Depth		0.0-0.1	0.0-0,1	05-06	0506	9,5-0.6
Date Sampleri		19/05/2018	18/06/2018	18/08/2018	18/06/2018	18/06/2018
Type of sample		sor	sail	501	500	900
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	40,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	%	87	88	83	81	87

194568 (400 21 of 88

PAHs in Soil						
Our Reference		194568-41	194568-42	194568-43	194568-44	194568-45
Your Reference	UNITS	Pit67	Plt68	Pit69	P#70.	Pit70
Depth		0.0-0 1	0.0-0.1	0.5-0.6	0.0-0.1	9,5-0.6
Date Sampler		19/06/2018	18/06/2018	19/08/2018	19/06/2015	19/06/2018
Type of sample		sol	sail	SOII	500	500
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)flucranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	< 0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	107	102	86	104	93

Caryonalad J (American = 194558 R00

1 10 22 of 88

PAHs in Soil						
Our Reference		194568-46	194568-47	194568-48	194568-49	194568-50
Your Reference	UNITS	Pit71	Plt72	P#75	P#74	Pit75
Depth		0.0-0 1	0.5-0.6	0.0-0.1	0.0-0.1	9,5-0 8
Date Sampler		19/06/2018	19/06/2018	19/08/2018	19/06/2018	19/06/2018
Type of sample		sol	sail	SOIL	500	500
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	×0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0,1	<0.1	<0,1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)flucranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	< 0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	%	100	101	98	104	88

194568 (400 1) (iiii 23 of 88

PAHS IN SOIL					-	
Our Reference		194568-51	194568-52	194568-53	194568-55	194568-56
Your Reference	UNITS	Pit76	Plt76	PH77	801/19	BD2/19
Depth		0.0-0 1	2.0-0.1	0.5-0.6	8	-
Date Sampler		19/06/2018	19/06/2018	19/08/2018	19/06/2015	19/05/2018
Type of sample		sol	sail	Soil	50	500
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	40,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0,5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	%	97	94	87	97	89

(1990) htt 1 (1995) = 194558 | R00 1 / 188 | 24 of 88

PAH5 IN SOII			
Our Reference		194568-57	194568-58
Your Reference	UNITS	8D3/16	BD1/20
Depth			-
Date Sampler		19/06/2018	20/06/2018
Type of sample		807	509
Date extracted		25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018
Naphthalene	mg/kg	<0.1	<0.1
Acenaphihylene	mg/kg	<0.1	<01
Acenaphthene	mg/kg	<0.1	<0.9
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0 1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	≤0.05	< 0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,ii)anthracene	mg/kg	<0.1	<0.1
Benzo(g.h,l)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surragate p-Terphenyl-d14	16	97	104

194568 1000 Tyles | 25 of 88

Our Reference		194568-1	194558-2	194568-4	194568-5	194568-7
Your Reference	UNITS	P#19	PH22	Pit23	Pit24	Pit25
Depth		0,5-0,6	0,0-0.1	0.5-0.6	0.0-0.1	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		SOIL	soil	501	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
sipha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0,1
gamma-BHC	mg/kg	<0.1	-<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachion	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	×0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0,1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosullan II	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0,1	<0.1	<0.1
Surrogate TCMX	36	119	119	123	121	120

Cryo that I (\*\*\*\*\*\*\*\*\* 194568

1 (ge | 26 of 88

Our Reference		194568-8	194568-10	194568-11	194568-13	194568-14
Your Reference	UNITS	PH26	PH27	Pit28	P#29	Pit30
Depth		0.0-0-1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		sol	sail	SOI	50/	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed.	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB.	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<01	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	122	122	122	122	120

(1991) htt 1(1000000 = 194568

Date | 27 of 88

Our Reference		194568-16	194568-18	194568-19	194568-21	194568-22
Your Reference	UNITS	Pit31	Pl(32	PH35	Pit51	Pit52
Depth		0.5-0.6	0.5-0.6	0.01	05-06	0,5-0.6
Date Sampled		20/06/2018	20/06/2018	20/06/2018	19/06/2018	19/05/2018
Type of sample		sol	sail	Spil	50/	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB.	mgring	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	⊲0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDE	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	120	129	120	118	118

Cryo that I (\*\*\*\*\*\*\*\*\* 194568

Dage | 28 of 88

Our Reference		194568-24	194568-25	194568-26	194566-27	194568-29
Your Reference	UNITS	P#53	Plt54	PitS5	Pit56	Pit57
Depth		0.5-0.6	0.5-0.6	0.0-0.1	05-06	0,5-0,6
Date Sampled		19/06/2018	19/06/2018	19/08/2018	19/06/2015	20/06/2018
Type of sample		sol	soil	SOIL	50/	sol
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
нсв	mgring	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	⊲0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	117	119	120	114	116

(1991) htt 1(1991) = 194568 (2000) Dage | 29 of 88

Our Reference		194568-32	194568-33	194568-34	194568-35	194568-36
Your Reference	UNITS	P458	Plt59	Pitteo	Piter	P%62
Depth		0.0-0-1	0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	19/06/2018	20/06/2018	19/06/2015	19/05/2018
Type of sample		sol	sail	SOIL	50	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed.	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB.	mgrkg	<0.1	<0.1	<0.1	<0.1	<0.1
slpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
oeta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0,1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	114	114	116	117	117

1) INE | 30 of 88

Our Reference		194568-37	194568-36	194568-39	194568-40	194568-41
Your Reference	UNITS	PH63	Plt64	P/165	Pit66	PR67
Depth		0.0-0-1	0.5-0.6	0.5-0.6	0.5-0.6	0.0-0.1
Date Sampled		18/08/2018	18/06/2018	18/06/2018	18/06/2015	19/05/2018
Type of sample		sol	soil	SOII	50/	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed.	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB.	mgrkig	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	⇒0.1	<0.1	<0.1	<0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDE	mg/kg	<0.1	<0,1	<0.1	<0.1	<0,1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	116	115	114	115	112

(1991) htt 1(1000000 = 194568

Page | 31 of 88

Our Reference		194568-42	194568-43	194568-44	194568-46	194568-47
Your Reference	UNITS	Pit68	Pit69	Pit70	P#71	Pil72
Depth		0.0-0-1	0.5-0.6	0.0-0.1	0.0-0.1	0,506
Date Sampled		18/06/2018	19/06/2018	19/06/2018	19/06/2015	19/05/2018
Type of sample		500	sail	501	50	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
slpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
oeta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
slpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p-DDE	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	≪0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	112	113	119	115	116

Caryonalad J (\*\*\*\*\*\*\*\*\*\*\*\*\*\* 194568

1 198 32 of 88

Our Reference		194568-48	194568-49	194568-50	194568-51	194568-53
Your Reference	UNITS	P#73	Plt74	Pit75	P#76	P877
Depth		0.0-0-1	0.0-0.1	0.5-0.6	0.0-0.1	0,506
Date Sampled		19/06/2018	19/06/2018	19/08/2018	19/06/2015	19/05/2018
Type of sample		sol	sail	SOIL	50/	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB	mgrkig	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	⊲0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	115	115	116	117	117

Dags | 33 of 88

Our Reference		194568-56	194568-56	194568-57	194568458
Your Reference	UNITS	BD1/18	BD2/19	BD3/19	801/20
Depth			-		
Date Sampled		19/06/2018	19/06/2018	19/08/2018	20/08/2018
Type of sample		sol	sail	SOII	soil
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed.	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018
HCB.	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
della-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0,1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chiordane	mg/kg	<0.1	≪0.1	<0.1	<0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	< 0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<01	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	116	115	117	118

(1990) htt 1 (1995) = 194558 | R00 1) (BE | 34 of 88

Our Reference		194568-1	194558-2	194568-4	194568-5	194568-7
Your Reference	UNITS	P#19	PH22	Pit23	Pit24	Pit25
Depth		0,5-0,6	0,0-0.1	0.5-0.6	0.0-0.1	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/05/2018	20/06/2018	20/06/2018
Type of sample		SOIL	soil	508	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	< 0.1	-<0.1.	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	40.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	N-	119	119	123	121	120

Organophosphorus Pesticides						
Our Reference		194568-8	194568-10	194568-11	194566-13	194568-14
Your Reference	LINITS	P#28	Pit27	Pit28	PH29	PR30
Depth		0.0-0.1	0,0-0.1	0.0.0.1	0.0-0.1	0,0-0.1
Date Sampled		20/08/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		soli	solt	soil	soll	501
Date extracted	4	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	÷	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.†	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<01	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0:1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mgñig	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	76	122	122	122	122	120

Enymolab Reference 194568 R00 PMBE | 35 of 88

Our Reference		194568-16	194568-18	194568-19	194568-21	194568-22
Your Reference	UNITS	Pit31	Pl(32	P#35	PR51	PR52
	ONITO	0.5-0.6	05-0.6	0-01	05-06	0.5-0.6
Depth Consoled						
Date Sampled		20/06/2018	20/06/2018	20/06/2018	19/06/2015	19/05/2018
Type of sample		SOIL	sail	501	50	Soil
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bramophos-ethyl	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	≤0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	120	129	120	118	118
Organophosphorus Pesticides						
Our Reference		194568-24	194568-25	194568-26	194568-27	194568-29
Your Reference	LINITS	Pit53	P#54	PRSS	Pit56	P057
Depth		5,5-0,6	0.5-0.8	0.0-0.1	0,5-0,6	0,5-0,8
Date Sampled		19/06/2018	19/06/2018	19/08/2018	19/05/2018	20/06/2016
Type of sample		soll	sdil	soil	500	SOF
Date extracted	14	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	14	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	≪0.1	<0.1	<0.1	<0.1
Chiorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chilorpyriphos-methyl	mg/kg	<0,1	<0.1	<0.1	<0.1	<0.1

Environian Representa 194568 R00

Diazinon

Dichlorvos

Dimethoate

Fenitrothian

Malathion

Parathion

Surrogate TCMX

Ronnel

Ethion

Page 36 of 88

< 0.1

<0.1

<0.1

<0.1

< 0.1

<0.1

<0.1

<0.1

116

mg/kg

mg/kg

mg/kg

mg/kg

mgikg

mg/kg mg/kg

mg/kg

%

<0.1

<0.1

<0.1

<0.1

< 0.1

<0.1

<0.1

<01

117

<0.1

<0.1

<0.1

<0.1

<0.1

<0.1

< 0.1

<0.1

120

<0.1

< 0.1

<0.1

<0.1

<0.1

< 0.1

<0.1

119

< 0.1

<0.1

<0.1

<0.1

< 0.1

<0.1

<0.1

<0.1

114

Organophosphorus Pesucides						
Our Reference		194568-32	194568-33	194568-34	194568-35	194568-36
Your Reference	UNITS	P458	Plt59	P#60	Pit61	PR62
Depth		0.0-0.1	0 5-0.6	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	19/06/2018	20/06/2018	19/06/2015	19/05/2018
Type of sample		sor	soil	SOII	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	14	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlarvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Ethion	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Feniltothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	114	114	116	117	117
Organophosphorus Pesticides						
Our Reference		194566-37	194568-35	194568-39	194566-40	194568-41
Your Reference	LINITS	FH63	Pitt64	PRES	PM60	PR67
Depth		0.0-0.1	0.5-0.8	0,5-0.6	0,5-0,6	0,0-0,1
Date Sampled		18/05/2018	18/06/2018	18/06/2018	18/06/2018	19/06/2018
Type of sample		soll	sdil	lioe	50	soli
Date extracted	1.	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	18	26/06/2018	26/06/2018	26/06/2018	26/06/2016	26/06/2018

Our Reference		194566-37	194568-36	194568-39	194566-40	194568-41
Your Reference	LINITS	PH63	Pitt64	PRES	PNST	PR67
Depth		0.0-0.1	0.5-0.8	0,5-0.6	0,5-0,6	0,0-0,1
Date Sampled		18/05/2018	18/06/2018	18/08/2018	18/06/2018	19/06/2018
Type of sample		501	sdil	soil	50	sol
Date extracted	14	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	- 14	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0,1	<0.1	<0,1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chiorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chilorpyriphos-methyl	mg/kg	<0,1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.4	<0.1
enitrothion	mgikg	<0.1	<0,1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	ring/kig	<0.1	<0,1	<0,1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surragate TCMX	15,	116	115	114	115	112

Environ Representa 194568

Flanc | 37 of 88

Organophosphorus Pesticides						
Our Reference		194568-42	194568-43	194568-44	194568-45	194568-47
Your Reference	UNITS	Pit66	Pites	Pit70	P#71	P872
Depth		0.0-0:1	0.5-0.6	0.0-0.1	0.0-0.1	9,5-0.8
Date Sampled		18/06/2018	19/06/2018	19/06/2018	19/06/2015	19/06/2018
Type of sample		sol	sail	SOIL	50/	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	12	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Chiorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	112	113	119	115	116
Organophosphorus Pesticides						
Our Reference		194568-48	194568-49	194568-50	194568-51	194568-53
Your Reference	LINITS	P173	Fit74	P1175	PN76	F#77
Depth		0.0-0.1	0.0-0.1	0,5-0.6	0,0-0 1	0,5-0,6

Organophosphorus Pesticides						
Our Reference		194568-48	194568-49	194568-50	194568-51	194568-53
Your Reference	LINITS	P#73	Fit74	PN75	PN76	P#77
Depth		0.0-0.1	0.0-0.1	0,5-0.8	0,0-0 1	0,5-0,6
Date Sampled		19/05/2018	19/06/2018	19/08/2018	19/05/2018	19/08/2018
Type of sample		soll	sdil	soil	50	soll
Date extracted	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2016	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chiorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chiorpyriphos-methyl	mg/kg	<0,1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.4	<0.1
Fenitrothion	mgikg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	ring/kig	<0.1	<0.1	<0,1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surragate TCMX	15,	115	115	116	117	117

Environ Representa 194568

Page | 38 of 88

Our Reference		194568-55	194568-66	194568-57	194568-58
Your Reference	UNITS	801/18	BD2/19	BD3/19	801/20
Depth			-	1	
Date Sampled		19/06/2018	19/06/2018	19/06/2018	20/06/2016
Type of sample		500	sail	SOI	sori
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.7	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	⊴0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	W-	116	115	117	118

Chymhat I (\*\*\*\*\*\*\*\*\*\*\* 194568 | K00 Date | 39 of 88

PCBs in Soil					7 4 5 7	-
Our Reference		194568-1	194568-2	194568-4	194568-5	194568-7
Your Reference	UNITS	P#19	PH22	Pit23	Pit24	Pit25
Depth		0,5-0,6	0,0-0,1	0.5-0.6	0.0-0.1	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/05/2018	20/06/2018	20/06/2018
Type of sample		SOIL	soil	508	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Arodor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arodor 1221	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Aroctor 1232	mg/kg	< 0.1	-<0.1.	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surragate TCLMX	%	119	119	123	121	120

PCBs in Solf								
Our Reference		194568-8	194558-10	194588-11	194568-13	194568-14		
Your Reference	UNITS	P#26	Pit27	PIQ8	PH29	P#30		
Depth		0,0-0.1	0.0-0.1	0:0-0.1	0.0-0.1	0.0-0.1		
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/05/2018	20/06/2018		
Type of sample		8ad.	soil	soil	50	501		
Date extracted	7.2	25/08/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018		
Date analysed	+	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018		
Arodor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1		
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1		
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1		
Arodor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1		
Arocior 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1		
Aroctor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1		
Aroclor 1260	mg/kg	<0.1	<b>√0.1</b>	<0.1	<0.1	<0.1		
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1		
Surrogate TCLMX	*	122	122	122	122	120		

Committee (Conserve = 194568

1 (BE | 40 of 88

Our Reference		194568-16	194568-18	194568-19	194568-21	194568-22
Your Reference	UNITS	Pit31	Plt32	PH35	Pit51	Pit52
Depth		0.5-0.6	0.5-0.6	0.01	05-05	0,5-0.6
Date Sampled		20/06/2018	20/06/2018	20/08/2018	19/06/2015	19/06/2018
Type of sample		sol	sail	SOII	50	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arocior 1260	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	120	129	120	118	118

PCBs in Soil						
Our Réferènce		194568-24	194568-25	194568-26	194568-27	194568-29
Your Reference	LIMITS	Pit53	PitS4	Pit55	PI(56	PH57
Depth		0.5-0.6	0.5-0.6	0.0-0.1	0:5-0.6	0.5-0.6
Date Sampled		19/05/2018	15/06/2018	19/06/2018	19/06/2018	20/06/2018
Type of sample		900	soil	soil	SOL	301
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/05/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Aroclar 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclar 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Aroctor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Araclar 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	117	119	120	114	116

Carporalista J (Amarican & 194568 R00

1 Mar 41 of 88

PCBs in Soil						
Our Reference		194568-32	194568-33	194568-34	194568-35	194568-36
Your Reference	UNITS	Pit58	Plt59	PH60	P#61	PR62
Depth		0.0-0:1	0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	19/06/2018	20/06/2018	19/06/2015	19/06/2018
Type of sample		500	sail	Soil	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Arodor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Araclar 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arocior 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arocior 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	*	114	114	116	117	117

PCBs in Soil						
Our Réferènce		194568-37	194568 38	194568-39	194568-40	194568-41
Your Reference	LIMITS	P#63	Pit84	Pit65	PH66	P#67
Depth		0.0-0.1	0.5-0.6	0.5-0.6	0:5-0,6	0.0-0.1
Date Sampled		18/06/2018	18/06/2018	18/06/2018	18/06/2018	19/06/2018
Type of sample		900	soil	soil	sol	508
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/05/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Aroclar 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	< 0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Aroctor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aractor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0,1	<0.1	<0.1	<0.1	<0.1
Surragate TCLMX	%	116	115	114	115	112

Carponium I (Amarona : 194568

Dage | 42 of 88

PCBs in Soil						
Our Reference		194568-42	194568-43	194568-44	194568-45	194568-47
Your Reference	UNITS	Pit66	Pites	Pit70	P#71	PR72
Depth		0.0-0:1	0.5-0.6	0.0-0.1	0.0-0.1	9,5-0.6
Date Sampled		18/06/2018	19/06/2018	19/06/2018	19/06/2015	19/06/2018
Type of sample		100	sail	Soil	500	50
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Arodor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arocior 1260	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surragate TCLMX	%	112	113	119	115	116

PCBs in Soil						
Our Reference		194568-48	194568-49	194568-50	194568 51	194568-53
Your Reference	LIMITS	P#73	PIE74	P#75	P#76	Pit77
Depth		0.0-0.1	0.0-0.1	0.5-0.6	0.0-0,1	0.5-0.6
Date Sampled		19/05/2018	15/06/2018	19/06/2018	19/06/2018	19/06/2018
Type of sample		900	soil	soil	SOL	501
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/05/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Aroclar 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclar 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Aroctor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Araclar 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	115	115	116	117	117

Crystalia I (horses 194568

Dags | 43 of 88

PCBs in Soil					
Our Reference		194568-55	194568-56	194568-57	194568-58
Your Reference	UNITS	8D1/18	BD2/19	BD3/19	BD1/20
Depth			-	4	
Date Sampled		19/06/2018	19/06/2018	19/06/2018	20/06/2018
Type of sample		500	sail	SOII	soil
Date extracted		25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	8	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Arodor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arocior 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	*	116	115	117	118

Caryonalad J (\*\*\*\*\*\*\*\*\*\*\* 194568

Dags | 44 of 88

Our Reference		194568-1	194558-2	194568-3	194568-4	194568-5
Your Reference	UNITS	P#19	Pl/22	Pit22	Pit23	Pit24
Depth		0,5-0,6	0,0-0,1	1,0-1.1	0.5-0,6	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/05/2018	20/06/2018	20/06/2018
Type of sample		BOIL	soil	508	500	50
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	9	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	64
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	-4	9	8	7	8
Copper	mg/kg	2	6	4	3	3
ead	mg/kg	10	18	-11	10	8
Mercury	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	4	4	3	4
Zinc	mg/kg	11	33	13	14	20

Acid Extractable metals in soil Our Reference		194568-8	194568-7	194566-8	194568-9	194568-10
Your Reference	UNITS	Pri24	Pit25	Pi128	Pit26	Pit27
Depth		0,5-0,6	0.0-0.1	0.0-0.1	0.5-0.6	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2016
Type of sample		sol	sail	500	soil	soli
Date prepared	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Sadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	8	4	7	6
Copper	mg/kg	5	4	2	4	4
Lead	mg/kg	21	12	10	18	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	4	2	3	2
Zinc	mg/kg	19	23	10	14	15

Crystalia (Groven ± 194568 (Grystalia) R00 1 MBE | 45 of 88

Our Reference		194568-11	194568-12	194568-13	194568-14	194568-15
Your Reference	UNITS	PH28	Plt28	P#29	Pl(30	Pit30
Depth		0.040.1	1.0-1.1	0.0-0.1	0.0-0.1	1.0-1.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		500	sail	501	500	400
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0,4	<0.4
Chromium	mg/kg	7.	8	10	9	11
Copper	mg/kg	3	3	3	6	6
Lead	mg/kg	11	.21	7	13	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	4	6	6	5
Zine	mg/kg	17	8	21	21	25

Our Reference		194568-16	194568-17	194568-18	194568-19	194568-20
Your Reference	UNITS	P#31	PiSt	P#32	PR33	Pit33
Depth		0,5-0,6	1,0-1 1	0.5-0.6	00.1	1,041
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/05/2016
Type of sample		901	soil	soil	504	soil
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	≺4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	9	8	9	8	7.
Copper	mg/kg	4	5	3	3	2
Lead	mg/kg	13	12	10	12	12
Mercury	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Vickel	mg/kg	3	4	3	4	2
Zinc	mg/kg	21	17	8	17	8

Copordati ((1000000 ≥ 194568 ((1000000 )((1000000 ≥ 194568 Page | 46 of 88

Our Reference		194568-21	194568-22	194568-23	194568-24	194568-25
Your Reference	UNITS	Pt51	Plt52	PHS2	Pit53	Pit54
Depth		0.5-0.6	0.5-0.6	1,5-1,6	0.5-0.6	0.5-0.6
Date Sampled		19/06/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Type of sample		sol	sail	5011	500	50
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	12	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	10	6	9	8
Copper	mg/kg	8	7	5	12	4
Lead	mg/kg	24	24	16	16	10
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	7	4	5	3
Zinc	mg/kg	63	86	140	36	17

Our Reference		194568-26	194568-27	194568-28	194566-29	194568-30
Your Reference	UNITS	P#55	Pit56	Pit56	Pit57	PR57
Depth		0.0-0.1	0.5-0.6	1.0-1.1	0.5-0.6	1,0-1.1
Date Sampled		19/06/2018	19/06/2018	19/05/2018	20/06/2018	20/05/2016
Type of sample		sol	sail	soil	504	sol
Date prepared	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	10	5	5	6	7.
Copper	mg/kg	12	7	5	6	7
ead	mg/kg	20	13	-11	210	25
Mercury	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
vickel	mg/kg	13	4	3	3	5
Zinc	mg/kg	32	32	21	140	170

Chymalia Richard Roo

FMBE | 47 of 88

Acid Extractable metals in soll						
Our Reference		194568-31	194568-32	194568-33	194568-34	194568-35
Your Reference	UNITS	Pit57	Plt58	PitS9	P#60	P961
Depth		2,2-2.3	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	19/06/2018	20/06/2018	19/06/2018
Type of sample		500	sail	501	500	50
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	12	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0,4	<0.4	<0.4	<0.4
Chromium	mg/kg	6	7	8	7	37
Copper	mg/kg	7	6	9	6	6
Lead	mg/kg	13	16	16	15	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	4	6	4	5
Zinc.	mg/kg	37	.27	39	34	12

Acid Extractable metals in soil						
Our Reference		194568-36	194568-37	194568-38	194566-39	194568-40
Your Reference	UNITS	P#62	Pl163	Pil64	PW65	PINSE
Depth		0.0-0.1	0 0-0 1	0.5-0.6	0.5-0.6	0.5-0.6
Date Sampled		19/06/2018	18/06/2018	18/06/2018	18/06/2018	18/05/2018
Type of sample		sol.	soil	501	sol	sol
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	30	6	5	6	8
Copper	mg/kg	5	4	3	4	8
Lead	mg/kg	16	13	13	13	16
Mercury	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Nickel	mg/kg	4 :	3	3	3	5
Zinc	mg/kg	8	24	23	24	56

Chymalia Rhanna = 194568

Page | 48 of 88

Our Reference		194568-41	194568-42	194568-43	194568-44	194568-45
Your Reference	UNITS	P#67	PHS8	Pit69	Pit70	Pit70
Depth		0.0-0:1	0.0-0.1	0.5-0.6	0.0-0.1	0.5-0.6
Date Sampled		19/06/2018	18/06/2018	19/06/2018	19/06/2015	19/05/2018
Type of sample		soll	sail	501	50/	50
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	12	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0,4	<0.4
Chromium	mg/kg	27	7	20	9	6
Copper	mg/kg	6	6	10	7	4
Lead	mg/kg	19	16	12	18	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	4	9	5	3
Zinc	mg/kg	9	34	18	35	22

Our Reference		194568-46	194568-47	194568-48	194566-49	194568-50
Your Reference	UNITS	Patt	Pit72	Pit73	P#74	PN75
Depth		0.0-0.1	0.5-0.6	0.0-0.1	0.0-0 1	0.5-0.6
Date Sampled		19/06/2018	19/06/2018	19/05/2018	19/06/2018	19/05/2016
Type of sample		No.e	sail	soil	504	501
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	8	6	5	12
Copper	mg/kg	6	6	3	3	7
ead	mg/kg	13	19	10	10	20
Mercury	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
vickel	mg/kg	5	5	2	2	5
Zinc	ing/kg	12	23	12	10	18

Copyright Reserve 194568

Page | 49 of 88

Acid Extractable metals in soil		194568-51	194568-52	194568-53	MILESON CE	194568-56
Our Reference		194060-21	194008-02	194000-03	194568-55	194369-30
Your Reference	UNITS	Pit76	Plt76	PH77	BD1/19	BD2/19
Depth		0.0-0.1	2.0-0.1	0.5-0.6		-
Date Sampled		19/06/2018	19/06/2018	19/06/2018	19/06/2015	19/06/2018
Type of sample		sol	sail	Soil	500	50
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	12	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	15	6	45	16
Copper	mg/kg	5	7	3	6	6
Lead	mg/kg	15	13	12	19	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	7	3	5	5
Zinc	mg/kg	17	25	15	10	12

Our Reference		194568-57	194568-58
Your Reference	UNITS	BD3/19	ED1/20
Depth		0	9
Date Sampled		19/06/2018	20/05/2018
Type of sample		Sold.	SON
Date prepared	-	25/06/2018	25/06/2018
Date analysed	-	25/06/2018	25/06/2018
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	7	8
Copper	mg/kg	6	-5
Lead	mg/kg	23	16
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	6	4
Zinc	mg/kg	38	33

Carporalist I (Interview | 194568 Room Room Phise | 50 of 88

Moisture						-
Our Reference		194568-1	194558-2	194568-3	194568-4	194568-5
Your Reference	UNITS	P#19	PH22	Pit22	Pit23	Pit24
Depth		0,5-0,6	0.0-0.1	1:0-1:1	0.5-0.6	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		Soll	soil	308	500	308
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-2	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	×-	5.8	5.8	8.5	5.3	4.7
Moisture						
Our Reference	1000	194568-6	194566-7	194568-8	194568-9	194568-10
Your Reference	UNITS	P824	Pit25	P#26	PR26	P#27
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.5-0.5	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/08/2018
Type of sample		sol	soil	- 50()	30	soil
Date prepared	14	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	*	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	%	14	6.7	5.3	10	5.7
Moisture						
Our Reference		194568-11	194568-12	194568-13	194568-14	194568-15
Your Reference	UNITS	Pit28	Pil28	PH29	Pit30	Pit30
Depth		0.0-0.1	1.0-1.1	0.0-0.1	0.0-0.1	10-11
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		solt	noe-	soil	300	501
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	*	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	#	5.0	7.6	3.4	8.6	16
Moisture						
Our Reference		194568-16	194568-17	194568-18	194568-19	194568-20
Your Reference	UNITS	Pit31	Pit31	Pit32	Pit33	P#33
Depth		0,5-0.6	1.0-1.7	0.5-0.6	00.1	1.0-1.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/06/2018
Type of sample		800	soil	soil	409	soll
Date prepared		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	*	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	**.	4.7	6.5	7.1	4.7	5.3

Crystoliab Reference 194568 Roo Page | 51 of 88

Moisture						
Our Reference		194568-21	194568-22	194568-23	194568-24	194568-25
Your Reference	UNITS	P451	Plt52	Pit52	Pit53	Pit54
Depth:		0.5-0.6	0.5-0.6	1.5-1.6	0.5-0.6	0,5-0.6
Date Sampled		19/06/2018	19/06/2018	19/08/2018	19/06/2018	19/06/2018
Type of sample		soll	soil	SOIL	50/	50
Date prepared	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	%	7.7	6.2	.11	6.5	3.9
Moisture		_				
Our Reference		194566-26	194568-27	194568-28	194568-29	194568-30
Your Reference	UNITS	Pit55	Pit56	Pri56	PH57	P#57
Depth		0.0-0.1	0,5-0.6	1.0-1.1	0.5-0/6	10-11
Date Sampled		19/06/2018	19/06/2018	19/08/2018	20/06/2018	20/06/2018
Type of sample		504	soil	soil	300	504
Date prepared		25/05/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	*	13	8.7	8.1	6.3	8,0
Moisture						_
Our Reference		194568-31	194568-32	194568-33	194568-34	194568-35
Your Reference	UNITS	PR57	Pit58	PH59	Pil60	PH61
Depth		2.2-2.3	0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	19/06/2018	20/06/2018	19/06/2018
Type of sample		sol	line	soll	501	501
Date prepared	18	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	1	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	*	13	13	10	7.2	7.1
Moisture						_
Our Reference		194568-36	194568-37	194568-38	194568-39	194568-40
Your Reference	UNITS	P#62	Pit63	Pit64	PH65	P866
Depth		0,0-0,1	0.0-0.1	05-06	0.5-0.6	0,5-0.8
Date Sampled		19/06/2018	18/06/2018	18/06/2018	18/06/2018	18/06/2016
Type of sample		soll	soll	soil	301	sol
Date prepared	+	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	-	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	76.	5.4	6.9	7.0	6.9	10

Crystolet Reference 194568

FMBE | 52 of 88

Moisture						
Our Reference		194568-41	194568-42	194568-43	194568-44	194568-45
Your Reference	UNITS	P#67	PH68	P/t69	Pit70	Pit70
Depth		0.0-0:1	0.0-0.1	0.5-0.6	0.0-0.1	0.5-0.6
Date Sampled		19/06/2018	18/06/2018	19/06/2018	19/06/2018	19/05/2018
Type of sample		soll	sail	501	500	50
Date prepared	-	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	3	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	16	6.0	11.	16	9.3	5.6
Moisture		-			-	-
Our Reference		194568-46	194568-47	194568-48	194568-49	194568-50
Your Reference	UNITS	Pit71	PI(72	Pif73	P)174	P#75
Depth		0.0-0.1	0,5-0,6	0.0-0.1	0.0-0.1	0.5-0.6
Date Sampled		19/06/2018	19/06/2018	19/08/2018	19/06/2018	19/06/2016
Type of sample		504	soil	soil	300	504
Date prepared		25/05/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	%	5.7	9.6	7.8	7.8	8,6
Moisture						_
Our Reference		194568-51	194568-52	194568-53	194568-55	194568-56
Your Reference	UNITS	P#76	Pit76	P#77	BD1/19	BD2/19
Depth		0.0-0.1	2.0-0.1	0.5-0.8	-	-
Date Sampled		19/06/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Type of sample		sal	line	soil	501	soil
Date prepared	14	25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Date analysed	1	26/06/2018	26/06/2018	26/06/2018	26/06/2018	26/06/2018
Moisture	%	5.4	12	4.2	7.0	5.6
Moisture						
Our Reference		194568-57	194568-58			
Your Reference	UNITS	BD3/19	BD1/20			
Depth		- 8	(2)			
Date Sampled		19/06/2018	20/06/2018			
Type of sample		soli	soll			
Date prepared	1	25/06/2018	25/06/2018			
Date analysed	-	26/06/2018	26/06/2018			
Moisture	ж.	7,8	6.2			

Citymologi (100 more) = 194568 (100 more) = 194568 PAGE | 53 of 88

Asbestos ID - soils						
Our Reference		194568-1	194568-2	194568-4	194568-5	194568-7
Your Reference	UNITE	Pris	PH22	Plt23	F#24	Pit25
Desth		0,5-0,6	0,0-0.1	0.5-0 6	0.0-0.1	0,0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/05/2018	20/06/2018
Type of sample		1500	soil	soil	560	501
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested		Approx. 40g	Approx. 30g	Approx. 35g	Approx. 30g	Approx. 30g
Sample Description	-	Brown coarse- grained soil & rocks				
Asbestos ID in spil		No asbestos detected at reporting limit of 0.1g/kg				
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils						
Our Reference		194568-8	194568-10	194568-11	194566-13	194568-14
Your Reference	UNITS	PH26	PIt27	PH28	F#29	P#30
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	20/06/2018	20/06/2018	20/06/2018	20/05/2018
Type of sample		150/	≘aii	SOI	500	SO
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/05/2018	28/06/2018
Sample mass tested	9	Approx. 30g	Approx. 30g	Approx. 40g	Approx. 40g	Approx. 35g
Sample Description	-	Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Grey coarse- grained soil & rocks	Brown coarse- grained soil & rocks
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit o 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibre: detected
Trace Analysis	-	No asbestos detected				
Asbestos ID - soils						_
Our Reference		194568-16	194568-18	194568-19	194568-21	194568-22
Your Reference	UMITE	PHST	PI(32	PH35	PRST	PM52
Depth		0,5-0.6	05-08	10-01	0.5-0.6	0.5-0.6
Date Sampled		20/06/2018	20/06/2018	20/06/2018	19/06/2018	19/06/2018
Type of sample		soil	sail	901	500	500
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested	1	Approx. 35g	Approx. 30g	Approx. 35g	Approx. 35g	Approx. 30g
Sample Description		Brown coarse- grained soil & rocks	Brown coarse grained soil & rocks			
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit o 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibre detected
Trace Analysis		No asbestos detected				

E1774 BBB 1 (\*1000-277) 104668 - 0000

Asbestos ID - soils						
Our Reference		194568-24	194568-25	194568-26	194569-27	194568-29
Your Reference	UNITS	P#53	Plt54	PH55	Pit56	Pit57
Depth		0.5-0.6	0.5-0.6	0.0-0.1	0,540.6	0,508
Date Sampled		19/06/2018	19/06/2018	19/06/2018	19/06/2018	20/06/2018
Type of sample		507	±ail	SOIL	500	500
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested	3	Approx. 30g	Approx. 30g	Approx, 30g	Approx, 35g	Approx. 30g
Sample Description		Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Grey coarse- grained soil & rocks	Grey coarse- grained soil & rocks	Grey coarse- grained soil & rocks
Asbestos (D in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0:1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos (D - solls						
Our Reference		194568-32	194568-33	194568-34	194568-35	194568-36
Your Reference	UNITS	P#58	Pit59	Pif60	Fit61	PR62
Depth		0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		20/06/2018	19/06/2018	20/06/2018	19/06/2018	19/05/2018
Type of sample		10/	sail	SOIL	500	500
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested	3	Approx. 30g	Approx. 30g	Approx, 35g	Approx, 30g	Approx. 35g
Sample Description	-	Grey coarse- grained soil & rocks	Grey coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Brown coarse grained soil & rocks
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg				
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibre detected
Trace Analysis	-	No asbestos detected				
Asbestos ID - soils						_
Our Reference		194568-37	194568-36	194568-39	194566-40	194568-41
Your Reference	LINITE	P#63	PHGA	PH65	Pités	PNG7
Depth		0.0-0.1	05-08	0,5-0.6	0.540.6	0.001
Date Sampled		18/08/2018	16/06/2018	18/06/2018	18/05/2018	19/06/2018
Type of sample		507	sail	Soil	500	500
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested	1	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 40g
Sample Description		Brown coarse- grained soil & rocks	Brown coarse grained soil & rocks			
Asbestos ID in soil	*	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibre detected
Trace Analysis	- X	No asbestos detected				

Erge unit / (hossess 104668 - 1000

Asbestos ID - soils						
Our Reference		194568-42	194568-43	194568-44	194566-46	194568-47
Your Reference	UNITS	PH66	PHSS	Pit70	P#71	PR72
Depth		0.0-0.1	05-06	0.0-0.1	0.0-0.1	8,5-0/E
Date Sampled		18/08/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Type of sample		100	sail	SOIL	500	500
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested		Approx. 30g	Approx. 30g	Approx, 30g	Approx, 30g	Approx. 30g
Sample Description	· ·	Brown coarse- grained soil & rocks				
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg				
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected				

104568 800

Asbestos ID - soils						
Our Reference		194568-48	194568-49	194568-50	194568-51	194568-53
Your Reference	UNITS	P473	Plt74	Pit75	PH76	P977
Depth		0.0-0.1	0.0-0.1	05-00	0.0-0.1	0,5-0.6
Date Sampled		19/06/2018	19/06/2018	19/06/2018	19/06/2018	19/06/2018
Type of sample		10/	sail	SOI	500	500
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested	3	Approx. 30g	Approx. 30g	Approx, 35g	Approx. 40g	Approx. 45g
Sample Description		Brown coarse- grained soil & rocks				
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of D.1g/kg	No asbestos detected at reporting limit di 0.1g/kg
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils					
Our Reference		194568-55	194568-56	194568-57	194569-58
Your Reference	UNITE	801/19	802/19	BD3/19	BD1/20
Depth:					
Date Sampled		10/06/2018	19/06/2018	19/05/2018	20/06/2016
Type of sample		soil	sail	901	soil
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018
Sample mass tested		Approx. 25g	Approx. 30g	Approx. 35g	Approx. 30g
Sample Description		Brown coarse- grained soil & rocks			
Asbestos ID in soil	*	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit o 0.1g/kg
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	×	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

194568 000

Misc Inerg - Sell				
Our Reference		194568-1	194568-40	194568-53
Your Reference	UNITS	P#19	Pib66	Pit77
Depth		0,5-0,6	0.5-0.6	0.5-0 6
Date Sampled		20/06/2018	18/06/2018	19/06/2018
Type of sample		BOIL	soil	soil
Date prepared		26/06/2018	26/06/2018	26/06/2018
Date analysed	-	26/06/2018	26/06/2018	26/06/2018
pH 1:5 soil:water	pH Units	9.7	8.2	8.3

Cayo akati (Canava) = 194568 R00 Page | 60 of 88

Clay 50-120g				
Our Reference		194568-1	194568-40	194568-53
Your Reference	UNITS	P#19	Pib66	Pit77
Depth		0,5-0,6	0.5-0.6	0.5-0 6
Date Sampled		20/06/2018	18/06/2018	19/06/2018
Type of sample		300	soil	soil
Date prepared	-	25/06/2018	25/06/2018	25/06/2018
Date analysed		26/06/2018	26/06/2018	26/06/2018
Clay in soils <2µm	"Nr (m/m)	18	25	14

Cayonalub Rhammas 194568 Rhyman Rhi R00 Dage | 61 of 88

CEC				
Our Reference		194568-1	194568-40	194568-53
Your Reference	UNITS	P#19	Pi666	Pit77
Depth		0,5-0,6	0.5-0.6	0.5-0 fi
Date Sampled		20/06/2018	15/56/2018	19/06/2018
Type of sample		500	soil	soil
Date prepared	-	26/06/2018	26/06/2018	26/06/2018
Date analysed	9	26/06/2018	26/06/2018	26/06/2018
Exchangeable Ca	meq:100g	2,1	12	3.4
Exchangeable K	meq/100g	0.2	0.6	0.3
Exchangeable Mg	maq/100g	0.76	2.4	0.82
Exchangeable Na	meq/100g	1.2	<0.1	<0.1
Cation Exchange Capacity	meq/100g	4.3	15	4.5

(1991)htt 1(1997) = 194558 (00 1) (BE | 62 of 88

Method ID	Mathodology Summary
A\$1289.3,6.3	Determination Particle Size Analysis using AS1289.3.6.3 and AS1289.3.6.1 and in house method INORG-107. Clay fraction at <2 m reported.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Statining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4954-2004.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Motals-009	Determination of exchangeable cations and cation exchange capacity in solls using 1M Ammonium Chloride exchange and ICP-AES analytical finish.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Morcury by Cold Vapour AAS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and enalysed by GC-FID F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables )// (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
	F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1/(3.4)). Note Naphthalene is determined from the VOC analysis.
	Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40)
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by QC with dual ECD's.  Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DD0+DDE+DDT.
Org-006	Soil samples are extracted with dichicromethane/acetone and waters with dichicromethane and analysed by GC/ECD
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD, Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore? Total +ve PCBs? is simply a sum of the positive individual PCBs.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.



Method ID	Methodology Summary
Org-012	Soil samples are extracted with Dichloromethane/Acetons and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results - 1. "EQ PQL" values are assuming all contributing PAHs reported as <pql "total="" 2.="" 3.="" <pql="" a="" above.="" actually="" all="" and="" approach="" approaches="" are="" as="" assuming="" at="" be="" below="" between="" but="" calculation="" can="" conservative="" contribute="" contributing="" eq="" faise="" give="" given="" half="" hence="" individual="" is="" least="" lowest="" may="" mid-point="" more="" most="" negative="" not="" note,="" of="" pahs="" pahs"="" pahs.<="" positive="" pql="" pql.="" present="" reflective="" reported="" simply="" stipulated="" sum="" susceptible="" td="" teq="" teqs="" that="" the="" therefore="" this="" to="" total="" type="" values="" when="" zero="" zero.=""></pql>
Org-014	Soil samples are extracted with methanol and spiked into water onor to analysing by purge and trap GC-MS
Org-016	Soil samples are extracted with methanol and spiked into water groot to analysing by purge and trap GC-M5. Water samples are analysed directly by purge and trap GC-M5. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-916	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on investigation Levels for Soil and Groundwater.  Note, the Total +ve Xylenie POL is reflective of the lowest individual POL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

-

E4 m) 96

QUALITY CON	TROL VTRH	(C6-C10)/E	TEXN in Soil			Du	plicate	Spike Recovery %			
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	LCS/4	194568-2	
Date extracted	-			25/06/2018	1	25/08/2018	25/06/2018		25/08/2018	25/06/2011	
Date analysed	-			26/08/2018	1	28/08/2018	26/06/2018		28/08/2018	26/06/2011	
TRH Cg - Cg	mg/kg	25	Org-016	<25	Y	≺25	<25	0	92	99	
TRH Cs - Cts	mg/kg	25	Org-016	<25	+	<25	<25	0	92	99	
Benzene	mg/kg	0.2	Org-016	<0.2	4	<0.2	<b>√0.2</b>	0	92	103	
Toluene	mg/kg	0.5	Org-016	<0.5	2	<0.5	<0.5	0	85	95	
Ethylberizone	mg/kg	1	Org-016	st	T	51	<b>41</b>	ò	88	93	
m+p-xylene	mg/kg	2	Org-016	<2	1	<2	<2	0	97	103	
o-Xylene	mg/kg	1	Org-016	<1	1	<1	<1	0	88	92	
naphthalene	mg/kg	4	Org-014	-<1	7	न	*1	0			
Surrogate saa-Trifluorotoluene	5		Org-016	90	1	92	89	3	85	88	

QUALITY CON	ITROL VTRH	(C6-C10)/E	STEXN in Soil			Du	Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	194568-22
Date extracted	-			-	13	25/08/2018	25/06/2018		25/08/2018	25/06/2019
Date analysed	4				11	28/08/2018	26/06/2018		28/08/2018	26/06/2018
TRH Cs - Cs	mg/kg	25	Org-016	-	11	<25	<25	.0.	98	106
TRH Cc - Cis	mg/kg	25	Org-016		11	<25	<25	0	98	108
Benzene	mg/kg	0.2	Drg-016		11	<0.2	<0.2	a	100	108
Toluene	mg/kg	0.5	Org-016		11	<0.5	<0.5	0	92	100
Ethylbenzene	mg/kg	1	Org-016		11	<1	<₫.	0	93	100
m+p-xylene	mg/kg	2	Org-016		11	2	2	0	102	110
a-Xylene	mg/kg	1	Org-016		11	<1	31	0	92	89
naphthalene	mg/kg	1	D/g-014		11	ir1	<1	0		
Surragate ass-Trifluorotoluene	150		Drg-016		11	91	88	3	93	97

QUALITY CON	TROL VTRH	(C6-C10)/E	STEXN in Sail			Dü	Spike Recovery %			
Test Description	Units	POL	Melhod	Blank	tt	Base	Dup	RPO	LCS-8	194568-42
Date extracted	-			-	21	25/06/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed	- 4-				21	28/08/2018	26/06/2018		26/06/2018	26/06/2018
TRH C <sub>6</sub> - C <sub>6</sub>	mg/kg	25	Org-016		21	<25	<25	o.	100	93
TRH Cc - CH	mg/kg	25	Org-016		21	<25	<25	0	100	93
Benzene	mg/kg	0.2	Org-016	-	21	<0.2	<0.2	0	103	96
Taluene	mg/kg	0.5	Drg-016		21	<0.5	<0.5	0	94	87
Ethylbenzene	mg/kg	1	Org-016		21	41	<t< td=""><td>0</td><td>95</td><td>88</td></t<>	0	95	88
m+p-xylene	mg/kg	2	Org-016		21	+2	<2	D	104	97
o-Xylene	mg/kg	3	Drg-016		21	<1	+1	0	94	87
naphthalene	mg/kg	-1	Org-014		21	<1	-51	0		
Surrogate asa-Trifluorotoluene	16		Org-016		21	92	92	0	98	84

Unymolab Reference 194568 Regulation Roo Page | 65 of 88

QUALITY CON	TROL VTRH	(C6-C10)/E	TEXN in Soil			Du		Spike Recovery %		
Test Description	Units	POL	Method	Blank	#	Base	Dup	RPD	INITI	[NT]
Date extracted	-				31	25/08/2018	25/06/2018			
Date analysed	-				31	26/08/2018	26/06/2018			
TRH Cg - Cg	mg/kg	25	Org-016		31	≺25	<25	0		
TRH C <sub>6</sub> - C <sub>18</sub>	mg/kg	25	Org-016		31	<25	<25	.0		
Benzene	mg/kg	0.2	Org-016		31	<0.2	-0.2	0		
Toluene	mg/kg	0.5	Org-816		31	<0.5	<0.5	0		
Ethylbenzene	mg/kg	1	Org-016		31	s1	41	۵		
m+p-xylene	mg/kg	2	Org-016		31	<2	<2	0		
z-Xylene	mg/kg	1	Org-016		31	41	<1	0		
naphthalene.	mg/kg	4	Org-014		31	-d	≺1	0		
Surrogate aaa-Trifluorotoluene	20		Org-016		31	93	93	0		

QUALITY CON	TROL VTRH	(C6-C10)/E	STEXN in Sail			Du	plicate		Spike Recovery %		
Test Description	Units	PQL	Mathod	Blank	#	Base	Dbp.	RPD	INITI	[NT]	
Date extracted	-				41	25/06/2018	25/06/2018				
Date analysed	4				41	28/08/2018	26/06/2018				
TRH C6 - C5	mg/kg	25	Org-016		41	<25	<25	.0.			
TRH CE - CH	mg/kg	25	Org-016		41	×25	<25	0			
Benzene	mg/kg	0.2	Org-018		41	<0.2	<0.2	g.			
Toluene	mg/kg	0.5	Org-016		41	<0.5	<0.5	0			
Ethylbenzene	mg/kg	1	Org-016		41	<1	*1	0			
m+p-xylene	mg/kg	2	Org-016		41	-2	-2	0			
o-Xylene	mg/kg	1	Org-016		41	<1	31	0			
naphthalene	mg/kg	1	D/g-014		41	*1	<1	0			
Surragate sea-Triffuorotoluene	150		Drg-016		41	95	89	7			

QUALITY CON	TROL VTRH	(C6-C10)/E	ETEXN in Sail			Du	plicate		Spike Re	covery 5
Test Description	Units	POL	Melhod	Blank	tt	Base	Dup	RPD	(NT)	[NT]
Date extracted	-				51	25/06/2018	25/06/2018			
Date analysed	4				51	28/08/2018	26/06/2018			
TRH C <sub>6</sub> - C <sub>6</sub>	mg/kg	25	Org-016		51	<25	<25	0		
TRH Gc - GH	mg/kg	25	Org-016		51	<25	<25	0		
Benzene	mg/kg	0.2	Org-016	1881	51	<0.2	<0.2	0		
Taluene	mg/kg	0:5	Drg-016		51	<0.5	<0.5	0		
Ethylbenzene	mg/kg	1	Org-016		51	41	<t< td=""><td>0</td><td></td><td></td></t<>	0		
m+p-xylene	mg/kg	2	Org-016		51	+2	<2	D		
o-Xylene	mg/kg	3	Drg-016		51	<1	+1	0		
naphthalene	mg/kg	-1	Org-014		51	<b>51</b>	st.	.0.		
Surrogate asa-Trifluorotoluene	16		Org-016		51	109	110	1		

Revision No. R00

Page | 66 of 88

QUALITY	CONTROL SV	TRH (C10-0	(40) in Spil			Đu	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	LCS/4	194568-2
Date extracted	-			25/06/2018	1	25/06/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed				26/08/2018	1	25/08/2018	25/06/2018		25/08/2018	25/06/2019
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-903	450	Y	<50	<b>∗50</b>	0	112	100
TRH C <sub>IS</sub> - C <sub>28</sub>	mgrkg	100	Org-003	<100	1	⊣100	<100	0	100	86
TRH C <sub>29</sub> - C <sub>35</sub>	mg/kg	100	Org-003	<100	4	<100	<100	0	77	71
TRH >Cm+Cm	mg/kg	60	Org-003	<50	3	<50	<50	0	112	100
TRH >Cts+Cs	mg/kg	100	Org-003	¢100	Y	<100	<100	0	100	86
TRH > C <sub>34</sub> - C <sub>46</sub>	mg/kg	100	Org-003	⊲100	1	<100	<100	0	77	71
Surrogate o-Terphenyl	16		Org-003	97	1	100	99	1	115	107

QUALITY	CONTROL SV	TRH (C10-C	(40) in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	194568-22
Date extracted				-00	11	25/08/2018	25/06/2018		25/06/2018	25/06/2018
Date analysed					11	25/08/2018	25/06/2018		25/08/2018	28/06/2018
TRH C11 - C14	mg/kg	50	Org-003		11	<50	<b>₹50</b>	0	117	101
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		11	<100	<100	0	110	96
TRH C <sub>20</sub> = C <sub>38</sub>	mg/kg	100	Org-003		51	<100	<100	e	77	83
TRH >Cm-Cm	mg/kg	50	Org-903		11	~50	≺50	0	117	101
TRH >C16-C34	mg/kg	100	Org-003		11	<100	<100	0	110	96
TRH >C <sub>34</sub> -C <sub>46</sub>	mg/kg	100	Org-003		11	120	<100	18	77	83
Surrogate o-Terphenyl	76		Org-003		11	98	98	2	125	95

QUALITY	Y CONTROL: SVI	TRH (C10-0	(40) in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	194566-42
Date extracted	1.0			-00	21	25/05/2018	25/06/2018		25/06/2018	25/06/2018
Date analysed	-				21	26/06/2018	25/06/2018		26/08/2018	26/06/2018
TRH Cu - CH	mg/kg	50	Org-003		21	~50	~50	D	118	102
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		21	<100	<100	0	107	95
TRH C <sub>25</sub> - C <sub>36</sub>	mg/kg	100	Org-003		21	≺100	<100	0	77	80
TRH >Cm-Cn	mg/kg	50	Org-003		21	450	<50	0	118	102
TRH >C16+Car	mg/kg	100	Org-003		21	<100	<100	0	107	95
TRH >C <sub>38</sub> -C <sub>88</sub>	mg/kg	100	Org-003		.21	<100	<100	0	77	80
Surrogate o-Terphenyl	-1%		Org-003		21	97	98	141	124	94

Crystole No. Roo Roo

FMBE | 67 of 88

QUALITY	CONTROL SV	TRH (C10-0	(40) in Spil			Du	plicate		Spike Re	covery 9
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	part	[NT]
Date extracted	2.				31	25/08/2018	25/06/2018			
Date analysed					31	28/08/2018	26/06/2018			
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-903		31	<50	≪50	0		
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		31	⊣100	<100	0		
TRH G <sub>29</sub> - G <sub>35</sub>	mg/kg	100	Org-003		31	<100	<100	0		
TRH >Cm+Cm	mg/kg	60	Org-003		31	<50	<50	0		
TRH >C <sub>15</sub> +C <sub>34</sub>	mg/kg	100	Org-003		31	<100	×100	۵		
TRH > C <sub>34</sub> -C <sub>46</sub>	mg/kg	100	Org-003		31	<100	<100	0		
Surrogate o-Terphenyl	%		Org-003		31	94	94	0		

QUALITY	CONTROL SVI	RH (C10-C	(40) in Soll			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	M	Base	Dup	RPD	INTI	[NT]
Date extracted				-00	41	25/08/2018	25/06/2018			
Date analysed					41	26/05/2018	26/06/2018			
TRH CH - CH	mg/kg	50	Org-003		41	<50	<b>≈50</b>	0		
TRH C <sub>15</sub> - C <sub>38</sub>	mg/kg	100	Org-003		41	<100	<100	0		
TRH C <sub>22</sub> = C <sub>38</sub>	mg/kg	100	Org-003		41	<100	<100	0		
TRH >Cm-Cm	mg/kg	60	Org-003		41	<50	≺50 ·	0		
TRH >C16-C34	mg/kg	100	Org-003	-	41	<100	<100	0		
TRH >CM-Cm	mg/kg	100	Org-003		41	<100	<100	0		
Surrogate o-Terphenyl	76		Org-003		41	100	94	6		

QUALIT	Y CONTROL: SV	TRH (C10-0	(40) in Soil	_		Du	plicate		Spike Re	covery 1%
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	INTI	INTI
Date extracted	10.0			-00	51	25/05/2018	25/06/2018			
Date analysed	+				51	26/06/2018	25/06/2018			
TRH Cu - CH	mg/kg	50	Org-003		51	<50	~50	D		
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		61	<100	<100	0		
TRH C <sub>25</sub> - C <sub>16</sub>	mg/kg	100	Org-003	[86]	51	<100	<100	0		
TRH >Cm -Ch	mg/kg	50	Org-003		51	<b>₹50</b>	<50	D.		
TRH >C16-C3r	mg/kg	100	Org-003		51	<100	<100	0		
TRH >C <sub>31</sub> -C <sub>81</sub>	mg/kg	100	Org-003		51	<100	<100	0		
Surrogate o-Terphenyl	%		Org-003		51	94	94	0		

Envirolab Reference 194568 Revision No. R00 Phile | 68 of 88

OUA	LITY CONTRO	L PAHs in	Soil			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Base	Dup	RPD	LCS/4	194568-2
Date extracted				25/06/2018	1	25/08/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed	-			26/08/2018	1	28/08/2018	26/06/2018		28/08/2018	26/06/2018
Naphthalene	mg/kg	0.1	Org-012	<0.1	Y	<0.1	<0.1	0	94	92
Acenaphthylene	mg/kg	0.1	Org-512	<0.1	3	<0.1	√0.1	0		
Acenaphthene	mg/kg	0.1	Org-012	<0.1	4	<0.1	<0.1	0		
Fluorene	mg/kg	0.1	Org-012	<0.1	3	<0.1	<0.1	0	92	91
Phenanthrene	mg/kg	0.1	Org-012	<0.1	Y	<0.1	<0.1	0	95	93
Anthracens	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012	<0.1	2	<0.1	40.1	0	96	94
Pyrene	mg/kg	0.1	Org-012	<0.1	7	40.1	40 f	0	102	99
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	- 1	<0.1	<0.1	0		
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	D	94	92
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	< 0.2	<0.2	Ò		
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.06	9	<0.05	<0.05	Ď.	115	130
indeno(1,2 3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	40.1	0		
Dibenzo(a,h)enthrecene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0		
Benzo(g.h,i)perylene	mg/kg	0.1	Org-012	<0,1	1	<0.†	<0.1	0		
Surrogate p-Terphenyl-d14	4		Org-012	92	1	83	82	7	121	119

QUA	ALITY CONTRO	L PAHS	Sall			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dop.	RPD	LCS-5	194566-22
Date extracted	4.1				51	25/06/2018	26/06/2018		25/06/2018	25/06/2018
Date analysed	100				11	26/08/2018	26/06/2018		26/06/2018	26/06/2018
Naphthalene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0	94	96
Acenaphthylene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0		
Acenaphthene	mg/kg	0.1	Org-012		11	4D.1	40.1	0		
Fluorene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0	93	95
Phenanthrane	mg/kg	0.1	Org-012		11	<0.1	<0.1	D	95	97
Anthracena	mg/kg	0.1	Org-012		11	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0	96	101
Pyrene	mg/kg	0.1	Org-012		11	<0.1	<0.1	.0	104	106
Benzo(a)anthracene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0		
Chrysene	mg/kg	01	Org-012		11	<0.1	<0.1	0	94	84
Benzo(b.j+k)fluoranthens	mg/kg	0.2	Org-012		11	<0.2	<0.2	0		
Benzo(a)pyrene	mg/kg	0.05	Org-012		11	<0.05	<0.05	0	97	82
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012		11	<0.1	40.1	Ö		
Diberizo(a,h)anthracene	mg/kg	0.1	Org-012		11	*0.1	+0.1	0		
Benzo(g.h.i)perylene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0		
Surrogate p-Terphenyl-c14	- 16		Org-012		11	93	95	2	123	126

Envirolab Reference 194568 Roo Roo Philips | 69 of 88

OUA	LITY CONTRO	L: PAHs in	Soil			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	LCS-6	194568-42
Date extracted	-				21	25/08/2018	25/06/2018		25/05/2018	25/05/2018
Date analysed	-				21	28/08/2018	26/06/2018		28/08/2018	26/06/2018
Naphthalene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0	96	92
Acenaphthylene	mg/kg	0.1	Org-012		21	<0.1	<b>≺0.1</b>	0		
Acenaphthene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Fluorene	mg/kg	0.1	Org-012		23	<0.1	<0.1	0	97	86
Phenanthrene	mg/kg	0.1	Org-012		21	<0.1	<0.1	Ď	102	95
Anthracens	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0	99	87
Pyrene	mg/kg	0.1	Org-012		21	40.1	40.1	0	109	93
Benzo(a)anthracene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Chrysene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0	101	94
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012		21	< 0.2	<0.2	ò		
Berizo(a)pyrene	mg/kg	0.05	Org-012		21	<0.05	<0.05	Ď	101	84
Indeno(1,2 3-c,d)pyrene	mg/kg	0.1	Org-012		21	<0.1	40.1	0		
Dibenzo(a,h)enthracene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012		21	<0.†	<0.1	0		
Surrogate p-Terphenyl-d14	4		Org-012		21	93	90	3	127	107

QUA	LITY CONTRO	L PAHS III	Soll			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup,	RPD	[NT]	TNT
Date extracted	4.			-	31	25/05/2018	26/06/2018			
Date analysed					31	26/08/2018	26/06/2018			
Naphthalene	mg/kg	0.1	Org-012		31	<0.1	<0.1	.0		
Acenaphthylene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0		
Acenaphthene	mg/kg	0.1	Org-012	11.1	31	4D,1	+0.1	0		
Fluorene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0		
Phenanthrane	mg/kg	0.1	Org-012		31	<0.1	<0.1	D		
Anthracene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-D12		31	<0.1	<0.1	0		
Pyrene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0		
Benzo(a)anthracene	mg/kg	0.1	Org-012		31	<0.1	<0.1	G		
Chrysene	mg/kg	01	Org-012		31	<0.1	<0.1	0		
Benzo(b.j+k)fluoranthens	mg/kg	0.2	Org-012		31	<0.2	<0.2	0		
Benzo(a)pyrene	mg/kg	0.05	Org-012		31	<0.05	<0.05	0		
indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012		31	<0.1	40.1	Ö		
Diberizo(a,h)anthracene	mg/kg	0.1	Org-012		31	×0.1	+0.1	0		
Benzo(g.h.i)perylene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0		
Surrogate p-Terphanyl-c14	- 16		Org-012		31	90	85	6		

Envirolab Reference 194568 Revision No. R00 Page | 70 of 88

QUA	LITY CONTRO	L: PAHs in	Sail			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	part	INT
Date extracted	-				41	25/08/2018	25/06/2018			
Date analysed					41	28/08/2018	26/06/2018			
Naphthalene	mg/kg	0.1	Org-012		41	≪0.1	<0.1	0		
Acenaphthylene	mg/kg	0.1	Org-012		41	<0.1	≺0.1	.0		
Acenaphthene	mg/kg	0.1	Org-012		41	<0.1	<0.1	0		
Fluorene	mg/kg	0.1	Org-012		41	<0.1	<0.1	0		
Phenanthrene	mg/kg	0.1	Org-012		41	<0.1	<0.1	Ď		
Anthracens	mg/kg	0.1	Org-012		41	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012		41	<0.1	<0.1	0		
Pyrene	mg/kg	0.1	Org-012		41	40.1	40.1	0		
Benzo(a)anthracene	mg/kg	0.1	Org-012	del	41	<0.1	<0.1	0		
Chrysene	mg/kg	0.1	Org-012		41	<0.1	<0.1	0		
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012		41	< 0.2	<0.2	0		
Benzo(a)pyrene	mg/kg	0.05	Org-012		41	<0.05	<0.05	Ď.		
ndeno(1,2 3-c,d)pyrene	mg/kg	0.1	Org-012		41	<0.1	40.1	0		
Dibenzo(a;h)enthracene	mg/kg	0.1	Org-012		41	<0.1	<0.†	.0		
Benzo(g,h,i perylene	mg/kg	0.1	Org-012		41	<0.1	<0.1	0		
Surrogate p-Terphenyl-d14	4		Org-012		41	107	85	23		

QUA	LITY CONTRO	L PAHS	Soll			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	[NT]	INT
Date extracted	4.0				51	25/05/2018	26/06/2018			
Date analysed	1				51	26/08/2018	26/06/2018			
Naphthalene	mg/kg	0.1	Org-012		51	<0.1	<0.1	.0		
Acenaphthylene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Acenaphthene	mg/kg	0.1	Org-012	11.1	51	4D.1	+0.1	0		
Fluorene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Phenanthrane	mg/kg	0.1	Org-012		51	<0.1	<0.1	D		
Anthracena	mg/kg	0.1	Org-012		61	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012		61	<0.1	<0.1	0		
Pyrene	mg/kg -	0.1	Org-012		51	<0.1	<0.1	0		
Benzo(a)anthracene	mg/kg	0.1	Org-012		51	<0.1	<0.1	G		
Chrysene	mg/kg	01	Org-012		51	<0.1	<0.1	0		
Benzo(b.j+k)fluoranthene	mg/kg	0.2	Org-012		51	<0.2	<0.2	0		
Benzo(a)pyrene	mg/kg	0.05	Org-012		51	<0.05	<0.05	0		
ndeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012		51	<0.1	40.1	0		
Diberizo(a,h)anthracene	mg/kg	0.1	Org-012		51	×0.1	+0.1	0		
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Surragate p-Terphanyl-c14	16		Org-012		51	97	111	13		

Envirolab Reference, 194568 Revision No. R00 Page | 71 of 88

QUALITY C	ONTROL Organi	ichlorina P	esticides in soil			Đu	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	LCS/4	194568-2
Date extracted	-			25/06/2018	1	25/06/2018	25/06/2018		25/05/2018	25/05/2019
Date analysed	4			26/08/2018	1	28/08/2018	26/06/2018		28/08/2018	26/06/2019
HCB	mg/kg	0.1	Org-005	<0.1	Y	<0.1	<0.1	0		
alpha-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	≺0.1	0	94	91
gamma-BHC	mg/kg	0.1	Org-005	<0.1	4	<0.1	<0.1	0		
beta-BHC	mg/kg	0.1	Org-005	<0.1	3	<0.1	<0.1	0	89	84
Heptachlor	mg/kg	0.1	Org-005	<0.1	Y	<0.1	<0.1	Ď	96	90
delta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0		
Aldrin	mg/kg	0.1	Org-005	<0.1	2	<0.1	<0.1	0	96	90
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	7	40.1	40.1	0	93	93
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0		
alpha-chlordene	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0		
Endosulfan I	mg/kg	0.1	Org-005	<0,1	1	<0.1	<0.1	ò		
pp-DDE	mg/kg	0.1	Org-005	<0.1	9	<0.1	<0.1	Ò	101	95
Dieldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	40.1	0	108	102
Endnin	mg/kg .	0.1	Org-005	×0.1	1	<0.1	<0.1	0	94	90
pp-DDD	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	97	91
Endosulfan II	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0		
pp-DDT	ing/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0		
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	1	<0.1	+0.1	0		
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	1	<0.1	40.1	0	109	101
Methoxychlar	mg/kg	0.1	Org-005	.<0,1	1	<0.1	<0.1	. 0		
Surrogate TCMX	- 5		Org-005	114	1	119	117	2	112	117

Chymalet Reference 194568 Royanat No. Roo Phase | 72 of 88

QUALITY C	ONTROL Organi	schlorine P	esticides in soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LC8-5	194568-2
Date extracted	-				11	25/08/2018	25/06/2018		25/05/2018	25/06/2011
Date analysed					11	28/08/2018	26/06/2018		26/06/2018	26/06/201
HCB	mg/kg	0.1	Org-005		11	<0.1	<0.1	0		
alpha-BHC	mg/kg	0.1	Org-005		11	<0.1	√0.1	.0	89	92
gamma-BHC	mg/kg	0.1	Org-005		11	<0.1	<0.1	0		
beta-BHC	mg/kg	0.1	Org-005		11	<0.1	<0.1	0	85	84
Heptachler	mg/kg	0.1	Org-005		11	<0.1	<0.1	0	84	84
delta-BHC	mg/kg	0.1	Org-005		33	<0.1	<0.1	0		
Aldrin	mg/kg	0.1	Org-005		11	<0.1	40.1	0	93	93
Heptachlor Epoxide	mg/kg	0.1	Org-005		11	40.1	40 f	0	91	94
gamma-Chlordane	mg/kg	0.1	Org-005		11	<0.1	<0.1	0		
alpha-chlordene	mg/kg	0.1	Org-005		11	<0.1	<0.1	0		
Endosulfan I	mg/kg	0.1	Org-005		11	<0.1	<0.1	Ò		
pp-DDE	mg/kg	0.1	Org-005		11	<0.1	<0.1	D	98	97
Dieldrin	mg/kg	0.1	Org-905		11	<q.1< td=""><td>40.1</td><td>0</td><td>104</td><td>103</td></q.1<>	40.1	0	104	103
Endrin	mg/kg .	0.1	Org-005		11	<0.1	<0.†	0	86	86
pp-DDD	mg/kg	0.1	Org-005	10001	11	<0.1	<0.1	0	91	90
Endosulfan II	mg/kg	0.1	Org-005		13	<0.1	<0.1	0		
pp-DDT	mg/kg	0.1	Org-005	100	11	<0.1	<0.1	0		
Endrin Aldehyde	mg/kg	0.1	Org-005		11	<0.1	+0.1	0		
Endosulfan Sulphate	mg/kg	0.1	Org-005		11	<0.1	40.1	.0	76	88
Methoxychlar	mg/kg	0.1	Org-005		11	<0.1	<0.1	. 0		
Surrogate TCMX	5		Org-005		11	122	122	0	113	115

Crystolet Reference 194568 (Reywork No. R00 Page | 73 of 88

QUALITY C	ONTROL Organi	ichlorina P	esticides in soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LCS-6	194568-42
Date extracted	-				21	25/08/2018	25/06/2018		25/05/2018	25/06/2018
Date analysed	4				21	28/08/2018	26/06/2018		26/06/2018	26/06/2018
HCB	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
alpha-BHC	mg/kg	0.1	Org-005		21	<0.1	≺0.1	.0	89	82
gamma-BHC	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
beta-BHC	mg/kg	0.1	Org-005		21	<0.1	<0.1	0	87	81
Heptachler	mg/kg	0.1	Org-005		21	<0.1	1.0>	0	84	82
delta-BHC	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Aldrin	mg/kg	0.1	Org-005		21	<0.1	40.1	0	96	68
Heptachler Epoxide	mg/kg	0.1	Org-005		21	40.1	40.1	0	92	90
gamma-Chlordane	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
alpha-chlordene	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Endosulfan I	mg/kg	0.1	Drg-005		21	<0.1	<0.1	Ó		
pp-DDE	mg/kg	0.1	Org-005		21	<0.1	<0.1	Ď.	100	93
Dieldrin	mg/kg	0.1	Org-905		21	<0.1	40.1	0	106	.98
Endnin	mg/kg .	0.1	Org-005		21	<0.1	-0.1	0	86	85
pp-DDD	mg/kg	0.1	Org-005		21	<0.1	<0.1	0	92	89
Endosulfan (i	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
pp-DDT	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Endrin Aldehyde	mg/kg	0.1	Org-005		21	<0.1	40.1	0		
Endosulfan Sulphate	mg/kg	0.1	Org-005		21	<0.1	40.1	0	73	70
Methoxychlar	mg/kg	0.1	Org-005		21	<0.1	<0.1	. 0		
Surrogate TCMX	- 5		Org-005		21	118	119	1	114	107

Chymale Millerence 194568

Page | 74 of 88

QUALITY C	ONTROL Organi	schlorina P	esticides in soil			Đu	plicate		Spike Re	covery 9
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	part	[NT]
Date extracted	-				41	25/08/2018	25/06/2018			
Date analysed					41	28/08/2018	26/06/2018			
HCB	mg/kg	0.1	Org-005		41	<0.1	<0.1	0		
ilpha-BHC	mg/kg	0.1	Org-005		41	<0.1	≺0.1	.0		
amma-BHC	mg/kg	0.1	Org-005		-41	<0.1	<0.1	0		
eta-BHC	mg/kg	0.1	Org-005		41	<0.1	<0.1	0		
feptachlor	mg/kg	0.1	Org-005		41	<0.1	<0.1	۵		
delta-BHC	mg/kg	0.1	Org-005		41	<0.1	<0.1	0		
Aldrin	mg/kg	0.1	Org-005		41	≺0.1	40.1	0		
Heptachler Epoxide	mg/kg	0.1	Org-005		41	40.1	40 1	0		
amma-Chlordane	mg/kg	0.1	Org-005		41	<0.1	<0.1	a		
alpha-chlordene	mg/kg	0.1	Org-005		41	<0.1	<0.1	0		
Endosulfan I	mg/kg	0.1	Org-005		41	<0.1	<0.1	Ò		
p-DDE	mg/kg	0.1	Org-005		41	<0.1	<0.1	Ď.		
Dieldrin	mg/kg	0.1	Org-905		41	<0.1	40.1	0		
Endrin	mg/kg	0.1	Org-005		41	<0.1	<0.1	0		
sp-DDD	mg/kg	01	Org-005		41	<0.1	<0.1	0		
Endosulfan (i	mg/kg	0.1	Org-005		41	<0.1	<0.1	0		
p-DDT	mg/kg	0.1	Org-005		41	<0.1	<0.1	0		
Endrin Aldehyde	mg/kg	0.1	Org-005		41	<0.1	+0.1	0		
Endosulfan Sulphate	mg/kg	0.1	Org-005		41	<0.1	40.1	0		
Methoxychlor	mg/kg	0.1	Org-005		41	<0.1	<0.1	. 0		
Surrogate TCMX	5		Org-005		41	112	113	1		

Envirolab Reference 194568 Revision No. R00 Page | 75 of 88

QUALITY C	ONTROL Organi	chiorina P	esticides in soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	INTI	[NT]
Date extracted	-				51	25/08/2018	25/06/2018			
Date analysed					51	28/08/2018	26/06/2018			
HCB	mg/kg	0.1	Org-005		61	<0.1	<0.1	0		
ilpha-BHC	mg/kg	0.1	Org-005		51	<0.1	√0.1	.0		
gamma-BHC	mg/kg	0.1	Org-005		51	<0.1	<0.1	0		
eta-BHC	mg/kg	0.1	Org-005		51	<0.1	<0.1	0		
feptachler	mg/kg	0.1	Org-005		51	<0.1	<0.1	۵		
delta-BHC	mg/kg	0.1	Org-005		51	<0.1	<0.1	0		
Aldrin	mg/kg	0.1	Org-005		51	≺0.1	40.1	0		
Heptachler Epoxide	mg/kg	0.1	Org-005		51	40.1	40 f	0		
amma-Chlordane	mg/kg	0.1	Org-005		51	<0.1	<0.1	0		
ilpha-chlordene	mg/kg	0.1	Org-005		51	<0.1	<0.1	0		
Endosulfan I	mg/kg	0.1	Org-005		51	<0.1	<0.1	Ö		
p-DDE	mg/kg	0.1	Org-005		51	<0.1	<0.1	Ď.		
Dieldrin	mg/kg	0.1	Org-905		51	<0.1	40.1	0		
Endrin	mg/kg	0.1	Org-005		51	<0.1	<0.†	.0		
sp-DDD	mg/kg	01	Org-005	10-1	51	<0.1	<0.1	0		
Endosulfan (i	mg/kg	0.1	Org-005		51	<0.1	<0.1	0		
p-DDT	mg/kg	0.1	Org-005	1911	51	<0.1	<0.1	0		
Endrin Aldehyde	mg/kg	0.1	Org-005		51	<0.1	40.1	0		
Endosulfan Sulphate	mg/kg	0.1	Org-005		51	<0.1	40.1	0		
Methoxychlor	mg/kg	0.1	Org-005		51	<0.1	<0.1	, D		
Surrogate TCMX	5		Org-005		51	117	117	0		

Enymetab Reference 194568 Revision No. R00 Page | 76 of 88

QUALITY CO	NTROL Organ	raphospha!	us Pesticides			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LCS14	194568-2
Date extracted	2.			25/06/2018	1	25/06/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed	-			26/06/2018	1	28/08/2018	26/06/2018		26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-908	≥0.1	Υ.	<0.1	<0.1	0		
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	1	<0.1	√0.1	.0		
Chlarpyriphos	mg/kg	0.1	Org-008	<0.1	4	<0.1	<0.1	0	95	102
Chlorpyriphos-methy!	mg/kg	0.1	Org-008	<0.1	3	<0.1	<0.1	0		
Diazinon	mg/kg	0.1	Org-008	<0.1	Y	<0.1	<0.1	Ď		
Dichloryos	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	98	98
Dimethoate	mg/kg	0.1	Org-008	<0.1	2	<0.1	40.1	0		
Ethion	mg/kg	0.1	Org-008	<0.1	7	40.1	<0.1	0	98	102
Fenitrothion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	101	106
Malathion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	94	99
Parathion	mg/kg	0.1	Org-008	<0,1	1	<0.1	<0.1	ò	109	113
Ronnel	mg/kg	0.1	Org-008	<0;1	9	<0.1	<0.1	Ď.	106	113
Surrogate TCMX	-%		Org-908	114	1	119	117	2	114	123

QUALITY CO	NTROL: Organ	nophospha	us Pesticidas			Du	plicate		Spike Re	covery 5
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	194568-22
Date extracted					11	25/08/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed	+				11	26/08/2018	26/06/2018		28/08/2018	26/06/2018
Azinphas-methyl (Guthion)	mg/kg	0.1	Org-008		11	<0.1	<0.1	D		
Bromophos-ethyl	mg/kg	0.1	Org-008		11	<0.1	<0.1	0		
Chlorpynphos	mg/kg	0.1	Org-008	100	11	<0.1	<0.1	0	91	95
Chlorpyriphos-methyl	mg/kg	0.1	Org-008		11	<0.1	≺0.1	0		
Diazinon	mg/kg	0.1	Org-008		11	<0.1	40.1	D		
Dichlorvos	mg/kg	0.1	Org-008		11	×0.1	40.1		98	105
Dimethoate	mg/kg	0.1	Drg-008		11	<0.1	<0.1	0		
Ethion	mg/kg	0.1	Org-008		11	<0.1	<0.1	0	96	94
Fenitrothion	mg/kg	0.1	Org-008	(News)	11	<0.1	<0.1	0	94	96
Malathion	mg/kg	0.1	Org-008		11	<0.1	<0.1	Ö	74	88
Parathion	mg/kg	0.1	Org-008		11	<0.1	<0.1	0	100	102
Ronnel	mg/kg	0.1	Org-008		11	<0,1	<0,1	0	101	106
Surrogate TCMX	1.00		Org-008		11	122	122	0	114	117

Covered No. Rep. 194568

Page | 77 of 88

QUALITY CO	NTROL Organ	naphospha	rus Pesticides			Du	plicate		Bpike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LCS-6	194568-42
Date extracted	-				21	25/08/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed	-				21	26/08/2018	26/06/2018		26/06/2018	26/06/2018
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008		21	<0.1	<0.1	0		
Bromophos-ethyl	mg/kg	0.1	Org-008		.21	<0.1	≺0.1	.0		
Chlarpyriphos	mg/kg	0.1	Org-008		21	<0.1	<0.1	0	93	95
Chlorpyriphos-methy!	mg/kg	0.1	Org-008		23	<0.1	<0.1	0		
Diazinon	mg/kg	0.1	Org-008		21	<0.1	<0.1	Ď		
Dichloryos	mg/kg	0.1	Org-008		21	<0.1	<0.1	0	86	75
Dimethoate	mg/kg	0.1	Org-008		21	<0.1	40.1	0		
Ethion	mg/kg	0.1	Org-008		21	40.1	40.1	0	97	100
Fenitrathian	mg/kg	0.1	Org-008		21	<0.1	<0.1	0	94	93
Malathion	mg/kg	0.1	Org-008		21	<0.1	<0.1	0	76	69
Parathion	mg/kg	0.1	Org-008		21	<0.1	<0.1	ò	102	104
Ronnel	mg/kg	0.1	Org-008		21	<0.1	<0.1	Ď.	103	107
Surrogate TCMX	*		Org-008		21	118	119	1	119	110

QUALITY CO	NTROL: Organ	rephasphat	us Pesticides		-	Du	plicate		Spike Re	covery 5
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	(NT)	[NT]
Date extracted				-	41	25/08/2018	25/06/2018			-
Date analysed	+				41	26/08/2018	26/06/2018			
Azinphas-methyl (Guthion)	mg/kg	0.1	Org-008		41	<0.1	<0.1	0		
Bromophos-ethyl	mg/kg	0.1	Org-009		41	<0.1	<0.1	0		
Chlorpyriphos	mg/kg	0.1	Org-008		41	<0.1	<0.1	0		
Chlorpyriphos-methyl	mg/kg	0.1	Org-008		41	<0.1	≺0.1	0		
Diazinon	mg/kg	0.1	Org-008		41	<0.1	40.1	D		
Dichlorvos	mg/kg	0.1	Org-008		41	×0.1	+0.1	. 5		
Dimethoate	mg/kg	0.1	Drg-008		41	<0,1	<0.1	a		
Ethion	mg/kg	0.1	Org-008		41	<0.1	<0.1	0		
Fenitrothion	mg/kg	0.1	Org-008		41	<0.1	<0.1	0		
Malathion	mg/kg	0.1	Org-008		41	<0.1	<0.1	0		
Parathion	mg/kg	0.1	Org-008		41	<0.1	<0.1	0		
Ronnel	mg/kg	0.1	Org-008		-41	<0,1	40,1	D.		
Surrogate TCMX	156		Org-008		41	112	113	1		

Envirolab Reference 194568 Revision No. R00 Page | 78 of 88

QUALITY CO	NTROL Organ	naphospha!	rus Pesticides			Du	plicate		Spike Re	covery 9
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	INITI	[NT]
Date extracted	-				51	25/06/2018	25/06/2018			
Date analysed					51	28/08/2018	26/06/2018			
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008		61	<0.1	<0.1	0		
Bromophos-ethyl	mg/kg	0.1	Org-008		51	<0.1	√0.1	0		
Chlorpyriphos	mg/kg	0.1	Org-008		51	<0.1	<0.1	0		
Chilorpyriphos-methy!	mg/kg	0.1	Org-008		51	<0.1	<0.1	0		
Diazinon	mg/kg	0.1	Org-008		61	<0.1	<0.1	0		
Dichloryos	mg/kg	0.1	Org-008		51	<0.1	<0.1	0		
Dimethoate	mg/kg	0.1	Org-008		51	<0.1	40.1	0		
Ethion	mg/kg	0.1	Org-008		51	40.1	40.1	0		
Fenitrathion	mg/kg	0.1	Org-008	100	51	<0.1	<0.1	ū		
Malathion	mg/kg	0.1	Org-008		51	<0.1	<0.1	0		
Parathion	mg/kg	0.1	Org-008		51	<0.1	<0.1	Ö		
Ronnel	mg/kg	0.1	Org-008		51	<0.1	<0.1	ů-		
Surrogate TCMX	-%		Org-008		51	117	117	0		

Envirolab Reference 194568 Revision No. R00 Page | 79 of 88

0	DUALITY CONTRO	L. PCBs in	Sail			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LCS/4	194568-2
Date extracted				25/06/2018	1	25/06/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed				26/08/2018	1	28/08/2018	26/06/2018		28/08/2018	26/06/2018
Arocior 1016	mg/kg	0.1	Org-906	<0.1	Y	<0.1	<0.1	0		
Arocior 1221	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0		
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	4	<0.1	<0.1	0		
Aroclar 1242	mg/kg	0.1	Org-006	<0.1	3.	<0.1	<0.1	0		
Araclar 1248	mg/kg	0.1	Org-006	<0.1	Y	<0.1	<0.1	Ď		
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	101	105
Aroclar 1280	mg/kg	0.1	Org-006	<0.1	2	<0.1	<0.1	0		
Surrogate TCLMX	18		Org-006	114	7	119	117	2	114	123

	GUALITY CONTRO	PCBs in	. Sail			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	194568-22
Date extracted	-				33	25/08/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed					11	25/06/2018	26/06/2018		29/06/2018	26/06/2018
Araclar 1016	mg/kg	0.1	Org-006		11	<0.1	<0.1	0		
Aroclar 122T	mg/kg	0.1	Org-006		11	<0,1	<0.1	0		
Aroclar 1232	mg/kg	0.1	Org-008		11	<0.1	<0.1	D		
Aroclar 1242	mg/kg	0.1	Org-008		11	<0.1	40.1	0		
Aroclor 1248	mg/kg	0.1	Org-006		11	<0.1	+0.1	0		
Araclar 1254	mg/kg	0.1	Org-006		11	<0.1	<01	0	102	100
Araclar 1260	mg/kg	01	Org-006		51	<0.1	<0.1	0		
Surrogate TCLMX	3%		Org-006		11	122	122	0	114	117

	DUALITY CONTRO	L PCBs in	Soll			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	LCS-6	194568-42
Date extracted	91				21	25/06/2018	25/06/2018		25/05/2018	25/06/2018
Date analysed	-				21	28/08/2018	26/06/2018		26/08/2018	26/06/2018
Aracler 1016	mg/kg	0.1	Org-006		21	<0.1	<0.1	0		
Aroclar 1221	mg/kg	0.1	Org-006		21	<0.1	+0.1	0		
Aroclor 1232	mg/kg	0.1	Org-006		21	<0.1	<0.1	0		
Arocior 1242	mg/kg	0.1	Org-006		.21	<0.1	<0.1	0		
Aroclar 1248	mg/kg	0.1	Org-006		21	<0.1	<0.1	0		
Aroclor 1254	mg/kg	0.1	Org-008		21	<0.1	<0.1	0	102	100
Aroclor 1260	mg/kg	0.1	Org-006	1000	21	<0.1	<0.1	0		
Swrogate TCLMX	156		Drg-006		21	118	119	1	119	110

Chymalab Reference 194568 Physical Reference R00 Page | 80 of 88

C	DUALITY CONTRO	L: PCBs in	Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	INITI	[NT]
Date extracted					41	25/08/2018	25/06/2018			
Date analysed	4				41	28/08/2018	26/06/2018			
Aroctor 1016	mg/kg	0.1	Org-908		41	<0.1	<0.1	0		
Aroclor 1221	mg/kg	0.1	Org-006		41	<0.1	√0.1	.0		
Aroclar 1232	mg/kg	0.1	Org-006		-41	<0.1	<0.1	0		
Aroclar 1242	mg/kg	0.1	Org-006		41	<0.1	<0.1	0		
Araclar 1248	mg/kg	0.1	Org-008		41	<0.1	<0.1	à		
Aroclor 1254	mg/kg	0.1	Org-006		41	<0.1	<0.1	0		
Aroclar 1260	mg/kg	0.1	Org-006		41	<0.1	40.1	0		
Surrogate TCLMX	18		Org-006		-41	112	113	1		

	GUALITY CONTROL	PCBs in	Sail			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	MIL	[NT]
Date extracted	91			1 -	51	25/08/2018	25/06/2018			100
Date analysed					51	26/06/2018	26/06/2018			
Araciar 1016	mg/kg	0.1	Org-006		51	<0.1	<0.1	0		
Aroclor 122T	mg/kg	0.1	Org-006		51	<0.1	<0.1	0		
Aroclar 1232	mg/kg	0.1	Org-008		51	<0.1	<0.1	D		
Aroclar 1242	mg/kg	0.1	Org-008		51	<0.1	40.1	0		
Aroclor 1248	mg/kg	0.1	Org-006		51	<0.1	+0.1	0		
Araclar 1254	mg/kg	0.1	Org-006		51	<0.1	<01	0		
Araclar 1250	mg/kg	0.1	Org-006		51	<0.1	<0.1	0		
Surrogate TCLMX	-56		Org-006		51	117	117	0		

Envirolab Reference 194568 Revision No. R00 Page | 81 of 88

QUALITY	CONTROL, Acid I	extractable	metals in soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	LCS/4	194568-2
Date prepared				25/06/2018	1	25/06/2018	25/06/2018		25/05/2018	25/06/2018
Date analysed	4			25/08/2018	1	25/08/2018	25/06/2018		25/08/2018	25/06/2018
Arsenic	mg/kg	4	Metals-020	-<4	Y	<4	44	0	97	78
Cadmium	mg/kg	0.4	Metals-020	<0.4	3	<0.4	+0.4	.0	93	89
Chromium	mg/kg	1	Metals-020	≪1	4	4	4	0	94	89
Copper	mg/kg	4	Metals-020	⊸et	3	2	2	0	93	93
Lead	mg/kg	. 1	Metals-020	st	Y	10	8	22	92	81
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	99	97
Nickel	mg/kg	1	Metals-020	<1	2	3	2	40	91	68
Zinc	mg/kg	- 1	Metals-020	-46	7	11	10	10	97	83

QUALITY	CONTROL: Acid I	Extractable	metals in sail			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	194568-22
Date prepared	-				33	25/08/2018	25/06/2018		25/08/2018	25/06/2018
Date analysed					11	25/06/2018	25/06/2018		25/06/2018	25/06/2018
Arsenic	mg/kg	4	Metals-020		11	<4	<4	0	91	81
Cadmium	mg/kg	0.4	Metals-020		11	<0.4	<0.4	0	87	88
Chromium	mg/kg	- 1	Metals-020		11	7	8	13	89	98
Copper	mg/kg	1	Metals-020		11	3	4	29	89	94
Leed	mg/kg	1	Metals-020		11	11	12	9	86	88
Mercury	mg/kg	0.1	Metals-021		11	<0.1	<01	D	96	104
Nickel	mg/kg	1	Metals-020		51	3	3	0	86	89
Zinc	mg/kg	7	Metals-020		11	17	- 22	28	90	*

QUALITY	CONTROL Acid I	Extractable	metals in soil			Du	plicate	Spike Recovery %			
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	LCS-6	194568-42	
Date prepared	*				21	25/06/2018	25/06/2018		25/05/2018	25/05/2018	
Date analysed					21	25/08/2018	25/06/2018		25/08/2018	25/06/2018	
Arsenic	mg/kg	- 4	Metals-020		21	*4	44	0	97	83	
Cadmium	mg/kg	0.4	Metals-020		21	<0.4	+0.4	0	93	93	
Chromium	mg/kg	1	Metals-020		21	В	7	13	95	96	
Copper	mg/kg	1	Metals-020		21	8	6	29	94	99	
Lead	mg/kg	1	Metals-020		21	24	24	0	91	92	
Mercury	mg/kg	0.1	Metals-021		21	<0.1	<0.1	0	114	116	
Nickel	mg/kg	1	Metals-020	Inc.	21	4	4	0	92	93	
Zinc	mg/kg	-1	Metals-020		21	63	44	36	96	99	

Commission Reference 194568

Fige 82 of 88

QUALITY	CONTROL, Acid I	Extractable	metals in soil			Du	plicate		Spike Re	covery 9
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	INTL	[NT]
Date prepared	-				31	25/08/2018	25/06/2018			
Date analysed	+				31	25/08/2018	25/06/2018			
Arsenic	mg/kg	4	Metals-020		31	<4	44	0		
Cadmium	mg/kg	0.4	Metals-020		31	<0.4	<b>₹0.4</b>	.0		
Chromium	mg/kg	1	Metals-020		31	6	5	18		
Copper	mg/kg	4	Metals-020		31	7	-5	33		
Lead	mg/kg	. 1	Metals-020		31	13	14	7		
Mercury	mg/kg	0.1	Metals-021		31	<0.1	<0.1	0		
Nickel	mg/kg	1	Metals-020		31	3	3	0		
Zinc	mg/kg	4	Metals-020		31	37	45	20		

QUALITY	CONTROL Acid I	xtractable	metals in sail			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	[NT]	INT
Date prepared	-			100	41	25/08/2018	25/06/2018			-
Date analysed					41	25/06/2018	25/06/2018			
Arsanic	mg/kg	4	Metals-020		41	<4	4.	0		
Cadmium	mg/kg	0.4	Motals-020		41	s0.4	<0.4	0		
Chromium	mg/kg	- 1	Metals-020		41	27	29	7		
Copper	mg/kg	1	Metals-020		-41	6	7	15		
Lead	mg/kg	4	Metals-020		41	19	17	11		
Mercury	mg/kg	0.1	Metals-021	1	41	<0.1	<01	0		
Nickel	mg/kg	1	Metals-020		41	7	7	0		
Zinc	mg/kg	7	Metals-020		41	9	9	0		

QUALITY	CONTROL Acid I	Extractable	metals in soil			Du	plicate		Spike Re	COVERY %
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	INTI	INTI
Date prepared	*				51	25/06/2018	25/06/2018			
Date analysed					61	25/08/2018	25/06/2018			
Arsenic	mg/kg	- 4	Metals-020	12.1	51	*4	44	0		
Cadmium	mg/kg	0.4	Metals-020		51	<0.4	+0.4	0		
Chromium	mg/kg	1	Metals-020		51	12	12	0		
Copper	mg/kg	7	Metals-020		51	5	5	0		
Lead	mg/kg	4	Metals-020		51	15	13	14		
Mercury	mg/kg	0.1	Metals-021		51	<0.1	<0.1	0		
Nickel	mg/kg	1	Metals-020	10.0	51	4	5	22		
Zinc	mg/kg	1	Metals-020		51	17	17	0		

Envirolab Reference 194568 Revision No. R00 Page | 83 of 88

0	UALITY CONTROL	Misc Inon	ı - Soi			Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LCS/4	[NT]	
Date prepared				25/06/2018					26/08/2018		
Date analysed				26/08/2018	М				28/08/2018		
pH 1.5 soit.water	pH Units		inorg-001						99		

Crymoliab Reference 194568 Reymonists Roo Page | 84 of 88

	QUALITY CONT	ROL CE	G			Du	plicate		Spike Rec	overy %
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	LCS-4	INT
Date prepared	*			25/06/2018	53	26/06/2018	26/06/2018		26/08/2018	
Date analysed				26/08/2018	53	28/08/2018	26/06/2018		28/08/2018	
Exchangeable Ca	mile/100g	0.1	Metals-009	<0.1	53	3.4	3.4	0	105	
Exchangeable K	msg*100g	0.1	Metals-009	<0.1	53	0.3	0.3	0	117	
Exchangeable Mg	meq/100g	0.1	Metals-009	<0.1	53	0.82	0.83	1	106	
Exchangeable Na	mui/100g	0.1	Metals-009	<0.1	53	<0.1	<0.1	0	154	

Citymolot ((Innovers ≥ 194568 (Republic) ((Innovers ≥ 194568 Page | 85 of 88

ons
Not tested
Test not required
Insufficient sample for this test
Practical Quantitation Limit
Less than
Greater than
Relative Percent Difference
Laboratory Control Sample
Not specified
National Environmental Protection Measure
Not Reported
ol Definitions
This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E. Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011

are similar to the analyte of interest, however are not expected to be found in real samples.

with analytes representative of the analyte class. It is simply a check sample

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which



LCS (Laboratory

Control Sample)

Surrogate Spike

TANK BE OF BE

#### Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenois is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request



#### Report Comments

Acid Extractable metals in soil - # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s However an acceptable recovery was obtained for the LCS.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples were sub-sampled from jars provided by the client



104668

(100)

Page	12	1
100 De	(0)	4
	2242	20.75

Project Project DP Cor Prior St	Name: No: itact Pers orage:	son:	SI 6	7H 7 2.17 2 2 dgeD	TAM TO-C shelve	DF (circle	- DS   Order No:		```X	 	To:	12 / CH/ Ph:	Ashley ATSW (02) 9:	Street OOD N 910 62	NSW 206	7			
Sample	Date	Sam		Lab	Hq	CEC	Clay	Con	1	- A	nalytes			-			-	TCLP	Notes
ID	Sampled			ID	pr.,	020	Content	64	200		33	V90							
05-06	216	2		i				×				-							<u></u>
an	1			2	- 54			×								190			
PUTER				3							×						entro	Jo E	12 As Services
PA 3				4				1 ×						1.					swood NSW 2007 1: (02) 9910 6200
10-0-01				Τ.				×								0.	Job N	194	126
2440	5-0.b		T	5	1						×				1		Date F	eceived: 4	7.06.18 11:50
1112	JE.		-	6	1			×	-			7					Receiv	ed by: JZ	ont 1016 C
1.0-1.1				7		-		×									- Coolin	g: iceficep	Dax
64 P	$\vdash$	+	-			1	-	1	-			_					Social	ty furtaction	loke/None
20-21	-	-1-1	_	8	-	-	-	-			×	-+		_	-	-		Tre	1/0-0.1
3.0-2.0		$\perp$	_	-	_	1		×			_	_	_	_	-		_	1	10.5-0.6
10-0-0-1				NK				×										i. furey	10.3-0.6
PIT 3	4	4		9							×							- 5	
PQL (S)		mg/kg		- American	-														
PQL (W)		mg/L				10.00	/D-4	-243	04445	LES REC	DEIVER		-	-	Send res	outto to			
Date reline Total num	quished: ber of san	nples in o	onta	iner:			(Detection Lin Zn Hg Ni Mr 48hr 24hr		Please	e sign and tof samp	d date to	o ackn I return	by fax		Douglas Address PO BOX ACT 260 Fax: (02	Partne : ( 1487 09	ers Pty FYSH		

Page 21	of 6

# Douglas Partners Geolectrics - Environment - Groundwater

# CHAIN OF CUSTODY DESPATCH SHEET

		Sample	0			-			At Analyte					
mple	Date Sampled	Type S-soil W-water	Lab ID	pН	CEC	Clay Content	CAN	ا درل	Can				TCLP	Notes
9.0.	22/6	2	10				×					I		
101	21/1	1	b	(4.0			X							
(i)	reli		12						1				1	
40.1	25/6		-				×			N.	-			
1,5	1		13				×							
122.1	$\vdash$		14						×					
13.4			15				×			3 n = 1	1			
-9.6-			-16-				-×-							
	0~15 JE		17	-					×					
18.6	22/6		18		-	7000	×		+		_		_	
10-01	1	$\vdash$	19	-	-		×	$\vdash$	-	-	+		1	
10-01	216	1-1-	20	+-	-		-	-	X	-			-1	
16,	43		20	-		-	+	-		-	 +	-	-+	
L (S) L (W)		mg/kg mg/L	-	-				-		-	+		-	
OL = prac Metals ate relinatal num	to Analyse quished: ber of samp quired by:	tion limit */ (Please cir les in contr	cle): <	S Cd C	r Cu Pb	Detection Lir Zn Hg Ni)Mr 48hr 24h	rFe	Please sig receipt of	RECEIVE on and date samples an	to ack	Addre PO B	OX 1487 F	YSHWICK	

Page 3 57 6

Ø	Douglas Partners Gestechnics - Environment - Groundwater
---	--

# **CHAIN OF CUSTODY DESPATCH SHEET**

TCLP Notes

Page 4 of 6

# Douglas Partners Gestechnics - Environment - Groundwater

### CHAIN OF CUSTODY DESPATCH SHEET

0A1 115	1		Sample	1							nalytes							
Sample ID	Da Sa	te mpled	Type S-soil W-water	Lab ID	pН	CEC	Clay Content	6x	סכל		Circ 3	50	1	NICK	.9		TCLP	Notes
FE TI	2	216	2	40	12			×										
10-0-0	1	1		46	33 .			K										XX
12-37 12-37	$\vdash$			4/2	34	-		1		-	×			$\neg$				
1T 74	1	+	$\vdash$	43		-		-		-	$\hat{}$			$\forall$	_		+ -	Micro =
17 39 11 40	-	+	$\vdash$	-	35	-		×	-		-	-	_	+		-	+	2.00li,
1000	┡	-	$\vdash$	44	16			×		-		+		-			+	
1.0-5.6		9		- Inches	37			_		-	×	_			_		-	Samones
アラー	125	17		The state of the s	38								_ 3	×				fascal
441				47	19-			- -		_  -	·			X-				Conform
PUT 42	Т			48	40								1	0			0	
14 43	1	1	$\vdash$	17-	41												10	
14 R3	$\vdash$	+	1	-	92									x			1	
15-14 15-14	+	+	1		-	-	-	_	-		-	_	_	Ž T	-		1	-
9.5-9.8	1-0	-1.1		3/	43	-	-	-			-			4	_			
PQL (S) PQL (W)	-	_	mg/kg mg/L			-	-	-		-	-	-		+		-	1	-
PQL = pra # - Metals Date relin Total num	s to A nquist nber o equin	nalyse ned: of samp	tion limit (Please ci	rcle): ( tainer:	As Cd C	r Cu Pb	(Detection Line Zn Hg N) Mr	r Fe	Please receipt	sign and of samp ure:	date t les and	o acknov i return b		Į.	Send resu Douglas P Address: PO BOX 1 ACT 2609	artners P 487 FYS	HWICK	

Page 5576

# Douglas Partners Geolectries - Environment - Grovadwater

# CHAIN OF CUSTODY DESPATCH SHEET

		Sample		1					Analy		onno France III				I
Sample ID	Date Sampled	Type S-soil W-water	Lab ID	рН	CEC	Clay Content	Con	00	3	ubo	Mi	o		TCLP	Notes
15-55	26/4	2	52	44			and the second second second	29			×				Miccio =
7-16	1	1	53	45							×				E. W.
1-10-1-1	100		544	6							X				Salmoness fracol Chyorns
1 47 2-06			58 L	12							*				freed.
J. 1-2.			56 4								×				Chlorus
1548	T			49							×				
15 A4	2/6		58	50			×								
1-50 T	24,6		89	51			-X								
15 T	25/6		60	7			×								
10-01	1		61	\$3			1×								
त ३०	6	Į.	62	54			×			-					
PQL (S)		'mg/kg													
f - Metals Date relin Total num	to Analyse quished: ber of samp equired by:	(Please circ	cle): [ siner:	As Cd C	r Cu Pb	(Detection Line Zn Hg Ni) Mr	rFe	Please s receipt o	S RECEIVING AND	te to ackr and return		Dougla Addres PO BO	X 1487 FY	SHWICK	

M:/Environmental/QA-QC/AmendedC-O-C.doc

Rev5/June 2008

laye 6 of 6

# Douglas Partners Gentestaits - Environment - Groundwater

M:/Environmental/QA-QC/AmendedC-O-C.doc

# CHAIN OF CUSTODY DESPATCH SHEET

Sample	CICANO IN	Sample	1						- 1	Analytes	3							en. (9 en e e
ID Sample	Date Sampled	Type S-soil W-water	Lab ID	pН	CEC	Clay Content	COM	50		Cim	60		UTIC BTB	71			TCLP	Notes
BZ			168	53									×					
TSZ.			64	51									X					
P2/0.0	-0.1		68	57														
m1/0-	0.1		100000	58														
P18/1.0			67	ST														
							1											
			-	-	-		-					-						
			-	-	-		-									-		
			-	+	-		- 24				====							-
		-		-	_													
					1		1				- 77							
		mg/kg																
PQL (W)							100		CO D.	000.00				0 1	and the A			
Total num	ber of samp quired by:	mg/L tion limit * (Please cir	ainer:			(Detection Li Zn Hg NDMr		receipt	sign ar of sam	nd date ples an	to ack d retur	nowledge n by fax		Addres PO BO	X 1487	ers Pty		

Rev5/June 2008



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

# SAMPLE RECEIPT ADVICE

Client Details	
Client	Douglas Partners Canberra
Attention	Peter Storey

Sample Login Details		
Your reference	46162.12, North Tralee DSI	
Envirolab Reference	194926	
Date Sample Received	27/06/2018	
Date Instructions Received	27/06/2018	
Date Results Expected to be Reported	04/07/2018	

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	59 soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10.6
Cooling Method	ice Pack
Sampling Date Provided	YES

Comments	
Nil	

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Thatigo charaftermissi	SATTH (CAD-CAD) In Soll	PANS IN SOIL	Digardominist treatment and	Managed stocked another	PCESTI SOIL	Acid Extractable matakin soir	ditte - fil solditte	March Setting (i) see	On Hold
PIT1-0.5-0.6	1	4	1	1	1	1	1	1		
PIT2 -1.0-1.1	1	1	~	~	1	1	1	1		
PIT2 -2.0-2.1	1	1	1				1			
PIT3 -0,5-0,6	1	1	1	1	1	1	1	1		
PIT4 -0.5-0.6	1	1	1				1			
PIT5 -1.0-1.1	1	1	1	1	1	1	1	1		
PIT6 -0.0-0,1	1	1	1	1	1	1	1	1		
PIT6 -2.0-2.1	1	1	1				1			
PIT8 -1.0-1.1	1	1	1				1			
PIT9 -0.5-0.6	1	4	1	1	1	1	1	1		
PIT10 -0.0-0.1	1	1	1	1	1	1	1	4		
PIT10 -1.0-1.1	1	1	1				1			
PIT12 -0.0-0.6	1	1	1	1	1	1	1	1		
PIT12 -2.0-2.1	V	4	1				~			
PIT13 -0.5-0.6	1	1	1	1	1	1	1	1		
PIT14 -0.5-0.6	V	1	1	1	1	1	1	1		
PIT14 -1.0-1.1	1	1	1				1			
PIT15 -0.5-0.6	1	1	1	1	1	1	1	1		
PIT16 -0.0-0.1	V	1	1	1	1	1	1	1		
PIT16 -1.0-1.1	1	1	1				1			
PIT17 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT18 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT18 -0.5-0.6	1	1	1				1			
PIT20 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT20 -1.0-1.1	1	1	1				1			
PIT21 -1.5-1.6	1	1	1				1			
PIT34 -0.0-0.1	1	1	4	4	1	1	1	1		
PIT34 -1.0-1.1	~	1	1				1			
PIT35 -0.0-0.1	1	1	~	4	1	1	1	1		
PIT36 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT36 -0.5-0.6	1	1	1				1			
PIT37 -0.0-0.1	1	1	1	1	1	1	1	1		

20/1



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
pti 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	r mainta constraints	SVITH (CAD-CAD) IN BOIL	PANS IN SOIL	Digarochioma treatment soil	Manage and attractional married	PCERTI SEL	Acid Extractable matalsin soil	Astayetor (D. solfs	Water Second 11 test	On Hold
PIT38 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT38 -0.5-0.6	1	1	~				1			
PIT39 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT40 -0.0-0.1	1	1	1	1	1	1	1	1		П
PIT40 -0.5-0.6	1	1	1				1			
PIT41 -1.0-1.1									1	П
PIT41 -2.0-2.1			П						4	П
PIT42 -0.5-0.6									1	
PIT43 -0.5-0.6									1	
PIT43 -1.5-1.6									1	
PIT44 -1.0-1.1									1	
PIT45 -0.5-0.6									1	
PIT45 -1.5-1.6									1	
PIT46 -1.0-1.1									4	Е
PIT47 -0.5-0.6									1	
PIT47 -1.5-1.6									1	
PIT48 -1.0-1.1									1	
PIT49 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT50 -0.0-0.1	V	1	1	1	1	1	1	1		
PIT78 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT79 -0.0-0.1	1	1	1	1	1	1	1	1		
PIT80 -0.0-0.1	1	1	1	1	1	1	1	1		
TB2	1					2	P			
TS2	1									
TP2-0.0-0.1										1
TP1-0.0-0.1									5	1
TP18-1.0-1.1										1

The 'v' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

### Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt. Requests for longer term sample storage must be received in writing.

3 of 3



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

#### **CERTIFICATE OF ANALYSIS 194926**

-01	in the same of	t De		-
	ue m	1110	ган	16

Client Douglas Partners Canberra

Attention Peter Storey

Address PO Box 1487, Fyshwick, ACT, 2609

Sample Details

Your Reference 46162.12, North Tralee DSI

Number of Samples 59 soil
Date samples received 27/06/2018
Date completed instructions received 27/06/2018

#### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

#### Report Details

 Date results requested by
 04/07/2018

 Date of Issue
 04/07/2018

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing, Tests not covered by NATA are denoted with \*

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Lucy Zhu Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Jeremy Faircloth, Organics Supervisor

Leon Ow, Chemist

Lucy Zhu, Asbsestos Analyst

Nancy Zhang, Assistant Lab Manager

Steven Luong, Senior Chemist.

Authorised By

Jacinta Hurst, Laboratory Manager





T N 1 1 07 66

Our Reference		194926-1	194926-2	194926-3	194926-4	194926-5
Your Reference	UNITS	PITT	PIT2	PIT2	PITS	PIT4
Depth		05-06	1.0-1.1	2.0-2.1	0.5-0.6	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/08/2018	21/06/2018	21/06/2018
Type of sample		sol	sail	Soil	50/	500
Date extracted	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	12	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C <sub>6</sub> - C <sub>6</sub>	mg/kg	<25	<25	<25	<25	<25
RH Ci + Cii	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>6</sub> • C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Coluena	mg/kg	<0.5	<0.5	<0.5	< 0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
aphthalene	mg/kg	<1	׍	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	*1	<1
Surrogate asa-Trifluorotoluene	%	90	91	91	92	85

Our Reference		194926-6	194926-7	194926-8	194926-9	194926-10
Your Reference	LINITS	PITS	PIT6	PIT6	P(TB	PITS
Depth		9,0-1.9	0.0-0.1	2.0-2.1	1.0-1.1	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/06/2016	22/06/2018
Type of sample		sol	sall	soil	noil	soll
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	- 4	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH Cs - Cs	mg/kg	<25	<25	<25	<25	<25
TRH Co - Cus	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>ft</sub> - C <sub>f0</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	×1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate asa-Trifluorotoluene	%	100	95	95	94	91

Engralub //toenarus 194925

Dige | 2 of 66

Our Reference		194926-11	194926-12	194926-13	194926-14	194926-15
Your Reference	UNITS	PIT10.	PIT10	PIT12	PIT12	PIT13
Depth		0.0-0:1	1.0-1.1	0.0-0.6	2.0-2.1	0,5-0.6
Date Sampled		22/06/2018	22/06/2018	25/08/2018	25/06/2018	25/06/2018
Type of sample		sol	sail	SOIL	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C <sub>6</sub> - C <sub>1</sub>	mg/kg	<25	<25	<25	<25	<25
TRH Co + CH	mg/kg	<25	<25	<25	<25	<25
/TPH C <sub>6</sub> • C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<†	<1	<1
n+p-xylene	mg/kg	<2	-2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	׍	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	*1	<1
Surrogate asa-Trifluorotoluene	%.	88	92	88	98	92

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194926-16	194926-17	194926-18	194926-19	194926-20
Your Reference	LINITS	PIT14	PIT14	PITIS	PITIG	PIT16
Depth		0.5-0.6	1.0-1.1	0.5-0.6	0.0-0.1	1,041,1
Date Sampled		25/06/2018	25/06/2018	22/06/2018	21/06/2016	21/06/2018
Type of sample		sol	soll	soll	BOIL	soll
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	- 4	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH Cs - Cs	mg/kg	<25	<25	<25	<25	<25
TRH Co - Cus	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>II</sub> - C <sub>ID</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2∶	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	×1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	93	100	99	100	92

Engrand // returns 194925

1) (BE | 3 of 66

VTRH(C6-C10)/BTEXN In Soil Our Reference		194926-21	194926-22	194926-23	194926-24	194926-25
Your Reference	UNITS	PIT17	PIT16	PIT18	PFT20	PIT20
Depth		0.040.1	0.0-0.1	0.5-0.6	0.0-0.1	1.5-1.1
Date Sampled		21/06/2018	21/06/2018	21/06/2018	20/06/2015	21/06/2018
Type of sample		sol	sail	Soil	50/	900
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	8	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C <sub>6</sub> - C <sub>1</sub>	mg/kg	<25	<25	<25	<25	<25
TRH Ci + Cii	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mgikg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	< 0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<†	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	×1	<1	<1	<1
otal +ve Xylenes	mg/kg	<1	<1	<1	*1	<1
Surrogate asa-Trifluorotoluene	- %-	97	97	95	98	86

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194926-26	194926-27	194926-28	194926-29	194926-30
Your Reference	LINITS	PIT21	PIT34	PIT34	PIT35	PIT36
Depth		1,5-1,6	0,0-0.1	1.0-1.1	0.0-0 1	0,0-0.1
Date Sampled		21/06/2018	22/06/2018	22/06/2018	22/06/2016	22/06/2018
Type of sample		soil	soll	soil	hos	soll
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	- 4	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C <sub>6</sub> - C <sub>6</sub>	mg/kg	<25	<25	<25	<25	<25
TRH Co - Che	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>II</sub> - C <sub>ID</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Coluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	-61
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	×1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	94	93	92	92

Engralia //occurs 194925

Dage | 4 of 66

Our Reference		194926-31	194926-32	194926-33	194926-34	194926-35
Your Reference	UNITS	PIT36	PIT37	PIT36	PIT38	PIT39
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.5-0.6	0.0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2018	22/06/2018
Type of sample		sol	soil	SOIL	500	508
Date extracted		28/06/2018	28/06/2018	28/06/2018	27/06/2018	27/06/2018
Date analysed	12	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C6 - C1	mg/kg	<25	<25	<25	<25	<25
TRH Co + CH	mg/kg	<25	<25	<25	<25	<25
VTPH C6 - C10 less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	׍	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	×1	<1
Surrogate asa-Trifluorotoluene	-%:	92	94	98	96	97

VTRH(C6-C10)/BTEXN in Soil						
Our Reference		194926-36	194926-37	194926-50	194926-51	194926-52
Your Reference	LINITS	PIT40	PIT40	PIT49	P/750	PIT76
Depth		0.0-0.5	0.5-0.6	0.0-0.1	0.0-0.1	0,0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2016	25/06/2018
Type of sample		soil	soil	soff	noil	soll
Date extracted	-	27/06/2018	27/06/2018	27/06/2018	27/06/2018	27/06/2018
Date analysed	- 4	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH Cs - Cs	mg/kg	<25	<25	<25	<25	<25
RH Cs - Cw	mg/kg	<25	<25	<25	<25	<25
TPH C <sub>ft</sub> - C <sub>f0</sub> less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
n+p-xylene	mg/kg	<2	<2	<2	<2	<2
-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	×1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<t< td=""><td>&lt;1</td><td>&lt;1</td><td>&lt;1</td></t<>	<1	<1	<1
Surrogate asa-Trifluorotoluene	%	96	94	97	94	93

Engrand / (Increme 194925

1 (ge ) 5 of 66

Our Reference		194926-53	194926-54	194926-55	194926-56
Your Reference	UNITS	P(T79	PIT80	TB2	T82
Depth		0.0-0.1	0.0-0.1	1	
Date Sampled		25/06/2018	25/06/2018	25/06/2018	25/06/2016
Type of sample		800	sail	Soil	soil
Date extracted		27/06/2018	27/06/2018	28/06/2018	28/06/2018
Date analysed	8	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C6 - C1	mg/kg	<25	<25	<25	
RH Ci - Ci	mg/kg	<25	<25	<25	
TPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1)	mg/kg	<25	<25	<25	
Benzene	mg/kg	<0.2	<0.2	<0.2	96%
Coluene	mg/kg	<0.5	<0.5	<0.5	95%
Ethylbenzene	mg/kg	<1	<1	<t< td=""><td>98%</td></t<>	98%
n+p-xylene	mg/kg	<2	<2	<2	99%
o-Xylene	mg/kg	<1	<1	<1	99%
naphthalene	mg/kg	<1	ĸŤ	<1	
Total +ve Xylenes	mgikg	<1	<1	<1	
Surrogate asa-Trifluorotoluene	Mt.	90	87	87	94

Carpordad / (Amazon = 194926 1990a | 1990a | 1900 DAME | 6 of 66

28/06/2018 29/06/2018 <50 <100 <100 <50 <100 <100 <50 <100 <10	\$0ii 28/06/2018 29/06/2018 <50 <100 <100 <50 <100 <100 <100 <100 <	29/06/2018 28/06/2018 29/06/2018 <50 <100 <50 <100 <100 <50 <100 <122	21/06/2018 92/06/2018 29/06/2018 <50 <100 <50 <100 <100 <50 <100 <100 <101 <100	21/06/2018 308 28/06/2018 29/06/2018 <50 <100 <50 <100 <100 <50 121
\$600 28/06/2018 29/06/2018 <50 <100 <100 <50 <100 <100 <50 <100	\$0II 28/06/2018 29/06/2018 <50 <100 <100 <50 <100 <100 <50 <100 <10	\$601 28/06/2018 29/06/2018 <50 <100 <50 <50 <100 <50	28/06/2018 29/06/2018 <50 <100 <100 <50 <50 <100 <50	28/06/2018 29/06/2018 <50 <100 <100 <50 <100 <50 <100 <50
\$600 28/06/2018 29/06/2018 <50 <100 <50 <50 <100 <100	\$0II 28/06/2018 29/06/2018 <50 <100 <50 <50 <100 <100 <50 <100 <10	\$68 28/06/2018 29/06/2018 <50 <100 <50 <50 <100 <100	28/06/2018 29/06/2018 <50 <100 <100 <50 <50 <100 <100	28/06/2018 29/06/2018 <50 <100 <100 <50 <100 <100 <100
28/06/2018 29/06/2018 <50 <100 <100 <50 <50 <100	\$0II 28/06/2018 29/06/2018 <50 <100 <100 <50 <50 <100	30lt 28/06/2018 29/06/2018 <50 <100 <100 <50 <100	28/06/2018 29/06/2018 <50 <100 <100 <50 <50 <100	28/06/2018 29/06/2018 <50 <100 <100 <50 <50 <100
28/06/2018 29/06/2018 <50 <100 <100 <50 <50	\$0II 28/06/2018 29/06/2018 <50 <100 <100 <50 <50	28/06/2018 29/06/2018 <50 <100 <100 <50 <50	28/06/2018 29/06/2018 <50 <100 <100 <50 <50	28/06/2018 29/06/2018 <50 <100 <100 <50 <50
28/06/2018 29/06/2018 <50 <100 <100 <50	\$0II 28/06/2018 29/06/2018 <50 <100 <100 <50	\$68 28/06/2018 29/06/2018 <50 <100 <100 <50	28/06/2018 29/06/2018 <50 <100 <100 <50	28/06/2018 29/06/2018 <50 <100 <100
28/06/2018 29/06/2018 29/06/2018 <50 <100	\$0II 28/06/2018 29/06/2018 <50 <100	28/06/2018 29/06/2018 <50 <100	28/06/2018 29/06/2018 <50 <100 <100	28/06/2018 29/06/2018 <50 <100
28/06/2018 29/06/2018 <50 <100	\$0II 28/06/2018 29/06/2018 <50 <100	28/06/2018 29/06/2018 <50 <100	28/06/2018 29/06/2018 <50 <100	28/06/2018 29/06/2018 <50 <100
28/06/2018 29/06/2018 <50	\$0ii 28/06/2018 29/06/2018 <50	50ft 28/06/2018 29/06/2018 <50	28/06/2018 29/06/2018 <50	28/06/2018 29/06/2018 <50
28/06/2018 29/06/2018	\$0II 28/06/2018 29/06/2018	30/l 28/06/2018 29/06/2018	28/06/2018 29/06/2018	28/06/2018 29/06/2018
500 28/06/2018	\$0II 28/06/2018	soit 28/06/2018	28/06/2018	50li 28/06/2018
BOIL	soil	soil	559	50
20000		Contract of	- DAMES IN	
20000000	F 7.00/F/F 14	21/06/2018	21/06/2018	21/06/2018
21/08/2018	21/06/2018			
0,5-0,6	1.0-1.1	2021	0.5-0.6	0.5-0.6
PITT	PIT2	PIT2	PIT3	PIT4
194926-1	194926-2	194926-3	194926-4	194926-5
	PITS	PIT1 PIT2	PIT1 PIT2 PIT2	PIT1 PIT2 PIT3

svTRH (C10-C40) in Soil						
Our Reference		194926-6	194926-7	194925-8	194926-9	194926-10
Your Reference	UNITS	PIT5	PITE	PIT6	PITA	PIT9
Depth		1.0-1.1	0.0-0.1	2.0-2.1	1 0-1.1	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/05/2018	22/06/2018
Type of sample		sad.	soil	soil	50	808
Date extracted	12	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	÷	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH CHI - C14	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>20</sub>	mg/kg	<100	<100	<100	<100	<100
TRH C <sub>20</sub> - C <sub>50</sub>	mg/kg	<100	<100	<100	<100	<100
TRH >C 10+C10	mg/kg	<50	<50	<50	<50	<50
TRH >C <sub>10</sub> = C <sub>16</sub> less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C16 -C34	mg/kg	<100	<100	<100	<100	<100
TRH >C:4-C=	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	120	121	123	123	121

Crystalia ((1000) = 194925 R00 Date 17 of 66

Our Reference		194926-11	194926-12	194926-13	194926-14	194926-15
Your Reference	UNITS	PIT10.	PIT10	PIT12	PIT12	PIT13
Depth		0.0-0:1	1.0-1.1	0.0-0.6	2.0-2.1	0,5-0.6
Date Sampled		22/06/2018	22/06/2018	25/06/2018	25/06/2018	25/06/2018
Type of sample		sor	sail	Soil	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH Cit - Cia	mg/kg	<50	<50	<50	<50	<50
TRH Cty - Cas	mg/kg	<100	<100	<100	<100	<100
TRH Cas - Cas	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C+-C3+	mg/kg	<100	<100	<100	<100	<100
TRH >Csi =Cso	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	%	123	103	102	99	100

svTRH (C10-C40) in Soil						
Our Reference		194926-16	194926-17	194926-18	194926-19	194926-20
Your Reference	UNITS	PITTI	PITT4	PITIS	PIT16	PITIE
Depth		0.5-0.6	1.0-1.1	0.5-0.6	0.0-0,1	1.0-1.1
Date Sampled		25/05/2018	25/06/2018	22/06/2018	21/06/2018	21/06/2018
Type of sample		908	soil	soil	soil	308
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	-	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH Cau - Cau	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>26</sub>	mg/kg	<100	<100	<100	<100	<100
TRH Cay - Cai	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C16-C34	mg/kg	<100	<100	<100	<100	<100
TRH >Cu-Call	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	**	99	99	118	117	117

Carponius J(harron = 194925 R00 Tyler 8 of 66

Our Reference		194926-21	194926-22	194926-23	194926-24	194926-25
Your Reference	UNITS	PIT17	PI718	PIT18	PFT20	PIT20
Depth		0.0-0 1	0.0-0.1	0.5-0.6	0.0-0.1	1.0-1.1
Date Sampled		21/06/2018	21/06/2018	21/08/2018	20/06/2018	21/05/2018
Type of sample		100	sail	SOIL	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	-	29/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
TRH Girl - Gia	mg/kg	<50	<50	<50	<50	<50
TRH Cty - Cas	mg/kg	<100	<100	<100	<100	<100
TRH Cit - Citi	mg/kg	<100	<100	<100	<100	<100
TRH >C to -C to	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C 15C34	mg/kg	<100	<100	<100	<100	<100
TRH >Csi -Cso	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	121	98	97	99	97

Our Reference		194926-26	194926-27	194920-28	194926-29	194926 30
Your Reference	UNITS	PIT21	PIT34	PIT34	PIT35	PIT36
Depth		1.5-1.6	0.0-0.1	1.0-1.1	0.0-0,1	0.0-0.1
Date Sampled		21/05/2018	22/06/2018	22/06/2018	22/06/2018	22/06/2018
Type of sample		908	soil	soil	500	508
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	-	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>10</sub> - C <sub>26</sub>	mg/kg	<100	<100	<100	<100	<100
TRH Cov Cov.	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C16-C34	mg/kg	<100	<100	<100	<100	<100
TRH >Cu-Call	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	**	96	100	97	100	100

Cayondari (Canavar - 194925 R00 1) (ge ) 9 of 66

svTRH (C10-C40) in Soil						
Our Reference		194926-31	194926-32	194926-33	194926-34	194926-35
Your Reference	UNITS	PIT36	PIT37	PIT36	PIT38	PIT39
Depth		0.5-0.6	0.0-0.1	0,0-0.1	0.5-0.6	0.0-0.1
Date Sampleri		22/06/2018	22/06/2018	22/06/2018	22/06/2018	22/06/2018
Type of sample		500	sail	Soil	500	50
Date extracted	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH Cit - Cia	mg/kg	<50	<50	<50	<50	<50
TRH Cty - Cas	mg/kg	<100	<100	<100	<100	<100
TRH Ch - Cis	mg/kg	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	<50	<50	<50	<50	<50
TRH >C+c - C+c less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C++-C3+	mg/kg	<100	<100	<100	<100	<100
TRH >Cst =Cse	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	%	100	99	102	98	99

svTRH (C10-C40) in Soil						
Our Reference		194926-06	194926-37	194926-50	194926-51	194926-52
Your Reference	UNITS	PIT40	PIT40	PIT49	PIT50	PIT78
Depth		0.0-0.1	0.5-0.6	0.0-0.1	0.0-0,1	0.0-0.1
Date Sampled		22/05/2018	22/06/2018	22/06/2018	22/06/2018	25/06/2018
Type of sample		908	soil	soil	500	301
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	-	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C <sub>18</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100	<100	<100
TRH Cov Cov.	mg/kg	<100	<100	<100	<100	<100
TRH >C <sub>10</sub> -C <sub>16</sub>	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C16-C84	mg/kg	<100	<100	<100	<100	<100
TRH >C µ-Call	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surragate o-Terphenyl	*6	100	98	99	99	99

Cryondati Kinawa 194925 Roo Dage | 10 of 66

Our Reference		194926-53	194926-54
Your Reference	UNITS	PIT79.	PIT80
Depth		0.0-0.1	0.0-0.1
Date Sampleti		25/06/2018	25/05/2018
Type of sample		800	SOI
Date extracted		28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018
TRH Gir - Cia	mg/kg	<50	<50
TRH C+r + Cas	mg/kg	<100	<100
TRH Car - Cas	mg/kg	<100	<100
TRH >C10-C16	mg/kg	<50	<50
TRH >C₁₀ - C₁ℴ less Naphthalene (F2)	mg/kg	<50	<50
TRH >C+-C34	mg/kg	<100	<100
TRH >Cst +Cso	mg/kg	<100	<100
Total +ve TRH (>C10-G40)	mg/kg	<50	<50
Surragate o-Terphenyl	*	102	119

Cayo alab (Kinaraya = 194925 | 1600 1 tt of 66

PAHs in Soil						
Our Reference		194926-1	194926-2	194926-3	194926-4	194926-5
Your Reference	UNITE	PITI	PIT2	PIT2	PIT3	PITA
Depth		0,5-0,6	1.0-1.1	2021	0.5-0,6	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/06/2018	21/06/2018
Type of sample		BOIL	soil	soil	589	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	9	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	≪0.1
Acenaphthylene	mg/kg	<0.1	≤0,1	<0.1	≥0.1	≤0,1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0,1	40.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	≥0.1	×0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysène	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	≪0.05	<0.05	< 0.05	<0.05	<0.05
Indeno(1,2,3-c.d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0,1	<0.1	<0.1
Benzo(g.h.i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0,5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	83	83	80	81	81

(1991) | 194925 | 1900 1) (a)2 | 12 of 66

PAHs in Soil						
Our Reference		194926-€	194926-7	194926-8	194926-9	194926-10
Your Reference	UNITS	PITS	PITE.	PIT6	PITE	PITS
Depth		1,0-1.1	0.0-0.1	2.0-2-1	1:0-1.1	8,5-0.6
Date Sampled		21/06/2018	21/06/2018	71/08/2018	21/06/2015	22/06/2018
Type of sample		800	sail	SOIL	500	900
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	rog/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	40,1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	⊲0.5	<0.5
Surragate p-Terphenyl-d14	%	79	81	79	80	81

(1901) | 194926 | 1900 The 13 of 66

PAHs in Soil					_	
Our Reference		194926-11	194926-12	194926-13	194926-14	194926-15
Your Reference	UNITS	PIT10	PI710	PIT12	PIT12	PITTS
Depth		0.0-0-1	1.0-1.1	0.0-0.6	2.0-2.1	9,5-0 6
Date Sampler		22/06/2018	22/06/2018	25/08/2018	25/08/2018	25/06/2018
Type of sample		80/	sail	SOII	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)flucranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	%	80	80	82	80	80

Ligo and Konson = 194926 (400 14 of 66

PAHs in Soil			-			-
Our Reference		194926-16	194926-17	194926-18	194926-19	194926-20
Your Reference	UNITS	PIT14	PIT14	PIT15	PITTE	PITTO
Depth		0.5-0.6	1.0-1.1	0.5-0.6	0.0-0.1	1.0-1.1
Date Sampler		25/06/2018	25/06/2018	22/06/2018	21/06/2018	21/05/2018
Type of sample		80/	sail	SOIL	50	500
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	⊲0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	< 0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	80	80	80	82	79

(1991) | 194926 | R00 1) 182 | 15 of 66

PAHs in Soil						
Our Reference		194926-21	194926-22	194926-23	194926-24	194926-25
Your Reference	UNITS	PIT17	PI716	PIT18	PFT20	PIT20
Depth		0.0-0 1	0.0-0.1	0.5-0.6	0.0-0.1	1.041.1
Date Sampled		21/06/2018	21/06/2018	7/1/08/2018	20/06/2015	21/05/2016
Type of sample		800	sail	SOIL	500	500
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	≼0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	rog/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0,5	<0.5
Surragate p-Terphenyl-d14	%	81	83	82	81	82

Cityo (ant) (((antiyor = 194926 ((00 16 of 66

PAHs in Soil						-
Our Reference		194926-26	194926-27	194926-28	194926-29	194926-30
Your Reference	UNITS	PIT21	PIT34	PIT34	PIT35	PIT36
Depth		1.5-1.6	0.0-0.1	16-11	0.0-0.1	9.0-0.1
Dirta Simpleri		21/06/2018	22/06/2018	22/08/2018	22/06/2016	22/06/2018
Type of sample		sol	soil	501	50	500
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	9	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	×0.1	<0,1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0/1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	40,1	<0.1	<0.1	⊲0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h.i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	81	82	82	82	81

(1991) | 194926 | 1900 17 of 66

PAHs in Soil						-
Our Reference		194926-31	194926-32	194926-33	194926-34	194926-35
Your Reference	UNITS	PIT36	PIT37	PIT36	PIT38	PIT39
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0506	0.0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/08/2018	22/06/2018
Type of sample		sol	sail	501	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mp/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surragate p-Terphenyl-d14	%	81	81	80	83	.91

Cityo (and ) ((massar = 194926 (100 1) (as | 18 of 66

PAHs in Soil						
Our Reference		194926-36	194926-37	194926-50	194926-51	194926-52
Your Reference	UNITS	P1740	PIT40	PIT49	PIT50	PIT78
Depth		0.0-0.1	0.5-0.6	0.0-0.1	0.0-0.1	0.000.1
Date Sampler		22/06/2018	22/06/2018	22/06/2018	22/08/2018	25/06/2018
Type of sample		80/	sail	501	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	3	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	rog/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	+0,1	<0.1	<0.1	∹0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	< 0.05	<0.05	<0,05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	88	85	89	86	89

(1991) | 194926 | 1900 19 of 66

Our Reference		194926-53	194926-54
Your Reference	UNITS	PIT79	PIT80
Depth		0.0-0.1	0.0-0.1
Date Sampler		25/06/2018	25/05/2018
Type of sample		10/	SOF
Date extracted		28/06/2018	28/06/2018
Date analysed	8	29/06/2018	29/06/2018
Naphthalene	mg/kg	<0.1	<0.1
Acenaphihylene	mg/kg	<0.1	<01
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0 1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	≤0,05	< 0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,ii)anthracene	mg/kg	<0.1	<0.1
Benzo(g.h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surragate p-Terphenyl-d14	16	88	89

Ligo (000 ) (1000 ) 194926 (200 20 of 66

Organochlorine Pesticides in soil Our Reference		194926-1	194926-2	194926-4	194926-6	194926-7
Your Reference	UNITS	PITT	PIT2	PIT3	PIT5	PITE
	nivi to	0.5-0.6	1.0-1.1	0.5-0.6	1.0-1.1	0.0-0.1
Depth						
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/06/2018	21/06/2018
Type of sample		SOIL	soil	SOIL	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	≪0.1
slpha-BHC	mg/kg	<0.1	<0.1	<0.1	≪0.1	<0,1
gamma-BHC	mg/kg	<0.1	-<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	≪0.1	<0.1	<0.1	<0.1
Heptachion	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	×0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
slpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosultan II	mg/kg	<0.1	<0,1	<0.1	≪0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	120	121	121	121	123

1 18 21 of 66

Our Reference		194926-10	194926-11	194926-13	194926-15	194926-16
Your Reference	UNITS	PIT9	PIT10	PIT12	PIT13	PIT14
Depth		0.5-0.6	0.0-0.1	0.0-0 6	05-06	0,5-0.6
Date Sampled		22/06/2018	22/06/2018	25/08/2018	25/06/2018	25/06/2018
Type of sample		sol	sail	SOIL	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	8	28/06/2018	28/06/2018	28/06/2018	26/06/2018	28/06/2018
HCB.	mgring	<0.1	<0.1	<0.1	<0.1	<0.1
slpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
oeta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	⊲0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	121	120	121	121	119

Carporalist I (\*\*\*\*\*\*\*\*\*\* 194925 | R00

1) (BE | 22 of 66

Our Reference		194926-18	194926-19	194926-21	194926-22	194926-24
Your Reference	UNITS	PIT15	PIT16	PIT17	PITIO	PIT20
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		22/06/2018	21/06/2018	21/06/2018	21/06/2018	20/06/2018
Type of sample		sol	sail	501	500	900
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	8	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
HCB.	mgrkg	<0.1	<0.1	<0.1	<0.1	<0.1
sipha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
oeta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p-DDE	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	120	118	116	120	119

1 (me | 23 of 66

Our Reference		194926-27	194926-29	194926-30	194926-32	194926-33
Your Reference	UNITS	PIT34	PIT35	PIT36	PIT37	PIT38
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2016	22/06/2018
Type of sample		sol	±ail	501	500	900
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	8	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
HCB.	mgrkig	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
beta-BHC	mg/kg	<0.1	-<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	⊲0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0,1	<0.1	<0.1	<0,1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	116	116	120	121	121

Carpo alant I (\*\*\*\*\*\*\*\*\*\*\* 194925 | 194925 | 194925

1 186 24 of 66

Our Reference		194926-35	194926-36	194926-50	194926-51	194926-52
Your Reference	UNITS	PIT39	PIT40	PIT49	PIT50	PIT78
Depth		0.0-0 1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2016	25/06/2018
Type of sample		sol	sail	501	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	8	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
HCB	mgring	<0.1	<0.1	<0.1	<0.1	<0.1
slpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
oeta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
reptachior Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chiordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diefdrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
op-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan (I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<01	<0.1	<0.1	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	*	117	115	118	110	111

Crystalia ((1000) = 194925 (1000) | R00 Dage | 25 of 66

Our Reference		194926-53	194926-54
Your Reference	UNITS	PIT79	PIT80
Depth		0.0-0.1	0.0-0.1
Date Sampled		25/06/2018	25/05/2018
Type of sample		sol	500
Date extracted		28/06/2018	28/06/2018
Date analysed	8	28/06/2018	28/06/2018
нсв	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
della-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0 ₹	<0.1
Heptachior Epoxide	mg/kg	<0.1	<0.1
gamma-Chiordane	mg/kg	<0.1	<0.1
alpha-chiordane	mg/kg	<0.1	<0.1
Endosulfan i	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychior	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	*	113	111

(1991) | 194926 | 1900 26 of 66

Our Reference		194926-1	194926-2	194826-4	194926-6	194926-7
Your Reference	UNITS	PITS	PIT2	PIT3	PIT5	PIT6
Depth		0,5-0,6	1.0-11	0.5-0.6	1.0-1.4	0,0-0.1
Date Sampled		21/06/2018	21/06/2018	21/05/2018	21/06/2018	21/06/2018
Type of sample		BOIL	soil	508	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	≪0.1
Bromophos-ethyl	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	< 0.1	-<0.1.	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	40.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Surrogate TCMX	*	120	121	121	121	123

Organophosphorus Pesticides				_		
Our Reference		194926-10	194926-11	194926-13	194926-15	194926-1€
Your Reference	LINITS	PITS	PITTO	PIT12	PIT13	PIT14
Depth		0.5-0.6	0,0-0.1	0006	0,5-0,6	0,506
Date Sampled		22/08/2018	22/06/2018	25/06/2018	25/05/2018	25/06/2018
Type of sample		soli	salt	soil	soll	508
Date extracted	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<01	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0:1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	76	121	120	121	121	119

Envirolab Reference 194926 R00 Page | 27 of 66

Organophosphorus Pesticides						
Our Reference		194926-18	194926-19	194926-21	194926-22	194926-24
Your Reference	UNITS	PIT15	PIT16	PIT17	PITIE	PIT20
Depth		0.5-0.6	0.0-0,1	0,0-0.1	0.0-0.1	0.0-0.1
Date Sampled		22/06/2018	21/06/2018	21/06/2018	21/06/2018	20/06/2018
Type of sample		800	sail	501	50/	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	2	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chiorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	120	118	116	120	119
Organophosphorus Pesticides						
Our Reference		194928-27	194926-29	194926-30	194926-32	194926-33
Your Reference	LINITS	PIT34	PIT35	PIT36	PIT37	PIT38
Depth		9,0,0,1	9.0-0.1	0.0-0.1	0,0-0 1	0,0-0,1
Date Sampled		22/05/2018	22/06/2018	22/08/2018	22/06/2018	22/06/2018
Type of sample		501	sdil	soil	509	50)
Date extracted	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	14	28/06/2018	28/06/2018	28/06/2018	28/06/2016	28/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	≪0.1	<0.1	<0.1	<0.1
Chiorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chiorpyriphos-methyl	mg/kg	<0,1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
		100				

Environment (American 194926 R00

Dimethoate

Fenitrothion

Malathion

Parathion

Surrogate TCMX

Ronnel

Ethion

Page 28 of 66

<0.1

<0.1

< 0.1

<0.1

<0.1

<0.1

121

<0.1

<0.1

< 0.1

<0.1

<0.1

<01

116

< 0.1

<0.1

<0.1

<0.1

< 0.1

<0.1

116

<0.1

<0.1

<0.1

<0.1

<0.1

<0.1

120

<0.1

<0.1

< 0.1

<0.1

<0.1

< 0.1

121

mg/kg

mg/kg

mgikg

mg/kg

ring/kg

mg/kg

%

Our Reference		194926-35	194926-36	194926-50	194926-51	194926-52
Your Reference	UNITS	PIT39	PITAÓ	PIT49	PIT50	PIT78
	-014(15)	0.0-0 1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Depth						
Date Sampleri		22/06/2018	22/06/2018	22/06/2018	22/06/2018	25/06/2018
Type of sample		soll	sail	SOII	500	508
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	8	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlarvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.7	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	≪0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	117	115	118	110	111

Our Reference		194926-53	194926-54
Your Reference	LINITS	PIT79	PIT80
Depth		9,0-0.1	0.0-0.1
Date Sampled		25/05/2018	25/06/2018
Type of sample		soll	sof
Date extracted	14	28/06/2018	28/06/2018
Date analysed	14	28/06/2018	28/06/2018
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1
Chiorpyriphos	mg/kg	<0.1	<0.1
Chiorpyriphos-methyl	mg/kg	<0,1	<0.1
Diazinon	mg/kg	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1
Ethjon	mg/kg	<0.1	<0.1
Fenitrothian	mg/kg	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1
Parathion	ring/kig	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1
Surragate TCMX	5	113	111

Engineen (February 194926

Type | 29 of 66

PCBs in Soil						
Our Reference		194926-1	194926-2	194926-4	194926-6	194926-7
Your Reference	UNITS	PITS	PIT2	PITS	PIT5	PITE
Depth		0,5-0,6	1.0-1.1	0.5-0.6	1.0-1.1	0,0-0.1
Date Sampled		21/06/2018	21/06/2018	21/05/2018	21/06/2018	21/06/2018
Type of sample		SOIL	soil	SOIL	500	50
Date extracted	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	2	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Aroctor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	≪0.1
Arodor 1221	mg/kg	<0.1	<0,1	<0.1	<0.1	<0,1
Aroctor 1232	mg/kg	<0.1	-<0.1.	<0.1	<0.1	<0.1
Aroclar 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Arodor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	120	121	121	121	123
PCBs in Soil						
Our Reference		194926-10	194926-11	194926-13	194928-15	194926-16
Your Reference	UNITS	PITE	PIT10	PIT12	FIT13	PIT14

PCBs in Soil						
Our Reference		194926-10	194926-11	194926-13	194928-15	194926-16
Your Reference	UNITS	P(T9	PIT10	PIT12	PIT13	PIT14
Depth		0.5-0.6	0.0-0.1	0.0-0.6	0.5-0.6	0.5-0.6
Date Sampled		22/06/2018	22/06/2018	25/06/2018	25/05/2018	25/06/2018
Type of sample		\$od.	soil	soll	50	508
Date extracted	7.2	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Arodor 1016	mg/kg	<0.1	+0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	≪0.1	<0.1	<0.1	<0.1
Arodor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arocior 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroctor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	*	121	120	121	121	119

Caryonalan I (American - 194925 Rooman - Roo There | 30 of 66

PCBs in Soil			_			-
Our Reference		194926-18	194926-19	194926-21	194926-22	194926-24
Your Reference	UNITS	PIT15	PIT16	PIT17	PIT18	PIT20
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		22/06/2018	21/06/2018	21/08/2018	21/06/2018	20/06/2018
Type of sample		sol	soil	Soil	50/1	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	8	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Arodor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Araciar 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arodor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arocior 1260	mg/kg	<0.1	<0.1	<0.1	<0,1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	*	120	118	116	120	119

PCBs in Soli						
Our Reference		194926-27	194926-29	194926-30	194926-32	194926-33
Your Reference	LIMITS	PIT34	P1735	PIT36	PIT37	PIT38
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Sampled		22/05/2018	22/06/2018	22/06/2018	22/06/2018	22/06/2018
Type of sample		900	soil	soil	soil	508
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		28/05/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Aroclar 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0,1	<0,1	≺0,1	<0.1
Aroctor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aractor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0,1	<0.1	<0.1	<0.1	<0.1
Surragate TCLMX	%	116	116	120	121	121

Crymalat Romen 194925

Page | 31 of 66

PCBs in Soil						
Our Reference		194926-35	194926-36	194926-50	194926-51	194926-52
Your Reference	UNITS	PIT39	PIT40	PIT49	PIT50	PIT78
Depth		0.0-0-1	0.0-0.1	0.0-0.1	0.0-0.1	0.040 1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2015	25/06/2018
Type of sample		500	soil	SOII	500	50
Date extracted		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	9	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Arodor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arodor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arocior 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surragate TCLMX	%	117	115	118	110	111

PCBs in Soli		-	
Our Réferènce		194926-53	194926-54
Your Reference	LIMITS	PIT79	PITAD
Depth		0.0-0.1	.0.0-0.)
Date Sampled		25/05/2018	25/05/2018
Type of sample		908	50/
Date extracted		28/06/2018	28/06/2018
Date analysed		28/06/2018	28/08/2018
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclar 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1
Aroclar 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0,1	<0.1
Surrogate TCLMX	%	113	111

Carpordad / (Amazon = 194926 | R00 1 32 of 66

Our Reference		194926-1	194926-2	194926-3	194926-4	194926-5
Your Reference	UNITS	PITS	PIT2	PIT2	PIT3	PIT4
Depth		0,5-0,6	1.0-1.1	20-21	0.5-0.6	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/06/2018	21/06/2018
Type of sample		SOIL	soil	508	589	50
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	9	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	64
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	11	.9	10	11
Copper	mg/kg	7	1	6	7	5
ead	mg/kg	15	16	16	16	19
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	4	5	4	5
Zinc	mg/kg	23	24	19	19	19

Our Reference		194926-6	194926-7	194926-8	194926-9	194926-10
Your Reference	UNITS	PITS	PITE	PITE	PITB	PITS
Depth		1,0-1 1	0.0-0.1	2.0-2.1	7,0-1.1	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/06/2018	22/06/2016
Type of sample		sol	sail	508	soil	soli
Date prepared	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	13	10	16	8	9
Copper	mgikg	6	6	7	7	8
Lead	mg/kg	15	13	20	16	18
Mercury	mg/kg	<0.1	<0.1	<0,1	<0.1	<0.1
Nickel	mg/kg	5	4	5	:4	6
Zinc	mg/kg	20	21	22	21	32

Carponium I (Innoverna 194926 Republica (Innoverna Republica Innoverna Republica Repub Dage | 33 of 66

Our Reference		194926-11	194926-12	194926-13	194926-14	194926-15
Your Reference	UNITS	PIT10	PIT10	PIT12	PIT12	PIT13
Depth		0.0-0.1	1.0-1.1	0.0-0.6	2.0-2.1	0,5-0.6
Date Sampled		22/06/2018	22/06/2018	25/08/2018	25/06/2018	25/06/2018
Type of sample		soll	sail	501	500	50
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	12	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	10	-11	7	7
Copper	mg/kg	7	10	6	5	5
ead	mg/kg	16	19	16	15	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	6	4	4	4
Zinc	mg/kg	20	33	24	21	22

Acid Extractable metals in soil						
Our Reference		194926-16	194926-17	194926-18	194926-19	194920-20
Your Reference	UNITS	PIT14	PIT14	PIT15	PIT16	PIT16
Depth		0,5-0.6	1.0-1.1	0.5-0.6	0.0-0 1	1,0-1.1
Date Sampled		25/06/2018	25/06/2018	22/05/2018	21/06/2018	21/05/2018
Type of sample		Sold.	sail	soil	SOL	sol
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	+	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	10	10	8	12	10
Copper	mg/kg	6	6	9	9	6
Lead	mg/kg	14	15	18	17	13
Mercury	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Nickel	mg/kg	4.	5	7	9	4
Zinc	mg/kg	20	21	30	32	16

(1991) | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194926 | 194

FMBE | 34 of 66

Die Defense		194926-21	101020 02	101000 00	desente ou	403000 50
Our Reference		194926-21	194926-22	194926-23	194926-24	194926-25
Your Reference	UNITS	PIT17	PIT18	PIT18	PfT20	PIT20
Depth		0.0-0:1	0.0-0.1	0.5-0.6	0.0-0.1	1.5-1.1
Date Sampled		21/06/2018	21/06/2018	21/06/2018	20/06/2018	21/06/2018
Type of sample		sol	sail	Soil	500	50
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	12	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	5	6	5	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	17	9	11	10
Copper	mg/kg	15	13	19	7	7
Lead	mg/kg	21	23	26	15	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	17	16	11	5	5
Zinc	mg/kg	52	46	55	20	18

Our Reference		194926-26	194926-27	194926-26	194926-29	194926-30
Your Reference	UNITS	PIT21	PIT34	PITS4	P)T35	PIT36
Depth		1,5-1,6	0.0-0 1	1.0-1.1	0.0-0 1	0.0-0.1
Date Sampled		21/06/2018	22/06/2018	22/05/2018	22/06/2018	22/05/2018
Type of sample		No.e	sail	soil	504	501
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	9	7.	10	8	9
Copper	mg/kg	5	9	4	12	9
Lead	mg/kg	17	29	16	22	18
Mercury	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Vickel	mg/kg	7	4	3	3	4
Zinc	mg/kg	12	48	13	21	31

Charles (Grovers = 194926 Roo Phase | 35 of 66

Our Reference		194926-31	194926-32	194926-33	194926-34	194926-35
Your Reference	UNITS	PIT36	PIT37	PIT38	PIT38	PIT39
Depth		0.5-0.6	0.0-0.1	0,0-0.1	0.5-0.6	0.0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2018	22/06/2018
Type of sample		sol	soil	501	50	900
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	14	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0,4	<0.4	<0,4	<0.4
Chromium	mg/kg	10	10	8	8	9
Copper	mg/kg	4.	3	5	4	7
Lead	mg/kg	15	15.	17	14	28
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	2	3	4	3
Zinc	mg/kg	15	14	34	14	28

Our Reference		194926-36	194926-37	194926-50	194926-51	194926-52
Your Reference	UNITS	PIT40	PIT40	PIT49	PIT50	PIT78
Depth		0.0-0 1	0.5-0.6	0.0-0.1	0.0-0 1	0.0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2018	25/05/2018
Type of sample		soil	sail	Soil	sol	sol
Date prepared	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	8	7.	8	9	6
Copper	mg/kg	6	4	3	4	6
Lead	mg/kg	17	12	12	12	17
Mercury	mg/kg	<0.1	<0,1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	2	2	4	3
Zinc	mg/kg	28	9	7	16	25

Committee (Consessed 194925)

Phise | 36 of 66

Our Reference		194926-53	194926-54
Your Reference	UNITS	P(T79	PIT80
Depth		0.0-0.1	0.0-0.1
Date Sampled		25/08/2018	25/06/2018
Type of sample		sol	son
Date prepared		28/06/2018	28/06/2018
Date analysed	9	29/06/2018	29/06/2018
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	12	31
Copper	mg/kg	6	14
Lead	mg/kg	17	26
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	7	11
Zinc.	mg/kg	34	22

(1991) | 194925 | 1940 | ROO 1 37 of 66

Moisture						
Our Reference		194926-1	194926-2	194926-3	194926-4	194926-5
Your Reference	UNITS	PITT	PIT2	PIT2	PIT3	PIT4
Depth		0,5-0,6	10-11	20-21	0.5-0.6	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/05/2018	21/06/2018	21/06/2018
Type of sample		BOIL	soil	508	500	308
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	-2	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	*	9.0	4.9	8.1	5.8	7.9
Moisture						
Our Reference		194926-6	194926-7	194926-8	194926-9	194926-10
Your Reference	UNITS	PITS	PIT6	PITE	PIT8	PIT9
Depth		1,0-1.1	0.0-0.1	2.0-2.1	1.0-1.1	0.5-0.6
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/06/2016	22/06/2018
Type of sample		sol	soil	500	30	soil
Date prepared		28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	*	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	%	7.7	5.3	8.5	11	11
Moisture						
Our Reference		194926-11	194926-12	194926-13	194926-14	194926-15
Your Reference	UNITS	PITIO	PIT10	PIT12	PIT12	PIT13
Depth		0.0-0.1	1.0-1.1	8.0-0.0	2.0-21	0.5-0.6
Date Sampled		22/06/2018	22/08/2018	25/06/2018	25/06/2018	25/06/2018
Type of sample		508	lioe	soil	400	501
Date prepared		28/06/2018	28/06/2018	28/05/2018	28/06/2018	28/06/2018
Date analysed	*	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	#	8.0	13	6.9	9.6	5.7
Moisture						
Our Reference		194926-16	194926-17	194926-18	194926-19	194925-20
Your Reference	UNITS	PIT14	PIT14	PIT15	PIT16	PIT16
Depth		0,5-0.6	1.0-1.7	0.5-0.6	1 0.0.0	1.0-1.1
Date Sampled		25/06/2018	25/06/2018	22/06/2018	21/06/2018	21/06/2018
Type of sample		soá	soil	soil	400	50/
Date prepared	- A	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed	14	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	16.	5.7	7.0	8.4	7.8	11

Commist Reference 194926 Regulation Red Page | 38 of 66

Moisture					-	
Our Reference		194926-21	194926-22	194926-23	194926-24	194926-25
Your Reference	UNITS	PIT17	PI718	PIT18	PIT20	PIT20
Depth		0.0-0:1	0.0-9.1	0.5-0.6	0.0-0.1	1.04.1
Date Sampled		21/06/2018	21/06/2018	21/08/2018	20/06/2018	21/05/2018
Type of sample		sol	sail	SOIL	500	50
Date prepared	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	%	7.0	9.3	7.1	7.2	14
Moisture		200				
Our Reference		194926-26	194926-27	194926-28	194926-29	194926-30
Your Reference	UNITS	PIT21	PIT34	PIT34	PIT35	PIT36
Depth		1,5-1,6	0,0-0,1	1.0-1.1	0.0-0.1	0.0-0 1
Date Sampled		21/06/2018	22/06/2018	22/08/2018	22/06/2018	22/06/2016
Type of sample		50	soil	5011	300	504
Date prepared	-	28/05/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	*	14	5.8	8.7	5.8	8.8
Moisture						_
Our Reference		194926-31	194926-32	184926-33	194926-34	194926-35
Your Reference	UNITS	PIT36	PIT37	PIT36	PIT38	PIT39
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.5-0.6	.0.0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2018	22/06/2018
Type of sample		soli	line-	Soll	501	501
Date prepared	)×	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date analysed		29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	*	6.1	7.9	7.5	3.5	6.7
Moisture						
Our Reference		194926-36	194926-37	194926-50	194926-51	194926-52
Your Reference	UNITS	PIT40	PIT40	PIT49	PIT50	PIT78
Depth		0,0-0,1	0.5-0.6	0.0-0.1	0.0-0.1	0,0-0.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/06/2018	25/06/2016
Type of sample		soli	soll	soil	301	soil
Date prepared	7	28/06/2018	28/06/2018	28/06/2018	28/05/2018	28/06/2018
Date analysed	*	29/06/2018	29/06/2018	29/06/2018	29/06/2018	29/06/2018
Moisture	78.	5.9	4.6	3.7	6.0	5.4

Commist Weterence 194926 Reputation 1997 FMBE | 39 of 66

Moisture			
Our Reference		194926-53	194926-54
Your Reference	UNITS	P(T79	PIT80
Depth		0.0-0.1	0.0-0.1
Date Sampled		25/06/2018	25/05/2018
Type of sample		sol	909
Date prepared		28/06/2018	28/06/2018
Date analysed		29/06/2018	29/06/2018
Moisture	**	6.2	9.9

Cayo that I (harry) = 194925 R00 1 Mge | 40 of 66

Asbestos ID - solla						
Our Reference		194926-1	194926-2	194926-4	194925-5	194926-7
Your Reference	UNITE	PITI	PIT2	PITS	PITS	PITE
Desth		0,5-0,6	11:0-1 1	0.5-0.6	1.0313	0,0-0.1
Date Sampled		21/06/2018	21/06/2018	21/06/2018	21/08/2018	21/06/2018
Type of sample		800	soil	501	517	50
Date analysed	-	03/07/2018	03/07/2018	03/07/2018	03/07/2018	03/07/2018
Sample mass tested		Approx, 35g	Approx. 40g	Approx. 30g	Approx. 40g	Approx. 40g
Sample Description	-	Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Red fine- grained soil & rocks	Brown coarse- grained soil & rocks
Asbestos ID in soil	i	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos defected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis		No asbestos detected				

19492B (100)

Asbestos ID - soils						
Our Reference		194926-10	194926-11	194926-13	194926-15	194926-16
Your Reference	UNITS	PIT9	PIT16	PIT12	PITES	PITTA
Depth:		0.5-0.6	0.0-0.1	00-06	0,5-0.6	9.5-D/E
Date Sampled		22/06/2018	22/06/2018	25/06/2018	25/06/2018	25/06/2018
Type of sample		102	sail	SOI	500	500
Date analysed		03/07/2018	03/07/2018	03/07/2018	03/07/2018	03/07/2018
Sample mass tested	g	Approx. 35g	Approx. 40g	Approx. 40g	Approx. 35g	Approx. 40g
Sample Description	- 2	Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks	Brown fine- grained soil & rocks	Brown fine- grained soil & rocks	Brown coarse grained soil & rocks
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit o 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibre detected
Trace Analysis	-	No asbestos detected				
Asbestos ID - soils						_
Our Reference		194926-18	194906-19	194926-21	194926-22	194926-24
Your Reference	LIMITE	PIT15	PITIS	PIT17	PITIO	PIT20
Depth		0,5-0.6	0.0-0.1	0.0-0.1	0.0-0 1	1000
Date Sampled		22/06/2018	21/06/2018	21/06/2018	21/06/2018	20/06/2018
Type of sample		508	soil	SOIL	500	500
Date analysed		03/07/2018	03/07/2018	03/07/2018	03/07/2018	03/07/2018
Sample mass tested		Approx. 40g	Approx. 45g	Approx. 40g	Approx. 40g	Approx. 40g
Sample Description	-	Brown coarse- grained soil & rocks	Brown coarse grained soil & rocks			
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibre detected
Trace Analysis	- X	No asbestos detected				

194926 (00) 42 of 66

Asbestos (D - soils					_	
Our Reference		194926-27	194926-29	194926-30	194926-32	194926-33
Your Reference	UNITS	PIT34	PIT35	PIT36	PIT37	PIT38
Depth		0.040.1	0.0-0.1	0.0-0.1	0.0-0.1	0.040.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/05/2018	22/06/2018
Type of sample		807	≤ali	SOIL	500	603
Date analysed		03/07/2018	03/07/2018	03/07/2018	03/07/2018	03/07/2018
Sample mass tested	9	Approx. 40g	Approx. 45g	Approx. 40g	Approx. 30g	Approx. 40g
Sample Description		Brown coarse- grained soil & rocks				
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit o 0.1g/kg			
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis		No asbestos detected				

Asbestos (D - soils						
Our Reference		194926-35	194926-36	194926-50	194926-51	194926-52
Your Reference	UNITS	PITS9	PIT46	PIT49	PIT50	PIT78
Depth		0.040.1	0.0-0.1	55-51	0.0-0.1	0.00.1
Date Sampled		22/06/2018	22/06/2018	22/06/2018	22/05/2018	25/06/2018
Type of sample		BOIL	±aii	SOI	500	500
Date analysed		03/07/2018	03/07/2018	03/07/2018	03/07/2018	03/07/2018
Sample mass tested	3	Approx. 35g	Approx. 45g	Approx, 35g	Approx. 40g	Approx. 40g
Sample Description	-	Brown coarse- grained soil & rocks				
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg Organic fibres				
		detected	detected	detected	detected	detected
Trace Analysis	,	No asbestos detected				

Asbestos ID - soils			
Our Reference		194926-53	194926-54
Your Reference	UNITE	PIT79.	PIT80
Depth:		0.0-0.1	1,0-0.1
Date Sampled		25/06/2018	25/06/2018
Type of sample		sor	500
Date analysed		03/07/2018	03/07/2018
Sample mass tested		Approx. 40g	Approx. 30g
Sample Description		Brown coarse- grained soil & rocks	Brown coarse- grained soil & rocks
Asbestos ID in soil		No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected et reporting limit o 0.1g/kg
		Organic fibres detected	Organic fibres detected
Trace Analysis		No asbestos detected	No asbestos detected

194926 R00 44 of 66

Our Reference		194926-38	194926-39	194926-40	194926-41	194925-42
Your Reference	UNITS	PIT41	PIT41	PIT42	PITAS	PIT43
Depth		10.11	20-21	0.5-0.6	0.5-0.6	15-16
Date Sampled		25/06/2018	25/06/2018	25/06/2018	25/06/2018	25/06/2018
Type of sample		ECH	soil	soil	588	50
Date testing started	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date testing completed	9	03/07/2018	03/07/2018	03/07/2018	03/07/2018	03/07/2018
E Cali in soil	MPN/100g	<200	<200	<200	<200	<200
Salmonella*	50g	Not Detected				
Faecal Coliforms in soil	MPN/100g	<200	<200	<200	<200	<200
Micro lesting in soil						
Our Reference		194926-43	194926-44	194926-45	194926-46	194926-47
Your Reference	UNITS	PIT44	PIT45	PIT45	PIT46	PIT47
Depth		1.0-1.1	0.5-0.8	15-16	1.0-11	0,5-0.6
Date Sampled		25/06/2018	26/06/2018	26/06/2018	26/06/2018	26/05/2018
Type of sample		soll	sail	501	500	sol
Date testing started	-	28/06/2018	28/06/2018	28/06/2018	28/06/2018	28/06/2018
Date testing completed		03/07/2018	03/07/2018	03/07/2018	03/07/2018	03/07/2018
E Call in soil	MPN/100g	<200	<200	<200	<200	<200
Salmonella*	50g	Not Detected				
	MPN/100g	<200	<200	<200	<200	<200

Micro testing in soil			
Our Reference		194926-48	194926-49
Your Reference	UNITS	PIT47	PIT48
Diepth		1,5-1.6	1:0-1:1
Date Sampled		26/06/2018	26/06/2018
Type of sample		906	soil
Date testing started		28/06/2018	28/06/2018
Date testing completed		03/07/2018	03/07/2018
E Coll in soil	MPN/100g	<200	<200
Salmonella*	50g	Not Detected	Not Detected
Faecal Coliforms in soil	MPN/100g	<200	<200

Caryonalan I (American - 194925 Room 1 45 of 66

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004
Ext-008	Subcontracted to Sonic Food & Water Testing, NATA Accreditation No. 4034
Inorg-008	Moisture-content determined by heating at 105+/-5 °C for a minimum of 12 hours,
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FiD F2 = (>C10-C16)-Naphthalane as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1/4). Note Naphthalane is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Adetone and waters with Dichloromethane and analysed by GC-FID
	F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on investigation Levels for Soil and Groundwater (HSLs Tables 1/ (3, 4)). Note Naphthalene is determined from the VOC analysis.
	Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
	Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.  Note, the Total +ve PCBs POL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs is simply a sum of the positive individual PCBs.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.

----

104928

(100)

Method ID	Methodology Summary
Org-012	Soil samples are extracted with Dichloromethane/Acetons and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results - 1. 'EQ PQL' values are assuming all contributing PAHs reported as <pql "total="" 'eq="" 2.="" 3.="" <pql="" a="" above.="" actually="" all="" and="" approach="" approaches="" are="" as="" assuming="" at="" be="" below="" between="" but="" calculation="" can="" conservative="" contribute="" contributing="" faise="" false="" give="" given="" half="" hence="" individual="" is="" least="" lowest="" may="" mid-point="" more="" most="" negative="" not="" note,="" of="" pahs="" pahs"="" pahs.<="" positive="" pql="" pql'="" pql.="" present="" reflective="" reported="" simply="" stipulated="" sum="" susceptible="" td="" teq="" teqs="" that="" the="" therefore="" this="" to="" total="" type="" values="" when="" zero="" zero.=""></pql>
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS
Org-016	Soil samples are extracted with methanol and spiked into water onor to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.  Note, the Total +ve Xylenis POL is reflective of the lowest individual POL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

-

0.00

QUALITY CON	TROL VTRH	(C6-C10)/E	STEXN in Soil			Đu	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	LC8-5	194926-22
Date extracted	-			28/06/2018	1	28/06/2018	28/06/2018		28/08/2018	28/06/2018
Date analysed	-			29/08/2018	1	29/08/2018	29/06/2018		29/08/2018	29/06/2018
TRH Cg - Cg	mg/kg	25	Org-016	<25	Y	≺25	<25	0	94	90
TRH C <sub>6</sub> - C <sub>18</sub>	mg/kg	25	Org-016	<25	+	<25	<25	0	94	90
Benzene	mg/kg	0.2	Org-016	<0.2	4	<0.2	<b>√0.2</b>	0	90	86
Toluene	mg/kg	0.5	Org-016	<0.5	1	<0.5	<0.5	0	88	83
Ethylberizene	mg/kg	1	Org-016	st.	T	<b>51</b>	<b>41</b>	0	94	90
m+p-xylene	mg/kg	2	Org-016	<2	1	<2	<2	0	100	96
o-Xylene	mg/kg	1	Org-016	<1	1	<1	<1	0	92	87
naphthalene	mg/kg	4	Org-014	-<1	7	न	<1	0		
Surrogate sea-Trifluorotoluene	50		Org-016	92	1	90	93	3	95	88

QUALITY CON	TROL VTRH	(C6-C10)/E	TEXN in Sail			Ditt	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	194926-2
Date extracted				-	13	28/06/2018	28/06/2018		28/08/2018	28/06/2019
Date analysed	4.				11	29/08/2018	29/06/2018		29/08/2018	29/06/2018
TRH Cs - Cs	mg/kg	25	Org-016		11	<25	<25	.0.	99	97
TRH Cc - Cit	mg/kg	25	Org-016		11	<25	<25	0	99	97
Benzene	mg/kg	0.2	Org-016		11	<0.2	<0.2	a	96	93
Toluene	mg/kg	0.5	Org-016		11	<0.5	<0.5	0	93	90
Ethylbenzene	mg/kg	1	Org-016	-	11	<1	≪f	0	98	97
m+p-xylene	mg/kg	2	Org-016		11	-2	-2	0	105	103
>-Xylene	mg/kg	1	Org-016		11	-1	*1	0	96	93
naphthalene	mg/kg	1	D/g-014		11	-61	<1	0		
Surrogate ass-Trifluorotoluene	150		Drg-016		11	88	94	7	98	99

QUALITY CON	TROL VTRH	(C6-C10)/E	ETEXN in Sail			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Melhod	Blank	tt	Base	Dup	RPD	LCS-7	194926-52
Date extracted	-			-	21	28/06/2018	28/06/2018		28/08/2018	27/06/2018
Date analysed	- 4-				21	29/06/2018	29/06/2018		28/06/2018	29/06/2018
TRH C <sub>6</sub> - C <sub>6</sub>	mg/kg	25	Org-016		21	<25	<25	· O	96	90
TRH Cc - CH	mg/kg	25	Org-016		21	<25	<25	0	96	90
Benzene	mg/kg	0.2	Org-016	-	21	<0.2	<0.2	0	92	86
Taluene	mg/kg	0.5	Drg-016		21	<0.5	<0.5	0	90	87
Ethylbenzene	mg/kg	1	Org-016		21	41	<t< td=""><td>0</td><td>95</td><td>89</td></t<>	0	95	89
m+p-xylene	mg/kg	2	Org-016		21	+2	<2	D	101	94
o-Xylene	mg/kg	3	Drg-016		21	<1	<b>#1</b>	0	92	89
naphthalene	mg/kg	-1	Org-014		21	151	-51	0		
Surrogate asa-Trifluorotoluene	16		Org-016		21	97	97	0	93	101

Live olah Reference 194925 Regumentar Red Page | 48 of 66

QUALITY CON	TROL VTRH	(C6-C10)/E	TEXN in Soil			Đu	plicate		Spike Re	covery 9
Test Description	Units	PQL	Method	Blank	Ħ	Buse	Dup	RPD	INTI	[NT]
Date extracted	-				31	28/08/2018	28/06/2018			
Date analysed	-				31	29/08/2018	29/06/2018			
TRH Cg - Cs	mg/kg	25	Org-016		31	≺25	≪25	0		
TRH C <sub>1</sub> - C <sub>18</sub>	mg/kg	25	Org-016		31	425	<25	.0		
Benzene	mg/kg	0.2	Org-016		31	<0.2	<0.2	0		
Toluene	mg/kg	0.5	Org-016		31	<0.5	<0.5	0		
Ethylberizone	mg/kg	1	Org-016		31	s1	<1	à		
m+p-xylene	mg/kg	2	Org-016		31	<2	<2	0		
o-Xylene	mg/kg	1	Org-016		31	41	<1	0		
naphthalene	mg/kg	-4	Org-014		31	-d	⊀1	0		
Surrogate aaa-Trifluorotoluene	20		Org-016		31	92	98	6		

QUALITY CON	TROL VTRH	HC6-C10)/E	STEXN in Sail			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	DALL	[NT]
Date extracted	*			-	51	27/08/2018	27/06/2019			
Date analysed	4				51	29/08/2018	29/06/2018			
TRH Cs - Cs	mg/kg	25	Org-016		51	<25	<25	0		
TRH CE - CH	mg/kg	25	Org-016		51	<25	<25	0		
Benzene	mg/kg	0.2	Drg-016		51	<0.2	<0.2	0		
Toluene	mg/kg	0.5	Org-016		51	<0.5	<0.5	0		
Ethylbenzene	mg/kg	1	Org-016		51	<1	<1	0		
m+p-xylene	mg/kg	2	Org-016		51	-42	-2	0		
o-Xylene	mg/kg	1	Org-016		51	-1	<b>31</b>	O		
naphthalene	mg/kg	1	Org-014		51	41	<1	0		
Surragate ass-Trifluorotoluene	150		Drg-016		51	94	96	2		

Envirolab Reference 194926 Revision No. R00 PARE | 49 of 66

QUALITY	CONTROL SV	FRH (C10-0	540) in Spil			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Base	Dup	RPD	LC8-5	194926-22
Date extracted	-			28/06/2018	1	28/06/2018	28/06/2018		28/08/2018	28/06/2018
Date analysed				29/08/2018	1	29/08/2018	29/06/2018		29/08/2018	28/06/2018
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	Org-903	450	Y	<50	<b>≮50</b>	0	119	110
TRH C <sub>S</sub> - C <sub>28</sub>	mgrkg	100	Org-003	<100	1	∀100	<100	0	99	101
TRH C <sub>29</sub> - C <sub>35</sub>	mg/kg	100	Org-003	<100	4	<100	<100	0	77	81
TRH >Cts +Cts	mg/kg	60	Org-003	<50	3	<50	<50	0	119	110
TRH >Cts+Cs	mg/kg	100	Org-003	¢100	Y	<100	×100	0	99	101
TRH >C3±-C4F	mg/kg	100	Org-003	⊲100	1	<100	<100	0	77	81
Surrogate o-Terphenyl	16		Org-003	99	1	96	122	24	118	98

QUALIT	Y CONTROL SV	TRH (C10-C	(40) in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	M	Base	Dup	RPD	LCS-6	194926-2
Date extracted				-00	11	28/08/2018	28/06/2018		28/06/2018	28/06/2018
Date analysed					11	29/06/2018	29/06/2018		28/06/2018	29/06/2018
TRH C11 - C14	mg/kg	50	Org-003		11	<50	<b>₹50</b>	0	113	128
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		11	<100	<100	0	98	111
TRH C <sub>20</sub> = C <sub>38</sub>	mg/kg	100	Org-003		51	<100	<100	0	77	95
TRH >Cm-Cm	mg/kg	50	Org-903		11	~50	≺50 ·	0	113	128
TRH >C16-C34	mg/kg	100	Org-003		11	<100	<100	0	98	111
TRH >C <sub>34</sub> -C <sub>36</sub>	mg/kg	100	Org-003		11	⊀100	<100	0	77	95
Surrogate o-Terphenyl	16		Org-003		11	123	124	1	110	122

QUALITY	Y CONTROL: SVI	TRH (C10-0	(40) in Soil			Du	plicate		Spike Re	covery //ii
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LC5-7	194926-52
Date extracted					21	28/05/2018	28/06/2018		28/06/2018	28/06/2018
Date analysed	+				21	29/06/2018	29/06/2018	100	29/08/2018	29/06/2018
TRH C10 - C14	mg/kg	50	Org-003		21	<50	~50	D	.113	99
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		21	<100	<100	0	97	83
TRH C <sub>25</sub> - C <sub>36</sub>	mg/kg	100	Org-003		21	≺100	<100	0	92	108
TRH >Cm-Dis	mg/kg	50	Org-903		21	<50	<50	0	113	99
TRH >C15-C34	mg/kg	100	Org-003		21	<100	<100	0	97	83
TRH >C <sub>38</sub> -C <sub>60</sub>	mg/kg	100	Org-003		.21	<100	<100	0	92	105
Surrogate o-Terphenyl	- 15		Org-003		21	121	121	0	110	99

Chymalab Reference 194925 Reparation R00 PAGE | 50 of 66

QUALITY	CONTROL SV	TRH (C10-0	(40) in Spil			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	part	[NT]
Date extracted	-				31	28/06/2018	28/06/2018			
Date analysed					31	29/08/2018	29/06/2018			
TRH C <sub>N</sub> - C <sub>14</sub>	mg/kg	50	Org-903		31	<50	≪50	0		
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		31	≠100	<100	0		
TRH C <sub>29</sub> - C <sub>35</sub>	mg/kg	100	Org-003		31	<100	<100	0		
TRH >Cm+Cm	mg/kg	60	Org-003		31	<50	<50	0		
TRH >C15-C34	mg/kg	100	Org-003		31	<100	×100	۵		
TRH >C3±-C4tt	mg/kg	100	Org-003		31	<100	<100	0		
Surrogate o-Terphenyl	%		Org-003		31	100	101	4		

QUALITY	Y CONTROL: SVI	RH (C10-C	(40) in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	M	Base	Dup	RPD	INTI	[NT]
Date extracted				-000	51	28/08/2018	28/06/2018			
Date analysed					51	29/06/2018	29/06/2018			
TRH CH - CH	mg/kg	50	Org-003		51	<50	<b>≈50</b>	0		
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	Org-003		51	<100	<100	0		
TRH C <sub>22</sub> = C <sub>38</sub>	mg/kg	100	Org-003		51	<100	<100	0		
TRH >Cm-Cm	mg/kg	60	Org-903		51	<50	≺50 ·	0		
TRH >C16+Csi	mg/kg	100	Org-003	-	51	<100	<100	0		
TRH >C <sub>M</sub> -C <sub>M</sub>	mg/kg	100	Org-303		51	≺100	<100	0		
Surrogate o-Terphenyl	16		Org-003		51	99	99	D		

Envirolab Reference 194926 Revision No. R00 Prige | 51 of 66

QUA	LITY CONTRO	L PAHs in	Sall			Đu	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	LC8-5	194926-22
Date extracted				28/06/2018	1	28/06/2018	28/06/2018		28/08/2018	28/06/2018
Date analysed	-			29/08/2018	1	29/08/2018	29/06/2018		29/08/2018	29/06/2018
Naphthalene	mg/kg	0.1	Org-012	<0.1	Y	≪0.1	<0.1	0	91	94
Acenaphthylene	mg/kg	0.1	Org-512	<0.1	1	<0.1	≺0.1	.0		
Acenaphthene	mg/kg	0.1	Org-012	<0.1	4	<0.1	<0.1	0		
Fluorene	mg/kg	0.1	Org-012	<0.1	3	<0.1	<0.1	0	89	90
Phenanthrene	mg/kg	0.1	Org-012	<0.1	Y	<0.1	<0.1	0	88	97
Anthracens	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	85	96
Pyrene	mg/kg	0.1	Org-012	<0.1	7	40.1	40 f	0	89	99
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0		
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	D	98	92
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	< 0.2	<0.2	ò		
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	9	<0.05	<0.05	Ď	93	88
indeno(1,2 3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	40.1	0		
Dibenzo(a,h)enthrecene	mg/kg	0.1	Org-012	<0.1	4	<0.1	<0.1	0		
Benzo(g.h,i)perylene	mg/kg	01	Org-012	<0,1	1	<0.†	<0.1	0		
Surrogate p-Terphenyl-d14	4		Org-012	90	1	83	84	4	103	106

QUA	LITY CONTRO	L PAHS	Soll			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup,	RPD	LCS-6	194926-2
Date extracted	4.1			-	51	28/05/2018	28/06/2018		28/06/2018	28/06/2018
Date analysed					11	29/08/2018	29/06/2018		29/06/2018	29/06/2018
Naphthalene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0	95	120
Acenaphthylene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0		
Acenaphthene	mg/kg	0.1	Org-012	100	11	4D.1	40.1	D		
Fluorene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0	93	120
Phenanthrene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0	97	110
Anthracene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012		11	≪0.1	<0.1	0	97	107
Pyrene	mg/kg -	0.1	Org-012		11	<0.1	<0.1	0	99	113
Benzo(a)anthracene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0		
Chrysene	mg/kg	01	Org-012		11	<0.1	<0.1	0	94	136
Benzo(b.j+k)fluoranthens	mg/kg	0.2	Org-012		11	<0.2	<0.2	0		
Benzo(a)pyrene	mg/kg	0.05	Org-012		11	<0.05	<0.05	0	92	117
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012		11	<0.1	40.1	Ö		
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012		11	<0.1	≠0.1	0		
Benzo(g.h.i)perylene	mg/kg	0.1	Org-012		11	<0.1	<0.1	0		
Surragate p-Terphenyl-c14	156		Org-012		11	80	at	1	102	90

Envirolab Reference 194926 Roo Roo PMBE | 52 of 66

QUA	LITY CONTRO	L: PAHs in	Sall			Du	plicate		Spike Re	covery %
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	LCS-7	194926-52
Date extracted	-				21	28/06/2018	28/06/2018		28/08/2018	28/06/2018
Date analysed					21	29/08/2018	29/06/2018		29/08/2018	29/06/2018
Naphthalene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0	97	94
Acenaphthylene	mg/kg	0.1	Org-012		21	<0.1	≺0.1	.0		
Acenaphthene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Fluorene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0	95	92
Phenanthrene	mg/kg	0.1	Org-012		21	<0.1	1.0>	0	98	95
Anthracens	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012		21	<0.1	40.1	0	96	91
Pyrene	mg/kg	0.1	Org-012		21	40.1	40.1	0	100	96
Benzo(a)anthracene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Chrysene	mg/kg	0.1	Org-012		21	<0.1	<0.1	D	98	95
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012		21	< 0.2	<0.2	Ò		
Benzo(a)pyrene	mg/kg	0.05	Org-012		21	<0.05	<0.05	Ď.	85	81
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012		21	<0.1	40.1	0		
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012		21	<0.1	~0.1	0		
Benzo(g.h,i perylene	mg/kg	0.1	Org-012		21	<0.1	<0.1	0		
Surrogate p-Terphenyl-d14	%		Org-012		21	81	82	+	113	109

QUA	QUALITY CONTROL: PAHs in Soil							Duplicate				
Test Description	Units	PQL	Method	Blank	#	Base	Dup,	RPD	[NT]	TNT		
Date extracted	4.			-	31	28/05/2018	28/06/2018					
Date analysed					31	29/08/2018	29/06/2018					
Naphthalene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0				
Acenaphthylene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0				
Acenaphthene	mg/kg	0.1	Org-012	11.1	31	4D.1	+0.1	0				
Fluorene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0				
Phenanthrane	mg/kg	0.1	Org-012		31	<0.1	<0.1	D				
Anthracene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0				
Fluoranthene	mg/kg	0.1	Org-D12		31	<0.1	<0.1	0				
Pyrene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0				
Benzo(a)anthracene	mg/kg	0.1	Org-012		31	<0.1	<0.1	G				
Chrysene	mg/kg	01	Org-012		31	<0.1	<0.1	0				
Benzo(b.j+k)fluoranthens	mg/kg	0.2	Org-012		31	<0.2	<0.2	0				
Benzo(a)pyrene	mg/kg	0.05	Org-012		31	<0.05	<0.05	0				
indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012		31	≪0.1	40.1	Ö				
Diberizo(a,h)anthracene	mg/kg	0.1	Org-012		31	*0.1	+0.1	0				
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012		31	<0.1	<0.1	0				
Surrogate p-Terphanyl-c14	- 16		Org-012		31	81	81	0				

Envirolab Reference 194926 Revision No. R00 PAGE | 53 of 66

QUA	LITY CONTRO	L PAHs in	Sail			Du		Spike Recovery %		
Test Description	Units	POL	Method	Blank	#	Buse	Dup	RPD	INTI	[NT]
Date extracted					51	28/08/2018	28/06/2018			
Date analysed					51	29/08/2018	29/06/2018			
Naphthalene	mg/kg	0.1	Org-012		61	≪0.1	<0.1	0		
Acenaphthylene	mg/kg	0.1	Org-012		51	<0.1	√0.1	.0		
Acenaphthene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Fluorene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Phenanthrens	mg/kg	0.1	Org-012		61	<0.1	<0.1	۵		
Anthracens	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Fluoranthene	mg/kg	0.1	Org-012		51	<0.1	40.1	0		
Pyrene	mg/kg	0.1	Org-012		51	40.1	40 f	0		
Benzo(a)anthracene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Chrysene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012		51	< 0.2	<0.2	0		
Benzo(a)pyrene	mg/kg	0.05	Org-012		51	<0.05	<0.05	Ö		
ndeno(1,2 3-c,d)pyrene	mg/kg	0.1	Org-012		51	<0.1	40.1	0		
Obenzo(a,h)enthracene	mg/kg	0.1	Org-012		51	<0.1	<0.1	0		
Benzo(g,h,i perylene	mg/kg	D 1	Org-012		51	<0.1	<0.1	0		
Surrogate p-Terphenyl-d14	4		Org-012		51	86	87	+		

Crymulab Reference 194926 Revision No. R00 PMBB | 54 of 66

QUALITY C	ONTROL Organi	chlorine P	esticides in soil			Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	LC8-5	194926-23	
Date extracted	-			28/06/2018	1	28/06/2018	28/06/2018		28/06/2018	28/06/2018	
Date analysed	4			28/08/2018	1	28/08/2018	28/06/2018		28/08/2018	28/06/2018	
HCB	mg/kg	0.1	Org-005	<0.1	Y	<0.1	<0.1	0			
alphs-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	×0.1	.0	91	100	
gamma-BHC	mg/kg	0.1	Org-005	<0.1	4	<0.1	<0.1	0			
beta-BHC	mg/kg	0.1	Org-005	<0.1	3	<0.1	<0.1	0	84	90	
Heptachler	mg/kg	0.1	Org-005	<0.1	Y.	<0.1	<0.1	Ď	95	93	
delta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0			
Aldrin	mg/kg	0.1	Org-005	<0.1	2	<0.1	40.1	0	92	103	
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	7	40.1	40.1	0	89	106	
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0			
alpha-chlordene	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0			
Endosulfan I	mg/kg	0.1	Org-005	<0,1	1.	<0.1	<0.1	Ò			
pp-DDE	mg/kg	0.1	Org-005	<0.1	9	<0.1	<0.1	D	97	110	
Dieldrin	mg/kg	0.1	Org-905	<0.1	1	<0.1	40.1	0	104	118	
Endnin	mg/kg .	0.1	Org-005	<0.1	1	<0.1	<0.†	0	87	96	
pp-DDD	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	91	102	
Endosulfan (i	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0			
pp-DDT	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0			
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	Y	<0.1	40.1	0			
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	1	<0.1	40.1	ū	97	93	
Methoxychlar	mg/kg	0.1	Org-005	.<0,1	1	<0.1	<0.1	. 0			
Surrogate TCMX	5		Org-005	113	1	120	122	2	105	116	

Commist Weterence 194926 Rooman (W. Roo Philips | 55 of 66

QUALITY C	ONTROL Organi	schlorine P	esticides in soil			Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LCS-6	194926-2	
Date extracted	9				33	28/06/2018	28/06/2018		28/06/2018	28/06/2018	
Date analysed					11	28/08/2018	28/06/2018		28/08/2018	28/06/2018	
HCB	mg/kg	0.1	Org-005		-11	<0.1	<0.1	0			
alpha-BHC	mg/kg	0.1	Org-005		11	<0.1	≺0.1	.0	94	102	
gamma-BHC	mg/kg	0.1	Org-005		11	<0.1	<0.1	0			
beta-BHC	mg/kg	0.1	Org-005		11	<0.1	<0.1	0	88	94	
Heptachler	mg/kg	0.1	Org-005		11	<0.1	<0.1	n	87	95	
delta-BHC	mg/kg	0.1	Org-005		311	<0.1	<0.1	0			
Aldrin	mg/kg	0.1	Org-005		11	<0.1	40.1	0	97	102	
Heptachlor Epoxide	mg/kg	0.1	Org-005		11	40.1	40 f	0	96	106	
gamma-Chlordane	mg/kg	0.1	Org-005		11	<0.1	<0.1	0			
alpha-chlordene	mg/kg	0.1	Org-005		11	<0.1	<0.1	0			
Endosulfan I	mg/kg	0.1	Org-005		11	<0.1	<0.1	Ò			
pp-DDE	mg/kg	0.1	Org-005		11	-<0.1	<0.1	Ď.	106	110	
Dieldrin	mg/kg	0.1	Org-905		11	<q.1< td=""><td>40.1</td><td>0</td><td>113</td><td>119</td></q.1<>	40.1	0	113	119	
Endnn	mg/kg .	0.1	Org-005		11	<0.1	<0.1	.0	91	98	
pp-DDD	mg/kg	0.1	Org-005	1000	11	<0.1	<0.1	0	96	104	
Endosulfan ii	mg/kg	0.1	Org-005		11	<0.1	<0.1	0			
pp-DDT	mg/kg	0.1	Org-005	1991	11	<0.1	<0.1	0			
Endrin Aldehyde	mg/kg	0.1	Org-005		11	<0.1	+0.1	0			
Endosulfan Sulphate	mg/kg	0.1	Org-005		11	<0.1	40.1	.0	92	108	
Methoxychlar	mg/kg	0.1	Org-005		11	<0.1	<0.1	. 0			
Surrogate TCMX	5		Org-005		11	120	120	0	112	116	

Covered National 194925 (Veyerap No. R00 PMBE | 56 of 66

QUALITY C	ONTROL Organi	schlorina P	esticides in soil			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	INIL	[NT]
Date extracted					21	28/06/2018	28/06/2018			
Date analysed					21	28/08/2018	28/06/2018			
HCB	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
ilpha-BHC	mg/kg	0.1	Org-005		21	<0.1	×0.1	0		
gamma-BHC	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
beta-BHC	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Heptachics	mg/kg	0.1	Org-005		21	<0.1	<0.1	۵		
delta-BHC	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Aldrin	mg/kg	0.1	Org-005		21	<0.1	40.1	0		
Heptachlor Epoxide	mg/kg	0.1	Org-005		21	40.1	40 f	0		
gamma-Chlordane	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
alpha-chlordene	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Endosulfan I	mg/kg	0.1	Org-005		21	<0.1	<0.1	O.		
pp-DDE	mg/kg	0.1	Org-005		21	<0.1	<0.1	Ď.		
Dieldrin	mg/kg	0.1	Org-905		21	<0.1	40.1	0		
Endrin	mg/kg .	0.1	Org-005		21	<0.1	<0.†	.0		
pp-DDD	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Endosulfan II	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
pp-DDT	mg/kg	0.1	Org-005		21	<0.1	<0.1	0		
Endrin Aldehyde	mg/kg	0.1	Org-005		21	<0.1	40.1	0		
Endosulfan Sulphate	mg/kg	0.1	Org-005		21	<0.1	40.1	0		
Methoxychlor	mg/kg	0.1	Org-005		21	<0.1	<0.1	. D		
Surrogate TCMX	5		Org-005		21	116	119	3		

Envirolab Reference 194926 Revision No. R00 FMBE | 57 of 66

QUALITY CO	NTROL Organ	naphospha	us Pesticides			Du	plicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LC8-5	194926-22	
Date extracted	-			28/06/2018	1	28/06/2018	28/06/2018		28/08/2018	28/06/2018	
Date analysed	-			28/08/2018	1	28/08/2018	28/06/2018		28/08/2018	28/06/2018	
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	Y	≪0.1	<0.1	0			
Bromophos-ethyl	mgrkg	0.1	Org-008	<0.1	1	<0.1	√0.1	0			
Chlarpyriphos	mg/kg	0.1	Org-008	<0.1	4	<0.1	<0.1	D	94	.98	
Chlorpyriphos-methy!	mg/kg	0.1	Org-008	<0.1	3.	<0.1	<0.1	0			
Diazinon	mg/kg	0.1	Org-008	<0.1	y.	<0.1	<0.1	Ď			
Dichloryos	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	91	96	
Dimethoate	mg/kg	0.1	Org-008	<0.1	2	<0.1	40.1	D			
Ethion	mg/kg	0.1	Org-008	<0.1	7	40.1	40.1	0	97	96	
Fenitrothion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	98	92	
Malathion	mg/kg	0.1	Org-008	<0.1	1	<0.1	<0.1	0	94	87	
Parathion	mg/kg	0.1	Org-008	<0,1	1	<0.1	<0.1	ò	106	104	
Ronnel	mg/kg	0.1	Org-008	<0;1	9	-≪0.1	<0.1	Ů.	103	107	
Surrogate TCMX	-%		Org-008	113	1	120	122	2	115	121	

QUALITY CO	NTROL: Organ	rophospha	us Pesticidas		-	Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	LCS-6	194926-2
Date extracted	-				11	28/08/2018	28/06/2018		28/08/2018	28/06/2018
Date analysed	+				11	28/08/2018	28/06/2018		28/06/2018	28/06/2018
Azinphas-methyl (Guthion)	mg/kg	0.1	Org-008		11	<0.1	<0.1	D		
Bromophos-ethyl	mg/kg	0.1	Org-008		11	<0.1	<0.1	0		
Chlorpyriphos	mg/kg	0.1	Org-008	100	11	<0.1	<0.1	0	96	99
Chlorpyriphos-methyl	mg/kg	0.1	Org-008		11	<0.1	<b>≺0.1</b>	0		
Diazinon	mg/kg	0.1	Org-008	0.0	11	<0.1	40.1	D		
Dichlorvos	mg/kg	0.1	Org-008		11	×0.1	40.1	0	104	98
Dimethoate	mg/kg	0.1	Drg-008		11	<0.1	<0.1	0		
Ethion	mg/kg	0.1	Org-008		11	<0.1	<0.1	0	106	95
Fenitrothion	mg/kg	0.1	Org-008	1981	11	<0.1	<0.1	0	91	96
Malathion	mg/kg	0.1	Org-008		11	<0.1	<0.1	Ö	80	86
Parathion	mg/kg	0.1	Org-008		11	<0.1	<0.1	0	102	108
Ronnel	mg/kg	0.1	Org-008		11	<0,1	40,1	0	105	108
Surrogate TCMX	1.00		Org-008		11	120	120	0	121	123

Commist Reference 194925 Regulation Rec PAGE | 58 of 66

QUALITY CO	NTROL Organ	raphospha!	us Pesticides			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	IMIL	[NT]
Date extracted	-				21	28/06/2018	28/06/2018			
Date analysed					21	28/08/2018	28/06/2018			
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-908		21	<0.1	<0.1	0		
Bromophos-ethyl	mg/kg	0.1	Org-008		21	<0.1	√0.1	.0		
Chlorpyriphos	mg/kg	0.1	Org-008		21	<0.1	<0.1	0		
Chilorpyriphos-methy!	mg/kg	0.1	Org-008		23	<0.1	<0.1	0		
Diazinon	mg/kg	0.1	Org-008		21	<0.1	<0.1	۵		
Dichloryos	mg/kg	0.1	Org-008		21	<0.1	<0.1	0		
Dimethoate	mg/kg	0.1	Org-008		21	<0,1	40.1	0		
Ethion	mg/kg	0.1	Org-008		21	40.1	40.1	0		
Fenitrothion	mg/kg	0.1	Org-008	l let	21	<0.1	<0.1	0		
Malathion	mg/kg	0.1	Org-008		21	<0.1	<0.1	0		
Parathion	mg/kg	0.1	Org-008		21	<0.1	<0.1	Ö		
Ronnel	mg/kg	0.1	Org-008		21	<0.1	<0.1	o-		
Surrogate TCMX	%		Org-008		21	115	119	3		

Envirolab Reference 194926 Revision No. R00 FMBE | 59 of 66

C	DUALITY CONTRO	L PCBs in	Sail			Du	plicate	Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LC8-5	194926-22	
Date extracted				28/06/2018	1	28/06/2018	28/06/2018		28/08/2018	28/06/2018	
Date analysed	1			28/08/2018	1	28/08/2018	28/06/2018		28/08/2018	28/06/2018	
Aroclor 1016	mg/kg	0.1	Org-906	<0.1	۲	<0.1	<0.1	0			
Arocior 1221	mg/kg	0.1	Org-006	<0.1	1	<0.1	≺0.1	.0			
Aroclar 1232	mg/kg	0.1	Org-006	<0.1	4	<0.1	<0.1	0			
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	3	<0.1	<0.1	0			
Araclar 1248	mg/kg	0.1	Org-006	<0.1	Y	<0.1	<0.1	0			
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	100	101	
Aroclar 1280	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0			
Surrogate TCLMX	196		Org-006	113	7	120	122	2	115	121	

	<b>GUALITY CONTRO</b>	L PCBs	Soil			Duplicate			Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	194926-2		
Date extracted	-			100	33	28/08/2018	28/06/2018		28/08/2018	28/06/2018		
Date analysed					11	28/06/2018	28/06/2018		28/06/2018	28/06/2018		
Arociar 1016	mg/kg	0.1	Org-006		11	<0.1	<0.1	0				
Aroclar 1221	mg/kg	0.1	Org-006		11	<0,1	<0.1	0				
Aroclar 1232	mg/kg	0.1	Org-008		11	<0.1	<0.1	D				
Aroclar 1242	mg/kg	0.1	Org-008		11	<0.1	40.1	0				
Araclar 1248	mg/kg	0.1	Org-006	100	11	<0.1	+0.1	0				
Aroclar 1254	mg/kg	0.1	Org-006		11	<0.1	<0.1	0	102	102		
Araclar 1260	mg/kg	0.1	Org-006		51	<0.1	<0.1	D				
Surrogate TCLMX	%		Org-006		11	120	120	0	121	123		

	QUALITY CONTRO	L PCBs I	CONTROL PCBs in Soil				Duplicate				
Test Description	Units	POL	Method	Blank	4	Base	Dup.	RPD	[NT]	INTI	
Date extracted	91				21	28/06/2018	28/06/2018				
Date analysed	-				21	28/08/2018	28/06/2018				
Araclar 1016	mg/kg	0.1	Org-006		21	<0.1	<0.1	0			
Aroclar 1221	mg/kg	0.1	Org-006		21	<0.1	+0.1	0			
Aroclor 1232	mg/kg	0.1	Org-006		21	<0.1	<0.1	0			
Arocior 1242	mg/kg	0.1	Org-006		.21	<0.1	<0.1	0			
Aroclar 1248	mg/kg	0.1	Org-006		21	<0.1	<0.1	0			
Arociar 1254	mg/kg	0.1	Org-008		21	<0.1	<0.1	0			
Aroclor 1260	mg/kg	0.1	Org-006	III.	21	<0.1	<0.1	0			
Surrogate TCLMX	1 16		Org-006		21	116	119	3			

Commist Reference 194925 Rooman Inc. Roo Page | 60 of 66

QUALITY	CONTROL, Acid i	extractable	metals in soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Buse	Dup	RPD	LCS-5	194926-22
Date prepared				28/06/2018	1	28/06/2018	28/06/2018		28/06/2018	28/06/2018
Date analysed	4			29/08/2018	1	29/08/2018	29/06/2018		29/08/2018	29/06/2018
Arsenic	mg/kg	4	Metals-020	<4	Y	<4	44	0	108	85
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	40.4	.0	96	8.4
Chromium	mg/kg	1	Metals-020	<1	4	8	7	13:	103	92
Copper	mg/kg	4	Metals-020	-èt	3	7	7	0	111	112
Lead	mg/kg	. 1	Metals-020	st.	Y	15	15	0	102	96
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	96	103
Nickel	mg/kg	1	Metals-020	<1	1	4	5	22	103	92
Zinc	mg/kg	- 1	Metals-020	-41	7	23	22	4	96	107

QUALITY	QUALITY CONTROL, Acid Extractable metals in soil						plicate	Spike Recovery %		
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	LCS-6	194926-2
Date prepared	-				33	28/08/2018	28/06/2018		28/08/2018	28/06/2018
Date analysed					11	29/06/2018	29/06/2018		29/06/2018	29/06/2018
Arsanic	mg/kg	4	Metals-020		11	₹4	-4	0	103	87
Cadmium	mg/kg	0.4	Metals-020		11	<0.4	<0.4	0	91	91
Chromium	mg/kg	- 1	Metals-020		11	12	11	9	98	100
Copper	mg/kg	1	Metals-020		11	7	7	0	103	111
Lead	mg/kg	1	Metals-020		11	16	16	0	97	98
Mercury	mg/kg	0.1	Metals-021		11	<0.1	<0.1	D	102	100
Nickel	mg/kg	1	Metals-020		51	7	7	0	98	102
Zinc.	mg/kg	7	Metals-020		11	20	- 21	5	95	95

QUALITY	CONTROL: Acid I	xtractable	metals in soil			Du	plicate	Spike Recovery %			
Test Description	Units.	POL	Method	Blank	#	Base	Dup.	RPD	LCS-7	194926-52	
Date prepared	*				21	28/06/2018	28/06/2018		28/05/2018	28/06/2018	
Date analysed					21	29/08/2018	29/06/2018		29/08/2018	29/06/2018	
Arsenic	mg/kg	- 4	Metals-020		21	5	5	0	105	94	
Cedmium	mg/kg	0.4	Metals-020		21	<0.4	-0.4	0	95	94	
Chromium	mg/kg	1	Metals-020		21	20	15	29	101	100	
Copper	mg/kg	1	Metals-020		21	15	14	7	106	108	
Lead	mg/kg	1	Metals-020		21	21	20	5	99	94	
Mercury	mg/kg	0.1	Metals-021		21	≺0.1	<0.1	0	102	103	
Nickel	mg/kg	7	Metals-020	In the second	21	17	16	6	101	101	
Zinc	mg/kg	1	Metals-020		21	52	51	2	96	89	

Commist Weterence 194926 Rooms (W.) Fyline | 61 of 66

QUALITY	CONTROL, Acid I	Extractable	metals in soil			Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	PATT	INT
Date prepared					31	28/06/2018	28/06/2018			
Date analysed	4				31	29/08/2018	29/06/2018			
Arsenic	mg/kg	4	Metals-020		31	<4	44	0		
Cadmium	mg/kg	0.4	Metals-020		31	<0.4	<0.4	.0		
Chromium	mg/kg	1	Metals-020		31	10	8	22		
Copper	mg/kg	3	Metals-020		31	4	4	0		
Lead	mg/kg	-1	Metals-020		31	15	14	7		
Mercury	mg/kg	0.1	Metals-021		31	<0.1	<0.1	0		
Nickel	mg/kg	- 1	Metals-020		31	3	3	0		
Zinc	mg/kg	11	Metals-020		31	15	14	7		

QUALITY	CONTROL Acid	Extractable	metals in sail			Du	plicate		Spike Recovery %		
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	[NT]	INT	
Date prepared	-			11=1	51	28/08/2018	28/06/2018				
Date analysed					51	29/06/2018	29/06/2018				
Arsanic	mg/kg	4.	Metals-020		51	<4	-4	0			
Cadmium	mg/kg	0.4	Metals-020		51	<0.4	<0.4	0			
Chromium	mg/kg	- 1	Metals-020		51	9	9	.0			
Copper	mg/kg	1	Metals-020		51	4	5	22			
Leed	mg/kg	1	Metals-020		51	12	14	15			
Mercury	mg/kg	0.1	Metals-021		51	<0.1	<0.1	D			
Nickel	mg/kg	1	Metals-020		51	4	5	22			
Zinc	mg/kg	1	Metals-020		51	16	16	0			

Envirolab Reference 194925 Revision No. R00 Phile | 62 of 66

QUAL	ITY CONTROL I	Duplicate				Spike Recovery %				
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	INTI	[NT]
E Coli in sail	MPN/100g	200	Ext-008	<200						
Salmonella*	50g	0	Ext-008	<0	311					
Faecal Coliforms in soil	MPN/100g	200	Ext-008	<200						

Covered No. 194926

FMBE | 63 of 66

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

	The state of the s
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC.

104928

-

#### Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request



65 of 66

## Report Comments

104926

0000

Salmonella analysed by Sonic Food & Water Testing, Report No.W1812419 and W1812420.

E Coli and Faecal coliform analysed by Sonic, report no W1812421 and W1812422.

Asbestos: A portion of the supplied samples were sub-sampled for asbestos analysis according to Envirolab procedures.

We cannot guarantee that these sub-samples are indicative of the entire sample.

Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples were sub-sampled from jars provided by the client.

66 of 66

	Douglas F	Partners	60
Project Project	Name: No: ntact Perso	1901.	11
Sample ID	Date Sampled	Sample Type S-soil W-water	L
1184	wh	Alm	Γ
Pt 5721	1 23/6	ALM	
20 -2.1	24/6	Soil	
Mat 1	22/6	Aun	
11.10	990	10-	,

# CHAIN OF CUSTODY DESPATCH SHEET

a 25 i	45 at 1	Sample	500	200220					Analytes	5	inta Hurst			aturanean.	77.650
Sample ID	Date Sampled	Type S-soil W-water	Lab ID	pН	CEC	Clay Content	1916	stos	Asbe	107.	CUN	1603		TCLP	Notes
11.184	wh	Alm	1				4						apple .	ja co	12 Aphley St
+ 9721	1 2016	Alm	2	17			×				19		Job 1		1: (02) 9910 6200
1.52.0	WIL	Soil	3						×				Colul	Doceived:	11.7.18.
Wat 1	22/6	Aun	4				×						i me	eceived:	11000
Met 2	li.	Arm	×				×						(cnip	C60NAmbi	nt
Mr 3	V	Arm	6				×						~aqu	;: loe/loep ;: intact/3	ckeni <b>Nasn</b>
244	20/6	Alm	7				×								
301-25	2516.	Soil	8								X				
301-22		Sort	9								×				
-															
PQL (S)		mg/kg			-			+							
PQL (W)		mg/L			L									1	
# - Metals Date reline Fotal num	to-Analyse quished: .\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(Please cin	cle): @ ainer:	As Cd C	Cu Pb	(Detection Lir Zn Hg N)Mr	rFe	Please :	ES RECEIVEI sign and date of samples an	to ackno	by fax	Douglas Address PO BO	X 1487 FYSH	WICK	

M:/Environmental/QA-QC/AmendedC-O-C.doc

Rev5/June 2008



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

# SAMPLE RECEIPT ADVICE

Client	Douglas Partners Canberra	
Attention	Peter Storey	

Sample Login Details		
Your reference	46162.12, North Tralee DSI	
Envirolab Reference	195963	
Date Sample Received	11/07/2018	
Date Instructions Received	11/07/2018	
Date Results Expected to be Reported	18/07/2018	

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	9 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12.0
Cooling Method	None
Sampling Date Provided	YES

Comments		
Nil		

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Vingings of an effect of its Sau	SVITTH (CVB-CAU) IN BOIL	PAlis in Soll	Well Extroctable metalem au	Andreas (Distriction)	ASSESSED IN - SOUR INCOME.
Pit57-1.0-1.1					1	
Pit57-2.0-2.1					1	
Pit57-2.0-2.1						1
Mat 1					1	
Mat 2					1	
Mat 3					1	
22 Surf			П		1	
BD1-25	1	1	1	1		
BD1-22	1	1	1	1		

The '√' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

#### Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

#### **CERTIFICATE OF ANALYSIS 195963**

#### **Client Details**

Client Douglas Partners Canberra

Attention Peter Storey

Address PO Box 1487, Fyshwick, ACT, 2609

#### Sample Details

Your Reference 46162.12, North Tralee DSI

Number of Samples 9 Soil

Date samples received 11/07/2018

Date completed instructions received 11/07/2018

#### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

#### Report Details

 Date results requested by
 18/07/2018

 Date of Issue
 18/07/2018

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing, Tests not covered by NATA are denoted with "

#### Asbestos Approved By

Analysed by Asbestos Approved Identifier Matt Tang Authorised by Asbestos Approved Signatory Lucy Zhu

#### Results Approved By

Long Pham, Team Leader, Metals Lucy Zhu, Asbsestos Analyst Steven Luong, Senior Chemist

#### **Authorised By**

Jacinta Hurst, Laboratory Manager





CANADA A 68:48

Our Reference		195963-8	195963-9
Your Reference	UNITS	BD1-25	BD1-22
Depth			~
Date Sampled		25/06/2018	22/06/2001
Type of sample		Sall	Sail
Date extracted	-	12/07/2018	12/07/2018
Date analysed	3	13/07/2018	13/07/2018
TRH Co - Co	mg/kg	<25	<25
TRH Ce = Ce	mg/kg	<25	<25
VTPH Co · Con less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	< 0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1.
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate asa-Trifluorotoluene	**	98	97

Caryonalan (Carrown = 195963 (C00 1 (m) 2 of 18

Our Reference		195963-8	195963-9
Your Reference	UNITE	BD1-25	BD1-22
Depth			-
Date Sampled		25/06/2018	22/05/2001
Type of sample		500	Sail
Date extracted		12/07/2018	12/07/2018
Date analysed	9	12/07/2018	12/07/2018
TRH Cin - Cis	mg/kg	<50	<50
TRH Cts - Cas	mg/kg	<100	<100
TRH Cox - Cas	mg/kg	<100	<100
TRH >C++-C++	mg/kg	<50	<50
TRH >C+# - C+# less Naphthalene (F2)	mg/kg	<50.	<50
TRH >C16-C11	mg/kg	<100	<100
TRH >C <sub>24</sub> -C <sub>42</sub>	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	92	91

195963 (100 D/1111 3 of 18

PAHs in Soil Our Reference		155963-8	195963-9
	UNITE	271170.7	2000
Your Reference	THUE	BD1-25	BD1-22
Death			
Date Sampled		25/06/2018	22/06/2001
Type of sample		(50)	Sail
Date extracted		12/07/2018	12/07/2018
Date analysed	1	13/07/2018	13/07/2018
Naphthalene	mg/kg	<0 1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaptithene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b.j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	≤0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g.h.i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%.	114	106

English (4000000 195963) R00 1 4 of 18

Our Reference		195963-8	195963-9
Your Reference	LIMITS	BD1-25	BD1-22
Depth			-
Date Sampled		25/06/2018	22/06/2001
Type of sample		500	Sail
Date prepared		12/07/2018	12/07/2018
Date analysed	9	12/07/2018	12/07/2018
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	10	10
Copper	mg/kg	7	8
Lead	mg/kg	18	21
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	.5	6
Zinc	mg/kg	32	53

Cargo and 10 movem = 195953

1 5 of 18

Moisture			-
Our Reference		195963-8	195963-9
Your Reference	UNITS	BD1-25	BD1-22
Depth		-	-
Date Sampled		25/06/2018	22/06/2001
Type of sample		500	Sail
Date prepared		12/07/2018	12/07/2018
Date analysed		13/07/2018	13/07/2018
Moisture	**	6.7	6.4

Carpendad I (\*\*\*\*\*\*\*\*\*\* 195953

Dag 6 of 18

	195963-1	195963-2	195963-4	195963-5	195963-6
UMTE	PH57	Pit67	Mat 1	Mat 2	Mat 3
	1.0-1.1	20-21	-	9	
	20/06/2018	20/96/2018	22/05/2018	22/05/2018	22/06/2018
	500	Soil	800	Soil	Sail
	17/07/2018	17/07/2018	17/07/2018	17/07/2018	17/07/2018
-	140x47x5mm	210x90x5mm	90x90x5mm	85x56x5mm	130x95x4mm
3	Beige compressed fibre cement material	Beige compressed fibre cement material	Beige compressed fibre cement material	Peach compressed fibre cement material	Peach compressed fibr cement materia
	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected Amosile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected Amosite asbestos detected Organic fibres	Chrysotile asbestos detected Organic fibres detected
		UNITE PHS7  10-1-1  20/06/2016  Soil  17/07/2018  140x47x5mm  Beige compressed fibre cement material  Chrysottle asbestos detected  Amosite asbestos	UNITS PHS7 PHS7  10-1.1 2-0-2-1  20/06/2016 20/06/2018  Soil Soil  17/07/2018 17/07/2018  140x47x5mm 210x90x5mm  Beige compressed fibre compressed fibre cement material  Chrysotile asbestos detected  Amosite asbestos asbestos asbestos asbestos	UNITE	UNITE

(00)

Type 7.6f.18

Our Reference		195963-7
Your Reference	UNITS	22 Surf
Depth		
Date Sampled		20/06/2016
Type of sample		Soli
Date analysed		17/07/2018
Mass / Dimension of Sample	8	145x37x5mm
Sample Description	-	Beige compressed fibre cement material
Asbestos ID in materials	- 2	No asbestos detected
		Organic Fibres detected

(1991) | (1991) | (196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 196963 | 19

E of 18

Asbestos ID - solls NEPM		195963-3
4 ( )		1100000
Your Reference	UNITE	Pit57
Death		2.0-2.1
7me Sampled		20/06/2018
Type of sample		ami
Date analysad		16/07/2018
Sample mass tested	1	1,467,53
Sample Description		Grey coarse- grained soil & tocks
Asbestos ID in soil (AS4964) >0,1g/kg	-	Chrysotile asbestos detected
		Amosite astestos detected
		Organic fibres detected
Trace Analysis	1.5	No asbestos detected
Total Asbestos*1	u/kg	4.8350
Asbestos ID in soil <0.1g/kg*	*	See Above
ACM >7mm Estimation*	9	7.0901
A and AF Estimation"	g	0,0054
A and AF Estimation*#2	16(w/w)	<0.001

195963 100 1 9 of 18

Method iD	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polansed Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule 81 and "The Guidelines from the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0,1g/kg (0,01% w/w) as per Australian Standard AS4964-2004.  Results reported denoted with "are putside our scope of NATA accreditation.
	NOTE ** Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm and FA/AF)
	NOTE 10. The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.
	Estimation = Estimated asbestos weight
	Results reported with "-" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques
BOG-grant	Moisture content determined by heating at 105*/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-PID, F2 = (>C10-C16)-Naphthalene as per NEPM 81 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1/ (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID
	F2 = (>C10-C16)-Naphthalene as per NEPM 81 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1/ (3, 4)). Note Naphthalene is determined from the VOC analysis.
	Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40):



10 of 16

1 50h y

(202)

## Client Reference: 46162.12, North Tralee DSI

Method ID	Methodology Summary
Org-012	Soil samples are extracted with Dichloromethane/Acetonic and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results - 1. "EQ PQL values are assuming all contributing PAHs reponded as <pql "eq="" "total="" 2.="" 3.="" <pql="" a="" above.="" actually="" all="" and="" approach="" approaches="" are="" as="" assuming="" at="" be="" below="" between="" but="" calculation="" can="" conservative="" contribute="" contributing="" eq="" faise="" false="" give="" given="" half="" hence="" individual="" is="" least="" lowest="" may="" mid-point="" more="" most="" negative="" not="" note,="" of="" pahs="" pahs"="" pahs.<="" positive="" pql="" pql.="" present="" reflective="" reported="" rive="" simply="" stipulated="" sum="" susceptible="" td="" teq="" teqs="" that="" the="" therefore="" this="" to="" total="" values="" when="" zero="" zero.=""></pql>
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS
Org-016	Soil samples are extracted with methanol and spiked into water grior to analysing by purge and trap GC-M5. Water samples are analysed directly by purge and trap GC-M5. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.  Note, the Total +ve Xylenis POL is reflective of the lowest individual POL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

77 nr 16

QUALITY CON	QUALITY CONTROL VTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery 9	
Test Description	Units	PQL	Method	Blank	Ħ	Base	Dup	RPD	LCS-1	[NT]	
Date extracted	-			12/07/2018	П				12/07/2018		
Date analysed	-			13/07/2018					13/07/2018		
TRH C <sub>1</sub> - C <sub>5</sub>	mg/kg	25	Org-016	<25	-				84		
TRH C <sub>6</sub> - C <sub>10</sub>	mg/kg	25	Org-016	<25					84		
Benzene	mg/kg	0.2	Org-016	<0.2	Н				82		
Taluene	mg/kg	0.5	Org-016	<0.5					Bt		
Ethylbenzene	mg/kg	1	Org-016	st	Н				78.		
n+p-xylene	mg/kg	2	Org-016	<2					89		
z-Xylene	mg/kg	1	Org-016	<1					78		
naphthalene	mg/kg	4	Org-014	-41							
Surrogate aaa-Trifluorotoluene	20		Org-016	101					101		

Envirolab Reference 195963 Revision No. Roo Phise | 12 of 18

QUALITY	QUALITY CONTROL, syTRH (C10-C40) in Spil							_	Spike Recovery %		
Test Description	Units	POL	Method	Blank	Ħ	Base	Dup	RPD	LCS-1	[NT]	
Date extracted	-			12/07/2018	П				12/07/2018		
Date analysed				12/07/2018	ш				12/07/2018		
TRH C <sub>W</sub> - C <sub>W</sub>	mg/kg	50	Org-003	450	-				117		
TRH C <sub>15</sub> - C <sub>28</sub>	mgrkg	100	Org-003	<100					101		
TRH C <sub>29</sub> - C <sub>38</sub>	mg/kg	100	Org-003	<100					92		
TRH >C <sub>10</sub> -C <sub>10</sub>	mg/kg	50	Org-003	<50					117		
TRH >C <sub>16</sub> ·C <sub>36</sub>	mg/kg	100	Org-003	¢100	Н				101		
TRH > C <sub>34</sub> +C <sub>48</sub>	mg/kg	100	Org-003	4100					92		
Surrogate o-Terphenyl	16		Org-003	92	-				109		

English Reference 195963 Revision No. R00 PAGE | 13 of 18

QUA	LITY CONTRO	L PAHS	Sail		Duplicate				Spike Recovery 9		
Test Description	Units	POL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]	
Date extracted	-			12/07/2018					12/07/2018		
Date analysed	-			13/07/2018					13/07/2018		
Naphthalene	mg/kg	0.1	Org-012	<0.1					115		
Acenaphthylene	mg/kg	0.1	Org-012	<0.1				10			
Acenaphthene	mg/kg	0.1	Org-012	<0.1	н						
Fluorene	mg/kg	0.1	Org-012	<0.1					110		
Phenanthrene	mg/kg	0.1	Org-012	<0.1	Н				119		
Anthracens	mg/kg	0.1	Org-012	<0.1	М						
Fluoranthene	mg/kg	0.1	Org-012	<0.1	100		100		121		
Pyrene	mg/kg	0.1	Org-012	<0.1					128		
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1				1			
Chrysene	mg/kg	0.1	Org-012	<0.1					97		
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	Н						
Berizo(a)pyrene	mg/kg	0.05	Org-012	<0.05					101		
ndeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-512	<0.1							
Dibenzo(a,h)enthrecene	mg/kg.	0.1	Org-012	<0.1							
Benzo(g.h.i/perylene	mg/kg	0.1	Org-012	<0.1				-			
Surrogate p-Terphenyl-d14	4		Org-012	109					114		

Envirolab Reference 195963 Revision No. Roo Page | 14 of 18

QUALITY	CONTROL, Acid I	Extractable	metals in soil			Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup	RPD	LCS-1	[NT]
Date prepared				12/07/2018					12/07/2018	
Date analysed	4			12/07/2018	ш				12/07/2018	
Arsenic	mg/kg	4	Metals-020	-64					116	
Cadmium	mg/kg	0.4	Metals-020	<0.4				13	105	
Chromium	mg/kg	1	Metals-020	<1					112	
Copper	mg/kg	3	Metals-020	-et					117	
Lead	mg/kg	.1	Metals-020	-51	Н				110	
Mercury	mg/kg	0.1	Metals-021	<0.1	М				118	
Nickel	mg/kg	1	Metals-020	<1	-				112	
Zinc	mg/kg	-1	Metals-020	-41					106	

Envirolab Reference 195963 (Yevelop Ro. Roo Phills | 15 of 18

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported
Quality Contro	ol Definitions
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E. Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

are similar to the analyte of interest, however are not expected to be found in real samples.

with analytes representative of the analyte class. It is simply a check sample

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which

195967 (100)

-

LCS (Laboratory

Control Sample)

Surrogate Spike

#### Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals, 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenois is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively. The sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended lechnical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request

## Report Comments

Asbestos-ID in soil NEPM

1 506 5

(200)

This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation

7E 67 16

	Inputs
Select cont	aminant from list below
	As
	ed to calculate fresh and aged
ACLs	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Relow need	led to calculate fresh and aged
ABCs	led to calculate fresh and ages
or for fresh	ABCs only
or for firedit	
or for aged	ABCs only

Outputs								
Land use	Arsenic generic EIL							
	Fresh	Aged						
National parks and areas of high conservation value	20	40						
Urban residential and open public spaces	50	100						
Commercial and Industrial	80	160						

	Inputs
Select o	contaminant from list below
	Cu
	needed to calculate fresh and aged
ACLs	
	ation exchange capacity (silver
	a method) (values from 0 to 100
cmolc/k	(g dwt)
	200
	21.4
	oil pH (calcium chloride method) from 1 to 14)
	8.7
Enter o	rganic carbon content (%OC)
	from 0 to 50%)
	needed to calculate fresh and aged
Below r ABCs	needed to calculate fresh and aged
	needed to calculate fresh and aged
ABCs Measur	ed background concentration
ABCs Measur	
ABCs Measur (mg/kg)	ed background concentration Leave blank if no measured value
Measur (mg/kg)	ed background concentration Leave blank if no measured value resh ABCs only
Measur (mg/kg) or for fr Enter in	ed background concentration Leave blank if no measured value
Measur (mg/kg) or for fr Enter ir (values	ed background concentration Leave blank if no measured value resh ABCs only on content (aqua regia method)
Measur (mg/kg) or for fr Enter ir (values	ed background concentration Leave blank if no measured value resh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o
Measur (mg/kg) or for fr Enter ir (values backgro	ed background concentration Leave blank if no measured value resh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o
Measur (mg/kg) or for fr Enter ir (values backgro	ed background concentration Leave blank if no measured value resh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o
Measur (mg/kg) or for fr Enter ir (values backgro	ed background concentration Leave blank if no measured value resh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o ound concentration ged ABCs only
Measur (mg/kg) or for fr Enter ir (values backgro or for a Enter S	ed background concentration Leave blank if no measured value resh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o pund concentration ged ABCs only tate (or closest State)

Ou	itputs	
Land use	Cu soil-specific El	
	Fresh	Aged
National parks and areas of high conservation value	#NUMI	85
Urban residential and open public spaces	#NUMI	230
Commercial and Industrial	#NUMI	320

	Inputs
Select conta	iminant from list below
7	DOT
Below need ACLs	ed to calculate fresh and aged
ACLS	
Below need	ed to calculate fresh and aged
ABCs	
or for fresh	ABCs only
or for aged .	ABCs only

Outputs			
Land use	DDT generic EILs		
	Fresh	Aged	
National parks and areas of high conservation value	3	3	
Urban residential and open public spaces	180	180	
Commercial and Industrial	640	640	

Inputs	
Select contaminant from list below	
Naphthalene	
Below needed to calculate fresh and a	ged
ACLS	
	_
National and address of the state and a	
Below needed to calculate fresh and a ABCs	geo
1003	_
or for fresh ABCs only	
or for aged ABCs only	

Ou	itputs	
Land use	Naphthalene generic EIL (mg contaminant/kg dry soll)	
	Fresh	Aged
National parks and areas of high conservation value	10	10
Urban residential and open public spaces	170	170
Commercial and Industrial	370	370

	Inputs
Select	contaminant from list below
	NI
	needed to calculate fresh and aged
ACLs	
	ration exchange capacity (silver a method) (values from 0 to 100
	kg dwt)
	21,4
	21,4
_	
Palow	needed to calculate fresh and area
	needed to calculate fresh and aged
Below ABCs	needed to calculate fresh and aged
	needed to calculate fresh and aged
ABCs	
ABCs Measu	red background concentration
ABCs Measu	
ABCs Measu	red background concentration
ABCs Measur (mg/kg	red background concentration
ABCs Measur (mg/kg	red background concentration ), Leave blank if no measured value
Measur (mg/kg or for f	red background concentration ). Leave blank if no measured value resh ABCs only ron content (aqua regia method)
Measur (mg/kg or for f Enter in	red background concentration ). Leave blank if no measured value resh ABCs only ron content (aqua regia method) i from 0 to 50%) to obtain estimate o
Measur (mg/kg or for f Enter in	red background concentration ). Leave blank if no measured value resh ABCs only ron content (aqua regia method)
Measur (mg/kg or for f Enter in	red background concentration ). Leave blank if no measured value resh ABCs only ron content (aqua regia method) i from 0 to 50%) to obtain estimate o
Measur (mg/kg or for f Enter i (values backgr	red background concentration ). Leave blank if no measured value resh ABCs only reon content (aqua regia method) is from 0 to 50%) to obtain estimate o ound concentration
Measur (mg/kg or for f Enter i (values backgr	red background concentration ). Leave blank if no measured value resh ABCs only ron content (aqua regia method) i from 0 to 50%) to obtain estimate o
Measur (mg/kg or for f Enter i (values backgr	red background concentration ), Leave blank if no measured value resh ABCs only ron content (aqua regia method) i from 0 to 50%) to obtain estimate o ound concentration aged ABCs only
Measur (mg/kg or for f Enter i (values backgr	red background concentration ). Leave blank if no measured value resh ABCs only reon content (aqua regia method) is from 0 to 50%) to obtain estimate o ound concentration
Measur (mg/kg or for f Enter i (values backgr	red background concentration ). Leave blank if no measured value resh ABCs only ron content (aqua regia method) i from 0 to 50%) to obtain estimate o ound concentration aged ABCs only State (or closest State)
Measur (mg/kg or for f Enter i (values backgr	red background concentration ), Leave blank if no measured value resh ABCs only ron content (aqua regia method) i from 0 to 50%) to obtain estimate o ound concentration aged ABCs only
Measur (mg/kg or for f Enter i (values backgr or for a	red background concentration ), Leave blank if no measured value resh ABCs only ron content (aqua regia method) if rom 0 to 50%) to obtain estimate o ound concentration aged ABCs only State (or closest State) NSW
Measur (mg/kg or for f Enter i (values backgr or for a	red background concentration ). Leave blank if no measured value resh ABCs only ron content (aqua regia method) i from 0 to 50%) to obtain estimate o ound concentration aged ABCs only State (or closest State)

Ou	itputs	
Land use	Ni soil-specific El	
National parks and areas of	Fresh	Aged
high conservation value	#NUMI	55
Urban residential and open public spaces	#NUMI	280
Commercial and Industrial	#NUMI	480

Ou	itputs	
Land use	Lead generic ElLs	
	Fresh	Aged
National parks and areas of high conservation value	110	470
Urban residential and open public spaces	270	1100
Commercial and Industrial	440	1800

	Inputs
Selec	t contaminant from list below
	Cr_III
Below ACLs	r needed to calculate fresh and aged
-	
Enter	% clay (values from 0 to 100%)
	% clay (values from 0 to 100%) 10
Below ABCs Meas	10 v needed to calculate fresh and aged
Below ABCs Meas (mg/k	needed to calculate fresh and aged
Below ABCs Measi (mg/k or for Enter (value	needed to calculate fresh and aged ured background concentration g). Leave blank if no measured value
Below ABCs Measi (mg/k or for Enter (value backs	red background concentration g). Leave blank if no measured value fresh ABCs only fron content (agua regia method) is from 0 to 50%) to obtain estimate o
Below ABCs Measi (mg/k or for Enter (value backs or for	red background concentration g). Leave blank if no measured value fresh ABCs only iron content (agua regia method) es from 0 to 50%) to obtain estimate o
Below ABCs Measi (mg/k or for Enter (value backs or for	red background concentration g). Leave blank if no measured value fresh ABCs only fron content (aqua regia method) es from 0 to 50%) to obtain estimate of pround concentration aged ABCs only
Below ABCs Meass (mg/k or for Enter (yalue backs or for Enter	red background concentration g). Leave blank if no measured value fresh ABCs only iron content (aqua regia method) is from 0 to 50%) to obtain estimate of ground concentration aged ABCs only State (or closest State)
Below ABCs Meass (mg/k or for Enter (yalue backs or for	red background concentration g). Leave blank if no measured value fresh ABCs only fron content (aqua regia method) es from 0 to 50%) to obtain estimate of pround concentration aged ABCs only State (or closest State) NSW

Outputs		
and use Cr III soll-sp		
	Fresh	Aged
National parks and areas of high conservation value	#NUMI	140
Urban residential and open public spaces	#NUMI	-410
Commercial and Industrial	#NUMI	670

	Inputs
Select c	contaminant from list below
	Zn
Below r	eeded to calculate fresh and aged
ACLS	STATE OF THE PARTY
Enter ca	ation exchange capacity (silver
thiourea	method) (values from 0 to 100
cmolc/k	g dwt)
	21.4
Enter se	oil pH (calcium chloride method)
	from 1 to 14)
	8.7
	needed to calculate fresh and aged
ABCs	
ABCs Measur	needed to calculate fresh and aged ed background concentration , Leave blank if no measured value
ABCs Measuri (mg/kg)	ed background concentration
Measuri (mg/kg) or for fr Enter in	ed background concentration Leave blank if no measured value esh ABCs only on content (aqua regia method)
Measuri (mg/kg) or for fr Enter in (values	ed background concentration Leave blank if no measured value esh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o
Measuri (mg/kg) or for fr Enter in (values	ed background concentration Leave blank if no measured value esh ABCs only on content (aqua regia method)
Measuri (mg/kg) or for fr Enter in (values backgro	ed background concentration Leave blank if no measured value esh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o
Measuri (mg/kg) or for fr Enter in (values backgro	ed background concentration Leave blank if no measured value esh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o
Measuri (mg/kg) or for fr Enter in (values backgro	ed background concentration , Leave blank if no measured value esh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o ound concentration ged ABCs only
ABCs Measuri (mg/kg) or for fr Enter in (yalues backgro or for a	ed background concentration Leave blank if no measured value esh ABCs only on content (aqua regia method) from 0 to 50%) to obtain estimate o pund concentration ged ABCs only tate (or closest State)

Oi	itputs	
Land use	Zn soil-sp	
	Fresh	Aged
National parks and areas of high conservation value	#NUMI	240
Urban residential and open public spaces	#NUM1	B10.
Commercial and Industrial	#NUMI	1200

1, 19,11   Plany just years   10,					TABLE J1 Assestors in Boil Cultrilation Resea Analysis	Birty Die	Ass Content 15 %						
Page   Deck						Asibesitis	Criteria Suwiw Comusercial						
1.00   1.00	N		Breds	Sample Volume	Asbestos Malural Observed	Soll sampling	Weight of Asbestos Sample	Sample	Astrolo s = Soli (Sweet				
2   0.007   Patr grandly well   0.0   None theory   0.00   0.000   0	1		Filing (set) sand	10	) Ene abserved								
2   10.11   Filing Dalley and State   10.000	2	0.0-0.1	Fitting (gravelly special)	10	Faine abserved	10.6		0.000	0.000				
3   1.11   Filery Lateral   16   More cleanned   10   1   900   90	3	1100	Filling (olayery salant)		None observed								
1   10   11   Printy Delay rated   10   10   10   10   10   10   10   1	3	1.0-1.1	Friling (althy sand)	16	Nore district	304		0.000	0100				
1													
1.1.1   Falls Alley Australia   10   Nerre Observed   11.5   10.000   0.000		0.0-0.1	Tilling (standy sate)	10	lions observed	300		35,000	0.000				
B.   Do.   Frieng Leith period   10   More clearword   15   Do.	5		Filling (sifty swint)		Name observed								
7   10.15   Piling Landy (1987)   16   More discoved   12.5   10.000   10	1	0.0-0.1	Friting (sittly surrel)	- 10	None observed	15		0.000	3.000				
1.50.51   Pring plant part    70   Nere abserved   13.5   1.50.5	1	-	Hilling (sandy clay)			30.80		0.000	0.000				
2   10-11   Fing (state), stay   10   Nere staward   14.8   17.00   10.00	-	100,000	the state of the s	the second of		A STATE OF THE PARTY OF THE PAR							
2   20-07   Printy Instity Comp.   10   Name observed   11-18   0.000   2.000			Filing (alty sand)		None sherved								
## 1-1-11   Fairg Intertic Grow)   10   Mirre Chervord   11   11   0.000   2.000	3	0.0-0.1	HATQ (SAND) CRY)	10	krije strenvest	10,6		-0.600	9.000				
10   20   17   Palog (str) (str)   10   10   14   10   10   10   10   10			Ferry (swintly disty)		None charged								
10   10-01   Filling (size) (str)   10   Nere alterword   15-5   0.000   21-	10	2021	Filling (nit) clay)	10	Nure observed	-1111		0.000	0100				
10			Filing (ntly day)										
12   10-11   Filley (samply, still   10   Same chorrent   10-2   0.000   0.0	12	0.0-0.1	Filling (swindy-cay)	70	Name stewayork	75.0		10.000	0.000				
13			Filling (sandy salt)		hane observed.								
14   10.11   Falory stays and   10   Falory stays are   10.00   0.00	12	0.0-0.1	Filling (sandy still)	10		13.6		B 600	2,000				
19   19-01   Filtry (stry) and   10   Nove conserved   10.07		8,8-0,1.	Filing (sety clay)		Nune observed			0.000	0.000				
15   15   17   17   17   18   18   18   18   18	15	0.0-0.1	Piling (stry hand)	. 10		10.6		0.000	0.000				
16   0-00   Filling (grinesis) series   10   Mont observed   13.6   0.000			Friting (sittly saind)		Noted Stoversest								
17   30-50   Feeg (starty case)   10   Market Chearyong   10.0   3.000   3.0		0.0-0-1	Friing (gravely sand)	10	None observed	13.6		0,000	0.000				
18   39.0   Filting party cosy   10   Interest claserwed   12.1   0.000   0.100			Filling (Nitty Clery)						0.000				
18   10-01   Famp (skry cert)   10   Leine observed   10-0   10-00	. 10		Filing (sift) disyl		hitre abserved			0.000	0.1100				
10.51   Filmy (Littleyer same)   (0   Internet Countried   12-8   0.000   0.000   0.000			Filing (nity trey)		Tanne observed				0.000				
21   0.0-0.1   Palary (standy cell)   10   Name observed   13.5   0.000   3.000			Filmy (clayer sand)										
22		0.0-0.1	Etling (standy sitt)		Nane observed								
23   0.0-0.1   Filtrig (plane) (bit)   10   Nore observed   13.9   0.000   0.000	22		Filing (Sandy Clay)	- till -		12.7		0.000	3100				
24   0.0-6.1   Topical living   10.   Name observed   10.0   U.R.C.   0.000   0.000		0.0-0.1	Filling (Namely skill)		Nune observed								
25   0.0.01   Filmy (glavel) sentil   10   Nore observed   17   0.000   3.00													
25   3.5.0	25	0,0,01		10.	None observed	10.0.		HAME	2.004				
28   0.0-11   Filtry (stry same)   15   0.000   0.00	25	0.5-0/W	the second secon	10		172.1							
20   0.0-6   Filting (growthy series)   10   Norm observed   10-6   0.000			Filtry (city care)		Name (Danyett				0.000				
20	7.5.1	200						100	1.3				
20   0.0   Filing (stry day)   10   None observed   10.6   0.000   200			c east diamet mount	-	Table diagnosi	-		0.000	9,000				
1				-									
27   0.0-0.5   Filing (glavetly sand)   10   Name observed   10.1   10.00   2.000													
20   0.0   Filting (safty annet)   10   Name observed   15.1   10.00   0.000     20   0.0   10.1   10.1   10.1   10.1   10.1   10.00   0.000     20   0.0   10.1   10.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1   10.1     20   20   20.1   10.1   10.1   10.1   10.1   10.1   10.1     20   20   20   20.1   10.1   10.1   10.1   10.1   10.1     20   20   20   20.1   10.1   10.1   10.1   10.1   10.1     20   20   20   20.1   10.1   10.1   10.1   10.1     20   20   20   20.1   10.1   10.1   10.1   10.1   10.1     20   20   20   20.1   10.1   10.1   10.1   10.1   10.1     20   20   20   20.1   10.1   10.1   10.1   10.1   10.1     20   20   20   20.1   20.1   20.1   20.1   20.1   20.1     20   20   20   20.1   20.1   20.1   20.1   20.1   20.1     20   20   20   20.1   20.1   20.1   20.1   20.1   20.1   20.1     20   20   20   20.1   20	-	100000000000000000000000000000000000000				-							
27   0.5-0.6   Hilling (hartly city)   19	7.		2.00	100				0.000	9,000				
33   0.5-0.6   Filtro (skit) cannot   10   Rione observed   13.4   0.000   0	37	0.5-0.6	- Filling (sant) clay)	.10	Norwichserved -	35 6		0.000	0.000				
24   20-27   Sity send   10   More observed   12   0.000   0	33	0.0-0.1	Filtry (sity sand)										
10	34	0.0-01	Sity sand	10	Horse observed	9.0		0.000	0.000				
36   0.0-0   Selty server   10						70.5			5100				
20.00   Sarty set   10   Name observed   11.0   0.000   0.000	35	1,034	Sity simil	10-	Nyte abserved	.313		0.000	0.000				
10													
29   0.0-01   Sandy etc.   10   Mane channel   10-6   0.000   0.700	38	0.0-0	Santysit	- (0-	None observed	11.6		0.000	0.000				
20		0001											
20	49	0001	Sandy sile	101	None strierved	12.7		0.000	0.000				
23   25-26   Flang   10   None observed   11.5   20.00   20.00		0.0-0.1				12.3							
50   0.5 0   Filing Calendy Stif   10   Note abserved   13   0.000   0.000	52	0.5-3.6	Farg	100	Tilone stranyell	11,5		70,000	0.000				
50   5.5-2 ft   Filing (gravers) series   10   None steerveet   12.2   0.000   0.000			Filting (samely stiff)										
57   0.9-0.1   Filling   10   None observed   40.3   0.000   5.000	36	0.5-0 8		10		12.2			0.000				
20   1   10   10   10   10   10   10				400	None observed				0.000				
57 2.0.2 + 4849 10 3 Expression (40 cms to 200mm lang) (outerward Custors seed (files 18 22) 5 0.224 0.225 50 0.0.0 1 #8499 placety 641 10 September (malerial) 12.0 0.000 0.000 0.000	20	1.0-11	Mang	fd.		32.2	40.1	0.043	0.046				
58 5.0-0.1 Filing plants 681 10 Name transmit 12.5 0,000 5.000	51	2021	- + mm	10	3 Eugments (40mm to 200mm ang) (poemsé Compressed (the	18	223.5						
	-			10000		40	-		0.33#				
	59	DAGI	Dancty Skit	10	None classified	40.9		D CKE	5 000				

Page 500 of the Planning and Strategy Committee of the Whole of the QUEANBEYAN-PALERANG REGIONAL COUNCIL held 8 May 2019.



#### TABLE J2 SUMMARY OF LABORATORY TEST RESULTS - INORGANICS (mg/kg)

	Depth (m)	Sample Date	Material Type	Arsonic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
PYT1	0.5-0.6	21/06/2018	Filling (silly sand)	-1	-0.6	- 8	7	15	-0.1	- 4	23
P172	20-2.1	21/06/2018 71/06/2018	Filing (clayey sand)	-4	-64	11	- 6	16	-0.1	5	19
PIT3	05-08	21/08/2018	Filling (slayey sand) Filling (sity sand)		-0.4	10	- 0	76	-0	4	19
PITA	05-06	21/06/2018	Filling (clayey sand)	-0-	-04	- 11	5	19	10.4	- 5	19
PITS	1.0-1.1	21/06/2018	Filing (sitty sand)	-2	- 33	13	6	15	10.1	5	20
PSTB	00-01	21/06/2018	Filing (sity sand)	-	-56	70	- 6	13	-01-	4	21
FITE	2021	21/06/2018	Filling (sandy clay)	-31-	-64	16	-7	507	-07.1	5	22
PITE	1.0-1.1	21/06/2019	Filing (silty clay)		-64	- 6	7	10	-0.1	4	21
FITB	0.5-0.6	22/06/2016	Filing (sandy clay)	1		9	. 5	18	10.1	- 6	32
FTT:D	0.0-0.1	22/06/2018	Filing (sandy clay)	-4	-0.0	12	7	18	10.1	7	20
P1710	1.0-1.1	22/06/2018	Filling (silty clay)		-04	10	10	19	101	8	33
PITTE	00-06	25/06/2016	Filing (sandy sit)		-0.0	116	-6	16	-10	1	34
PTT12	2.0-2.1	25/06/2018	Filing (sandy sit)	-3-	-04	7.	5	15	50.1	4	21
PITT3	05-06	25/06/2018	Filing (sandy salt)		10.6	-2-	5	14	111.7	4	22
PITIA	0.5-0.6	25/06/2018		-1-	-65	10	- 6	14	10.1	4	20
PIT14	10-11	25/06/2018	Filling (sandy sitt) Sandy sitt	1	-0.0	10	9	15	30.1	5	21
PITTS-	05-06	22/06/2018	Filling (sitty sand)	1	-64	- 8	9	18	101		30
PITTE	0.0-0.1	21/06/2018		-4	-0-0	12	9	17.	40.	9	32
PIT16	1.0-1.1	21/06/2018	Fring (gravelly said)	-71	36	10	6	13		- 4	16
PITT	0.0-0.1		Sandy clay	- 5	-0.4	30	15	21	-01	17	52
		21/06/2018	Filling (sittly clay)					73			
PITTE	0.0-0.1	71/06/2018	Filling (alty clay)	B.	-00	17.	13		-0.1	16	A6 22
PIT18 Pit19	0508	21/06/2018	Filing (silty ctay)		-0.6	4	19	26	10.1	15	55
	0.5-0.6	20/06/2018	City Conductiv	100			2			5	20
PIT20	0.001	20/06/2018	Filing (sandy silt)	1	- 22	10	4	15	40.1		
FITZO -	10.11	21/06/2018	Sity sand	- 7	26	- 111 - 0	1	1.5	37.	- 5	18
P1721	15-16	21/06/2018	Sandy Clay	- 35	-0.0		- 5	17	1.00		12
P#22	0.0-0.1	20/06/2018	Filing (sandy sitt)	- L	-04	9	-6	18	0.1	4	33
P#22	1.0-1.1	20/06/2018	Filing (sandy day)		DE-	- 6		11	0.1	4	13
P#23	05-06	20/06/2018	Filling (sity sand)	-2	-0.0	16	-3-	10		- 3	1.4
BD1/20	05-06	20/06/2018	Filling (effly sand)	-1	-0.4	- 6	- 5	16	-10.1	-4-	3.3
P#24	0.0-0.1	20/06/2018	Topsoil (silly sand)		-0.0	- 8	3	8		4	20
P#24	05-0.6	20/08/2019	Sitty clay	=1-	-06	Ti.	- 5	21	-0.1	4	19
P/25	0.0-0.1	20/06/2018	Filling (grayelly sand)	146	-0.4	H	4	12	-0.1	-4-	23
P#26	0.0-0.1	20/06/2018	Filling (sitty sand)	24.0	-0	4	2	10	-01	-2	10
P#26	0.5-0.6	20/06/2018	Sitty ctay	-1-	-0.6	1	- 4	1.9	+1)X 8	- 3	14
P#27	0.0-0.1	20/06/2018	Topsoil Filing (sity sand)	-0.0	-0-6-	6	4	14	921	2	15-
F#28	0.0-0.1	20/06/2018	Filing (gravelly sand)	-1	-96	3	3	-11	-0.	3.	17
P#28	1.0-1.1	20/06/2018	Sandy clay	-13	-0.6	- 8	3	21	-0.1	- 4	D.
P#29	0.0-0.1	20/06/2018	Filing (gravelly sand)	-4	-0.4	10	3	7	-0.1	6	21
P#30	0.0-0.1	20/06/2018	Filling (sifty clay)	-94	-04	4	6	13	-97	6	-21
P#30	10-11	20/06/2018	Sandy clay	1.0	-96	- 11	- 6	13	1077	5	25
F#31	0.5-0.6	20/06/2018	Filling (sandy clay)	-3	-0-6	4	A	137	:0.1	3.	21
P#31	1.0-1.1	20/09/2018	Clayey sand	-42	-64	9	5	12	-000	4	17
P#32	0.5-0.6	20/06/2018	Filling (sandy clay)	9	-56	- 9	3	10	- 17	-2-	- 8
F#33	D-0.1	20/06/2018	Filing (sity sand)	- 1	-04	n n	3	12	-00.1	1	17
P#33	1.0-1.1	20/06/2018	Clayey sand	- 14	< 4	7	2	12	-0.	2	9
PIT34	0.0-0.1	22/06/2018	Topsov (clayey sitt)		0.0	- 1	-9	29	101	4	48
FIT34	1.0-1.1	22/06/2018	Sity sand	-41-	-0.6	10	- 4	19	-00 T	1 2	13
PIT35	0.0-0.1	22/06/2018	Topsoil (sandy gitt)	7	-04	fl.	12	22	4/1	3	21
P9T36	0.0-0.1	22/06/2018	Topsoil (sandy sitt)	~ 1		9	9	18	-51-	4	31
F1.T36	0.5-0.6	22/08/2018	Sity sand	-41-	0.6	40	4	15	-001	- 4	15.
P1137	0.0-0.1	22/06/2018	Sity sand	-	-04	10	3	35	-0.1	7	14:
PIT38	0.0-0.1	22/06/2018	Sifty sand		400	В	5	17	=0.4	-3	34
PiT38	0.5-0.6	22/06/2018	Sifty sand	-9-	-0.0	if	4	14	-3074	4	14
PIT39	00-01	22/06/2016	Topsoll (sand silt)	-4.	-0.4	9	.7	78	-Q1-	1	28
PYT-40	0.0-0.1	22/06/2018	Sity sand	-	-91	11	- 6	17	40.4	4	28
BD1/22	0.0-0.1	22/08/2018	Sity sand	-7-	-D-6	10	1	18	- 5	5	32
PYT40	0.5-0.6	22/06/2018	Sity sand	754	-0.0	-7	A	12	40.4	- 2	- 9
PIT41	10-11	25/08/2018	Filling (sandy silty clay)	NIT	NT	NT	NT	NT	NT	NT	NT
PITA1	2.0-2.1	25/06/2018	Sity clay	MT	NT ·	NT:	NT	NT	NT	- NT	NT
PIT42	0.5-0.6	25/06/2018	Filing (clay)	NT	NT.	NT	NT	NY	NT	NT NT	N7
PIT43	0.5-0.6	25/06/2018	Filling (sandy silt)	NT	NT	NT	NT	NY	NT	NT	NT
PIT43	15-16	25/05/2018	Silty clay	MT	NT .	NT	- NT	NT	NT -	NT -	NT
PIT44	10-11	25/06/2018	Filing (sandy sift)	NT	NT	MT	NT	NT	- NT	NT	NT
P1745	0.5-0.6	28/06/2018	Filling (sandy day)	NT	NT	NT	NT	AT	NT	NT	NT
PIT45	15-16	26/08/2018	Sandy clay	NT	NT	NT	NT	NT	NT	NT	NT
P1746	1011	26/06/2018	Sand clay	NI	NT	NT	NT.	MT	NT.	N7	NT
PIT47	0.5-0.6	26/06/2018	Filling (sandy cay)	MT	NT	NT	NT	NT	NT	NT	NT
P1T47	1.5-1.6	26/06/2018	Filling (sandy day)	NT	NT	NIT	NT	AIT	NT	NT	NT
F1748	1.0-1.1	76/06/2018	Filing (sandy clay)	NT	NT	NT	NT	NT	NT.	MI	NT
P1T49	0.0-0-1	22/06/2018	Topsoils (sandy sit)	164	-0.4	11	3	12	10.1	7	7
PIT50	0.0-0.1	22/06/2018	Filling (sity sand)	-4	-06	0	4	12	- 101	-4-	16
PA51	0.5-0.6	19/06/2018	Filing (clayey sity sand)	-9-	-0.0	- 11	0	24	-0.1	4	63
BD0/19	0.5-0.5	19/06/2018	Filing (clayer sity sand)	-0.	-6-6	1	. 0	23	0.1	fi.	38
P#52	0.5-0.6	19/06/2018	Filling (sandy sitt)	-	-04	10	7	24		1	86
P#52	15-16	19/06/2018	Clayey siff	-1	-94	- 0	- 5	16	-01	-4	140
P#53	05-06	19/06/2018	Filing (sandy sall)	-4	Ti-4;	9.	12	16	-90.1	В.	30
P#54	0.5-0.6	15/06/2018	Sity Sand		-0:0	9	- 4	10.	-901	2	17
P#55	0.0-0.1	19/06/2016	Sandy Clay	9	20	10	12	301	-101	13	32
PIS6	0.5-0.6	19/06/2018	Filling (gravelly sand)	-1-	-0.0	5	7	13	-023	4	32
Pe56	1.0-1.1	19/00/2018	Gravelly-sand		-D-0	- 5	- 5	11	10.1	3	21
P#5/	0.5-0.6	20/06/2018	Filling (gravelty sand)	1	-0.4	- 6	- Ei	218	-01-	3	140

Detailed Site Investigation 360A Anderson Place Trains 46162.12 July 2018

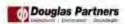
Sample ID	Depth (m)	Sample Date	Material Type	Arsenic	Cadmium	Chromium	Copper	Load	Mercury	Nickel	Zinc
P#57	1.0-1.1	20/00/2018	Filling (gravelly sand)	- 1	0.0	7.7	7	25	-01	5	170:
P#57	2223	20/06/2018	Clay	-3-	-04	- 6	7	13	-0.1	3	37
Pn58	0.0-0.1	20/06/2018	Clayey Sand		-0-0	7	-6	16	-0.4	-4	27
P#59	0.5-0.6	19/06/2018	Sifty Clay	- 1	-0.0	8	9	16	-0.7 (	- 16	39
Pm60	0.0-0 1	20/06/2018	Topsoli (sandy sit)	1	-0.6	3	8	15	~0.4=	- A-	34
Prest	0.0-0.1	15/06/2018	Bilty sand	-4	-(n):	37	- 6	16	40.1	6-	12
BD2/19	0.0-0.1	19/06/2018	Sity sand		-0.4	18	- 61	14	-0.1	9	12
F#62	0.0-0.1	19/06/2018	Topsoil (sity sand)	-1	-06	30	5	16	17.1	-4	- 8
P#63	0.0-0.1	18/06/2018	Filling (sitty clay)	- 4	-(D-5)	- 11	4	13	-0.1	2	- 24
P#64	0.5-0.6	18/06/2018	Bandy clay		-56	- 5	3	15	10.4	3	23
F#65	0.5-0.6	18/06/2018	Filing (sandy sitt)		-0.40	- 6	- A -	13	-0.1	- 3	24
P#66	0.5-0.6	18/06/2018	Sitty Clay	- 2	4.5	- 6	- 6	16	30.1	5	50
Pa67	0.0-0.1	19/06/2018	Topsoil (sitty ctay)	-	200	-27	6	19	-91	7	3
FIRE	0.0-0.1	18/06/2018	Topsoil (sitty clay)	-1-	-0.6	7-1	- 6	16	-371	- 4	34
P/699	0.5-0.6	19/06/2018	Sandy day		-01	20	10	12	-07/1	9	18
Pa70	0.0-0.1	19/06/2018	Filing (sity sand)		-0.6	.9	7	16	-0.1	- 5	35
BD1/19	0.0-0.1	15/06/2018	Filing (sitty saind)	-	200	45	- 6	19	10.1	5	10
P#70	0.5-0.6	19/06/2018	Sity sand	-	-84	- 6	4	14	-01	3	22
P#71	0.0-0.1	19/06/2018	Sity sand		-1	16.	6	13	-6	- 6	12
P#72	8506	19/06/2018	Sandy silt	-1-	100	-11	- 6	19	91	· 6 · ·	23
P273	0.0-0.1	19/06/2018	Topsod (sandy set)	-3-	-64	6	3	10	-01	-2	12
P#74	0.0-0.1	19/06/2018	Sandy clay		-0-0	5	-3	10	-0.1	- 2	10
P/(75	0.5-0.6	19/06/2018	Clay	- 4	-64	12	7	20	-0.1	5	18
P#76	0.0-0.1	19/06/2018	Filing (sity sand)	-0-	T-6	12	- 5	15	0.4	-4	-17
P#76	2001	19/06/2018	Filling (sitty sand)		-64	15	7	113	400	. 7	- 25-
Pit77	05-06	19/06/2018	Fiting (gravely sand)	-	-0.4	- 6	- 3	-12	-84	- 3 -	15
FYT78	0.0-0.1	25/06/2018	Filling (sandy day)	-3	-0.6	- 6	- 8	17	-97.1	-3	26
PIT79	0.0-0.1	25/06/2018	Filling (sandy salt)	-2	-0.5	12	6.	17.	<0.1	. 7	34
FITBO	0.0-0.1	25/06/2018	Filing (sandy clay)		-66	31	14	26	-9374	- 11	22
QL.				4	0.4	- 4	1	1	.0.1	- I	Y
ILC				300	60	300	17.000	B00	-80	1,200	30,000
HL-D				3,000	900	3,600	240,000	1.500	730	8,300	400,00
e (i.e.				100	NO.	410	230	1100	NG	280	R10

HIL C - Health Based Soil Investigation Levels for Public Open Space Landuse Values
HIL D - Health Based Soil Investigation Levels for Commercial / Industrial land use values
File - Environmental Soil Investigation Levels for lower bound Public Open Space Landuse Values
FOL - Practical Quantitation Limit

NC | No Offices
| NO | No Trested

BD2/19 Replicate of Pil 70 0.0-0 1 Replicate of Pil 70 0.0-0 1 Replicate of Pil 51 0.5-0 6 Replicate of Pil 22 0.0-0 1 BD3/19 BD1/20 Replicate of P# 40 0 0-0 1 BI01/22

Detailed Site Investigation 380A Anderson Place. Trillier



YAMLII J3 SUMMARY OF LABORATORY TEST RESULTS - ORGANICS (PETROLEUM HYDROCARBONS - mg/kg)

The second	Depth (m)	Sample Date	Material Type	Benzene	Toluene	Ethylbenzene	Xylene	FT	F2	F3	F4
PITT	0.5-0,6	21:06/2018	Friing (sity sand)	-340	-	380	25.	- 32	- 250	755	
F112	1,0-1,1	21/06/2018	Filing (clayery sand)	-900			756	-2%	5.00	-5%	-50
511.5	2021	21/06/2018	Filling (clayey sand)	- Indi	100	9404	-2700	-	-0071		
PITI	0.5-0 H	21/06/2018	Filling (sitty sand)	POL	994	970	23	25.00	-13	14	- 150
PIT4	0.6-0.8	21/00/2018	Filing (clayey sand)	- POL	-947	-94D	-90	-100	- 100	-10	-45
PITS	1.0-1.1	21/06/2018	Filing (sity sand)	1401	3000	-900	29	-76	700		-150
Bild.	0.0-0.1	21/06/2018	Triing (silly sanit)	TOL	-	400	715	-316-	774	DES	100
PIT6	2621	21/06/2018	Filling (sandy clay)	POL			75	770	-750		199
PITE	1.0-1.1	21/06/2018	(Hing (sthy cary)	-PQ	-000	-5°C).	-867	902	90	-600	- 45
PIT9	0.5-0.5	22/06/2018	Filing (sanity ciay)	196	375 hr.	2014	994	URG	96)	- 400	_ B4
PALAG	0.0-0.1	22/99/2018	Filling (sandy clay)	100	- 00	and L	990.	-100	-167	-10	110
PIT10	1.0-1.1	22/06/2018	Filling (sitty clay)	150	-60	-76	970,	-745	175	200	Fg
P(T12	0.0-0.6	25/06/2018	Filling (sandy sill)	-4401	-07		400	400	400	-00	+6
PIT12	20-21	25/06/2018	Filling (sandy sitt)	-94	790	-900	360	750	750	-07	-450
PtT13	0.5-0.6	25/06/2018	Filing (sandy sit)	THE	-200	HC.	40.7	777	750	1975	- file
PIT14	0.5-0.6	25/08/2018	Filling (sandy sitt)	4400	100	300	340	3/0	-70	-PO-	-155
#7534 I	1,0-1,1	25/06/2018	Sandy silt	-PG1	-000	-000	-94X	-417	-713	61.0	-
F1715	0.5-0.6	22/06/2018	Filing (uity sand)	190	750	350	340	FQ.	390	-00	1-15
PTTM	0.0-0.1	21/06/2018	Filling (grawelly sand)	PGL.	250	100	PG.	.843	1953	-0.00	
PITIE	10-11	21/06/2018	Sandy cray	POL	-	- 1975a	201	385	367	26	-PE
Patrix	0.8-8.1	21/06/2018	Filing (with clay)	POL		-461	905			-00	1
PIT18	0.0-0.1	21/06/2018	Filling (sity clay)	-90	-340				-86		-
						-90		-376	2541	-902	
FITTE.	0.5-0.6	21/06/2018	Filing (ally day)	Pile	-		215	THE	736	400	PR
Pitt9	0.5-0.5	20/06/2018	Clay	POL	- 00	890	- 29	758	7500	93.	- 100
PIT26	0.0-0.1	20/06/2018	Filing (sandy elt)	460	-		-943	170	-963	-11	- 18
FT[20]	1,0-1,1	21/06/2018	Sity sand	PEL	300	2000	-842	SEL	1702	160	150
D(721	1.5-1.8	21/06/2018	Sandy Clay	A PEL	100	17Gs	PG	1752	- PIGE	-50	-190
Pit22	0.0-01	20/06/2018	Filling (sandy sit)	-PEL	1000	400	442	40.	HPCH.	-66	- FE
901/20	0.0-0.1	20/06/2018	Filing (sandy sit)	+41	-0,-	2007	465	200	-265	-0	-63
PH22	1.0-1.1	20/06/2018	Filling (sandy diay)	-140		-0-01	96.	-34%	-000		-60
Pit23	0.5-0.6	20/06/2018	Filing (sity sand)	-900	-810s. 1	-100	-910	-100.	750	100	100
Pit24	0.0-0 1	20/08/2018	Topsol (sity sand)	-FIGL	-340_	-401	340L "	-PG.	- POL	-900	-45
PID4	05-08	20/06/2018	Sitty day	PEL	-0.00	-000	-267	-90		70.	18
Pit25	0.0-0.1	20/06/2018	Filmy (gravial) ( a section		-240		-		-89).	-20	12
PHD6	0.0-0.1	20/06/2018	Filing (gravelly sand)	PIL	-	-	-80	-983 <sub>6</sub>	-40	100	12
			Filing julty sainti		-				- 54	-365	-
Pit26	0.5-0.6	20/06/2018	Sity tiny	PGL	-652	30.	29.	30	350	-55	-3
Pit27	0.0-0.1	20/06/2018	Topsoi Filing (silty sand)	-PQL	-940	-000	-9%	-022	-7%		
F1128	0.0-0.1	20/06/2018	Filling (gravelly saryd)	-440	-04/6	-300	-967	35	7746	-	12
Pit26	1.0-1.1	20/06/2018	Bandy (78y	145	.000	340.	1750	3700	250	790.	1.40
Ph29	0.0-0.1	20/06/2018	Filling (gravelly sand)	PGL	900		40	PUL	77.0	-90	1
Pt130	0.0-0.1	20/06/2018	Filling (sitty day)	-7157			99	70	993	- 100	75
Pit30.	1.0-1.1	20/06/2018	Saridy Cay	PEL	-70		90	3/G.	9G.	PEL	1 1
PH31	0.5-0.6	20/06/2018	Filing (sandy clay)	1990		1990	-042	-70	912	-1500	10
Pit31	4.0-4.4	20/06/2016	Glayey sand	FEEL	407	1975	623	160	PO.	EQ.	- PE
Piti2	0.5-0.6	20/06/2018	Filting (sandy clay).	-PCI-	200	2007	205	460	325	-35	-70
PHSS	0.01	20/08/2018	Filing (silty sand)	-3/01	200	-98%		-99%	-967	~3WL	1
Pitas	1,0-11	20/06/2018	Clayey sand	1940	100	100	300	100	750	-70-	-19
PIT24	0.0-0.1	22/06/2018	Topsoil (clayey silt)	PIGL	-96	300	46.7	1/0_	450	190.	100
PIT34	1,0-1.1	22/06/2018	Politicana	-3101-	385	1000	-300	70.	-750		1
FIT35	0.0-0.1	22/06/2018	Stily sand		-20	-3451	N. C.	734	-913	-30	-
FIT36		22/06/2018	Topsof (sandy sit)	-70	- 200		-24	90.	250		-
	0.0-0.1		Topum (sandy sit)	150			200	355.6	200		-
PITM:	0.5-0.6	22/06/2018	EIRy sand	PGL		- India	1700	- 40°.	-10.	-	-
PIT17	0.0-0.1	22/06/2018	Sity sand	19 QL	1000	1000	90	370	138	-3	-
27T38	0.0-0.1	22/00/2014	Siffy sand	440	-04Th	-90L	-20.	445	-75		-
FIT38	0.5-0.6	22/06/2018	Sifty sand	344	1900	1000	900	3796	1794	-25	-192
FRT39	0.0-0.T	22/06/2018	Topeoil (sand sit)	1762	750	100	1700	1730	17320		- 156
PIT40	0.0-0.1	22/06/2018	Sity sand	-PSL	-		- 49	-70	-915	-70	- 45
BD1/22	0.0-0.1	22/06/2018	Siffy sand	170	-070	-970	- SPQL -	OPTE:	380	-000	- 40
PIT40	0.6-0.6	22/06/2018	Bity sand	NT	NT.	NT.	NT	FAT.	NT	NT	NT
PIT41	1.0-1.1	25/06/2018	Filling (sand) sitty clay)	NT	147	PIT	DAT	NT.	NT	NT	100
PIT41	20-21	25/06/2018	Elity clay	NT	NT	NT	NT	NT	MT	NT	N7
PIT42	0.5-0.6	25/06/2018	Fiting (cay)	N1	NT	NT	NT:	NT	NT	NT.	NT
PIT43	0.5-0.6	25/06/2018	Filing (sandy off)	NT	NT	NT	NT	NT	107	NT	NO.
P1143	1.5-1.6	25/06/2016		NT	NT	NT	NT	NT	147	NT	N)
PIT44	1.0-1.1	25/06/2018	Sity tiny	67	WT	NT	NT	NT	MT	NT	10
P1146		25/06/2018 25/06/2018	Filling (sandy sitt)	NT	NT		NT	NT	MI		147
P1145	15-16	26/06/2018	Filing (sandy cisy)	NT NT	NT	MT	NT	NT:	N7	NT NT	NO.
ENT AN	170.44	WALKS WAYN	Sandy clay	100	419	NT.	112	1.00	100	219	-
P1146	0.0-1.1	26/98/2018	Sand clay	N/1	PAT	NT.	PAT:	PAT.	191	NI	Pk I
PIT47	0.5-0:E	25/06/2018	Filling (sandy clay)	NT.	NT	N7	NT.	NT.	MT	NT	N/I
P1747	1,5-1,6	28/06/2018	Filling (sandy cray)	MT	NT	- 1/7	N7	NT.	MI	HT	N)
PIT48	1.0-7.1	26/06/2018	Filling (sendy clay)	NT	NT	NT	NT .	NT	MT	NT	NO.
PIT49		22/06/2016	Topsoils (sandy sit)	1962	7000	-0.020	79	3050	300	4800	- 4
PITS0		22/08/2018	Filing (NWy sand)	Fal	85	46	(FB)	152	1992	200	- 18
Pt51 -	0.5-0.6	19/06/2018	Filing (clayey sifty sand)	-PG.	100	-(G)	-80	1752	7D.		-6
BD3/18	0.5-0.6	19/06/2018	Filing (clayey sity sand)	1994	-010	- PEL .	250	40	252	200	- 3
IN152	1.5-1.6	19/06/2018	Clayey sid	956	100	- MCL	26	400	FES.	-	- 4
P353	0.5-0.6	#B06/2016	Filing (sandy sit)	1750	1900	100	10	-145	153	- 33	- 9
P154	0.5-0.6	19/06/2018	Sifty Sand	150	-2	-	-60		-0.5		. =
Pit55	0.6-0.1	19/06/2018	Sandy Clay	-P01	-90	-58%	-90.	-972	40	-904	10
PH56		19/06/2018	Filling (gravely sand)	(1962)	960.	100	250	1700	750	1750	-0
Pit56	1.D-T 1.	19/06/2016	Gravely sand	-PGI	-810	-10	340	399	3901	-375	FE
PH57	0.5-0.8	20/06/2018	Filing (gravelly sand)	701	-90	-750-	100	-775	-701	-70	-
PH57	1.0-1.1	29/06/2018	Filling (gravelly sand)	390	300	-	380	77Q. 27Q. 17Q.	-89).	20	
PH57	22-23	20/06/2018	City				-	1.075	4.	100	- 8
Pit58	0.0-0.1	20/06/2018		1PSL	900		200	360	1000	-19(3)	-60
			Clayey Sand	-PGL	201	-	20.	788	301		1
Pit59	0.5-0.6	19/06/2018	Sifty Clay	-3701					-12	-50	-8
PH60	0.0-0.1	20/06/2018	Topical (standy sitt)	-35	-010	-0	-26.	-45	2544	-00	-
F161	0.0-0.1	19/05/2018	Sify sand	90.	- 000	30.	99	700	Tile	159	-
	0.0-0.1	19/05/2018	Sity sand	FIGL	90		365	756	900	-83	- 15
802/19	0.0-0.1	19/06/2018	Topsof (stly-sand)	3750	- 100	-00	-20	FQ	70.	-5%	1 -
BD2/19 P462		18/06/2018	Filing (sifty cay)	PEL	200	- 20	2G.	70. 70.	70	-20	- 40
Pri62 Pri63	0.0-0.1			-			301	-712	-753	-	1
BD2/19 P462		18/06/2018	Sandy day								
Pri62 Pri63	0.0-0.1	18/06/2018		- PS	100	200	(93	PE	1079	-83	- 0
P162 P162 P163 P154	0.5-0.6		Sandy day Filing (sandy sit) Sity Clay	POL		- 00-	62	PG.	(d).	- St.	- 6

Denated Site Investigation 360A Anderson Place, Trake

46162 12 July 2018

Sample (D	Depth (m)	Sample Date	Material Type	Benzene	Taluene	Ethylbenzena	Xylane -	PT	P2	6.3	F4
Phiss	0.0-0.1	18/06/2018	Topson (sity day)	-175%	-90-	- SEE - 1	75	-	1	-17(1)	150
F1000	0.5-0.8	10/06/2018	Sandy clay	175	-00	170	-945	1900	100	1000	-110
Pit70	0.0-0.1	12/06/2018	Filling (sifty sand)	cPin.	92	450	60	180	180	-E)(1)	- Pilli
BD1/19	0.0-0.1	19/06/2018	Filing (edly sand)	+20		-00	-			-0.5	-000
PHYO.	0.5-0.6	79/06/2018	Sity sand	-POL	-340	-3/0/	-340	200	-950	-100	-45
F171	0.0-0.1	19/06/2018	Sifty sand	3750	79	90	-90	100	1000	File	-110
Ptt72	0.5-0.6	19/06/2018	Sandy sit	IPGL	-275	11/0/2	150	1000	190	-PDL	-(FC)
Pt/73	0.0-0.1	19/06/2018	Topsoi (sandy sitt)	400	-000	440	900	-712	-90	-72	POS
F174	0.0-0.1	19/06/2018	Sandy day	PMIL	30	-90	25	200	-9_	-90	- PE
Fit75	0.5-0.6	18/06/2018	Cay	990	90.	360	30	750	200	- 15	- 1
P076	0.0-0.1	19/06/2018	Filling (silty sand)	(PG)	-0	-10	- 00	340	3901	-30	110
Pi076	2001	18/06/2018	Filling (silty sand)	-PG1	-00	-201	-90	4000		-00	-PS-
PH77	0.5-0.0	19/08/2018	Filling (gravel) sand	-9%	-5-0	-39(1)	900	-1FQ1	-000	761	
FIT78	0.8-0.1	25/06/2018	Filling (sandy clay)	18400	1700	1970	150	1750	750	490	4
FIT79	0.0-0.1	25/06/2018	Filing (sandy sitt)	(PGL	90_	-907	8-01	10	1000	FE.	100
FYTB0	0.0-0.1	25/06/2018	Filling (slandy clay)	-PS-	200	- 100	200	400	4701	-40,	000
QL .				0.2	0.6	1	3	25	00	100	480
5.0				Mi	741.	'NL	NI.	fil.	140	19C	HC
3.0				1 1	/NL	NL.	210	260	NE.	990	NO
				165	105	125	45	183	120	1,330	5,600
11				NC	NC.	NC.	NC 1	700	1.000	2,500	10,000

Notes

HSLIC - Health Based Soil Screening Levels for Public Open Space Landbase Values
HSLIO - Health Based Soil Screening Levels for Even found in industrial land use yellaps
ESL - Environmental Soil Screening Levels for lower bound Public Open Space Landbase Values
M. - Management Limits for pittideum hydrocarbons
PQL - Practical Quartitation Limit

NONE. | No CrossanNot Limiting
BOTTIS - Reprinted of Pt 70 0-0-0.1
BOZTIS - Reprinted of Pt 51 0-0-0.1
MCD/19 - Reprinted of Pt 51 0-0-0.6

Detailed Site Investigation 360A Anderson Place, Trake-

46162 12 July 2018

I treet to some I treet to the some I treet to			The state of the s		MI MI	AIT HI	HP.	30 M)	30	W	H7	묎	-	-10	w	MI	hr	RD RD
Federal Contract School   Federal Contract S			3	121	W	M	11-00-1	100				111	40	MI				
Using soft soft! Filing handly day! Viling handly day! Viling soft soft Using soft Using soft Viling soft Using soft Using soft Using soft			-5	100	100	4	-17	-MI	307	W	HT.	117	MT	AII	AT.	AT.	100	NO.
Fiding claiming corp. Fiding claiming claim. Fiding claiming claim. Fiding Coverage and L.	100	10.00			141	187	- 97	141	- 81	In.	H.	I/V	y/	ret .	MT	MT	117	NT NT
Friday Colony (set)		-	33	700 100	- 40	- MC	-	-ar	HT	100	M.	500	- NT	4/1	W	MT.	0700	Mails Mails
Futball become falls			3	-177	HI NI	FET	1	90	H	10	HI.	H1 .	41	er one All	WI.	MT MT	HI.	HEA HEA
Father beavey stay Father beaver stay Father beauty stay Father but	100	903. 903.	- 10	79	All All	MI		Alf	MT	wit .	MI	recor NT	-0.00 -0.00 -0.00	The ST	Art	All	401	NU. NU.
Palog (pently seed)	12		- 13	T)	34	18	-30-	- 75	-	14.5	30%	490). W.C.	- 55%	-0%	4	-		10
Filling policy carpy Filling policy carpy	13	70	-2	75G	470L	133	-	-32	77	1-05% 1-00%	900	90	SPECIAL SPECIA	-910; -902:		100 A	770	1607 1607
City	袋	90	- 10	100	-	100	70	- 12	40	All I	40	NY Child of the	-00	460	MI	W	M	10
Feedy City	303	700	35	405 #45	MT	TIN	H2 H2	907 38T	NT NT	RET.	79	NE.	MT.	NT.	NT.			ATT NO
Principles of the Administrative Complete Comple	133	100	- 5	F	- Ar	W	10	W.	HT	R/T	Ht	107	Nr.	NT.	Wi	Jir.	Эřт	Nt) Nt
Total (1995 ment)	973) 973)	170	-10	(100) (100)	W	1	T	407	W	W.	W	NO.	MI.	410 MI	W)	MI	MT	HETY HETE RETY
Fallery agreeming success? Fallery code, nearest.	5	5	-3-	2	- 41	1	W.	10	10	100	- Ut	100	entr.	-Tick	No.	W	w -	160 160 160
Fairg (gravity years)	18	#01 #02	- 15	被	-71	78	700	-	- 65	AREA.	-200	-0.02	-00	710	+01 +02	10	70	HD: HD: MT
Filling (Second) clared Filling (self) (filter)		70	-	(M)	-20	175	-54	-0	- 34	m's	455	4VG.	- 10	40	75	ARCH.	-	191 191
Fore twelly copy	100	000	- 2	100	41	MI.	41	4000	-0746	FORGE:	3050	F1910.		1010	MI	orput.	Arrest.	1617 1617
Friend County Cody;	33	700	3	115	20°	100	W	-	75	40%	-0.00	TO,	-170x	- 10	AU.	W	10762	HD HD
Sidly went.	100	70T	- 2	1774	MI	M	N	40	AF.	N.	W.	100 E	41	-0:2 'NI	All	Al.	AIT.	NO NT
Transmitted Committee		夏	3	丧	MI	W.	W	M	MI	ry1	M	HT	41	NT.	All	MI	MT	NO.
(Lifty ment)	33	2	- 2	1915. 1915.	w	THE RES	1	41	W	MT.	M	AU.	NIT	4.0	MT	MT	ш	HD HD
Filmont (Nand Sell) Edy Karrel	200	7.0	-3	1000 1000 1000	AUT	703	TO S	W	W	700b	27% - 27%	70	40	-19	MT	W	10	160 160 80
SWytomic	18	됱	-	菱	H	All	- No	ui ui	- UT	NI NI	NT.	117.	60	A/T A/T	NI.	ME	91	NT NT
Print (Wg)	=	700 400 400	76	90	MI	110	10	MI	AIT.	PET	- NT	HT.	NI:	NI.	MT.	MT	MT.	NI NI
Entry constraint	79	70	-13	Ξ	MT MT	607	W	MI	MT MT	BT	Nº	10	AIT	ALT ALT	AIT AIT	MT		101 101
Rand day	93	99	3	170	567 567	- BET	107	HC.	100 101	61	40 41	10 10	MI.	MC	AC.	MT	W	NY NY
T Ring (sendy cost);	恶	8	-36	97	HT HT	RIT.	10	MI M	97 97	N1	167 367	N.T.	MT MT	AT	ar ar	- MT	HT U	N/
Falling (stripes safe) visit ()	73	500 400 601	- 10	35	4	擅	15	*	-	1800	700		701	40.	3			907 901 901
Filling covery offs specify Trilling covery offs		1	-3-		#	W	-	MI	W	1	Till Control		W.	- 12	W.	10	W.	H11 H11
Halling Country (All) Builty Sound	710	00	-0	-000	=0	199	=	12	-81	100	1000	-01k	100	10			7	RO RO
Difference of the Control of the Con		Ë	- 10	是	qr.	100	10	341	10	W.	10	7	40	u)	741	W	30	10 N
Filling Litteredy Ments Filling Litteredy Ments (Clay	월	700	-	44	MT MI	NT.	H.	MI	NT NI	NT NI	NT.	HT HT	41 41	ALT ALL	AT AT	MT.	NT All	NT NT
Cityry food Alle City Amend Sandy Aff	13	3	-3-	3	3	10	3	3	3	155		8	- 13	-10	\$	\$	\$	HI) -RD HI)
SHY NEW	18	E	-10	100 100	-13	10	-6	-13	-	100	100	FC)	+0	40	-			160
Filling (falls value) Satisfy offer	50		-70	70		擅	701	-3:	2	100	- 10	0.3	- 10	100	2			10) 10) 10)
- Pitting Liverity (IR): Sifty One	器	急	-	100	곏	揺		3	- 5				2	70				HD HD
Terror tolly once:	150	Ä	3	\$	30	15	3	10	W.	100	20	3	200	10	3	3	3	NO.
Falling Galler Harris	700	00	- 20	10.0	=70. 570	100		12	-01	m5.	-0	500	170	3/3/				1607
Francis (4) Transit (seeing 1.6)		7	-3	This	74		-		36	16/	- 100	20) 20)			3	3	31	14(1) 14(1)
City	73	452	36	PU.	3	123	-	33	75	150	-00	USA		12				160 160 160
Fring Sells seed? Fring Symmer special		3	75	E.	MI	MI	107	MI	HI	W	HI	1501	HT	-117	MI	Hr.	HT	NO
Filtrag Lauredy (1964) Filtrag Lauredby (1965)		-1.0	-30	-00	- 10		16	-32	53	1700	10	100		40				HD HD
Fitting Lineary Library			0.6	AHET.	- 19	0.0	en En	(c) (c) (d)	Table ( robs)	-71	(0.4 (0.5)	10	V 691	760	NC:	日本田田	0.7	NO.
	Fibes (presently varies warms have been a sense	Photo Spreamfr views search streets and a search street of a large product of a large pro	Films (greathy settl)  See See See See See See See See See Se	Files   Specially variety   Special   Specia	Proc.   Greenthy water	The property was	Proc.   September   Septembe	Proc.   Company Name	The property varies	Fine product variety	This growth work	Proof property years	The grant   Section   Color	Pros. Section   1985	The content year   10   10   10   10   10   10   10   1	Perform Security (1985)   1985   19	The first year   1985	The part of the



#### TABLE JS SUMMARY OF LABORATORY TEST RESULTS - MICROBIOLOGY

Sample ID	Depth (m)	Sample Date	Material Type	Material Type Eschericia Coli in soil Salmonella in		Faecal Coliforms
PIT41	1.0-1.1	25/06/2018	Filling (sandy silty clay)	-POL	ND	PAL
PIT41	2.0-2.1	25/06/2018	Silty clay	POL	ND	(POL
PIT42	0.5-0.6	25/06/2018	Filling (clay)	KPQL	ND	<pdl< td=""></pdl<>
PIT43	0.5-0.6	25/06/2018	Filling (sandy silt)	#FGL	ND:	<pql< td=""></pql<>
PIT43	1.5-1.6	25/06/2018	Silty clay	<pql< td=""><td>ND</td><td><p0l< td=""></p0l<></td></pql<>	ND	<p0l< td=""></p0l<>
PIT44	1.0-11	25/08/2018	Filling (sandy silt)	SPOL	ND	<pql< td=""></pql<>
PIT45	0.5-0.6	26/06/2018	Filling (sandy clay)	-POL	ND	(20)
PIT45	1.5-1.6	26/06/2018	Sandy clay	2.P01	ND	<pql< td=""></pql<>
PIT48	1 0-1 1	26/06/2018	Sand clay	=PGL	ND:	(FQ)
PIT47	0.5-0.6	26/06/2018	Filling (sandy clay)	4PGL	ND.	< P(2)
PIT47	1.5-1.6	26/06/2018	Filling (sandy clay)	FOL	ND	rPGL
PIT48	1.0-1.1	26/06/2018	Filling (sandy clay)	4700	'ND	-6791
Units				MPN/100g	50g	MPN/100g
PQL				200	50	200

Notes

HIL C - Health Based Soil Investigation Levels for Public Open Space Landuse Values

HIL D - Health Based Soil Investigation Levels for Commercial / Industrial land use values.

EIL - Environmental Soil Investigation Levels for lower bound Public Open Space Landuse Values

PQL - Practical Quantitation Limit

ND Not detected NT - Not Tested

R1 - Replicate of Pit 3/0 1m

Detailed Site investigation 360A Anderson Place, Tralee 46162 12 July 2018