

REVISED REMEDIAL ACTION PLAN

**Proposed Poultry Production Farm
Rushes Creek Road, Rushes Creek, NSW**

Prepared for:

ProTen Tamworth Pty Ltd
PO Box 1746
North Sydney, NSW 2060

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BASIS OF REPORT

This report has been prepared by SLR Consulting Australia Pty Ltd with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with ProTen Tamworth Pty Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR

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EXECUTIVE SUMMARY

SLR Consulting Pty Ltd (SLR) was engaged by ProTen Tamworth Pty Limited (ProTen) to review and revise the Remedial Action Plan (RAP) previously approved for the proposed poultry production farm located at Rushes Creek Road, Rushes Creek, NSW (the site). The proposed remedial area within the site is currently vacant and is located beside an old abandoned sheep holding shed. The remedial area covers approximately 700 m², occupying a small portion of Lot 165 of Deposited Plan (DP) 752169.

Development on the site is proposed to include four individual poultry farms, eight new residential houses, and various other support/servicing infrastructure items. This development was granted Development Consent SSD 7704 by the Department of Planning Industry and Environment (DPIE) (as delegate for the Minister) on 16 April 2020.

This revised RAP has been developed based upon data acquired and recommendations made in SLR's Detailed Site Investigation (DSI) prepared for the site which identified arsenic contamination above applicable human health screening/investigation levels adjacent to a former sheep dip, along with further consideration and consultation with the Environment Protection Authority (EPA) regarding an alternative preferred remediation approach to what was originally proposed and approved.

The primary remedial goal for this site is to remediate the identified arsenic impacted soil to a level that does not present an unacceptable human health exposure risk and to render the site suitable for the proposed land use. Therefore, the key objectives of the revised RAP are to effectively remediate arsenic impacted soil to HIL-A (ie. standard residential with garden/accessible soil) and to ensure remedial works will generally comply with the NSW EPA 2017 *Guidelines for the NSW Site Auditor Scheme*.

Following a review of feasible remedial options for the site and the agreement with the client, the alternative preferred remedial strategy is to cap and contain the arsenic contaminated soil.

Based on a statistical analysis of analytical results from the DSI (SLR 2019), it is estimated that an area of approximately 700m² will require capping to attain the remedial objective.

Based on the information available in the contamination assessment reports, SLR considers that soils on the site can be made suitable for the proposed land use, subject to implementation of the measures outlined in this revised RAP.

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1 Introduction

SLR Consulting Pty Ltd (SLR) was engaged by ProTen Tamworth Pty Limited (ProTen) to review and revise the Remedial Action Plan (RAP) previously approved for soil impacted by arsenic near a former sheep dip at the proposed poultry production farm located at Rushes Creek Road, Rushes Creek, NSW (the site). The Rushes creek Poultry Production Farm was granted Development Consent SSD 7704 by the Department of Planning Industry and Environment (DPIE) (as delegate for the Minister) on 16 April 2020.

The site is bounded by Rushes Creek Road to the east and Ski Gardens Road to the north. The site locality and site layout have been identified in **Figure 1** and **Figure 2** in **Appendix A** respectively. Photographs of the area and material assessed have been presented in **Appendix B**.

2 Background

SLR understands the following with respect to the proposed development approved under SSD 7704:

- The development site is comprised of 14 registered freehold lots (or part lots) and one section of unformed Council public road
- Development on the site is proposed to include:
 - Four individual poultry farms, each comprising between 10 and 18 poultry sheds (total of 54 poultry sheds) and associated support/servicing infrastructure
 - Various other support/servicing infrastructure items.

Environmental assessments were undertaken to support the proposed development, with a preliminary site investigation (PSI) and a detailed site investigation (DSI) undertaken by SLR in 2018 and 2019 respectively.

2.1 Previous Investigations

2.1.1 Preliminary Site Investigation

The PSI undertaken by SLR titled '*Stage 1 Preliminary Site Investigation Proposed Poultry Production Farm Rushes Creek Road, Rushes Creek*' dated July 2018 (SLR 2018) concluded that:

- An area of environmental concern (AEC) was identified for the site (former sheep dip)
- Further investigation works are required.

Following exhibition of the Environmental Impact Statement (EIS), the Department of Planning, Industry and Environment (now DPIE) and the Environment Protection Authority (EPA) requested that a DSI be undertaken to assess the identified AEC prior to determination of the Development Application (DA).

2.1.2 Detailed Site Investigation

The DSI undertaken by SLR titled '*Detailed Site Investigation Proposed Poultry Production Farm Rushes Creek Road, Rushes Creek NSW*' dated February 2019 (SLR 2019) concluded the following

- Analytical results indicate that arsenic in soil, likely to be associated with the former sheep dip, is elevated above the relevant soil health investigation level (HIL) for standard residential with garden/accessible soil (HIL-A) guideline value in the National Environmental Protection Council's *National Environmental Protection (Assessment of Site Contamination) Measure*, as amended in 2013 (NEPM 2013)
- Soil sampling undertaken as part of the DSI has delineated the arsenic contamination to the north and south of the sheep dip, with low concentrations still exceeding the HIL-A guideline extending beyond the limit of the assessment to the east (assessment limited by the site shed) and to the west (with concentrations not expected to extend more than 10 metres west given the reducing concentrations from the source)
- Based on the guidance provided in NEPM 2013, SLR considers that the arsenic in soils contamination at the site presents an unacceptable risk to present and future site users, particularly during the proposed site redevelopment. Therefore, the arsenic identified in soils at the site is considered to warrant remedial action.

A groundwater assessment was not undertaken as part of the DSI due to the limited leaching potential of the identified arsenic (confirmed with toxicity characteristic leaching procedure analysis), the observed reduction in arsenic concentrations in soil with depth, and the anticipated depth of groundwater.

2.1.3 Remedial Action Plan

A RAP titled *Remedial Action Plan Proposed Poultry Production Farm Rushes Creek Road, Rushes Creek, NSW* (SLR 2019) was prepared and approved as part of the development consent for the poultry farm. The remedial strategy detailed in the 2019 RAP was to excavate the arsenic contaminated soil and dispose of this material off-site at a facility licensed to receive the waste.

It has since been identified that the landfill at Kemps Creek on the western fringes of Sydney is the only landfill licensed in NSW to take the contaminated soil. Contractor pricing for the transport and disposal of the arsenic contaminated soil at Kemps Creek is not feasible. As such, an alternative remediation approach is now proposed in this revised RAP.

3 Objectives

This revised RAP has been developed to:

- Propose an alternative preferred remediation approach for the arsenic impacted soils to what was detailed and approved in the 2019 RAP, and
- Guide the management of the arsenic impacted soil in the area of the former sheep dip a manner that mitigates potential human health risks that may arise from the proposed poultry farm development.

The revised RAP has been prepared to ensure the remediation is undertaken in accordance with applicable legislation, codes of practice and guidelines, and ensure that the site is considered suitable for the proposed use.

Specifically, the key remediation objectives are as follows:

- To effectively remediate arsenic in soil contamination present at the site, allowing the site to be utilised for its proposed land use

- To ensure remedial works are undertaken in a manner that:
 - Is safe, with remediation works to be protective of human health and the environment
 - Prevents potential cross contamination with the implementation of appropriate controls
 - Adheres to applicable legislative requirements, including but not exclusively, the contaminated land planning guidelines and any guidelines in force under the *Contaminated Land Management Act 1997*
- To ensure that remediation documentation is kept to a standard that will generally comply with the NSW EPA *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land (2020)*

4 Scope of Works

SLR undertook the following scope of work to address the project objectives:

- Review of available contamination related information pertaining to the remedial area
- Appraisal of applicable remediation options, in consideration of factors such as, but not limited to, costs, timing, and impact on proposed development work and the potential impact on the value of the development
- Identification of the preferred alternative remediation option
- Consideration of the steps and processes to be followed, to successfully implement the preferred alternative remediation option
- Identification of the validation requirements for the preferred alternative remediation option, to demonstrate that the remediation works have been conducted satisfactorily
- Preparation of this revised RAP.

5 Consultation

The following consultation activities have been undertaken by ProTen:

- **EPA** - the possibility of an alternative remediation approach comprising containment of the arsenic impacted soils on-site either in-situ or in a containment cell was raised with the EPA (Armidale office) in March 2021. The EPA verbally indicated that it would be happy to consider a revised RAP with on-site containment instead of off-site disposal. The EPA also indicated that there shouldn't be any reason that remediation works should hold up commencing construction given the arsenic impacted soil is not within the development disturbance footprint and is not considered high-risk.
- **DPIE** - the possibility of an alternative remediation approach comprising containment of the arsenic impacted soils on-site either in-situ or in a containment cell was raised with DPIE in March 2021. This engagement also queried the need for a modification to the development consent in relation to a revised RAP, with DPIE recommending ProTen to seek a modification to amend the previously approved 2019 RAP.

- **EPA and Council** - a copy of this revised RAP was forwarded via email to the Armidale EPA office and Tamworth Regional Council on 23 April 2021 for review and comment ahead of submitting the development modification application to DPIE.

6 Site Identification

The site locality and proposed remedial area have been identified in **Figure 1** and **Figure 2**, in **Appendix A** respectively.

The larger development site comprises the following land parcels:

- Lot 1 in DP 44215
- Part Lot 1 in DP 1108119
- Lot 1 in DP 1132298
- Lots 26, 85, 86, 101, 118, 165, 166 and 171 in DP 752169
- Part Lot 143 in DP 752189
- Lot 1 in DP 1132078
- Lot 1 in DP 1141148
- A section of unformed Council public road traversing through Lot 171 DP 752169.

The development site is irregular in shape and occupies an area of approximately 1,016 hectares. The remedial area is an unsealed area of the site at and adjacent to the former sheep dip, located beside an old abandoned sheep holding shed. The remedial area covers approximately 700 m², occupying a small portion of Lot 165 of Deposited Plan (DP) 752169.

6.1 Regional Geology

The NSW Government *Manilla 1: 100,000 Geological Sheet 9036*, First edition, 2013, indicates that the site is likely to be underlain primarily by Upper Devonian Mandowa Mudstone, comprising thinly bedded laminated and massive mudstone with subordinate, thin siltstone and fine-grained sandstone beds.

6.2 Site Lithology

The generalised lithology encountered at the site during the DSI (SLR 2019) can be described as:

- **Topsoil:** Dark brown loam topsoil was generally encountered from surface to approximately 0.1m in depth. The topsoil was generally described to be soft, dry, with low plasticity, and with vegetation present at the surface
- **Silty Clay:** From depths of 0.1m to 0.7m, silty clay soil was present and can be generally described as brown to reddish brown, soft, dry, with low plasticity, with presence of angular to sub-angular shale (10-30mm) at lower depths (0.5-0.7m)

- Shale: From depths of 0.6m to 1.3m is the presence of angular to sub-angular shale (20-50mm). It is noted that excavator refusal was typically encountered at depths of 0.9m to 1.3m due to very stiff shale.

Details of the lithology encountered during the DSI (SLR 2019) have been presented in logs and included in **Appendix C**.

6.3 Hydrogeology

The nearest significant surface water features to the remedial area are:

- Rushes Creek, located approximately 614m to the east
- Namoi River, located approximately 3.7km to the west and 2.3km to the north
- Lake Keepit, located approximately 3.1km to the west (dam full supply level).

A search of the NSW Government's online groundwater works database as part of the DSI (SLR 2019) identified five registered groundwater bores within 1000m of the former sheep dip location. The groundwater bore search information has been summarised in the table below.

Table 6-1 Groundwater bores within 1000m of the proposed remediation area

| Approximate distance from site | Direction from site | Borehole Number | Latitude / Longitude | Authorised/Intended Purpose | Final Depth | Salinity | Standing Water Level |
|--------------------------------|---------------------|-----------------|--------------------------|-----------------------------|-------------|----------|----------------------|
| 95m | SE | GW967889 | -30.814734 150.598204 | Stock, Domestic | 67m | - | 14m |
| 175m | E | GW011498 | -30.813981 150.599741 | Not Known | 24.4m | - | - |
| 700m | NW | GW967028 | -30.809817 150.592187 | Stock | 55m | - | 17.3m |
| 790m | NE | GW009093 | -30.81037 150.605018 | Not Known | 8.5m | Brackish | - |
| 790m | NE | GW038206 | -30.81037 150.605018 | Not Known | 12.8m | - | - |

Groundwater was not assessed during previous investigations due to the limited leaching potential of the identified arsenic (confirmed with Toxicity Characteristic Leaching Procedure analysis), the observed reduction in concentration within a shallow depth, the clay rich soils and the anticipated depth of groundwater. Further discussion on why the arsenic impacted soils do not pose a risk to groundwater are provided in **Section 7.3**.

6.4 Topography

A review of the overall development site's topography conducted using Google Earth topographical data suggests that the site is relatively flat, ranging between around 325 m Australian Height Datum (AHD) and 410m AHD, with typical grades of 2% (2m in every 100m). The proposed remediation area has an elevation of approximately 373-374m AHD.

6.5 Acid Sulfate Soils

A review of the Australia Soil Resource Information System (ASRIS) indicated that there was no known occurrence of acid sulfate soils at or within the immediate vicinity of the proposed remediation area.

7 Revised Remedial Action Plan

7.1 Remedial Goal

The primary remedial goal for this site is to reduce the risk posed to human and environmental receptors in the proposed development from the identified arsenic impacted soil.

Given the proposed development includes residential housing (considered to be low density), the criteria applied to the remediation would be the National Environmental Protection Council's *National Environmental Protection (Assessment of Site Contamination) Measure*, as amended in 2013 (NEPM 2013) 'Schedule B1 – *Guideline on Investigation Levels for Soil and Groundwater*'. The NEPM 2013 guidelines provide a framework for the use of investigation and screening levels based on human health and ecological risks.

The soil health investigation levels (HILs) detailed in the NEPM (2013) are scientifically based, generic assessment criteria designed to be used in the initial screening of data for assessment of potential risks to human health from chronic exposure to contaminants. The following HILs are referenced in the NEPM (2013) guidelines:

- HIL-A includes standard residential with garden/accessible soil
- HIL-B includes residential with minimal opportunities for soil access, includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats
- HIL-C includes developed open space such as parks, playground, playing fields (e.g. ovals), secondary schools and footpaths and
- HIL-D includes commercial/industrial premises such as shops, offices, factories and industrial sites.

In consideration of the site's proposed land use, the remedial action criteria (RAC) has been selected based upon a residential (HIL-A) land use, which is considered to be the most conservative approach.

Soils exceeding the adopted RAC will require to be remediated and/or managed.

7.2 Extent of Remediation Required

Remedial works are required for the arsenic impacted soil material within the vicinity of the former sheep dip.

The lateral extent of elevated arsenic detected during the DSI (SLR 2019) has been presented in the following of **Appendix A:**

- **Figure 3** (upper portion of the remedial area 0.1-0.2 metres below ground level [mbgl]),
- **Figure 4** (intermediate portion of the remedial area 0.6-0.8 mbgl) and;
- **Figure 5** (deep portion of the remedial area 0.9-1.3 mbgl) with the extent presented based on exceedance of the adopted HIL-A guideline value of 100 mg/kg.

The maximum depth of elevated arsenic contamination detected during the DSI (SLR 2019) was at 1.2 mbgl, which was the depth of practical refusal (on weathered shale) with the small excavator utilised. Noting that concentrations of arsenic decreased with depth.

The extent of shallow arsenic contamination may also extend beneath the former sheep holding shed located immediately to the east of the former sheep dip site.

7.3 Risk to Underlying Groundwater

The nearest groundwater extraction bore is located approximately 95m southeast of the remediation area. The bore which was drilled to approximately 65 mbgl, had a water bearing zone logged at 14mbgl, however, no extraction from this depth was noted.

Bore drill logs for the site indicate the presence of weathered regolith (saprolite) recorded as clay lithology. This layer, where logged, is between 0.5 and 3 m thick approximately 2 m below the surface layer restricting downward migration of water into the groundwater system, immediately above competent basement rocks.

Numerous groundwater bore installations are proposed as part of the site development for extraction purposes. It is noted that the nearest proposed groundwater bore is approximately 800m north-west of the site, having an approximate constructed depth of approximately 180mbgl with uppermost 50m containing cement grout to prevent overlying aquifer intrusion.

The closest downgradient surface water body is 3.1 km to the west of the site and is unlikely to be impacted by contamination contained on-site.

Mobilisation of the arsenic contamination is considered to be low, as analysis results included in the DSI indicated low leachability of the arsenic impacted soils. Arsenic leachability analysis indicated a mean of 0.57 mg/L and a maximum value of 4.80 mg/L, which is lower than the NSW EPA 2014 General Solid Waste TCLP1 (leached) criteria (5.0mg/L).

Additionally, SLR referred to the US EPA (EPA 2009) regulatory threshold for the toxicity characteristic of leachable arsenic of 5.00 mg/L. The leachability of arsenic is below 5.00 mg/L (as measured by the toxicity characteristic leaching procedure [TCLP]), which is a common treatment goal for soil and waste in accordance with Resource Conservation and Recovery Act (RCRA, 1976).

Given the low leachability of the arsenic impacted soil, the depth to groundwater, the distance to the nearest surface water body, the risk to groundwater from the arsenic impacted soil is considered to be low.

7.4 Remedial Options

A number of remedial options were considered for the arsenic contaminated soils at the site. In consideration of the proposed land use and fiscal viability, the remedial options outlined in the following options are considered appropriate to remediate the site.

7.4.1 Excavation and Off-Site Disposal

Off-site disposal to an appropriately licensed landfill facility was originally proposed and approved as part of the 2019 RAP to remediate the site. It has since been identified that the landfill at Kemps Creek on the western fringes of Sydney is the only landfill licensed in NSW to take the contaminated soil. Based on contractor pricing for the transport and disposal of the arsenic contaminated soil at Kemps Creek, this option is now the least fiscally viable due to the sites' remote location and the distance to Kemps Creek. The waste hierarchy, which underpins the objectives of the Waste Avoidance and Resource Recovery Act 2001, also promotes the diversion of waste from landfill disposal, therefore making disposal to landfill less preferable.

7.4.2 On-Site Management – Cap and Contain

Arsenic contaminated soil identified at the site could be managed using a cap and contain methodology, with the construction of a suitable barrier to reduce the likelihood of exposure of potential receptors to the underlying arsenic impacted soil. To achieve this remedial option, an adequately sized containment cap would need to be constructed at the site. Ongoing management of the cap, via an Environmental Management Plan (EMP), would be required.

The containment cap would provide a barrier between the impacted soil and site users. The cap would include a low permeability cover layer to reduce surface water infiltration, thus minimising the potential for arsenic to leach from the soils, providing additional protection to groundwater. However, given the low risk to groundwater (refer **Section 7.3**), groundwater protection is not the driver for remediation.

The onsite management option would include the creation of an exclusion perimeter with appropriate signage to further reduce the likelihood of exposure of potential receptors.

Additionally, mechanisms to prevent development and disturbance in the future would be required, such as identification/registration of the area on the following:

- The site's Section 10.7 council planning certificate
- Certificate of title
- Planning authority tools such as Council's GIS
- Dial Before You Dig and
- Other relevant planning/environmental databases.

A cap and contain methodology is considered to be the preferred remedial option based on human and ecological health risk potential, fiscal viability and the long-term site use.

7.5 Remedial Strategy

Based on the discussions with the client, consultation with the EPA, the risks posed to potential receptors including humans at the site and groundwater, and in consideration of the proposed development, the preferred alternative remedial strategy is on-site containment of arsenic contaminated soil.

8 Remedial Sequence of Works

8.1 Preparatory Works

8.1.1 Approvals and Notifications

The remediation of soil impacted with arsenic is considered Category 2 remediation works.

As outlined in the *State Environment Planning Policy No 55 – Remediation of Land*, where Category 2 remediation work is proposed to be carried out on any land, notice of the proposed work must be issued to the council for the local government area in which the land is situated.

The notice must be given at least 30 days before the commencement of the work and must include the following:

- be in writing, and provide the name, address and telephone number of the person who has the duty of ensuring that the notice is given
- briefly describe the remediation work
- show why the person considers that the work is Category 2 remediation work
- specify, by reference to its property description and street address (if any), the land on which the work is to be carried out
- provide a map of the location of the land and
- provide estimates of the dates for the commencement and completion of the work.

A notice of completion of remediation work on any land must be given to the council for the local government area in which the land is situated within 30 days after the completion of the work. A validation report, detailing the works undertaken will also be issued to the council within 30 days of completion of remediation work. Details to be included in the validation report have been outlined in **Section 8**.

8.1.2 Site Establishment

The remediation contractor will mobilise plant and equipment appropriate to the nature and extent of the project.

Site establishment will include the setup of remediation works zones with appropriate fencing, barriers and signage to delineate the zone from other work areas and set up and implementation of the environmental controls specified in this RAP.

8.1.3 Underground and Overhead Services

All services on the site will be required to be identified prior to remediation works and terminated or re-directed if required.

8.1.4 Demolition and Removal of Sheep Holding Shed

The demolition and removal of the existing sheep holding shed within the remedial area indicated on **Figure 6** in **Appendix A** is required to enable delineation of contamination within the shed area to determine extent of capping.

8.1.5 Delineation of Capping

The extent of the remedial area will be guided by laboratory analysis of delineation samples subsequent to demolition and removal of the sheep holding sheep. Samples are to be collected from near surface (0.0-0.1 m bgl) extending from west from TP15 (2 samples) and east from TP 17 (3 samples) as indicated in **Figure 6** in **Appendix A**. The remediation capping will be extended as required until the selected validation criteria are satisfied.

8.1.6 Site Surveying

Site survey is required to be conducted prior to the commencement of capping works to establish the base level and to mark out the extents of the cap. The base level survey would be used to determine the elevations and extents of each layer for use by the contractor.

Survey would also be required upon completion of each capping layer to validate the capping layers have achieved the desired thickness, grade and extent. The survey would need to show thickness of each layer perpendicular to the slope and take readings at a maximum of 10 m centres.

8.2 Remedial Works

A summary of the layers and stages included in the cap is provided in the following.

8.2.1 Vegetation removal

Prior to the placement of any material for the cap, vegetation in the remedial area needs to be removed to the extent practical without disturbing the impacted soil. This will include:

- mowing the area as close to ground level as possible and
- covering area with weed matting.

8.2.2 Capping Construction

The remedial area should be capped in accordance with **Figure 7** of **Appendix A**. Layers of the capping are summarised in **Table 8-1** and outlined in the sections below. The cap should be a minimum of 5 % grade to enable surface water runoff, and a maximum of 20% grade to reduce the likelihood of erosion.

Table 8-1 Remedial Area Capping Summary (from bottom to top)

| Capping Layer No. | Description |
|---|---|
| Layer 1 – Earthen Cover Layer | Typically, a clay rich layer of cover soil and minimum of 0.30 m thick. This layer thickness is proposed to be increased in thickness to achieve final design grades. |
| Layer 2 – Low Permeability Compacted Clay | Typically, onsite silty clays without boulders and minimum of 0.30 m thick. |
| Layer 3 - Upper Subsoil | Typically, a sandy clay sub-base minimum 0.50 m thick |
| Layer 4 – Topsoil Layer | Typically, 0.20 m thick |
| Total | 1.30 m thick (min) |

8.2.2.1 Earth Cover Layer Construction

The earth cover layer will be placed over the weed mat and thickened as required to achieve final cap grades. It will act as a working platform for construction of the low permeability clay layer. The layer should include site won clay rich soils, with no material greater than 150 mm, and not more than 20% of the material having dimensions greater than 40 mm.

The layer shall be compacted in maximum 200 mm (compacted) layer thickness.

8.2.2.2 Low Permeability Compacted Clay Cover Layer Construction

The low permeability compacted clay layer will be placed over the earth cover layer to and will act to reduce surface water infiltration into the remedial area. The layer should include site won clay rich soils, capable of achieving a permeability of 1×10^{-8} or lower. The clay should be free of material greater than 40 mm. The layer should be a minimum of 0.3 m thickness.

The layer shall be compacted in maximum 200 mm (compacted) layer thickness. The soil should be moisture conditioned during placement to make it workable into a uniform layer. The lower layer shall be scarified prior to placement of the overlying layer to assist in developing a uniform clay layer. The layer shall be compacted using a vibrating pad foot roller or similar, , and each layer scarified prior to placement of the overlying layers.

The clay layers shall be covered soon after placement to ensure they do not dry out and crack.

8.2.2.3 Upper Subsoil Layer

The upper subsoil layer will be placed over the low permeability compacted clay layer. It will act as a protection layer over the compacted clay and provide additional thickness between receptors and the arsenic impacted soil. The layer should be a sandy clay or silt, with no material greater than 150 mm.

The layer shall be compacted in maximum 200 mm (compacted) layer thickness.

8.2.2.4 Topsoil layer Placement

The topsoil layer will be placed over the upper subsoil layer. It will accommodate shallow rooted vegetation. It could be a compost layer (in accordance with AS 4454), and must be free of material greater than 150 mm. It should be capable of supporting vegetation. The topsoil layer shall be a minimum of 0.2 m thick and be loosely placed and not compacted.

8.2.3 Vegetation Establishment

The entire topsoil layer shall be vegetated with grasses. Vegetation should not include species with roots that could penetrate the upper subsoil layer. Where possible, the grasses should be native and be similar to existing grasses at the Site.

8.2.4 Perimeter Fencing and Signage

The remedial area shall be secured with perimeter fencing and associated signage to be constructed to be:

- Vermin proof

- Outside of the remedial area
- Include signage identifying arsenic impacted soil and that no excavation can occur, and contact details of relevant authorities and parties should access be required.

The remedial area will require access for maintenance and mowing and should include a locked gate that can accommodate mowing equipment and plant that may be required for maintenance works in the future (if required).

8.3 Registration/Identification of Area

Given the presence of arsenic impacted soil, all efforts must be made to activate mechanisms that will prevent disturbance of the area. These include identification/registration of the area on the following:

- The site's Section 10.7 council planning certificate
- Certificate of title
- Planning authority tools such as Council's GIS
- Dial Before You Dig
- NSW EPA contaminated land register and
- Other relevant planning/environmental databases.

8.4 Imported Soil Material

Capping soil material can be virgin excavated natural material (VENM) sourced from within the site or from an off-site source. Imported VENM from an off-site source is to be accompanied by a certificate prepared by a suitably qualified consultant verifying that the material is VENM. The VENM certificate should be reviewed and approved by a suitably qualified environmental consultant and the VENM material should be inspected by a suitably qualified environmental consultant prior to placement.

8.5 Environmental Management Plan

An EMP will be required for the remedial area, and will be prepared at the completion of the remediation and validation work. It will include the validation report as an attachment and will document the necessary management requirements for the remedial area and associated responsible parties.

8.6 Unexpected Finds Protocol

The assessments to date have not indicated the presence of significant soil contamination that would preclude the proposed remedial activities and methodology. However, it is possible that, yet unidentified contamination is present within the fill material/subsurface of the site.

Potentially hazardous substances could include, but are not limited to:

- Underground storage tanks
- Buried containers and drums
- Phase separated hydrocarbons

- Asbestos containing materials
- Powders and other suspicious buried material and
- Evidence of contamination including significant staining, odours and discolouration.

SLR has prepared a detailed Unexpected Finds Procedure for inclusion in the Construction Environmental Management Plan (CEMP) for the poultry farm development in accordance with condition B50 of Development Consent SSD 7704. In summary, in the event that any material suspected of containing potentially hazardous substances is found during remediation works, the following steps will be followed:

1. The environmental consultant and relevant authorities will be consulted immediately for assessment and advice.
2. The area of concern will be cordoned off.
3. Appropriate environmental management measures will be implemented until the assessment is completed and further advice is received from the consultant.
4. The environmental consultant will undertake any necessary assessment and provide advice on a strategy to manage the identified unexpected contamination.
5. The RAP may require revision depending on the findings and proposed management strategy.

8.7 Remediation Contingency Plan

Based on potential uncertainties associated with soil remediation works of this nature, the situations and contingencies presented in **Table 8-2** will be considered during remediation works.

Table 8-2 Remediation Contingency Measures

| Situation | Contingency Measure | Potential for Occurrence |
|---|---|--|
| Encountering yet unidentified contamination | The identified contamination (the nature and extent) will be assessed by a qualified and experienced environmental consultant, such that it can be appropriately remediated | Low potential to encounter yet unidentified contamination |
| Volumes of contaminated material being significantly greater than anticipated | Extension of capped area | Low potential to occur based on the delineation data from DSI (SLR 2019) |

9 Validation

9.1 Validation Criteria

9.1.1 Health Screening Levels – Arsenic

To ensure that remaining soil following remedial works is considered suitable for the proposed development, reference will primarily be made to the NEPM 2013 HIL-A guideline as outlined in **Section 6.1**.

Soils exceeding the adopted RAC will require to be included in the remedial area.

9.1.2 Aesthetics

The NEPM (2013) requires that aesthetic quality of accessible soils be considered even if testing suggests that the concentrations of contaminants of concern are within acceptable limits.

No specific numerical guidelines have been assigned for aesthetics. However, NEPM (2013) indicates that professional judgement with regard to quantity, type and distribution of foreign material and/or odours in relation to the specific land use and its sensitivity will be employed.

The following circumstances are considered likely to trigger further aesthetic assessment:

- Highly malodorous soils (e.g. strong residual petroleum hydrocarbon odours, hydrogen sulphide in soil or extracted groundwater, organo-sulfur compounds)
- Discoloured chemical deposits or soil staining with chemical waste other than of a very minor nature
- Large monolithic deposits of otherwise low risk material, e.g. gypsum as powder or plasterboard, cement kiln dust
- Presence of putrescible refuse including material that may generate hazardous levels of methane and
- Soils containing residue from animal burial.
- Asbestos containing materials

In arriving at a balanced assessment, the presence of small quantities of non-hazardous inert material and low odour residue (for example, weak petroleum hydrocarbon odours) that will decrease over time, should not be a cause of concern or limit the use of a site in most circumstances. Similarly, sites with large quantities of well-covered known inert materials that present no health hazards such as brick fragments and cement wastes (for example, broken cement blocks) are usually of low concern for both non-sensitive and sensitive land uses.

Given the results from the DSI, it is considered unlikely that soil will require additional remediation based on aesthetic observations.

9.2 Construction Quality Assurance

Independent verification of construction by a suitably experience person is required throughout remedial activities. This should include:

- Survey (or other method) of each layer to demonstrate layer thickness, elevation and grade at maximum of 10m centres
- Preconstruction permeability testing of clay material for sue in the low permeability compacted clay layer
- Particle size distribution testing of each soil layer prior to construction
- Contamination testing of any imported soil
- Photographs of each layer following construction
- Inspection of the surface prior to placement of earth cover layer, during construction of low permeability clay layer, and following vegetation establishment
- Review of survey data for each layer to confirm layer thickness

- Review of clay testing results
- Preparation of construction validation report detailing all elements of construction, and detailing any variations to the design

9.3 Validation Reporting

Following the completion of all remediation activities, a validation report will be prepared in accordance with NSW EPA 2020, *'Contaminated Land Guidelines: Consultants Reporting on Contaminated Land'*.

The validation report will include the following:

- Executive summary
- Scope of work
- Site identification
- Summary of site history
- Summary of site condition and surrounding environment
- Summary of geology and hydrogeology
- Construction validation report detailing all elements of construction, and detailing any variations to the design
- Information on remediation works, including site activities, waste documentation correlation and validation
- Results of field and laboratory work
- Field and laboratory quality assurance/control information and evaluation
- Site validation discussion
- Ongoing site monitoring requirements (if any) and
- Conclusions and recommendations.

10 Data Quality Objectives

Data quality objectives (DQO) have been developed using the seven step processes described in NSW EPA 2017, *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (3rd edition)*.

10.1 Step 1 – State the Problem

Elevated concentrations of arsenic in shallow soils require remediation and validation to confirm the suitability of the remediation area for the proposed land use.

10.2 Step 2 – Identify the Decision

The decisions that need to be made during this project include:

- Is the field and laboratory analytical data suitable for assessing the quality of the media being assessed

- Does residual soil contamination remaining on site following remediation present an unacceptable exposure human health exposure risk for the proposed land use scenario.

10.3 Step 3 – Identify Inputs to the Decision

The primary inputs to assessing the above include:

- The site history
- Location, distribution and intervals of sampling at the site
- Data collected during previous assessments, including field measurements, field observations and laboratory analysis results
- Outcomes of the assessment of the quality of collected data
- Site inspections and observations during remediation.

Validation criteria will be adopted from NEPM (2013) as outlined in **Section 8**.

10.4 Step 4 – Define the Study Boundaries

The lateral extent of the soil requiring remediation has been defined in **Figure 6** in **Appendix A**. The vertical boundaries are the depth of arsenic impacted soils. The temporal boundaries include the results of the previous sampling and the remediation works.

10.5 Step 5 – Develop a Decision Rule

The decision rules for the project will be as follows:

- If the site inspections confirm that the capping layer has been installed as per the RAP, then the site will be considered suitable for the proposed land use.
 - Note if there is insufficient information to confirm the nature of the capping layer installed, further assessments may be required to confirm the suitability of the site for the proposed land use.
- Where laboratory analysis is required:
 - If the results of the laboratory analytical data and QAQC samples are acceptable, the data will be considered suitable for the purposes of the project. Data will be assessed for completeness, comparability, representativeness, precision and accuracy
 - If the results of the laboratory analytical data are below the RAC, then the level of contamination in the media assessed will be considered an acceptable exposure risk
 - If the results of laboratory analytical data exceed the RAC, then the level of contamination in the media assessed may require further assessment, management or remediation.

10.6 Step 6 – Specify Acceptable Limits on Decision Errors

There are two types of error:

- Deciding that contamination on the site is an acceptable risk for the proposed land use when it is not and
- Deciding that contamination on the site is not an acceptable risk for the proposed land use when it is.

Confidence in the reliability of assessment methods (e.g. field observations, laboratory analysis and data review) will be based on appropriate levels of qualification and/or experience in the personnel undertaking the relevant task.

10.7 Step 7 – Optimise the Design for Obtaining Data

10.7.1 Photographic Records

Photographs will be taken of the remediation activities and the finished capping.

10.7.2 Location Records

Each sampling location will be recorded using a handheld GPS unit with the depth of each sample to be recorded.

10.7.3 Sample Identification, Storage and Transport Procedures

Samples will be identified using unique sample identifiers and sample depths.

Samples will be placed in laboratory prepared containers and zip lock bags, as appropriate. The sample containers will then be placed directly into an insulated container with ice, for transportation to the NATA accredited analytical laboratory with the chain of custody (COC) form recording the following information:

- Project job number
- Date of sampling
- Sample identifier
- Sample matrix and container type
- Preservation methods used
- Analysis requirements for each sample
- Turnaround times required for analysis and
- Names and signatures of sender and receiving laboratory.

A copy of the COC will be kept in the job file. Samples will be transported to the laboratory with sufficient time to perform analysis within the applicable holding period.

10.8 Quality Assurance / Quality Control

10.8.1 Intra-laboratory Duplicates

Intra-laboratory field duplicates will be collected on an average frequency of one sample per twenty samples collected (5%), with a minimum of one per batch. The analytical results of the two split samples will be compared to assess the precision of the sampling protocol and provide an indication of variability in the sample source. The relative percentage difference (RPD) acceptance limits are as follows:

- No limit analytical results <10 times laboratory limit of reporting (LOR)
- 50% analytical results 10-20 times LOR
- 30% analytical results >20 times LOR

Any RPD exceedances are to be assessed to determine whether the project DQO's can still be addressed.

10.8.2 Inter-Laboratory Duplicates

Inter-laboratory field duplicates will be collected on an average frequency of one sample per twenty samples collected (5%) with a minimum of one per batch. The analytical results of the two split samples are to be compared to assess the precision of the sampling protocol and provide an indication of variability in the sample source. The RPD acceptance limits are as follows:

- No limit analytical results <10 times LOR
- 50% analytical results 10-20 times LOR
- 30% analytical results >20 times LOR

Any RPD exceedances are to be assessed to determine whether the project DQO's can still be addressed.

10.8.3 Laboratory Data Quality Indicators

The laboratory data quality will be assessed by checking the following:

- Laboratory methods used are NATA accredited
- Laboratory limits of reporting are less than adopted RAC
- Samples are extracted and analysed within holding times and
- Results of method blanks, surrogate, lab control sample, spike recoveries RPDs between primary and duplicate laboratory samples.

Where results of laboratory quality control samples exceed the relevant adopted control limit, the laboratory will be requested to assess the significance of the exceedance on the quality of the laboratory analytical data for the relevant batch. Based on the significance of the control limit exceedance, the data will be assessed against the project DQO's.

10.8.4 Decontamination Procedures

Non-disposable sampling equipment will be decontaminated before and between sampling locations to reduce the potential for cross contamination to occur between samples. Decontamination will include the following procedure:

- Washing non-disposable sampling equipment in a solution of phosphate free detergent (e.g. Decon 90) and potable water; and
- Rinsing with distilled water.

11 Site Management

11.1 Register of Contacts

A register of contacts for the remedial works is presented in **Table 11-1**.

Table 11-1 Register of Contacts

| Project Role | Person Assigned | Company | Contact Details |
|--|-----------------|------------------------|---|
| Environmental Consultant implementing RAP | Jason Roesler | SLR Consulting Pty Ltd | +61 2 9427 8100 jroesler@slrconsulting.com |
| Project Site Manager | TBA | TBA | TBA |
| Remediation Contractor | TBA | TBA | TBA |
| Independent Construction Quality Assurance Officer | TBA | TBA | TBA |
| Environmental Regulator | TBA | NSW EPA | 131 555 info@environment.nsw.gov.au |
| Planning Authority | Sally Munk | DPIE | 9274 6431 sally.munk@planning.nsw.gov.au |

11.2 Hours of Operation

The remediation works will be conducted between the hours of 7:00am to 6:00pm Monday to Friday and 8:00am to 1:00pm on Saturdays.

No work will be conducted on Sundays, public holidays or outside the hours specified above without approval from the appropriate regulatory authorities.

11.3 Site Signage and Contact Numbers

A sign displaying the contact details at which the remediation contractor may be contacted outside working hours (and site facilitator if different to the remediation contractor) will be displayed on the nominated remedial areas adjacent access to the areas. The signs will be displayed throughout the duration of the remediation works.

11.4 Site Security

The nominated remedial area will be secured with appropriate fencing to prevent unauthorised access.

11.5 Soil and Water Management

11.5.1 Site Access

Vehicle access to the remedial area will be stabilised to prevent tracking of sediment onto roads and footpaths. Soil, earth, mud or similar materials will be removed from the roadway by shovelling or a means other than washing, that isn't anticipated to generate dust, on a daily basis or as required.

Trucks will be unloaded within the remediation area.

Soil and sediment will be washed off vehicle/plant tyres and tracks, prior to vehicles/plant leaving the remediation area. This soil and sediment will be scraped / swept up and or disposed of depending on its contamination status.

A site-specific sediment and erosion control plan will be prepared and maintained by the remediation contractor. Erosion and sediment control measures will be maintained in a functional condition. Sediment laden stormwater runoff will be controlled using measures outlined in Landcom 2004, '*Managing Urban Stormwater - Soils and Construction*' (the Blue Book).

11.5.2 Stockpiles

It is not envisaged that stockpiling will be required. However, should stockpiling be undertaken as part of the remedial works, stockpiles of soil or other materials:

- Will be stored in a secure area
- Will be covered. Covering of the stockpiles will be undertaken by the contractor, subject to site conditions, expected inclement weather and duration the stockpile is expected to remain on site and
- Will be placed on a level area as a low elongated mound

11.5.3 Groundwater and Surface Water

Given the distance between the remediation area and closest surface water body, it is considered highly unlikely that any surface water from the remedial actions will discharge into a surface water receptor. There is also no reticulated stormwater or sewer infrastructure to receive surface water from the remedial area.

Given the likely depth of groundwater and underlying clay, it is considered highly unlikely that groundwater will be impacted by the proposed remedial works.

11.6 Noise and Vibration

Noise levels from the site during the project will not exceed the limits indicated in AS2436-2010.

No 'offensive noise' as defined under the *Protection of the Environment Operations Act 1997* will be created during remediation works/activities.

11.7 Air Quality

11.7.1 Dust

Dust may be generated during demolition, transport and placement activities. To prevent excessive dust generation on site and emissions beyond the site boundary, if applicable, consideration will be given to implementing following procedures:

- Securely covering all loads entering or exiting the site. All trucks carrying soil to the site must be covered securely
- Use of water sprays across the site to suppress dust
- Keeping worked surfaces moist, where practical and deemed necessary
- Wetting down of placed fill material during spreading (if required)

- Minimising soil disturbance works during windy days and
- Maintaining stabilised site access/egress points for vehicles.

11.7.2 Odours

Given the findings of previous site assessments, generation of significant odours during the remediation works is considered to be highly unlikely.

11.8 Transport Vehicles

Haulage routes for trucks transporting soil, materials, equipment or machinery to and from the remedial area will be selected by the remediation contractor and will meet the following objectives:

- Compliance with all traffic road rules
- Minimisation of noise, vibration and odour to adjacent premises
- Utilisation of State roads and minimisation of use of local roads.

The remediation contractor will ensure that all site vehicles:

- Carrying imported soil to the site must be securely covered
- Conduct deliveries of soil, materials, equipment or machinery during the hours of remediation work identified in **Section 11.2**
- Exit the site in a forward direction
- Do not track soil, mud or sediment onto the road.

11.9 Importation of Fill

Any soil to be imported to the site will under-go a visual inspection and validation through soil sampling. If material is to be imported to the site it is recommended that the material be certified as VENM. Imported VENM material with appropriate certification will be sampled at a rate of one sample per 100 m³ and one sample per 25 m³ of imported material that does not have appropriate certification for a general suite of contaminants of potential concern being TRH, BTEX, PAH, OCP/OPP, metals and asbestos (presence/absence).

11.10 Occupational Health and Safety

11.10.1 Hazard Identification and Risk Assessment

Each party working within the remediation area will prepare a project specific safe work method statement (SWMS) or job safety analysis (JSA), which will include:

- Identification of hazards associated with work tasks
- A risk assessment undertaken against each hazard identified
- Identification of control measures to mitigate or eliminate risks associated with the hazards identified.

11.10.2 Personnel Decontamination

Personnel working at the site are required to be decontaminated prior to leaving the remediation works zone. Decontamination will include:

- Cleaning down of boots
- Removal and discarding of all disposable personal protection equipment (PPE) items including the coveralls and masks
- Washing of hands.

11.10.3 Personal Protective Equipment

The minimum PPE required to be worn by persons entering the site during remediation works will comprise of the following:

- Hard hats
- Steel cap boots
- Hi-vis vest.

11.11 Emergency Preparedness

An emergency muster point will be established at the egress point of the site, to assemble workers in the event of an emergency. This muster point will be communicated to all workers during the project induction process.

Fire extinguishers and spill control kits will be available on site.

A register of contacts to be utilised in the event of an emergency is presented in **Table 11-2**.

Table 11-2 Emergency Response Contacts

| Project Role | Person Assigned | Company | Contact Details |
|------------------------------------|-----------------|---------------------------|-----------------|
| Emergency Services | - | Fire / Police / Ambulance | 000 |
| OH&S Regulatory Authority | - | SafeWork NSW | 13 10 50 |
| Environmental Regulatory Authority | - | NSW EPA Environment Line | 131 500 |
| Project Site Manager | TBA | TBA | TBA |
| Remediation Contractor | TBA | TBA | TBA |
| Environmental Consultant | TBA | TBA | TBA |

11.12 Community Relations

Given the remote location of the remediation area, it is highly unlikely that the remediation will impact on adjoining neighbours. However, in-line with the commitments made in the EIS, the surrounding residents will be notified of the remediation works at least two days prior to the commencement via a letter drop. The letter will provide an overview of planned remediation activities, advise expected works duration and hours, and advise relevant site contacts.

Communication and complaints received for the remediation works will be reported to the Project Manager. All communications and complaints will be assessed and an appropriate response, corrective and/or preventative action implemented (as necessary).

A communication and complaints register will be operated on site to ensure that concerns of local residences and businesses are recorded and addressed.

12 Conclusion

SLR considers that soils on the site can be made suitable for the proposed development, subject to:

- Implementation of the measures outlined in this revised RAP
- Preparation of a site validation report
- Development of an EMP for the ongoing management of the remedial area.

13 Limitations

This RAP is for the exclusive use of ProTen Tamworth Pty Limited. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR Consulting.

This report has been prepared based on the scope of services (see below). SLR Consulting cannot be held responsible to the Client and/or others for any matters outside the agreed scope of services. Other parties should not rely upon this report and should make their own enquiries and obtain independent advice in relation to such matters.

This report has been prepared by SLR Consulting with reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with the Client. Information reported herein is based on the interpretation of data collected (data, surveys, analyses, designs, plans and other information), which has been accepted in good faith as being accurate and valid.

It should be noted that many investigations are based upon an assessment of potentially contaminating processes which may have occurred historically on the site. This assessment is based upon historical records associated with the site. Such records may be inaccurate, absent or contradictory. In addition documents may exist which are not readily available for public viewing.

Except where it has been stated in this report, SLR Consulting has not verified the accuracy or completeness of the data relied upon. Statements, opinions, facts, information, conclusions and/or recommendations made in this report ("conclusions") are based in whole or part on the data obtained, those conclusions are contingent upon the accuracy and completeness of the data. SLR Consulting cannot be held liable should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to SLR Consulting leading to incorrect conclusions.

Should the report be reviewed for any reason, the report must be reviewed in its entirety and in conjunction with the associated Scope of Services. It should be understood that where a report has been developed for a specific purpose, for example a due diligence report for a property vendor, it may not be suitable for other purposes such as satisfying the needs of a purchaser or assessing contamination risks for classifying the site. The report should not be applied for any purpose other than that originally specified at the time the report was issued.

Report logs, figures, laboratory data, drawings, etc. are generated for this report by SLR consultants (unless otherwise stated) based on their individual interpretation of the site conditions at the time the site visit was undertaken. Although SLR consultants undergo training to achieve a standard of field reporting, individual interpretation still varies slightly. Information should not under any circumstances be redrawn for inclusion in other documents or separated from this report in any way.

APPENDIX A

Figure 1

..... Site Locality

Figure 2

..... Site Layout

Figure 3

..... Site Contamination Delineation (0.1-0.2 metres)

Figure 4

..... Site Contamination Delineation (0.6-0.8 metres)

Figure 5

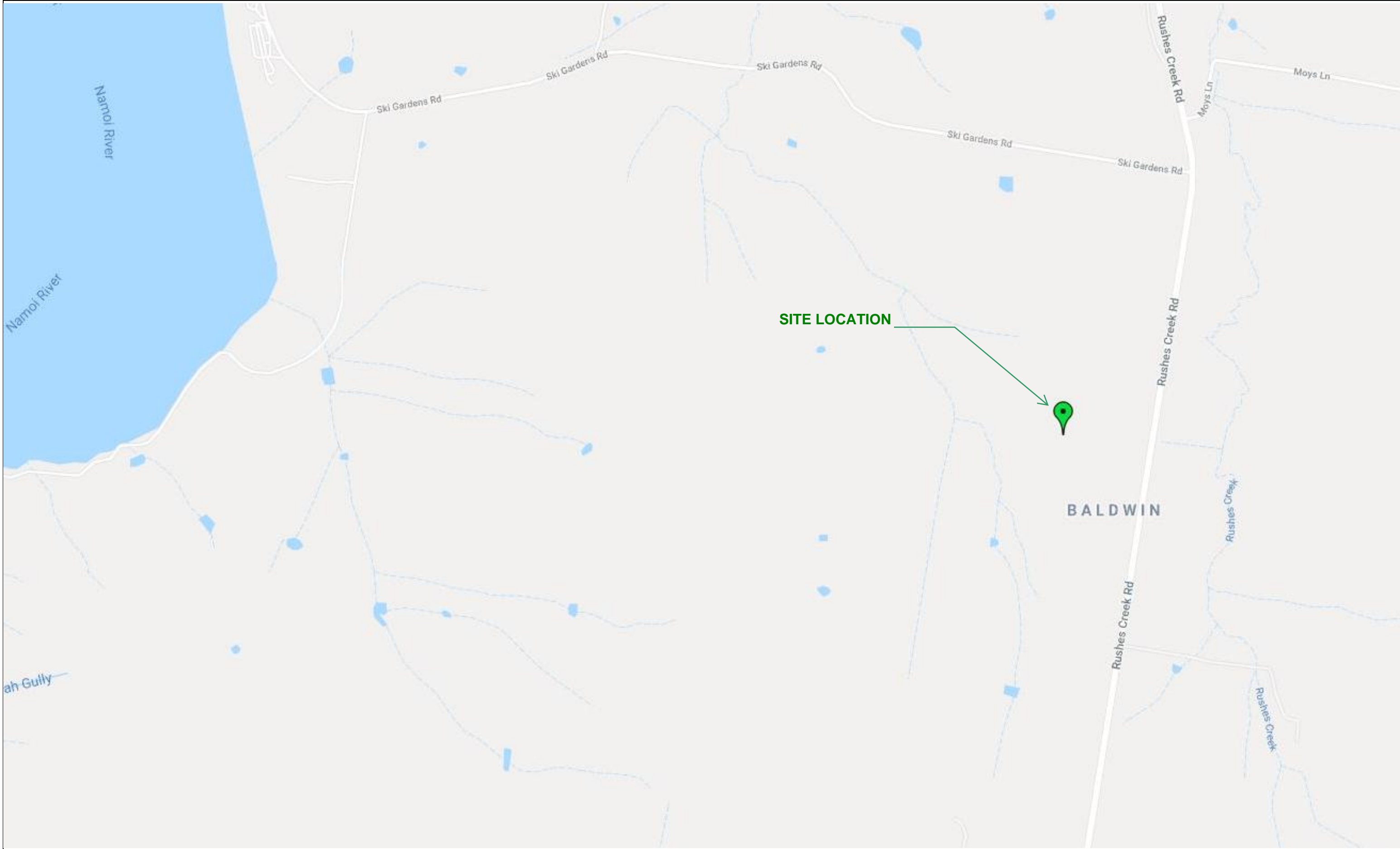
..... Site Contamination Delineation (0.9-1.3 metres)


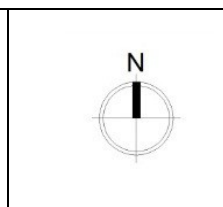
Figure 6

..... Site Contamination Delineation (preliminary remedial area)

Figure 7





..... Concept Capping System



| | | | | | | | |
|--|---|---|---|---|-------------------|---|--|
|  | <p>202 Submarine School, Sub Base Platypus, North Sydney, NSW, 2060</p> | <p>T: +61 2 9428 8100 sydney@slrconsulting.com www.slrconsulting.com</p> | <p>Ref: 610.30237.00000 Proposed Poultry Production Complex Rushes Creek Road, Rushes Creek, NSW</p> | <p>Figure 1 Site Locality</p> | <p>April 2021</p> |  | <p>Prepared: JR 09/04/2021 Checked: JE 09/04/2021</p> |
|--|---|---|---|---|-------------------|---|--|




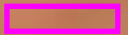



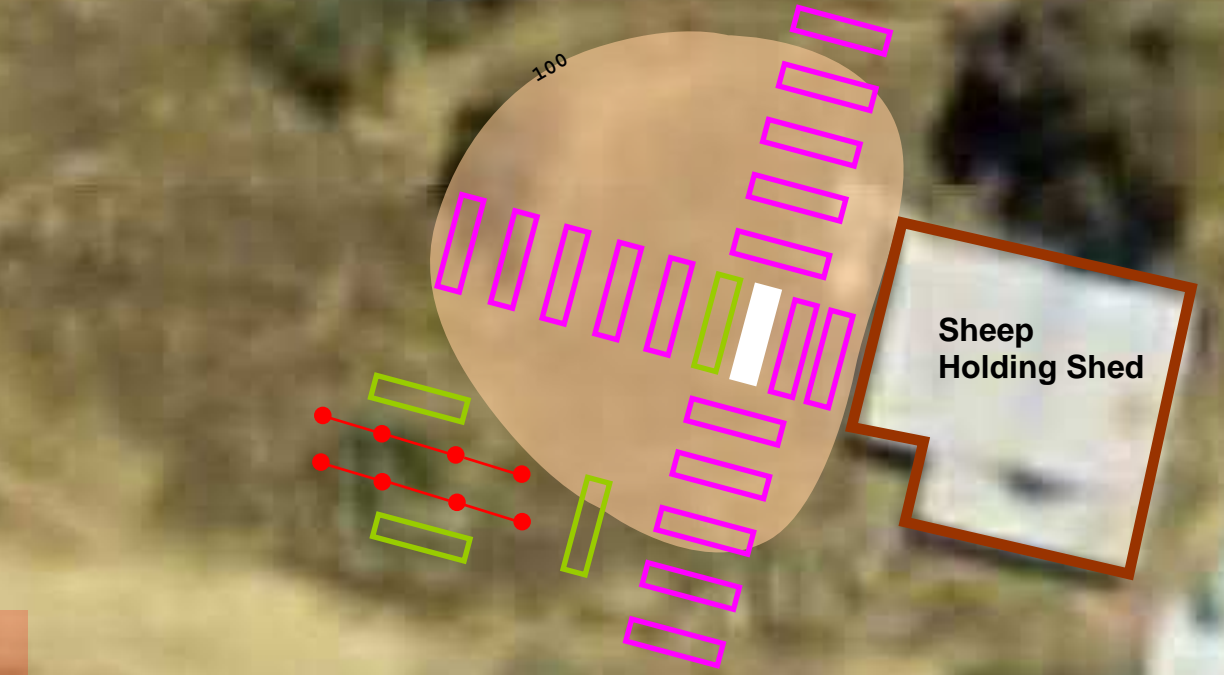
LEGEND:

-  Sheep Dip
-  Potential Sheep Dip
-  Test Pits Round 1 (DSI)
-  Test Pits Round 2 (Delineation)

Arsenic concentrations (mg/kg) at depth 0.1 metres to 0.2 metres

LEGEND:

-  Sheep Dip
-  Potential Sheep Dip
-  Test Pits with Arsenic concentration
-  Test Pits with Arsenic concentration
-  Estimated extent of Arsenic contamination



Arsenic concentrations (mg/kg) at depth 0.6 metres to 0.8 metres






LEGEND:

- Sheep Dip
- Potential Sheep Dip
- Test Pits with Arsenic concentration
- Estimated extent of Arsenic contamination



Arsenic concentrations (mg/kg) at depth 0.9 metres to 1.3 metres

LEGEND:

-  Sheep Dip
-  Potential Sheep Dip
-  Test Pits with Arsenic concentration
-  Test Pits with Arsenic concentration
-  Estimated extent of Arsenic contamination



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Remedial Action Plan
Ref: 610.18456.00100

Proposed Poultry Production Complex
Rushes Creek Road, Rushes Creek, NSW

February 2019

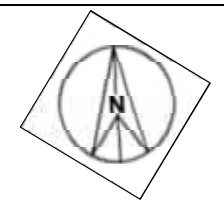
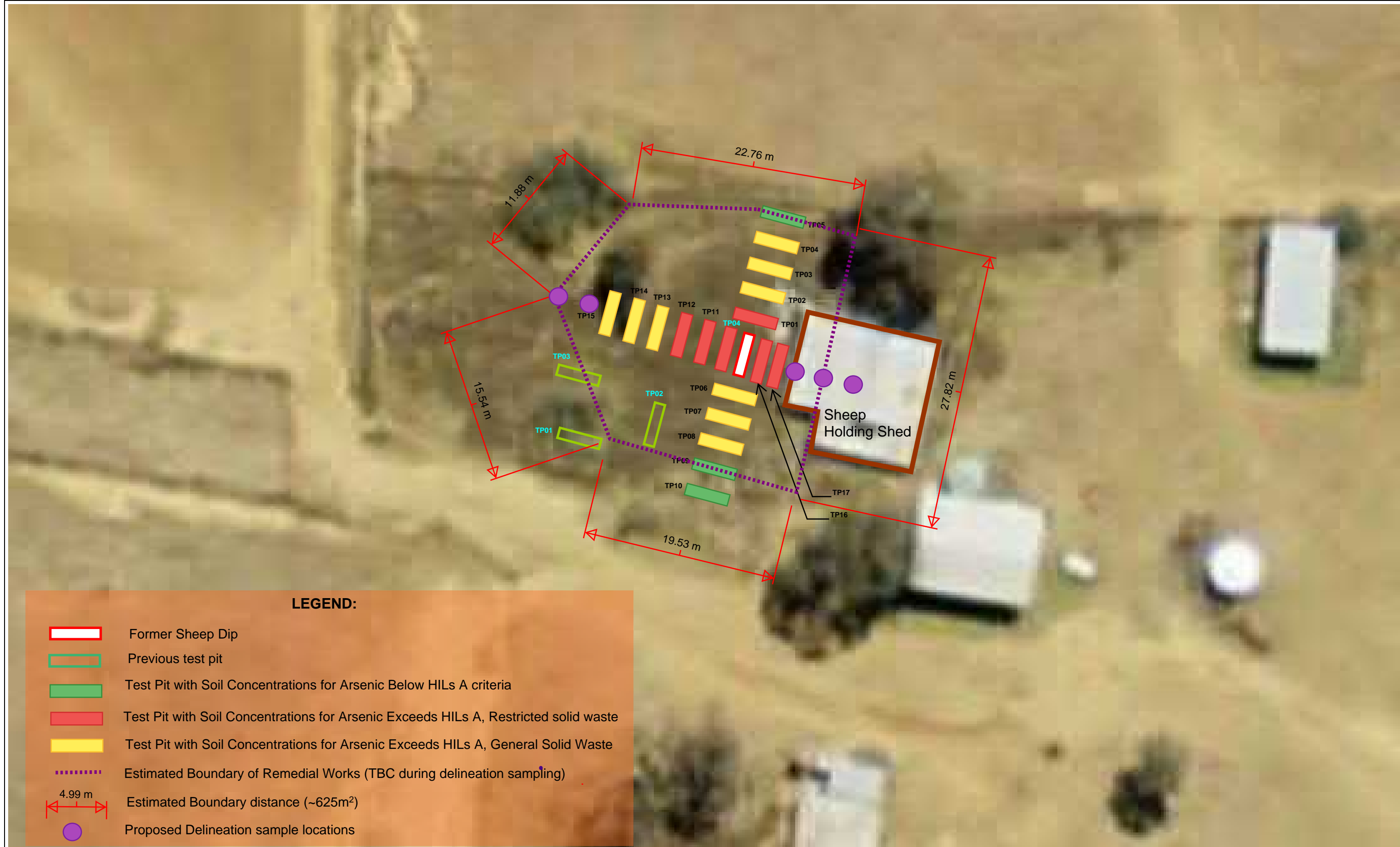


Figure 5
Site Contamination
Delineation (0.9-1.3
metres)





LEGEND:

- Former Sheep Dip
- Previous test pit
- Test Pit with Soil Concentrations for Arsenic Below HILs A criteria
- Test Pit with Soil Concentrations for Arsenic Exceeds HILs A, Restricted solid waste
- Test Pit with Soil Concentrations for Arsenic Exceeds HILs A, General Solid Waste
- Estimated Boundary of Remedial Works (TBC during delineation sampling)
- 4.99 m Estimated Boundary distance (~625m²)
- Proposed Delineation sample locations



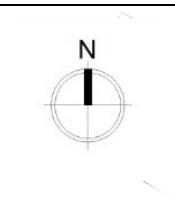
202 Submarine School, Sub Base Platypus, North Sydney, NSW, 2060

T: +61 2 9428 8100
sydney@slrconsulting.com
www.slrconsulting.com

Ref: 610.30237.00000
 Proposed Poultry Production Complex
 Rushes Creek Road, Rushes Creek, NSW

Figure 6
 Site Locality Capping Extent

April 2021



Prepared: JR 09/04/2021
 Checked: JE 09/04/2021

Concept Capping System for Barrier to Arsenic Impacted Soil

Approx. 30m

Min 1.8m High Wire Fence around Perimeter

Min 1.8m High Wire Fence around Perimeter

Approx. 1:5

Approx. 1:20

Approx. 1:20

Approx. 1:5

0.2m Topsoil

0.5m Upper Subsoil Layer

0.3m Low Perm Clay

Approx. 1.05m Earth Cover Layer

0.3m

0.3m

Weed Mat

Impacted Soil



202 Submarine School, Sub Base Platypus, North Sydney, NSW, 2060

T: +61 2 9428 8100
sydney@slrconsulting.com
www.slrconsulting.com

Remedial Action Plan
Ref: 610.30237.00000

Proposed Poultry Production Complex
Rushes Creek Road, Rushes Creek, NSW

09 April 2021



Figure 7
Concept Capping System for Barrier to Arsenic Impacted Soil

APPENDIX B

Site Photographs



Photograph 1 –View of sheep holding shed



Photograph 2 – View of potential sheep dip



Photograph 3 – View of potential sheep dip with reference to sheep holding shed



Photograph 4 – View of test-pit



Photograph 5 – Backfilling of test-pit



Photograph 6 – View of shed near the sheep holding shed

Notes:



610.18456.00000 Soil Contamination Assessment

| | | |
|----------|---------------------------------|-------------------|
| Site: | RUSHES CREEK ROAD, RUSHES CREEK | |
| Project: | REMEDIAL ACTION PLAN | |
| Date: | FEBRUARY 2019 | |
| Drawing: | OBSERVATION PHOTOGRAPHS | Appendix B |



7
 Photograph 7 – View of sheep dip location beside sheep holding shed



Photograph 8 – View of sheep dip



Photograph 9 – Test-pit to the west of sheep dip with high Arsenic concentration



Photograph 10 – Excavator working on test-pit between sheep dip and sheep holding shed



Photograph 11 – Excavated soil from test-pit



Photograph 12 – View of location of former sheep dip beside sheep holding shed after backfilling

Notes:



610.18456.00000 Soil Contamination Assessment

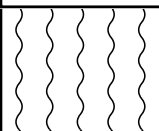
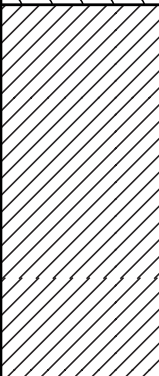
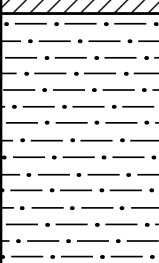
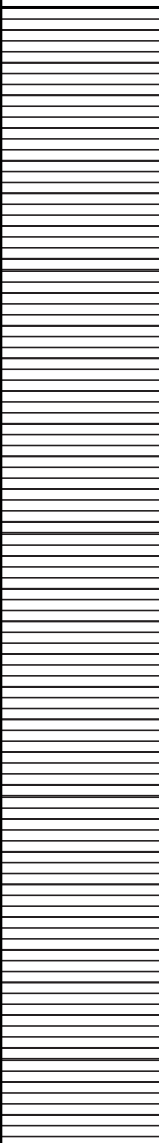
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|----------|---------------------------------|-------------------|
| Site: | RUSHES CREEK ROAD, RUSHES CREEK | |
| Project: | REMEDIAL ACTION PLAN | |
| Date: | FEBRUARY 2019 | |
| Drawing: | OBSERVATION PHOTOGRAPHS | Appendix B |

APPENDIX C

Detailed Site Investigation Test Pit Logs

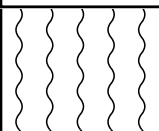
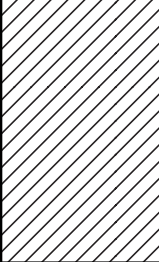
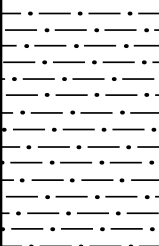
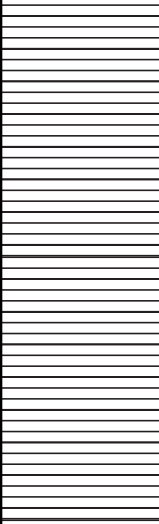
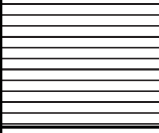
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| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 30/10/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.5m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|--------------|--------------|---|--|-------------------------|
| | | |  | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP01_0.2-0.4 | Y |  | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | |  | SILTY CLAY (0.40 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | TP01_0.5-0.6 | Y | | | |
| 1 | | |  | Shale: (0.60 - 1.50 mBGL) Angular to sub-angular shale (20-80mm) | |
| | TP01_1.3-1.5 | Y | | | |
| 1.5 | | | | Termination Depth at: 1.5m Mechanical refusal on very shale bed | |

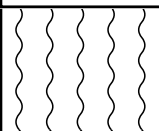
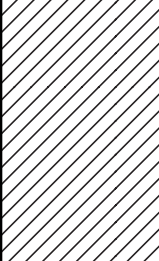
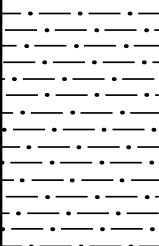
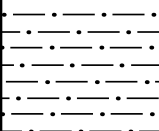
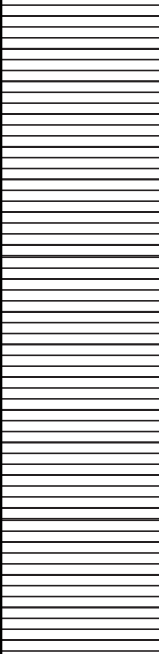
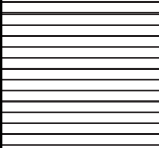
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| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 30/10/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.0m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|--------------|--------------|---|--|-------------------------|
| | | |  | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP02_0.2-0.3 | Y |  | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| | TP02_0.4-0.5 | Y |  | SILTY CLAY (0.30 - 0.50 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| 0.5 | | |  | Shale: (0.50 - 1.0 mBGL) Angular to sub-angular shale (20-80mm) | |
| | TP02_0.9-1.0 | Y |  | | |
| 1 | | | | Termination Depth at: 1.0m Mechanical refusal on very stiff shale bed | |

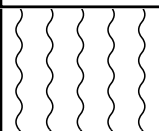
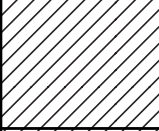
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|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 30/10/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.0m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|--------------|--------------|---|---|-------------------------|
| | | |  | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP03_0.1-0.2 | Y |  | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| | | |  | SILTY CLAY (0.30 - 0.50 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (5-15mm) | |
| 0.5 | TP03_0.4-0.5 | Y |  | | |
| | | |  | Shale: (0.50 - 1.0 mBGL) Angular to sub-angular shale (20-50mm) | |
| | TP03_0.9-1.0 | Y |  | | |
| 1 | | | | Termination Depth at: 1.0m Mechanical refusal on very stiff shale bed | |

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 30/10/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 0.20m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|--------------|--------------|---|--|-------------------------|
| | | |  | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP04_0.1-0.2 | Y |  | SILTY CLAY (0.10 - 0.20 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | | |
| 1 | | | | | |



ENVIRONMENTAL BOREHOLE / TESTPIT TP01

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.3m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|---|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP01_0.2 | Y | | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.40 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, bits of angular to sub-angular shale (5-15mm) | |
| | TP01_0.7 | Y | | | |
| 1 | | | | Shale: (0.60 - 1.20 mBGL) Angular to sub-angular shale (20-40mm) | |
| | TP01_1.2 | Y | | | |
| | | | | Termination Depth at: 1.3m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP02

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.3m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP02_0.2 | Y | | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.40 - 0.70 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | TP02_0.7 | Y | | | |
| 1 | | | | Shale: (0.70 - 1.3 mBGL) Angular to sub-angular shale (20-40mm) | |
| | TP02_1.2 | Y | | | |
| | | | | Termination Depth at: 1.3m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP03

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP03_0.2 | Y | | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.40 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | TP03_0.6 | Y | | | |
| | | | | Shale: (0.60 - 1.2 mBGL) Angular to sub-angular shale (20-50mm) | |
| 1 | | | | | |
| | TP03_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP04

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP04_0.2 | Y | | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.40 - 0.70 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | TP04_0.7 | Y | | | |
| 1 | | | | Shale: (0.70 - 1.2 mBGL) Angular to sub-angular shale (20-50mm) | |
| | TP04_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP05

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP05_0.2 | Y | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.30 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | TP05_0.6 | Y | | | |
| | | | | Shale: (0.60 - 1.2 mBGL) Angular to sub-angular shale (20-30mm) | |
| 1 | | | | | |
| | TP05_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP06

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|---|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP06_0.2 | Y | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.30 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (5-10mm) | |
| | TP06_0.6 | Y | | | |
| | | | | Shale: (0.60 - 1.2 mBGL) Angular to sub-angular shale (15-30mm) | |
| 1 | | | | | |
| | TP06_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP07

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|---|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP07_0.2 | Y | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.30 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (5-15mm) | |
| | TP07_0.6 | Y | | | |
| | | | | Shale: (0.60 - 1.2 mBGL) Angular to sub-angular shale (15-30mm) | |
| 1 | | | | | |
| | TP07_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP08

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.1m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | TP08_0.1 | Y | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | | | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | TP08_0.5 | Y | | SILTY CLAY (0.30 - 0.50 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | | | | Shale: (0.50 - 1.1 mBGL) Angular to sub-angular shale (20-30mm) | |
| 1 | TP08_1.0 | Y | | | |
| | | | | Termination Depth at: 1.1m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP09

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.0m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | TP09_0.1 | Y | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | | | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | TP09_0.5 | Y | | SILTY CLAY (0.30 - 0.50 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | | | | Shale: (0.50 - 1.0 mBGL) Angular to sub-angular shale (20-30mm) | |
| 1 | TP09_0.9 | Y | | | |
| | | | | Termination Depth at: 1.0m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP10

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 0.9m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | TP10_0.1 | Y | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | | | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| | TP10_0.4 | Y | | SILTY CLAY (0.30 - 0.40 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| 0.5 | | | | Shale: (0.40 - 0.90 mBGL) Angular to sub-angular shale (20-30mm) | |
| | TP10_0.8 | Y | | | |
| 1 | | | | Termination Depth at: 0.90m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP11

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|---|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP11_0.2 | Y | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.30 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (5-15mm) | |
| | TP11_0.6 | Y | | | |
| | | | | Shale: (0.60 - 1.2 mBGL) Angular to sub-angular shale (10-30mm) | |
| 1 | | | | | |
| | TP11_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP12

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP12_0.2 | Y | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.30 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-15mm) | |
| | TP12_0.6 | Y | | | |
| | | | | Shale: (0.60 - 1.2 mBGL) Angular to sub-angular shale (10-30mm) | |
| 1 | | | | | |
| | TP12_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP13

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.1m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP13_0.2 | Y | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | TP13_0.6 | Y | | SILTY CLAY (0.30 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-15mm) | |
| 1 | TP13_1.0 | Y | | Shale: (0.60 - 1.1 mBGL) Angular to sub-angular shale (15-30mm) | |
| | | | | Termination Depth at: 1.1m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP14

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

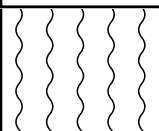
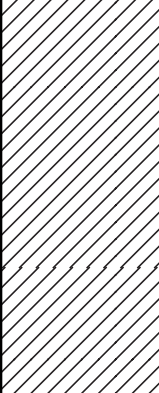
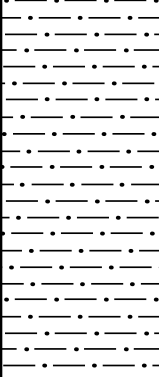
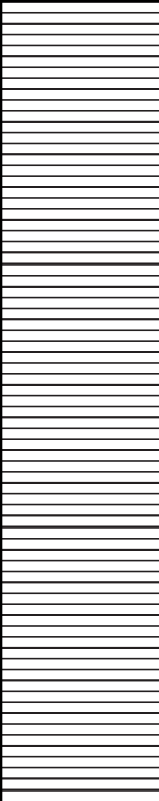
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|--|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP14_0.2 | Y | | SILTY CLAY (0.10 - 0.30 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | | | SILTY CLAY (0.30 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-15mm) | |
| | TP14_0.6 | Y | | Shale: (0.60 - 1.2 mBGL) Angular to sub-angular shale (15-30mm) | |
| 1 | | | | | |
| | TP14_1.1 | Y | | | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.3m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|---|--|-------------------------|
| | | |  | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP15_0.2 | Y |  | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | |  | SILTY CLAY (0.40 - 0.70 mBGL) Red/brown, stiff, dry, low plasticity, angular to sub-angular shale (10-20mm) | |
| | TP15_0.7 | Y | | | |
| 1 | | |  | Shale: (0.70 - 1.3 mBGL) Angular to sub-angular shale (20-40mm) | |
| | TP15_1.2 | Y | | | |
| | | | | Termination Depth at: 1.3m Mechanical refusal on very stiff shale | |

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ENVIRONMENTAL BOREHOLE / TESTPIT TP16

| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Ruses Creek Road, Ruses Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.2m | CHECKED BY Lachlan McWha |

COMMENTS

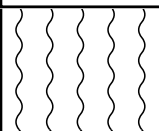
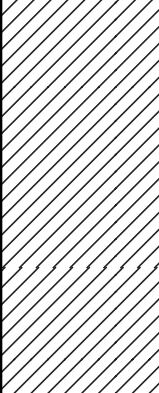
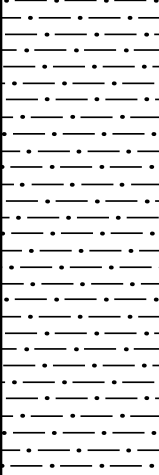
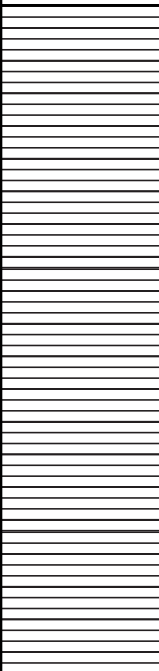
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|-------------|---|-------------------------|
| | | | | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | TP16_0.2 | Y | | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | TP16_0.6 | Y | | SILTY CLAY (0.40 - 0.60 mBGL) Red/brown, stiff, dry, low plasticity, bits of angular to sub-angular shale (5-15mm) | |
| 1 | TP16_1.1 | Y | | Shale: (0.60 - 1.20 mBGL) Angular to sub-angular shale (20-40mm) | |
| | | | | Termination Depth at: 1.2m Mechanical refusal on very stiff shale | |

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| | | |
|--|---|----------------------------------|
| PROJECT NUMBER 610.18456.00000 | DRILLING DATE 06/12/2018 | COORDINATES |
| PROJECT NAME ProTen Tamworth DSI | DRILLING COMPANY TPE Earthmoving & Civil | COORD SYS |
| CLIENT ProTen | DRILLER | SURFACE ELEVATION |
| ADDRESS Rushes Creek Road, Rushes Creek NSW | DRILLING METHOD Excavator | LOGGED BY Junaidi Ibrahim |
| | TOTAL DEPTH 1.3m | CHECKED BY Lachlan McWha |

COMMENTS

| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|--------------|---|---|-------------------------|
| | TP17_0.1 | Y |  | TOPSOIL: (0.00 - 0.10 mBGL) Dark brown, soft, dry, low plasticity, vegetation | |
| | | |  | SILTY CLAY (0.10 - 0.40 mBGL) Brown to red/brown, soft, dry, low plasticity | |
| 0.5 | | |  | SILTY CLAY (0.40 - 0.80 mBGL) Red/brown, stiff, dry, low plasticity, bits of angular to sub-angular shale (5-15mm) | |
| | TP17_0.8 | Y | | | |
| 1 | | |  | Shale: (0.80 - 1.30 mBGL) Angular to sub-angular shale (20-40mm) | |
| | TP17_1.2 | Y | | | |
| | | | | Termination Depth at: 1.3m Mechanical refusal on very stiff shale | |

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APPENDIX D

Laboratory Reports

Certificate of Analysis

SLR Consulting
2 Lincoln St
Lane Cove West
NSW 2066



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Junaidi Ibrahim

Report: 625300-S
Project name: DSI PROTEN TAMWORTH
Project ID: 610.18456
Received Date: Oct 31, 2018

| Client Sample ID | | | TP01_0.2-0.4 | TP01_0.5-0.6 | TP02_0.2-0.3 | TP02_0.4-0.5 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-Oc38411 | S18-Oc38412 | S18-Oc38413 | S18-Oc38414 |
| Date Sampled | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 119 | 111 | 123 | 111 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 114 | 100 | 105 | 101 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP01_0.2-0.4 | TP01_0.5-0.6 | TP02_0.2-0.3 | TP02_0.4-0.5 |
|------------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-Oc38411 | S18-Oc38412 | S18-Oc38413 | S18-Oc38414 |
| Date Sampled | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 72 | 97 | 75 | 95 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |

| Client Sample ID | | | TP01_0.2-0.4 | TP01_0.5-0.6 | TP02_0.2-0.3 | TP02_0.4-0.5 |
|-------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-Oc38411 | S18-Oc38412 | S18-Oc38413 | S18-Oc38414 |
| Date Sampled | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 14 | 9.7 | 28 | 9.9 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 19 | 11 | 19 | 18 |
| Copper | 5 | mg/kg | 60 | 44 | 67 | 68 |
| Lead | 5 | mg/kg | 15 | 11 | 17 | 14 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 22 | 14 | 22 | 23 |
| Zinc | 5 | mg/kg | 80 | 70 | 91 | 100 |
| % Moisture | | | | | | |
| | 1 | % | 18 | 7.4 | 16 | 12 |

| Client Sample ID | | | TP02_0.9-1.0 | TP03_0.1-0.2 | TP03_0.4-0.5 | TP03_0.9-1.0 |
|----------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-Oc38415 | S18-Oc38416 | S18-Oc38417 | S18-Oc38418 |
| Date Sampled | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

| Client Sample ID | | | TP02_0.9-1.0 Soil | TP03_0.1-0.2 Soil | TP03_0.4-0.5 Soil | TP03_0.9-1.0 Soil |
|-------------------------------------|------|-------|----------------------|----------------------|----------------------|----------------------|
| Sample Matrix | | | S18-Oc38415 | S18-Oc38416 | S18-Oc38417 | S18-Oc38418 |
| Eurofins mgt Sample No. | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorodate (surr.) | 1 | % | 90 | 125 | 115 | 135 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 84 | 110 | 101 | 122 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 91 | 84 | 89 | 78 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP02_0.9-1.0 Soil | TP03_0.1-0.2 Soil | TP03_0.4-0.5 Soil | TP03_0.9-1.0 Soil |
|-------------------------------|-----|-------|----------------------|----------------------|----------------------|----------------------|
| Sample Matrix | | | S18-Oc38415 | S18-Oc38416 | S18-Oc38417 | S18-Oc38418 |
| Eurofins mgt Sample No. | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Triazines | | | | | | |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 2.2 | 14 | 6.2 | 8.3 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | < 5 | 17 | 10 | 12 |
| Copper | 5 | mg/kg | 21 | 52 | 42 | 52 |
| Lead | 5 | mg/kg | 5.0 | 14 | 10 | 11 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 7.2 | 18 | 13 | 15 |
| Zinc | 5 | mg/kg | 35 | 70 | 68 | 81 |
| % Moisture | | | | | | |
| | 1 | % | 5.6 | 16 | 10 | 7.8 |

| Client Sample ID | | | TP04_0.1-0.2 Soil | QC1 Soil | TP01_1.3-1.5 Soil |
|----------------------------------|------|-------|----------------------|--------------|----------------------|
| Sample Matrix | | | S18-Oc38419 | S18-Oc38420 | S18-Oc38429 |
| Eurofins mgt Sample No. | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Date Sampled | | | | | |
| Test/Reference | LOR | Unit | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |

| Client Sample ID | | | TP04_0.1-0.2 | QC1 | TP01_1.3-1.5 |
|-------------------------------------|------|-------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-Oc38419 | S18-Oc38420 | S18-Oc38429 |
| Date Sampled | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Test/Reference | LOR | Unit | | | |
| Organochlorine Pesticides | | | | | |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 135 | 141 | 113 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 117 | 129 | 103 |
| Organophosphorus Pesticides | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP04_0.1-0.2 | QC1 | TP01_1.3-1.5 |
|------------------------------------|-----|-------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-Oc38419 | S18-Oc38420 | S18-Oc38429 |
| Date Sampled | | | Oct 30, 2018 | Oct 30, 2018 | Oct 30, 2018 |
| Test/Reference | LOR | Unit | | | |
| Organophosphorus Pesticides | | | | | |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 94 | 82 | 80 |
| Triazines | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 |
| Synthetic Pyrethroids* | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | |
| Arsenic | 2 | mg/kg | 2600 | 17 | 7.4 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 17 | 20 | 11 |
| Copper | 5 | mg/kg | 55 | 67 | 49 |
| Lead | 5 | mg/kg | 25 | 16 | 12 |
| Mercury | 0.1 | mg/kg | 0.2 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 14 | 23 | 15 |
| Zinc | 5 | mg/kg | 270 | 96 | 80 |
| % Moisture | 1 | % | 18 | 16 | 5.7 |

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Eurofins mgt Suite B14 | | | |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | Melbourne | Nov 02, 2018 | 14 Day |
| Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | Melbourne | Nov 02, 2018 | 14 Day |
| Triazines - Method: LTM-ORG-2080 | Melbourne | Nov 02, 2018 | 14 Day |
| Carbamate Pesticides - Method: LTM-ORG-2290 Carbamates in waters and soils by HPLC | Melbourne | Nov 02, 2018 | 14 Day |
| Synthetic Pyrethroids* - Method: LTM-ORG-2170 Synthetic Pyrethroids by HPLC-UV | Melbourne | Nov 02, 2018 | 14 Day |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Nov 02, 2018 | 28 Days |
| % Moisture - Method: LTM-GEN-7080 Moisture | Melbourne | Oct 31, 2018 | 14 Day |

| | | |
|--|----------------------------|---------------------------------------|
| Company Name: SLR Consulting (Sydney) | Order No.: | Received: Oct 31, 2018 9:45 AM |
| Address: 2 Lincoln St Lane Cove West NSW 2066 | Report #: 625300 | Due: Nov 7, 2018 |
| | Phone: 02 9428 8100 | Priority: 5 Day |
| | Fax: | Contact Name: Junaidi Ibrahim |
| Project Name: DSI PROTEN TAMWORTH | | |
| Project ID: 610.18456 | | |

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | HOLD | Triazines | Carbamate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|--------------|--------------|---------------|--------|-------------|------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | X | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | | |
| External Laboratory | | | | | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | | | | | |
| 1 | TP01_0.2-0.4 | Oct 30, 2018 | | Soil | S18-Oc38411 | | | X | X | X | X | X | X |
| 2 | TP01_0.5-0.6 | Oct 30, 2018 | | Soil | S18-Oc38412 | | | X | X | X | X | X | X |
| 3 | TP02_0.2-0.3 | Oct 30, 2018 | | Soil | S18-Oc38413 | | | X | X | X | X | X | X |
| 4 | TP02_0.4-0.5 | Oct 30, 2018 | | Soil | S18-Oc38414 | | | X | X | X | X | X | X |
| 5 | TP02_0.9-1.0 | Oct 30, 2018 | | Soil | S18-Oc38415 | | | X | X | X | X | X | X |
| 6 | TP03_0.1-0.2 | Oct 30, 2018 | | Soil | S18-Oc38416 | | | X | X | X | X | X | X |
| 7 | TP03_0.4-0.5 | Oct 30, 2018 | | Soil | S18-Oc38417 | | | X | X | X | X | X | X |
| 8 | TP03_0.9-1.0 | Oct 30, 2018 | | Soil | S18-Oc38418 | | | X | X | X | X | X | X |
| 9 | TP04_0.1-0.2 | Oct 30, 2018 | | Soil | S18-Oc38419 | | | X | X | X | X | X | X |

Company Name: SLR Consulting (Sydney)
Address: 2 Lincoln St
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Project Name: DSI PROTEN TAMWORTH
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| Sample Detail | | | | | | HOLD | HOLD | Triazines | Carbamate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|--------------|--------------|--|-------|-------------|------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | X | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | | |
| 10 | QC1 | Oct 30, 2018 | | Soil | S18-Oc38420 | | | X | X | X | X | X | X |
| 11 | R01 | Oct 30, 2018 | | Water | S18-Oc38421 | | | X | X | X | X | X | |
| 12 | TS | Oct 30, 2018 | | Water | S18-Oc38422 | X | | | | | | | |
| 13 | TB | Oct 30, 2018 | | Water | S18-Oc38423 | X | | | | | | | |
| 14 | TS | Oct 30, 2018 | | Soil | S18-Oc38424 | | X | | | | | | |
| 15 | TB | Oct 30, 2018 | | Soil | S18-Oc38425 | | X | | | | | | |
| 16 | LAB SPIKE | Oct 30, 2018 | | Soil | S18-Oc38426 | | X | | | | | | |
| 17 | TP01_1.3-1.5 | Oct 30, 2018 | | Soil | S18-Oc38429 | | | X | X | X | X | X | X |
| Test Counts | | | | | | 5 | 5 | 12 | 12 | 12 | 12 | 12 | 11 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | Quality Systems Manual ver 5.1 US Department of Defense |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Method Blank | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-BHC (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 1 | | | 1 | Pass | |
| Method Blank | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | | | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | | | 2 | Pass | |
| Naled | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | | | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | | | 0.2 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Pirimiphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| Triazines | | | | | | | |
| Ametryn | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Atraton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Atrazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Prometon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Prometryn | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Propazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Simazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Simetryn | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbutylazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbutryne | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| Carbamate Pesticides | | | | | | | |
| Aldicarb | mg/kg | < 2 | | | 2 | Pass | |
| Bendiocarb | mg/kg | < 2 | | | 2 | Pass | |
| Carbaryl | mg/kg | < 2 | | | 2 | Pass | |
| Carbofuran | mg/kg | < 2 | | | 2 | Pass | |
| Methomyl | mg/kg | < 2 | | | 2 | Pass | |
| Oxamyl | mg/kg | < 2 | | | 2 | Pass | |
| Thiobencarb | mg/kg | < 2 | | | 2 | Pass | |
| Method Blank | | | | | | | |
| Synthetic Pyrethroids* | | | | | | | |
| Allethrin* | mg/kg | < 2 | | | 2 | Pass | |
| Cyfluthrin* | mg/kg | < 2 | | | 2 | Pass | |
| Cypermethrin (total)* | mg/kg | < 2 | | | 2 | Pass | |
| Fenvalerate* | mg/kg | < 2 | | | 2 | Pass | |
| Permethrin | mg/kg | < 2 | | | 2 | Pass | |
| Phenothrin* | mg/kg | < 2 | | | 2 | Pass | |
| Resmethrin* | mg/kg | < 2 | | | 2 | Pass | |
| Tetramethrin* | mg/kg | < 2 | | | 2 | Pass | |
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| 4.4'-DDD | % | 119 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 117 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 129 | | | 70-130 | Pass | |
| a-BHC | % | 99 | | | 70-130 | Pass | |

| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code | | |
|------------------------------------|---------------|-----------|-------------------|-------------|-------------------|-------------|-----------------|
| Aldrin | % | 110 | 70-130 | Pass | | | |
| b-BHC | % | 98 | 70-130 | Pass | | | |
| d-BHC | % | 101 | 70-130 | Pass | | | |
| Dieldrin | % | 114 | 70-130 | Pass | | | |
| Endosulfan I | % | 111 | 70-130 | Pass | | | |
| Endosulfan II | % | 114 | 70-130 | Pass | | | |
| Endosulfan sulphate | % | 110 | 70-130 | Pass | | | |
| Endrin | % | 125 | 70-130 | Pass | | | |
| Endrin aldehyde | % | 115 | 70-130 | Pass | | | |
| Endrin ketone | % | 116 | 70-130 | Pass | | | |
| g-BHC (Lindane) | % | 98 | 70-130 | Pass | | | |
| Heptachlor | % | 111 | 70-130 | Pass | | | |
| Heptachlor epoxide | % | 105 | 70-130 | Pass | | | |
| Hexachlorobenzene | % | 94 | 70-130 | Pass | | | |
| Methoxychlor | % | 115 | 70-130 | Pass | | | |
| LCS - % Recovery | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Diazinon | % | 83 | 70-130 | Pass | | | |
| Dimethoate | % | 71 | 70-130 | Pass | | | |
| Ethion | % | 106 | 70-130 | Pass | | | |
| Fenitrothion | % | 94 | 70-130 | Pass | | | |
| Methyl parathion | % | 92 | 70-130 | Pass | | | |
| Mevinphos | % | 103 | 70-130 | Pass | | | |
| LCS - % Recovery | | | | | | | |
| Triazines | | | | | | | |
| Prometryn | % | 92 | 75-125 | Pass | | | |
| LCS - % Recovery | | | | | | | |
| Carbamate Pesticides | | | | | | | |
| Aldicarb | % | 117 | 70-130 | Pass | | | |
| Bendiocarb | % | 119 | 70-130 | Pass | | | |
| Carbaryl | % | 124 | 70-130 | Pass | | | |
| Carbofuran | % | 119 | 70-130 | Pass | | | |
| Methomyl | % | 114 | 70-130 | Pass | | | |
| Oxamyl | % | 144 | 70-130 | Fail | | | |
| Thiobencarb | % | 115 | 70-130 | Pass | | | |
| LCS - % Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | % | 111 | 80-120 | Pass | | | |
| Cadmium | % | 112 | 80-120 | Pass | | | |
| Chromium | % | 110 | 80-120 | Pass | | | |
| Copper | % | 118 | 80-120 | Pass | | | |
| Lead | % | 119 | 80-120 | Pass | | | |
| Mercury | % | 113 | 75-125 | Pass | | | |
| Nickel | % | 117 | 80-120 | Pass | | | |
| Zinc | % | 114 | 80-120 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Diazinon | M18-No00361 | NCP | % | 103 | 70-130 | Pass | |
| Dimethoate | M18-No00361 | NCP | % | 97 | 70-130 | Pass | |
| Ethion | M18-No00361 | NCP | % | 101 | 70-130 | Pass | |
| Fenitrothion | M18-No00361 | NCP | % | 83 | 70-130 | Pass | |
| Methyl parathion | M18-No00361 | NCP | % | 73 | 70-130 | Pass | |
| Mevinphos | M18-No00361 | NCP | % | 70 | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|---------------|-----------|-------|----------|--|-------------------|-------------|-----------------|
| Spike - % Recovery | | | | | | | | |
| Synthetic Pyrethroids* | | | | Result 1 | | | | |
| Cyfluthrin* | M18-Oc20554 | NCP | % | 91 | | 70-130 | Pass | |
| Cypermethrin (total)* | M18-Oc20554 | NCP | % | 93 | | 70-130 | Pass | |
| Permethrin | M18-Oc20554 | NCP | % | 89 | | 70-130 | Pass | |
| Resmethrin* | M18-Oc20554 | NCP | % | 93 | | 70-130 | Pass | |
| Tetramethrin* | M18-Oc20554 | NCP | % | 93 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| 4.4'-DDD | S18-Oc38412 | CP | % | 108 | | 70-130 | Pass | |
| 4.4'-DDE | S18-Oc38412 | CP | % | 107 | | 70-130 | Pass | |
| 4.4'-DDT | S18-Oc38412 | CP | % | 122 | | 70-130 | Pass | |
| a-BHC | S18-Oc38412 | CP | % | 90 | | 70-130 | Pass | |
| Aldrin | S18-Oc38412 | CP | % | 97 | | 70-130 | Pass | |
| b-BHC | S18-Oc38412 | CP | % | 90 | | 70-130 | Pass | |
| d-BHC | S18-Oc38412 | CP | % | 95 | | 70-130 | Pass | |
| Dieldrin | S18-Oc38412 | CP | % | 104 | | 70-130 | Pass | |
| Endosulfan I | S18-Oc38412 | CP | % | 101 | | 70-130 | Pass | |
| Endosulfan II | S18-Oc38412 | CP | % | 105 | | 70-130 | Pass | |
| Endosulfan sulphate | S18-Oc38412 | CP | % | 102 | | 70-130 | Pass | |
| Endrin | S18-Oc38412 | CP | % | 127 | | 70-130 | Pass | |
| Endrin aldehyde | S18-Oc38412 | CP | % | 104 | | 70-130 | Pass | |
| Endrin ketone | S18-Oc38412 | CP | % | 107 | | 70-130 | Pass | |
| g-BHC (Lindane) | S18-Oc38412 | CP | % | 90 | | 70-130 | Pass | |
| Heptachlor | S18-Oc38412 | CP | % | 108 | | 70-130 | Pass | |
| Heptachlor epoxide | S18-Oc38412 | CP | % | 97 | | 70-130 | Pass | |
| Hexachlorobenzene | S18-Oc38412 | CP | % | 85 | | 70-130 | Pass | |
| Methoxychlor | S18-Oc38412 | CP | % | 113 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Carbamate Pesticides | | | | Result 1 | | | | |
| Aldicarb | S18-Oc38412 | CP | % | 174 | | 70-130 | Fail | Q08 |
| Bendiocarb | S18-Oc38412 | CP | % | 107 | | 70-130 | Pass | |
| Carbaryl | S18-Oc38412 | CP | % | 108 | | 70-130 | Pass | |
| Carbofuran | S18-Oc38412 | CP | % | 107 | | 70-130 | Pass | |
| Methomyl | S18-Oc38412 | CP | % | 110 | | 70-130 | Pass | |
| Oxamyl | S18-Oc38412 | CP | % | 118 | | 70-130 | Pass | |
| Thiobencarb | S18-Oc38412 | CP | % | 113 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Synthetic Pyrethroids* | | | | Result 1 | | | | |
| Allethrin* | S18-Oc38412 | CP | % | 90 | | 70-130 | Pass | |
| Fenvalerate* | S18-Oc38412 | CP | % | 79 | | 70-130 | Pass | |
| Phenothrin* | S18-Oc38412 | CP | % | 88 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | |
| Arsenic | S18-Oc38412 | CP | % | 104 | | 75-125 | Pass | |
| Cadmium | S18-Oc38412 | CP | % | 106 | | 75-125 | Pass | |
| Chromium | S18-Oc38412 | CP | % | 105 | | 75-125 | Pass | |
| Copper | S18-Oc38412 | CP | % | 103 | | 75-125 | Pass | |
| Lead | S18-Oc38412 | CP | % | 106 | | 75-125 | Pass | |
| Mercury | S18-Oc38412 | CP | % | 113 | | 70-130 | Pass | |
| Nickel | S18-Oc38412 | CP | % | 106 | | 75-125 | Pass | |
| Zinc | S18-Oc38412 | CP | % | 97 | | 75-125 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Duplicate | | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S18-Oc38411 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-BHC | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-BHC | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-BHC | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| γ-BHC (Lindane) | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S18-Oc38411 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | S18-Oc38411 | CP | mg/kg | < 1 | < 1 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Bolstar | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorfenvinphos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Coumaphos | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Demeton-S | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Demeton-O | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Diazinon | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dichlorvos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dimethoate | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Disulfoton | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| EPN | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethoprop | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethyl parathion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenitrothion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fensulfothion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenthion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Malathion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Merphos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Methyl parathion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Mevinphos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Monocrotophos | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Naled | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Omethoate | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Phorate | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pirimiphos-methyl | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pyrazophos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|----|-------|----------|----------|-----|-----|------|
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Ronnel | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbufos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tetrachlorvinphos | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tokuthion | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Trichloronate | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Ametryn | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atraton | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atrazine | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometon | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometryn | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Propazine | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simazine | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simetryn | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutylazine | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutryne | S18-Oc38411 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Carbamate Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Aldicarb | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Bendiocarb | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Carbaryl | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Carbofuran | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Methomyl | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Oxamyl | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Thiobencarb | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Synthetic Pyrethroids* | | | | Result 1 | Result 2 | RPD | | |
| Allethrin* | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Cyfluthrin* | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Cypermethrin (total)* | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Fenvalerate* | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Permethrin | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Phenothrin* | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Resmethrin* | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Tetramethrin* | S18-Oc38411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18-Oc38411 | CP | mg/kg | 14 | 13 | 7.0 | 30% | Pass |
| Cadmium | S18-Oc38411 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S18-Oc38411 | CP | mg/kg | 19 | 17 | 7.0 | 30% | Pass |
| Copper | S18-Oc38411 | CP | mg/kg | 60 | 54 | 11 | 30% | Pass |
| Lead | S18-Oc38411 | CP | mg/kg | 15 | 13 | 12 | 30% | Pass |
| Mercury | S18-Oc38411 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Nickel | S18-Oc38411 | CP | mg/kg | 22 | 19 | 14 | 30% | Pass |
| Zinc | S18-Oc38411 | CP | mg/kg | 80 | 73 | 10 | 30% | Pass |
| Duplicate | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | |
| % Moisture | S18-Oc38411 | CP | % | 18 | 18 | 2.0 | 30% | Pass |

| Duplicate | | | | | | | | |
|--------------|-------------|----|-------|----------|----------|-----|-----|------|
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18-Oc38412 | CP | mg/kg | 9.7 | 10.0 | 3.0 | 30% | Pass |
| Cadmium | S18-Oc38412 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S18-Oc38412 | CP | mg/kg | 11 | 11 | 2.0 | 30% | Pass |
| Copper | S18-Oc38412 | CP | mg/kg | 44 | 45 | 2.0 | 30% | Pass |
| Lead | S18-Oc38412 | CP | mg/kg | 11 | 11 | <1 | 30% | Pass |
| Mercury | S18-Oc38412 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Nickel | S18-Oc38412 | CP | mg/kg | 14 | 14 | 1.0 | 30% | Pass |
| Zinc | S18-Oc38412 | CP | mg/kg | 70 | 71 | 2.0 | 30% | Pass |
| Duplicate | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | |
| % Moisture | S18-Oc38429 | CP | % | 5.7 | 6.0 | 5.0 | 30% | Pass |

Comments

Sample Integrity

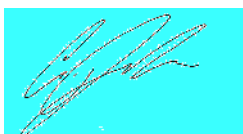
| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime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

Qualifier Codes/Comments

| Code | Description |
|------|--|
| Q08 | The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference |

Authorised By

| | |
|----------------|------------------------------|
| Andrew Black | Analytical Services Manager |
| Chris Bennett | Senior Analyst-Metal (VIC) |
| Joseph Edouard | Senior Analyst-Organic (VIC) |



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Certificate of Analysis

SLR Consulting
2 Lincoln St
Lane Cove West
NSW 2066



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Junaidi Ibrahim

Report: 625300-W
Project name: DSI PROTEN TAMWORTH
Project ID: 610.18456
Received Date: Oct 31, 2018

| Client Sample ID | | | R01 |
|-------------------------------------|--------|------|--------------|
| Sample Matrix | | | Water |
| Eurofins mgt Sample No. | | | S18-Oc38421 |
| Date Sampled | | | Oct 30, 2018 |
| Test/Reference | LOR | Unit | |
| Organochlorine Pesticides | | | |
| Chlordanes - Total | 0.001 | mg/L | < 0.001 |
| 4.4'-DDD | 0.0001 | mg/L | < 0.0001 |
| 4.4'-DDE | 0.0001 | mg/L | < 0.0001 |
| 4.4'-DDT | 0.0001 | mg/L | < 0.0001 |
| a-BHC | 0.0001 | mg/L | < 0.0001 |
| Aldrin | 0.0001 | mg/L | < 0.0001 |
| b-BHC | 0.0001 | mg/L | < 0.0001 |
| d-BHC | 0.0001 | mg/L | < 0.0001 |
| Dieldrin | 0.0001 | mg/L | < 0.0001 |
| Endosulfan I | 0.0001 | mg/L | < 0.0001 |
| Endosulfan II | 0.0001 | mg/L | < 0.0001 |
| Endosulfan sulphate | 0.0001 | mg/L | < 0.0001 |
| Endrin | 0.0001 | mg/L | < 0.0001 |
| Endrin aldehyde | 0.0001 | mg/L | < 0.0001 |
| Endrin ketone | 0.0001 | mg/L | < 0.0001 |
| g-BHC (Lindane) | 0.0001 | mg/L | < 0.0001 |
| Heptachlor | 0.0001 | mg/L | < 0.0001 |
| Heptachlor epoxide | 0.0001 | mg/L | < 0.0001 |
| Hexachlorobenzene | 0.0001 | mg/L | < 0.0001 |
| Methoxychlor | 0.0001 | mg/L | < 0.0001 |
| Toxaphene | 0.01 | mg/L | < 0.01 |
| Aldrin and Dieldrin (Total)* | 0.0001 | mg/L | < 0.0001 |
| DDT + DDE + DDD (Total)* | 0.0001 | mg/L | < 0.0001 |
| Vic EPA IWRG 621 OCP (Total)* | 0.001 | mg/L | < 0.001 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.001 | mg/L | < 0.001 |
| Dibutylchloroendate (surr.) | 1 | % | 98 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 62 |
| Organophosphorus Pesticides | | | |
| Azinphos-methyl | 0.002 | mg/L | < 0.002 |
| Bolstar | 0.002 | mg/L | < 0.002 |
| Chlorfenvinphos | 0.002 | mg/L | < 0.002 |
| Chlorpyrifos | 0.02 | mg/L | < 0.02 |
| Chlorpyrifos-methyl | 0.002 | mg/L | < 0.002 |
| Coumaphos | 0.02 | mg/L | < 0.02 |
| Demeton-S | 0.02 | mg/L | < 0.02 |

| Client Sample ID | | | R01 |
|------------------------------------|-------|------|--------------|
| Sample Matrix | | | Water |
| Eurofins mgt Sample No. | | | S18-Oc38421 |
| Date Sampled | | | Oct 30, 2018 |
| Test/Reference | LOR | Unit | |
| Organophosphorus Pesticides | | | |
| Demeton-O | 0.002 | mg/L | < 0.002 |
| Diazinon | 0.002 | mg/L | < 0.002 |
| Dichlorvos | 0.002 | mg/L | < 0.002 |
| Dimethoate | 0.002 | mg/L | < 0.002 |
| Disulfoton | 0.002 | mg/L | < 0.002 |
| EPN | 0.002 | mg/L | < 0.002 |
| Ethion | 0.002 | mg/L | < 0.002 |
| Ethoprop | 0.002 | mg/L | < 0.002 |
| Ethyl parathion | 0.002 | mg/L | < 0.002 |
| Fenitrothion | 0.002 | mg/L | < 0.002 |
| Fensulfothion | 0.002 | mg/L | < 0.002 |
| Fenthion | 0.002 | mg/L | < 0.002 |
| Malathion | 0.002 | mg/L | < 0.002 |
| Merphos | 0.002 | mg/L | < 0.002 |
| Methyl parathion | 0.002 | mg/L | < 0.002 |
| Mevinphos | 0.002 | mg/L | < 0.002 |
| Monocrotophos | 0.002 | mg/L | < 0.002 |
| Naled | 0.002 | mg/L | < 0.002 |
| Omethoate | 0.002 | mg/L | < 0.002 |
| Phorate | 0.002 | mg/L | < 0.002 |
| Pirimiphos-methyl | 0.02 | mg/L | < 0.02 |
| Pyrazophos | 0.002 | mg/L | < 0.002 |
| Ronnel | 0.002 | mg/L | < 0.002 |
| Terbufos | 0.002 | mg/L | < 0.002 |
| Tetrachlorvinphos | 0.002 | mg/L | < 0.002 |
| Tokuthion | 0.002 | mg/L | < 0.002 |
| Trichloronate | 0.002 | mg/L | < 0.002 |
| Triphenylphosphate (surr.) | 1 | % | 58 |
| Triazines | | | |
| Ametryn | 0.002 | mg/L | < 0.002 |
| Atraton | 0.002 | mg/L | < 0.002 |
| Atrazine | 0.002 | mg/L | < 0.002 |
| Prometon | 0.002 | mg/L | < 0.002 |
| Prometryn | 0.002 | mg/L | < 0.002 |
| Propazine | 0.002 | mg/L | < 0.002 |
| Simazine | 0.002 | mg/L | < 0.002 |
| Simetryn | 0.002 | mg/L | < 0.002 |
| Terbutylazine | 0.002 | mg/L | < 0.002 |
| Terbutryne | 0.002 | mg/L | < 0.002 |
| Carbamate Pesticides | | | |
| Aldicarb | 0.01 | mg/L | < 0.01 |
| Bendiocarb | 0.01 | mg/L | < 0.1 |
| Carbaryl | 0.01 | mg/L | < 0.01 |
| Carbofuran | 0.01 | mg/L | < 0.1 |
| Methomyl | 0.01 | mg/L | < 0.05 |
| Oxamyl | 0.01 | mg/L | < 0.01 |
| Thiobencarb | 0.01 | mg/L | < 0.01 |

| | | | |
|----------------------------------|--------|------|---------------------|
| Client Sample ID | | | R01 |
| Sample Matrix | | | Water |
| Eurofins mgt Sample No. | | | S18-Oc38421 |
| Date Sampled | | | Oct 30, 2018 |
| Test/Reference | LOR | Unit | |
| Synthetic Pyrethroids* | | | |
| Allethrin* | 0.2 | mg/L | < 0.2 |
| Cyfluthrin* | 0.2 | mg/L | < 0.2 |
| Cypermethrin (total)* | 0.2 | mg/L | < 0.2 |
| Fenvalerate* | 0.2 | mg/L | < 0.2 |
| Permethrin | 0.2 | mg/L | < 0.2 |
| Phenothrin* | 0.2 | mg/L | < 0.2 |
| Resmethrin* | 0.2 | mg/L | < 0.2 |
| Tetramethrin* | 0.2 | mg/L | < 0.2 |
| Heavy Metals | | | |
| Arsenic | 0.001 | mg/L | < 0.001 |
| Cadmium | 0.0002 | mg/L | < 0.0002 |
| Chromium | 0.001 | mg/L | < 0.001 |
| Copper | 0.001 | mg/L | < 0.001 |
| Lead | 0.001 | mg/L | < 0.001 |
| Mercury | 0.0001 | mg/L | < 0.0001 |
| Nickel | 0.001 | mg/L | < 0.001 |
| Zinc | 0.005 | mg/L | < 0.005 |

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Eurofins mgt Suite B14 | | | |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | Melbourne | Nov 01, 2018 | 7 Day |
| Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | Melbourne | Nov 01, 2018 | 7 Day |
| Triazines - Method: LTM-ORG-2080 | Melbourne | Nov 01, 2018 | 7 Day |
| Carbamate Pesticides - Method: LTM-ORG-2290 Carbamates in waters and soils by HPLC | Melbourne | Nov 01, 2018 | 7 Day |
| Synthetic Pyrethroids* - Method: LTM-ORG-2170 Synthetic Pyrethroids by HPLC-UV | Melbourne | Nov 01, 2018 | 7 Day |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Nov 01, 2018 | 28 Days |

| | | |
|--|----------------------------|---------------------------------------|
| Company Name: SLR Consulting (Sydney) | Order No.: | Received: Oct 31, 2018 9:45 AM |
| Address: 2 Lincoln St Lane Cove West NSW 2066 | Report #: 625300 | Due: Nov 7, 2018 |
| | Phone: 02 9428 8100 | Priority: 5 Day |
| | Fax: | Contact Name: Junaidi Ibrahim |
| Project Name: DSI PROTEN TAMWORTH | | |
| Project ID: 610.18456 | | |

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | HOLD | Triazines | Carbamate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|--------------|--------------|---------------|--------|-------------|------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | X | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | | |
| External Laboratory | | | | | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | | | | | |
| 1 | TP01_0.2-0.4 | Oct 30, 2018 | | Soil | S18-Oc38411 | | | X | X | X | X | X | X |
| 2 | TP01_0.5-0.6 | Oct 30, 2018 | | Soil | S18-Oc38412 | | | X | X | X | X | X | X |
| 3 | TP02_0.2-0.3 | Oct 30, 2018 | | Soil | S18-Oc38413 | | | X | X | X | X | X | X |
| 4 | TP02_0.4-0.5 | Oct 30, 2018 | | Soil | S18-Oc38414 | | | X | X | X | X | X | X |
| 5 | TP02_0.9-1.0 | Oct 30, 2018 | | Soil | S18-Oc38415 | | | X | X | X | X | X | X |
| 6 | TP03_0.1-0.2 | Oct 30, 2018 | | Soil | S18-Oc38416 | | | X | X | X | X | X | X |
| 7 | TP03_0.4-0.5 | Oct 30, 2018 | | Soil | S18-Oc38417 | | | X | X | X | X | X | X |
| 8 | TP03_0.9-1.0 | Oct 30, 2018 | | Soil | S18-Oc38418 | | | X | X | X | X | X | X |
| 9 | TP04_0.1-0.2 | Oct 30, 2018 | | Soil | S18-Oc38419 | | | X | X | X | X | X | X |

Company Name: SLR Consulting (Sydney)
Address: 2 Lincoln St
Lane Cove West
NSW 2066

Project Name: DSI PROTEN TAMWORTH
Project ID: 610.18456

Order No.:
Report #: 625300
Phone: 02 9428 8100
Fax:

Received: Oct 31, 2018 9:45 AM
Due: Nov 7, 2018
Priority: 5 Day
Contact Name: Junaidi Ibrahim

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | HOLD | Triazines | Carbamate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|--------------|--------------|--|-------|-------------|------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | X | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | | |
| 10 | QC1 | Oct 30, 2018 | | Soil | S18-Oc38420 | | | X | X | X | X | X | X |
| 11 | R01 | Oct 30, 2018 | | Water | S18-Oc38421 | | | X | X | X | X | X | |
| 12 | TS | Oct 30, 2018 | | Water | S18-Oc38422 | X | | | | | | | |
| 13 | TB | Oct 30, 2018 | | Water | S18-Oc38423 | X | | | | | | | |
| 14 | TS | Oct 30, 2018 | | Soil | S18-Oc38424 | | X | | | | | | |
| 15 | TB | Oct 30, 2018 | | Soil | S18-Oc38425 | | X | | | | | | |
| 16 | LAB SPIKE | Oct 30, 2018 | | Soil | S18-Oc38426 | | X | | | | | | |
| 17 | TP01_1.3-1.5 | Oct 30, 2018 | | Soil | S18-Oc38429 | | | X | X | X | X | X | X |
| Test Counts | | | | | | 5 | 5 | 12 | 12 | 12 | 12 | 12 | 11 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | Quality Systems Manual ver 5.1 US Department of Defense |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPaA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Method Blank | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | mg/L | < 0.001 | | | 0.001 | Pass | |
| 4.4'-DDD | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| 4.4'-DDE | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| 4.4'-DDT | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| a-BHC | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Aldrin | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| b-BHC | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| d-BHC | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Dieldrin | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endosulfan I | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endosulfan II | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endosulfan sulphate | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endrin | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endrin aldehyde | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endrin ketone | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| g-BHC (Lindane) | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Heptachlor | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Heptachlor epoxide | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Hexachlorobenzene | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Methoxychlor | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Toxaphene | mg/L | < 0.01 | | | 0.01 | Pass | |
| Method Blank | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Azinphos-methyl | mg/L | < 0.002 | | | 0.002 | Pass | |
| Bolstar | mg/L | < 0.002 | | | 0.002 | Pass | |
| Chlorfenvinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Chlorpyrifos | mg/L | < 0.02 | | | 0.02 | Pass | |
| Chlorpyrifos-methyl | mg/L | < 0.002 | | | 0.002 | Pass | |
| Coumaphos | mg/L | < 0.02 | | | 0.02 | Pass | |
| Demeton-S | mg/L | < 0.02 | | | 0.02 | Pass | |
| Demeton-O | mg/L | < 0.002 | | | 0.002 | Pass | |
| Diazinon | mg/L | < 0.002 | | | 0.002 | Pass | |
| Dichlorvos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Dimethoate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Disulfoton | mg/L | < 0.002 | | | 0.002 | Pass | |
| EPN | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethoprop | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethyl parathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fenitrothion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fensulfothion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fenthion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Malathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Merphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Methyl parathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Mevinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Monocrotophos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Naled | mg/L | < 0.002 | | | 0.002 | Pass | |
| Omethoate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Phorate | mg/L | < 0.002 | | | 0.002 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Pirimiphos-methyl | mg/L | < 0.02 | | | 0.02 | Pass | |
| Pyrazophos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ronnel | mg/L | < 0.002 | | | 0.002 | Pass | |
| Terbufos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Tetrachlorvinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Tokuthion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Trichloronate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Method Blank | | | | | | | |
| Triazines | | | | | | | |
| Ametryn | mg/L | < 0.002 | | | 0.002 | Pass | |
| Atraton | mg/L | < 0.002 | | | 0.002 | Pass | |
| Atrazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Prometon | mg/L | < 0.002 | | | 0.002 | Pass | |
| Prometryn | mg/L | < 0.002 | | | 0.002 | Pass | |
| Propazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Simazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Simetryn | mg/L | < 0.002 | | | 0.002 | Pass | |
| Terbutylazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Terbutryne | mg/L | < 0.002 | | | 0.002 | Pass | |
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | mg/L | < 0.001 | | | 0.001 | Pass | |
| Cadmium | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Chromium | mg/L | < 0.001 | | | 0.001 | Pass | |
| Copper | mg/L | < 0.001 | | | 0.001 | Pass | |
| Lead | mg/L | < 0.001 | | | 0.001 | Pass | |
| Mercury | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Nickel | mg/L | < 0.001 | | | 0.001 | Pass | |
| Zinc | mg/L | < 0.005 | | | 0.005 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | % | 102 | | | 70-130 | Pass | |
| 4,4'-DDD | % | 99 | | | 70-130 | Pass | |
| 4,4'-DDE | % | 126 | | | 70-130 | Pass | |
| 4,4'-DDT | % | 89 | | | 70-130 | Pass | |
| a-BHC | % | 121 | | | 70-130 | Pass | |
| Aldrin | % | 104 | | | 70-130 | Pass | |
| b-BHC | % | 123 | | | 70-130 | Pass | |
| d-BHC | % | 114 | | | 70-130 | Pass | |
| Dieldrin | % | 119 | | | 70-130 | Pass | |
| Endosulfan I | % | 125 | | | 70-130 | Pass | |
| Endosulfan II | % | 124 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 92 | | | 70-130 | Pass | |
| Endrin | % | 115 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 82 | | | 70-130 | Pass | |
| Endrin ketone | % | 115 | | | 70-130 | Pass | |
| g-BHC (Lindane) | % | 113 | | | 70-130 | Pass | |
| Heptachlor | % | 115 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 105 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 120 | | | 70-130 | Pass | |
| Methoxychlor | % | 71 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Diazinon | % | 84 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|---------------|-----------|-------|----------|--|-------------------|-------------|-----------------|
| Dimethoate | | | % | 74 | | 70-130 | Pass | |
| Ethion | | | % | 78 | | 70-130 | Pass | |
| Fenitrothion | | | % | 72 | | 70-130 | Pass | |
| Methyl parathion | | | % | 78 | | 70-130 | Pass | |
| Mevinphos | | | % | 90 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | |
| Triazines | | | | | | | | |
| Prometryn | | | % | 80 | | 75-125 | Pass | |
| LCS - % Recovery | | | | | | | | |
| Heavy Metals | | | | | | | | |
| Arsenic | | | % | 95 | | 80-120 | Pass | |
| Cadmium | | | % | 95 | | 80-120 | Pass | |
| Chromium | | | % | 92 | | 80-120 | Pass | |
| Copper | | | % | 94 | | 80-120 | Pass | |
| Lead | | | % | 92 | | 80-120 | Pass | |
| Mercury | | | % | 89 | | 75-125 | Pass | |
| Nickel | | | % | 94 | | 80-120 | Pass | |
| Zinc | | | % | 98 | | 80-120 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| Chlordanes - Total | M18-Oc34276 | NCP | % | 80 | | 70-130 | Pass | |
| 4.4'-DDD | M18-Oc34276 | NCP | % | 73 | | 70-130 | Pass | |
| 4.4'-DDE | M18-Oc34276 | NCP | % | 90 | | 70-130 | Pass | |
| 4.4'-DDT | M18-Oc34276 | NCP | % | 74 | | 70-130 | Pass | |
| a-BHC | M18-Oc34276 | NCP | % | 81 | | 70-130 | Pass | |
| Aldrin | M18-Oc34276 | NCP | % | 72 | | 70-130 | Pass | |
| b-BHC | M18-Oc34276 | NCP | % | 80 | | 70-130 | Pass | |
| d-BHC | M18-Oc34276 | NCP | % | 91 | | 70-130 | Pass | |
| Dieldrin | M18-Oc34276 | NCP | % | 92 | | 70-130 | Pass | |
| Endosulfan I | M18-Oc34276 | NCP | % | 93 | | 70-130 | Pass | |
| Endosulfan II | M18-Oc34276 | NCP | % | 98 | | 70-130 | Pass | |
| Endosulfan sulphate | M18-Oc33704 | NCP | % | 85 | | 70-130 | Pass | |
| Endrin | M18-Oc34276 | NCP | % | 81 | | 70-130 | Pass | |
| Endrin aldehyde | M18-Oc34276 | NCP | % | 71 | | 70-130 | Pass | |
| Endrin ketone | M18-Oc34276 | NCP | % | 86 | | 70-130 | Pass | |
| g-BHC (Lindane) | M18-Oc34276 | NCP | % | 95 | | 70-130 | Pass | |
| Heptachlor | M18-Oc34276 | NCP | % | 71 | | 70-130 | Pass | |
| Heptachlor epoxide | M18-Oc34276 | NCP | % | 82 | | 70-130 | Pass | |
| Hexachlorobenzene | M18-Oc34276 | NCP | % | 75 | | 70-130 | Pass | |
| Methoxychlor | M18-Oc33704 | NCP | % | 91 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | | | | |
| Diazinon | M18-Oc37832 | NCP | % | 109 | | 70-130 | Pass | |
| Dimethoate | M18-Oc37832 | NCP | % | 79 | | 70-130 | Pass | |
| Ethion | M18-Oc37832 | NCP | % | 84 | | 70-130 | Pass | |
| Fenitrothion | M18-Oc37832 | NCP | % | 95 | | 70-130 | Pass | |
| Methyl parathion | M18-Oc37832 | NCP | % | 89 | | 70-130 | Pass | |
| Mevinphos | M18-Oc37832 | NCP | % | 84 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | |
| Arsenic | M18-Oc37667 | NCP | % | 98 | | 75-125 | Pass | |
| Cadmium | M18-Oc37667 | NCP | % | 98 | | 75-125 | Pass | |
| Chromium | M18-Oc37667 | NCP | % | 97 | | 75-125 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Copper | M18-Oc37667 | NCP | % | 98 | | | 75-125 | Pass | |
| Lead | M18-Oc37667 | NCP | % | 95 | | | 75-125 | Pass | |
| Mercury | M18-Oc37667 | NCP | % | 93 | | | 70-130 | Pass | |
| Nickel | M18-Oc37667 | NCP | % | 99 | | | 75-125 | Pass | |
| Zinc | M18-Oc37667 | NCP | % | 101 | | | 75-125 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | M18-Oc37831 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| 4.4'-DDD | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| 4.4'-DDE | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| 4.4'-DDT | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| a-BHC | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Aldrin | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| b-BHC | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| d-BHC | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Dieldrin | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endosulfan I | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endosulfan II | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endosulfan sulphate | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endrin | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endrin aldehyde | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endrin ketone | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| g-BHC (Lindane) | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Heptachlor | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Heptachlor epoxide | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Hexachlorobenzene | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Methoxychlor | M18-Oc37831 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Bolstar | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Chlorfenvinphos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Chlorpyrifos | M18-Oc37831 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Coumaphos | M18-Oc37831 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass | |
| Demeton-S | M18-Oc37831 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass | |
| Demeton-O | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Diazinon | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Dichlorvos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Dimethoate | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Disulfoton | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| EPN | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Ethion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Ethoprop | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Ethyl parathion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Fenitrothion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Fensulfothion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Fenthion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Malathion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Merphos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Methyl parathion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Mevinphos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| Monocrotophos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|-----|------|----------|----------|-----|-----|------|
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Naled | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Omethoate | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Phorate | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Pirimiphos-methyl | M18-Oc37831 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass |
| Pyrazophos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Ronnel | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Terbufos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Tetrachlorvinphos | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Tokuthion | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Trichloronate | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Ametryn | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Atraton | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Atrazine | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Prometon | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Prometryn | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Propazine | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Simazine | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Simetryn | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Terbutylazine | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Terbutryne | M18-Oc37831 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | M18-Oc37667 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass |
| Cadmium | M18-Oc37667 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass |
| Chromium | M18-Oc37667 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass |
| Copper | M18-Oc37667 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass |
| Lead | M18-Oc37667 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass |
| Mercury | M18-Oc37667 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Nickel | M18-Oc37667 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass |
| Zinc | M18-Oc37667 | NCP | mg/L | < 0.005 | < 0.005 | <1 | 30% | Pass |

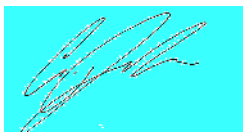
Comments

Sample Integrity

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

Authorised By

| | |
|----------------|------------------------------|
| Andrew Black | Analytical Services Manager |
| Chris Bennett | Senior Analyst-Metal (VIC) |
| Joseph Edouard | Senior Analyst-Organic (VIC) |



Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Attention: Junaidi Ibrahim

Report **631838-S**
Project name PROTEN TAMWORTH SCA
Project ID 610.18456.00100
Received Date Dec 07, 2018

| Client Sample ID | | | TP01_0.1 | TP01_0.7 | TP01_1.2 | TP16_0.2 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08338 | S18-De08339 | S18-De08340 | S18-De08341 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 70 | 72 | 89 | 134 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 110 | 116 | 66 | 77 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP01_0.1 | TP01_0.7 | TP01_1.2 | TP16_0.2 |
|------------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08338 | S18-De08339 | S18-De08340 | S18-De08341 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 85 | 84 | 114 | 113 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |

| Client Sample ID | | | TP01_0.1 | TP01_0.7 | TP01_1.2 | TP16_0.2 |
|-------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08338 | S18-De08339 | S18-De08340 | S18-De08341 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 860 | 280 | 230 | 780 |
| Cadmium | 0.4 | mg/kg | 1.6 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 14 | 12 | 9.4 | 15 |
| Copper | 5 | mg/kg | 53 | 46 | 46 | 48 |
| Lead | 5 | mg/kg | 83 | 12 | 15 | 18 |
| Mercury | 0.1 | mg/kg | 0.6 | < 0.1 | < 0.1 | 0.3 |
| Nickel | 5 | mg/kg | 11 | 14 | 12 | 15 |
| Zinc | 5 | mg/kg | 940 | 97 | 160 | 330 |
| % Moisture | | | | | | |
| | 1 | % | 20 | 12 | 8.6 | 16 |

| Client Sample ID | | | TP16_0.6 | TP16_1.1 | TP02_0.2 | TP02_0.7 |
|----------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08342 | S18-De08343 | S18-De08406 | S18-De08407 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

| Client Sample ID | | | TP16_0.6 | TP16_1.1 | TP02_0.2 | TP02_0.7 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08342 | S18-De08343 | S18-De08406 | S18-De08407 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 134 | 129 | 129 | 95 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 70 | 78 | 90 | 66 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 103 | 111 | 119 | 127 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP16_0.6 | TP16_1.1 | TP02_0.2 | TP02_0.7 |
|-------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08342 | S18-De08343 | S18-De08406 | S18-De08407 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Triazines | | | | | | |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 250 | 180 | 380 | 43 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 13 | 11 | 15 | 9.8 |
| Copper | 5 | mg/kg | 53 | 46 | 46 | 39 |
| Lead | 5 | mg/kg | 12 | 10 | 63 | 8.5 |
| Mercury | 0.1 | mg/kg | 0.2 | < 0.1 | 0.3 | < 0.1 |
| Nickel | 5 | mg/kg | 14 | 12 | 14 | 12 |
| Zinc | 5 | mg/kg | 95 | 81 | 390 | 62 |
| % Moisture | 1 | % | 11 | 7.9 | 11 | 9.0 |

| Client Sample ID | | | TP02_1.2 | TP06_0.2 | TP06_0.6 | TP06_1.1 |
|----------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08408 | S18-De08409 | S18-De08410 | S18-De08411 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | 0.06 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

| Client Sample ID | | | TP02_1.2 | TP06_0.2 | TP06_0.6 | TP06_1.1 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08408 | S18-De08409 | S18-De08410 | S18-De08411 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 92 | 94 | 85 | 80 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 59 | 116 | 114 | 116 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP02_1.2 | TP06_0.2 | TP06_0.6 | TP06_1.1 |
|------------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08408 | S18-De08409 | S18-De08410 | S18-De08411 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 75 | 121 | 111 | 91 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 43 | 390 | 26 | 25 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 9.4 | 14 | 9.0 | 8.5 |
| Copper | 5 | mg/kg | 28 | 53 | 41 | 40 |
| Lead | 5 | mg/kg | 14 | 42 | 8.6 | 11 |
| Mercury | 0.1 | mg/kg | < 0.1 | 0.3 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 10 | 13 | 12 | 12 |
| Zinc | 5 | mg/kg | 52 | 220 | 68 | 73 |
| % Moisture | 1 | % | 9.9 | 14 | 6.4 | 6.1 |

| Client Sample ID | | | TP07_0.2 | TP07_0.6 | TP07_1.1 | TP11_0.2 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08412 | S18-De08413 | S18-De08414 | S18-De08415 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 82 | 72 | 101 | 122 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 117 | 114 | 99 | 110 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP07_0.2 | TP07_0.6 | TP07_1.1 | TP11_0.2 |
|------------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08412 | S18-De08413 | S18-De08414 | S18-De08415 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 112 | 89 | 74 | 69 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 310 | 40 | 14 | 1400 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 16 | 13 | 9.4 | 18 |
| Copper | 5 | mg/kg | 56 | 47 | 46 | 53 |
| Lead | 5 | mg/kg | 47 | 12 | 12 | 22 |
| Mercury | 0.1 | mg/kg | 0.1 | < 0.1 | < 0.1 | < 0.1 |

| Client Sample ID | | | TP07_0.2 | TP07_0.6 | TP07_1.1 | TP11_0.2 |
|---------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08412 | S18-De08413 | S18-De08414 | S18-De08415 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Nickel | 5 | mg/kg | 15 | 14 | 13 | 14 |
| Zinc | 5 | mg/kg | 360 | 80 | 70 | 240 |
| % Moisture | 1 | % | 15 | 8.2 | 8.0 | 15 |

| Client Sample ID | | | TP11_0.6 | TP11_1.1 | TP12_0.2 | TP12_0.6 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08416 | S18-De08417 | S18-De08418 | S18-De08419 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 64 | 107 | 71 | 74 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 91 | 107 | 109 | 123 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP11_0.6 | TP11_1.1 | TP12_0.2 | TP12_0.6 |
|------------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08416 | S18-De08417 | S18-De08418 | S18-De08419 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 95 | 83 | 83 | 83 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |

| Client Sample ID | | | TP11_0.6 | TP11_1.1 | TP12_0.2 | TP12_0.6 |
|-------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08416 | S18-De08417 | S18-De08418 | S18-De08419 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 210 | 310 | 1000 | 120 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 12 | 11 | 16 | 9.4 |
| Copper | 5 | mg/kg | 53 | 46 | 49 | 42 |
| Lead | 5 | mg/kg | 12 | 15 | 22 | 10 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | 0.3 | < 0.1 |
| Nickel | 5 | mg/kg | 23 | 13 | 13 | 15 |
| Zinc | 5 | mg/kg | 210 | 110 | 190 | 77 |
| % Moisture | 1 | % | 8.6 | 8.0 | 14 | 5.9 |

| Client Sample ID | | | TP12_1.1 | QC1 | QC3 | QC4 |
|----------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08420 | S18-De08421 | S18-De08422 | S18-De08423 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

| Client Sample ID | | | TP12_1.1 | QC1 | QC3 | QC4 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08420 | S18-De08421 | S18-De08422 | S18-De08423 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 114 | 93 | 106 | 111 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 55 | 98 | 56 | 62 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 88 | 88 | 99 | 80 |
| Triazines | | | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | TP12_1.1 | QC1 | QC3 | QC4 |
|-------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08420 | S18-De08421 | S18-De08422 | S18-De08423 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Triazines | | | | | | |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Synthetic Pyrethroids* | | | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 460 | 770 | 1300 | 180 |
| Cadmium | 0.4 | mg/kg | < 0.4 | 2.0 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 12 | 14 | 17 | 9.8 |
| Copper | 5 | mg/kg | 45 | 56 | 50 | 43 |
| Lead | 5 | mg/kg | 12 | 110 | 19 | 11 |
| Mercury | 0.1 | mg/kg | < 0.1 | 0.8 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 13 | 11 | 13 | 17 |
| Zinc | 5 | mg/kg | 110 | 910 | 240 | 81 |
| % Moisture | | | | | | |
| | 1 | % | 9.0 | 20 | 16 | 7.3 |

| Client Sample ID | | | QC5 | QC7 |
|----------------------------------|------|-------|--------------|--------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08424 | S18-De08425 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | |
| Organochlorine Pesticides | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 |
| a-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| b-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 |
| d-BHC | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 |

| Client Sample ID | | | QC5 | QC7 |
|-------------------------------------|------|-------|--------------|--------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08424 | S18-De08425 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | |
| Organochlorine Pesticides | | | | |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 |
| g-BHC (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Toxaphene | 1 | mg/kg | < 1 | < 1 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 |
| Dibutylchloroendate (surr.) | 1 | % | 96 | 82 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 51 | 99 |
| Organophosphorus Pesticides | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 |

| Client Sample ID | | | QC5 | QC7 |
|------------------------------------|-----|-------|--------------|--------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins mgt Sample No. | | | S18-De08424 | S18-De08425 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | |
| Organophosphorus Pesticides | | | | |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 86 | 61 |
| Triazines | | | | |
| Ametryn | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Atraton | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Atrazine | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Prometon | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Prometryn | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Propazine | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Simazine | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Simetryn | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Terbutylazine | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Terbutryne | 0.2 | mg/kg | < 0.2 | < 0.2 |
| Carbamate Pesticides | | | | |
| Aldicarb | 2 | mg/kg | < 2 | < 2 |
| Bendiocarb | 2 | mg/kg | < 2 | < 2 |
| Carbaryl | 2 | mg/kg | < 2 | < 2 |
| Carbofuran | 2 | mg/kg | < 2 | < 2 |
| Methomyl | 2 | mg/kg | < 2 | < 2 |
| Oxamyl | 2 | mg/kg | < 2 | < 2 |
| Thiobencarb | 2 | mg/kg | < 2 | < 2 |
| Synthetic Pyrethroids* | | | | |
| Allethrin* | 2 | mg/kg | < 2 | < 2 |
| Cyfluthrin* | 2 | mg/kg | < 2 | < 2 |
| Cypermethrin (total)* | 2 | mg/kg | < 2 | < 2 |
| Fenvalerate* | 2 | mg/kg | < 2 | < 2 |
| Permethrin | 2 | mg/kg | < 2 | < 2 |
| Phenothrin* | 2 | mg/kg | < 2 | < 2 |
| Resmethrin* | 2 | mg/kg | < 2 | < 2 |
| Tetramethrin* | 2 | mg/kg | < 2 | < 2 |
| Heavy Metals | | | | |
| Arsenic | 2 | mg/kg | 400 | 36 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 14 | 11 |
| Copper | 5 | mg/kg | 50 | 43 |
| Lead | 5 | mg/kg | 36 | 9.8 |
| Mercury | 0.1 | mg/kg | 0.3 | < 0.1 |
| Nickel | 5 | mg/kg | 13 | 12 |
| Zinc | 5 | mg/kg | 180 | 65 |
| % Moisture | | | | |
| | 1 | % | 14 | 8.1 |

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Eurofins mgt Suite B14 | | | |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | Melbourne | Dec 13, 2018 | 14 Day |
| Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | Melbourne | Dec 13, 2018 | 14 Day |
| Triazines - Method: LTM-ORG-2080 | Melbourne | Dec 13, 2018 | 14 Day |
| Carbamate Pesticides - Method: LTM-ORG-2290 Carbamates in waters and soils by HPLC | Melbourne | Dec 13, 2018 | 14 Day |
| Synthetic Pyrethroids* - Method: LTM-ORG-2170 Synthetic Pyrethroids by HPLC-UV | Melbourne | Dec 13, 2018 | 14 Day |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Dec 13, 2018 | 28 Days |
| % Moisture - Method: LTM-GEN-7080 Moisture | Melbourne | Dec 07, 2018 | 14 Day |

| | | |
|--|---|--|
| Company Name: SLR Consulting (Sydney) Address: 2 Lincoln St Lane Cove West NSW 2066 Project Name: PROTEN TAMWORTH SCA Project ID: 610.18456.00100 | Order No.: Report #: 631838 Phone: 02 9428 8100 Fax: | Received: Dec 7, 2018 2:21 PM Due: Dec 14, 2018 Priority: 5 Day Contact Name: Junaidi Ibrahim |
| Eurofins mgt Analytical Services Manager : Andrew Black | | |

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|-----------|--------------|---------------|--------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| External Laboratory | | | | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | | | | |
| 1 | TP01_0.1 | Dec 06, 2018 | | Soil | S18-De08338 | | X | X | X | X | X | X |
| 2 | TP01_0.7 | Dec 06, 2018 | | Soil | S18-De08339 | | X | X | X | X | X | X |
| 3 | TP01_1.2 | Dec 06, 2018 | | Soil | S18-De08340 | | X | X | X | X | X | X |
| 4 | TP16_0.2 | Dec 06, 2018 | | Soil | S18-De08341 | | X | X | X | X | X | X |
| 5 | TP16_0.6 | Dec 06, 2018 | | Soil | S18-De08342 | | X | X | X | X | X | X |
| 6 | TP16_1.1 | Dec 06, 2018 | | Soil | S18-De08343 | | X | X | X | X | X | X |
| 7 | TP02_0.2 | Dec 06, 2018 | | Soil | S18-De08406 | | X | X | X | X | X | X |
| 8 | TP02_0.7 | Dec 06, 2018 | | Soil | S18-De08407 | | X | X | X | X | X | X |
| 9 | TP02_1.2 | Dec 06, 2018 | | Soil | S18-De08408 | | X | X | X | X | X | X |

Company Name: SLR Consulting (Sydney)
Address: 2 Lincoln St
Lane Cove West
NSW 2066
Project Name: PROTEN TAMWORTH SCA
Project ID: 610.18456.00100

Order No.:
Report #: 631838
Phone: 02 9428 8100
Fax:

Received: Dec 7, 2018 2:21 PM
Due: Dec 14, 2018
Priority: 5 Day
Contact Name: Junaidi Ibrahim

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 10 | TP06_0.2 | Dec 06, 2018 | | Soil | S18-De08409 | | X | X | X | X | X | X |
| 11 | TP06_0.6 | Dec 06, 2018 | | Soil | S18-De08410 | | X | X | X | X | X | X |
| 12 | TP06_1.1 | Dec 06, 2018 | | Soil | S18-De08411 | | X | X | X | X | X | X |
| 13 | TP07_0.2 | Dec 06, 2018 | | Soil | S18-De08412 | | X | X | X | X | X | X |
| 14 | TP07_0.6 | Dec 06, 2018 | | Soil | S18-De08413 | | X | X | X | X | X | X |
| 15 | TP07_1.1 | Dec 06, 2018 | | Soil | S18-De08414 | | X | X | X | X | X | X |
| 16 | TP11_0.2 | Dec 06, 2018 | | Soil | S18-De08415 | | X | X | X | X | X | X |
| 17 | TP11_0.6 | Dec 06, 2018 | | Soil | S18-De08416 | | X | X | X | X | X | X |
| 18 | TP11_1.1 | Dec 06, 2018 | | Soil | S18-De08417 | | X | X | X | X | X | X |
| 19 | TP12_0.2 | Dec 06, 2018 | | Soil | S18-De08418 | | X | X | X | X | X | X |
| 20 | TP12_0.6 | Dec 06, 2018 | | Soil | S18-De08419 | | X | X | X | X | X | X |
| 21 | TP12_1.1 | Dec 06, 2018 | | Soil | S18-De08420 | | X | X | X | X | X | X |

| | | |
|--|---|--|
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| Eurofins mgt Analytical Services Manager : Andrew Black | | |

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|-------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 22 | QC1 | Dec 06, 2018 | | Soil | S18-De08421 | | X | X | X | X | X | X |
| 23 | QC3 | Dec 06, 2018 | | Soil | S18-De08422 | | X | X | X | X | X | X |
| 24 | QC4 | Dec 06, 2018 | | Soil | S18-De08423 | | X | X | X | X | X | X |
| 25 | QC5 | Dec 06, 2018 | | Soil | S18-De08424 | | X | X | X | X | X | X |
| 26 | QC7 | Dec 06, 2018 | | Soil | S18-De08425 | | X | X | X | X | X | X |
| 27 | R01 | Dec 06, 2018 | | Water | S18-De08426 | | | | X | | | |
| 28 | R02 | Dec 06, 2018 | | Water | S18-De08427 | | X | X | X | | X | |
| 29 | TP17_0.1 | Dec 06, 2018 | | Soil | S18-De08428 | X | | | | | | |
| 30 | TP17_0.8 | Dec 06, 2018 | | Soil | S18-De08429 | X | | | | | | |
| 31 | TP17_1.2 | Dec 06, 2018 | | Soil | S18-De08430 | X | | | | | | |
| 32 | TP03_0.2 | Dec 06, 2018 | | Soil | S18-De08431 | X | | | | | | |
| 33 | TP03_0.6 | Dec 06, 2018 | | Soil | S18-De08432 | X | | | | | | |

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Phone: 02 9428 8100
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Received: Dec 7, 2018 2:21 PM
Due: Dec 14, 2018
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Contact Name: Junaidi Ibrahim

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 34 | TP03_1.1 | Dec 06, 2018 | | Soil | S18-De08433 | X | | | | | | |
| 35 | TP04_0.2 | Dec 06, 2018 | | Soil | S18-De08434 | X | | | | | | |
| 36 | TP04_0.7 | Dec 06, 2018 | | Soil | S18-De08435 | X | | | | | | |
| 37 | TP04_1.1 | Dec 06, 2018 | | Soil | S18-De08436 | X | | | | | | |
| 38 | TP05_0.2 | Dec 06, 2018 | | Soil | S18-De08437 | X | | | | | | |
| 39 | TP05_0.6 | Dec 06, 2018 | | Soil | S18-De08438 | X | | | | | | |
| 40 | TP05_1.1 | Dec 06, 2018 | | Soil | S18-De08439 | X | | | | | | |
| 41 | TP08_0.1 | Dec 06, 2018 | | Soil | S18-De08440 | X | | | | | | |
| 42 | TP08_0.5 | Dec 06, 2018 | | Soil | S18-De08441 | X | | | | | | |
| 43 | TP08_1.0 | Dec 06, 2018 | | Soil | S18-De08442 | X | | | | | | |
| 44 | TP09_0.1 | Dec 06, 2018 | | Soil | S18-De08443 | X | | | | | | |
| 45 | TP09_0.5 | Dec 06, 2018 | | Soil | S18-De08444 | X | | | | | | |

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Contact Name: Junaidi Ibrahim

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 46 | TP09_0.9 | Dec 06, 2018 | | Soil | S18-De08445 | X | | | | | | |
| 47 | TP10_0.1 | Dec 06, 2018 | | Soil | S18-De08446 | X | | | | | | |
| 48 | TP10_0.4 | Dec 06, 2018 | | Soil | S18-De08447 | X | | | | | | |
| 49 | TP10_0.8 | Dec 06, 2018 | | Soil | S18-De08448 | X | | | | | | |
| 50 | TP13_0.2 | Dec 06, 2018 | | Soil | S18-De08449 | X | | | | | | |
| 51 | TP13_0.6 | Dec 06, 2018 | | Soil | S18-De08450 | X | | | | | | |
| 52 | TP13_1.0 | Dec 06, 2018 | | Soil | S18-De08451 | X | | | | | | |
| 53 | TP14_0.2 | Dec 06, 2018 | | Soil | S18-De08452 | X | | | | | | |
| 54 | TP14_0.6 | Dec 06, 2018 | | Soil | S18-De08453 | X | | | | | | |
| 55 | TP14_1.1 | Dec 06, 2018 | | Soil | S18-De08454 | X | | | | | | |
| 56 | TP15_0.2 | Dec 06, 2018 | | Soil | S18-De08455 | X | | | | | | |
| 57 | TP15_0.7 | Dec 06, 2018 | | Soil | S18-De08456 | X | | | | | | |

| | | |
|--|----------------------------|--------------------------------------|
| Company Name: SLR Consulting (Sydney) | Order No.: | Received: Dec 7, 2018 2:21 PM |
| Address: 2 Lincoln St Lane Cove West NSW 2066 | Report #: 631838 | Due: Dec 14, 2018 |
| | Phone: 02 9428 8100 | Priority: 5 Day |
| | Fax: | Contact Name: Junaidi Ibrahim |
| Project Name: PROTEN TAMWORTH SCA | | |
| Project ID: 610.18456.00100 | | |

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|-----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 58 | TP15_1.2 | Dec 06, 2018 | | Soil | S18-De08457 | X | | | | | | |
| 59 | TS | Dec 06, 2018 | | Soil | S18-De08522 | X | | | | | | |
| 60 | TB | Dec 06, 2018 | | Soil | S18-De08523 | X | | | | | | |
| 61 | LAB SPIKE | Dec 06, 2018 | | Soil | S18-De08524 | X | | | | | | |
| Test Counts | | | | | | 33 | 27 | 27 | 27 | 27 | 27 | 26 |

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | Quality Systems Manual ver 5.1 US Department of Defense |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Method Blank | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-BHC (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 1 | | | 1 | Pass | |
| Method Blank | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | | | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | | | 2 | Pass | |
| Naled | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | | | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | | | 0.2 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Pirimiphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| Triazines | | | | | | | |
| Ametryn | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Atraton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Atrazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Prometon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Prometryn | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Propazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Simazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Simetryn | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbutylazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbutryne | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| Carbamate Pesticides | | | | | | | |
| Aldicarb | mg/kg | < 2 | | | 2 | Pass | |
| Bendiocarb | mg/kg | < 2 | | | 2 | Pass | |
| Carbaryl | mg/kg | < 2 | | | 2 | Pass | |
| Carbofuran | mg/kg | < 2 | | | 2 | Pass | |
| Methomyl | mg/kg | < 2 | | | 2 | Pass | |
| Oxamyl | mg/kg | < 2 | | | 2 | Pass | |
| Thiobencarb | mg/kg | < 2 | | | 2 | Pass | |
| Method Blank | | | | | | | |
| Synthetic Pyrethroids* | | | | | | | |
| Allethrin* | mg/kg | < 2 | | | 2 | Pass | |
| Cyfluthrin* | mg/kg | < 2 | | | 2 | Pass | |
| Cypermethrin (total)* | mg/kg | < 2 | | | 2 | Pass | |
| Fenvalerate* | mg/kg | < 2 | | | 2 | Pass | |
| Permethrin | mg/kg | < 2 | | | 2 | Pass | |
| Phenothrin* | mg/kg | < 2 | | | 2 | Pass | |
| Resmethrin* | mg/kg | < 2 | | | 2 | Pass | |
| Tetramethrin* | mg/kg | < 2 | | | 2 | Pass | |
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | % | 77 | | | 70-130 | Pass | |
| 4.4'-DDD | % | 71 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 119 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 73 | | | 70-130 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| a-BHC | % | 124 | | | 70-130 | Pass | |
| Aldrin | % | 112 | | | 70-130 | Pass | |
| b-BHC | % | 101 | | | 70-130 | Pass | |
| d-BHC | % | 123 | | | 70-130 | Pass | |
| Dieldrin | % | 115 | | | 70-130 | Pass | |
| Endosulfan I | % | 121 | | | 70-130 | Pass | |
| Endosulfan II | % | 123 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 113 | | | 70-130 | Pass | |
| Endrin | % | 104 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 118 | | | 70-130 | Pass | |
| Endrin ketone | % | 101 | | | 70-130 | Pass | |
| g-BHC (Lindane) | % | 117 | | | 70-130 | Pass | |
| Heptachlor | % | 86 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 116 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 128 | | | 70-130 | Pass | |
| Methoxychlor | % | 99 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Diazinon | % | 86 | | | 70-130 | Pass | |
| Dimethoate | % | 76 | | | 70-130 | Pass | |
| Ethion | % | 104 | | | 70-130 | Pass | |
| Fenitrothion | % | 100 | | | 70-130 | Pass | |
| Methyl parathion | % | 100 | | | 70-130 | Pass | |
| Mevinphos | % | 84 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Carbamate Pesticides | | | | | | | |
| Aldicarb | % | 110 | | | 70-130 | Pass | |
| Bendiocarb | % | 98 | | | 70-130 | Pass | |
| Carbaryl | % | 125 | | | 70-130 | Pass | |
| Carbofuran | % | 98 | | | 70-130 | Pass | |
| Methomyl | % | 110 | | | 70-130 | Pass | |
| Oxamyl | % | 98 | | | 70-130 | Pass | |
| Thiobencarb | % | 107 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Synthetic Pyrethroids* | | | | | | | |
| Allethrin* | % | 88 | | | 70-130 | Pass | |
| Cyfluthrin* | % | 93 | | | 70-130 | Pass | |
| Cypermethrin (total)* | % | 95 | | | 70-130 | Pass | |
| Fenvalerate* | % | 96 | | | 70-130 | Pass | |
| Permethrin | % | 103 | | | 70-130 | Pass | |
| Phenothrin* | % | 119 | | | 70-130 | Pass | |
| Resmethrin* | % | 125 | | | 70-130 | Pass | |
| Tetramethrin* | % | 104 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | % | 103 | | | 80-120 | Pass | |
| Cadmium | % | 99 | | | 80-120 | Pass | |
| Chromium | % | 112 | | | 80-120 | Pass | |
| Copper | % | 110 | | | 80-120 | Pass | |
| Lead | % | 113 | | | 80-120 | Pass | |
| Mercury | % | 99 | | | 75-125 | Pass | |
| Nickel | % | 105 | | | 80-120 | Pass | |
| Zinc | % | 105 | | | 80-120 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|---------------|-----------|-------|----------|--|-------------------|-------------|-----------------|
| Spike - % Recovery | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| Hexachlorobenzene | S18-De11597 | NCP | % | 130 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| 4.4'-DDD | M18-De14369 | NCP | % | 74 | | 70-130 | Pass | |
| 4.4'-DDE | M18-De10670 | NCP | % | 79 | | 70-130 | Pass | |
| 4.4'-DDT | M18-De10670 | NCP | % | 79 | | 70-130 | Pass | |
| Dieldrin | M18-De10670 | NCP | % | 96 | | 70-130 | Pass | |
| Heptachlor | M18-De10670 | NCP | % | 98 | | 70-130 | Pass | |
| Methoxychlor | M18-De10670 | NCP | % | 81 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | | | | |
| Dimethoate | M18-De16675 | NCP | % | 73 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | | | | |
| Diazinon | S18-De08343 | CP | % | 96 | | 70-130 | Pass | |
| Ethion | S18-De08343 | CP | % | 114 | | 70-130 | Pass | |
| Fenitrothion | S18-De08343 | CP | % | 86 | | 70-130 | Pass | |
| Methyl parathion | S18-De08343 | CP | % | 75 | | 70-130 | Pass | |
| Mevinphos | S18-De08343 | CP | % | 91 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| Chlordanes - Total | S18-De08409 | CP | % | 120 | | 70-130 | Pass | |
| a-BHC | S18-De08409 | CP | % | 116 | | 70-130 | Pass | |
| Aldrin | S18-De08409 | CP | % | 101 | | 70-130 | Pass | |
| b-BHC | S18-De08409 | CP | % | 111 | | 70-130 | Pass | |
| d-BHC | S18-De08409 | CP | % | 110 | | 70-130 | Pass | |
| Endosulfan I | S18-De08409 | CP | % | 116 | | 70-130 | Pass | |
| Endosulfan II | S18-De08409 | CP | % | 122 | | 70-130 | Pass | |
| Endosulfan sulphate | S18-De08409 | CP | % | 103 | | 70-130 | Pass | |
| Endrin | S18-De08409 | CP | % | 109 | | 70-130 | Pass | |
| Endrin aldehyde | S18-De08409 | CP | % | 108 | | 70-130 | Pass | |
| Endrin ketone | S18-De08409 | CP | % | 92 | | 70-130 | Pass | |
| g-BHC (Lindane) | S18-De08409 | CP | % | 112 | | 70-130 | Pass | |
| Heptachlor epoxide | S18-De08409 | CP | % | 98 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | |
| Arsenic | S18-De08409 | CP | % | 113 | | 75-125 | Pass | |
| Cadmium | S18-De08409 | CP | % | 95 | | 75-125 | Pass | |
| Chromium | S18-De08409 | CP | % | 108 | | 75-125 | Pass | |
| Copper | S18-De08409 | CP | % | 110 | | 75-125 | Pass | |
| Lead | S18-De08409 | CP | % | 111 | | 75-125 | Pass | |
| Mercury | S18-De08409 | CP | % | 102 | | 70-130 | Pass | |
| Nickel | S18-De08409 | CP | % | 107 | | 75-125 | Pass | |
| Zinc | S18-De08409 | CP | % | 130 | | 75-125 | Fail | Q08 |
| Spike - % Recovery | | | | | | | | |
| Carbamate Pesticides | | | | Result 1 | | | | |
| Aldicarb | S18-De08412 | CP | % | 98 | | 70-130 | Pass | |
| Bendiocarb | S18-De08412 | CP | % | 93 | | 70-130 | Pass | |
| Carbaryl | S18-De08412 | CP | % | 118 | | 70-130 | Pass | |
| Carbofuran | S18-De08412 | CP | % | 93 | | 70-130 | Pass | |
| Methomyl | S18-De08412 | CP | % | 97 | | 70-130 | Pass | |
| Oxamyl | S18-De08412 | CP | % | 81 | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Thiobencarb | S18-De08412 | CP | % | 103 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Synthetic Pyrethroids* | | | | Result 1 | | | | | |
| Cyfluthrin* | S18-De08412 | CP | % | 92 | | | 70-130 | Pass | |
| Cypermethrin (total)* | S18-De08412 | CP | % | 94 | | | 70-130 | Pass | |
| Permethrin | S18-De08412 | CP | % | 98 | | | 70-130 | Pass | |
| Resmethrin* | S18-De08412 | CP | % | 99 | | | 70-130 | Pass | |
| Tetramethrin* | S18-De08412 | CP | % | 110 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | |
| Arsenic | S18-De08419 | CP | % | 113 | | | 75-125 | Pass | |
| Cadmium | S18-De08419 | CP | % | 93 | | | 75-125 | Pass | |
| Chromium | S18-De08419 | CP | % | 107 | | | 75-125 | Pass | |
| Copper | S18-De08419 | CP | % | 115 | | | 75-125 | Pass | |
| Lead | S18-De08419 | CP | % | 104 | | | 75-125 | Pass | |
| Mercury | S18-De08419 | CP | % | 97 | | | 70-130 | Pass | |
| Nickel | S18-De08419 | CP | % | 113 | | | 75-125 | Pass | |
| Zinc | S18-De08419 | CP | % | 116 | | | 75-125 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | M18-De08558 | NCP | % | 13 | 13 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S18-De08342 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-BHC | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-BHC | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-BHC | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-BHC (Lindane) | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S18-De08342 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Bolstar | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorfenvinphos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Coumaphos | S18-De08342 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Demeton-S | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Demeton-O | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|----|-------|----------|----------|-----|-----|------|
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Diazinon | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dichlorvos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dimethoate | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Disulfoton | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| EPN | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethoprop | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethyl parathion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenitrothion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fensulfothion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenthion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Malathion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Merphos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Methyl parathion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Mevinphos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Monocrotophos | S18-De08342 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Naled | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Omethoate | S18-De08342 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Phorate | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pirimiphos-methyl | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pyrazophos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ronnel | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbufos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tetrachlorvinphos | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tokuthion | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Trichloronate | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Ametryn | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atraton | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atrazine | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometon | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometryn | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Propazine | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simazine | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simetryn | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutylazine | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutryne | S18-De08342 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Chlordanes - Total | S18-De08408 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| 4,4'-DDD | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDE | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDT | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| a-BHC | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Aldrin | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| b-BHC | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| d-BHC | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Dieldrin | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan I | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan II | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan sulphate | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin aldehyde | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|----|-------|----------|----------|-----|-----|------|
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Endrin ketone | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| g-BHC (Lindane) | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor epoxide | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Hexachlorobenzene | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Methoxychlor | S18-De08408 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Azinphos-methyl | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Bolstar | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorfenvinphos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos-methyl | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Coumaphos | S18-De08408 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Demeton-S | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Demeton-O | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Diazinon | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dichlorvos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dimethoate | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Disulfoton | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| EPN | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethoprop | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethyl parathion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenitrothion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fensulfthion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenthion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Malathion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Merphos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Methyl parathion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Mevinphos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Monocrotophos | S18-De08408 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Naled | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Omethoate | S18-De08408 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Phorate | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pirimiphos-methyl | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pyrazophos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ronnel | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbufos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tetrachlorvinphos | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tokuthion | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Trichloronate | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Ametryn | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atraton | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atrazine | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometon | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometryn | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Propazine | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simazine | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simetryn | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutylazine | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutryne | S18-De08408 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|----|-------|----------|----------|-----|-----|------|
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18-De08408 | CP | mg/kg | 43 | 36 | 18 | 30% | Pass |
| Cadmium | S18-De08408 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S18-De08408 | CP | mg/kg | 9.4 | 8.9 | 5.0 | 30% | Pass |
| Copper | S18-De08408 | CP | mg/kg | 28 | 34 | 17 | 30% | Pass |
| Lead | S18-De08408 | CP | mg/kg | 14 | 12 | 14 | 30% | Pass |
| Mercury | S18-De08408 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Nickel | S18-De08408 | CP | mg/kg | 10 | 11 | 9.0 | 30% | Pass |
| Zinc | S18-De08408 | CP | mg/kg | 52 | 60 | 14 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18-De08409 | CP | mg/kg | 390 | 400 | 2.0 | 30% | Pass |
| Cadmium | S18-De08409 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S18-De08409 | CP | mg/kg | 14 | 14 | 2.0 | 30% | Pass |
| Copper | S18-De08409 | CP | mg/kg | 53 | 54 | 1.0 | 30% | Pass |
| Lead | S18-De08409 | CP | mg/kg | 42 | 43 | 1.0 | 30% | Pass |
| Mercury | S18-De08409 | CP | mg/kg | 0.3 | 0.3 | 6.0 | 30% | Pass |
| Nickel | S18-De08409 | CP | mg/kg | 13 | 14 | 1.0 | 30% | Pass |
| Zinc | S18-De08409 | CP | mg/kg | 220 | 220 | 1.0 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Chlordanes - Total | S18-De08410 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| 4,4'-DDD | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDE | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDT | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| a-BHC | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Aldrin | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| b-BHC | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| d-BHC | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Dieldrin | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan I | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan II | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan sulphate | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin aldehyde | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin ketone | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| g-BHC (Lindane) | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor epoxide | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Hexachlorobenzene | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Methoxychlor | S18-De08410 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Azinphos-methyl | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Bolstar | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorfenvinphos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Chlorpyrifos-methyl | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Coumaphos | S18-De08410 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Demeton-S | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Demeton-O | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Diazinon | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dichlorvos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Dimethoate | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Disulfoton | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|----|-------|----------|----------|-----|-----|------|
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| EPN | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethoprop | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ethyl parathion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenitrothion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fensulfothion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Fenthion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Malathion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Merphos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Methyl parathion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Mevinphos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Monocrotophos | S18-De08410 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Naled | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Omethoate | S18-De08410 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Phorate | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pirimiphos-methyl | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Pyrazophos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Ronnel | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbufos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tetrachlorvinphos | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Tokuthion | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Trichloronate | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Ametryn | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atraton | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Atrazine | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometon | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Prometryn | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Propazine | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simazine | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Simetryn | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutylazine | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Terbutryne | S18-De08410 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Carbamate Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Aldicarb | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Bendiocarb | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Carbaryl | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Carbofuran | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Methomyl | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Oxamyl | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Thiobencarb | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Synthetic Pyrethroids* | | | | Result 1 | Result 2 | RPD | | |
| Allethrin* | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Cyfluthrin* | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Cypermethrin (total)* | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Fenvalerate* | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Permethrin | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Phenothrin* | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Resmethrin* | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Tetramethrin* | S18-De08411 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|--------------|-------------|----|-------|----------|----------|-----|-----|------|
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18-De08418 | CP | mg/kg | 1000 | 1100 | 4.0 | 30% | Pass |
| Cadmium | S18-De08418 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S18-De08418 | CP | mg/kg | 16 | 16 | <1 | 30% | Pass |
| Copper | S18-De08418 | CP | mg/kg | 49 | 47 | 5.0 | 30% | Pass |
| Lead | S18-De08418 | CP | mg/kg | 22 | 23 | 2.0 | 30% | Pass |
| Mercury | S18-De08418 | CP | mg/kg | 0.3 | 0.3 | 14 | 30% | Pass |
| Nickel | S18-De08418 | CP | mg/kg | 13 | 13 | 1.0 | 30% | Pass |
| Zinc | S18-De08418 | CP | mg/kg | 190 | 190 | 3.0 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18-De08419 | CP | mg/kg | 120 | 120 | 3.0 | 30% | Pass |
| Cadmium | S18-De08419 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | S18-De08419 | CP | mg/kg | 9.4 | 9.9 | 6.0 | 30% | Pass |
| Copper | S18-De08419 | CP | mg/kg | 42 | 45 | 6.0 | 30% | Pass |
| Lead | S18-De08419 | CP | mg/kg | 10 | 11 | 5.0 | 30% | Pass |
| Mercury | S18-De08419 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Nickel | S18-De08419 | CP | mg/kg | 15 | 16 | 6.0 | 30% | Pass |
| Zinc | S18-De08419 | CP | mg/kg | 77 | 81 | 5.0 | 30% | Pass |

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

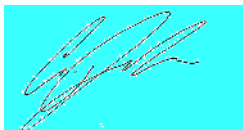
| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime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

Qualifier Codes/Comments

| Code | Description |
|------|--|
| Q08 | The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference |

Authorised By

| | |
|----------------|------------------------------|
| Andrew Black | Analytical Services Manager |
| Chris Bennett | Senior Analyst-Metal (VIC) |
| Joseph Edouard | Senior Analyst-Organic (VIC) |



Glenn Jackson General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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

SLR Consulting
2 Lincoln St
Lane Cove West
NSW 2066



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Junaidi Ibrahim

Report **631838-W**
Project name PROTEN TAMWORTH SCA
Project ID 610.18456.00100
Received Date Dec 07, 2018

| Client Sample ID | | | R01 Water | R02 Water |
|-------------------------------------|--------|------|--------------|--------------|
| Sample Matrix | | | S18-De08426 | S18-De08427 |
| Eurofins mgt Sample No. | | | Dec 06, 2018 | Dec 06, 2018 |
| Date Sampled | | | | |
| Test/Reference | LOR | Unit | | |
| Organochlorine Pesticides | | | | |
| Chlordanes - Total | 0.001 | mg/L | - | < 0.001 |
| 4.4'-DDD | 0.0001 | mg/L | - | < 0.0001 |
| 4.4'-DDE | 0.0001 | mg/L | - | < 0.0001 |
| 4.4'-DDT | 0.0001 | mg/L | - | < 0.0001 |
| a-BHC | 0.0001 | mg/L | - | < 0.0001 |
| Aldrin | 0.0001 | mg/L | - | < 0.0001 |
| b-BHC | 0.0001 | mg/L | - | < 0.0001 |
| d-BHC | 0.0001 | mg/L | - | < 0.0001 |
| Dieldrin | 0.0001 | mg/L | - | < 0.0001 |
| Endosulfan I | 0.0001 | mg/L | - | < 0.0001 |
| Endosulfan II | 0.0001 | mg/L | - | < 0.0001 |
| Endosulfan sulphate | 0.0001 | mg/L | - | < 0.0001 |
| Endrin | 0.0001 | mg/L | - | < 0.0001 |
| Endrin aldehyde | 0.0001 | mg/L | - | < 0.0001 |
| Endrin ketone | 0.0001 | mg/L | - | < 0.0001 |
| g-BHC (Lindane) | 0.0001 | mg/L | - | < 0.0001 |
| Heptachlor | 0.0001 | mg/L | - | < 0.0001 |
| Heptachlor epoxide | 0.0001 | mg/L | - | < 0.0001 |
| Hexachlorobenzene | 0.0001 | mg/L | - | < 0.0001 |
| Methoxychlor | 0.0001 | mg/L | - | < 0.0001 |
| Toxaphene | 0.01 | mg/L | - | < 0.01 |
| Aldrin and Dieldrin (Total)* | 0.0001 | mg/L | - | < 0.0001 |
| DDT + DDE + DDD (Total)* | 0.0001 | mg/L | - | < 0.0001 |
| Vic EPA IWRG 621 OCP (Total)* | 0.001 | mg/L | - | < 0.001 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.001 | mg/L | - | < 0.001 |
| Dibutylchloroendate (surr.) | 1 | % | - | 53 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 91 |
| Organophosphorus Pesticides | | | | |
| Azinphos-methyl | 0.002 | mg/L | - | < 0.002 |
| Bolstar | 0.002 | mg/L | - | < 0.002 |
| Chlorfenvinphos | 0.002 | mg/L | - | < 0.002 |
| Chlorpyrifos | 0.02 | mg/L | - | < 0.02 |
| Chlorpyrifos-methyl | 0.002 | mg/L | - | < 0.002 |
| Coumaphos | 0.02 | mg/L | - | < 0.02 |
| Demeton-S | 0.02 | mg/L | - | < 0.02 |

| Client Sample ID | | | R01 | R02 |
|------------------------------------|-------|------|--------------|--------------|
| Sample Matrix | | | Water | Water |
| Eurofins mgt Sample No. | | | S18-De08426 | S18-De08427 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | |
| Organophosphorus Pesticides | | | | |
| Demeton-O | 0.002 | mg/L | - | < 0.002 |
| Diazinon | 0.002 | mg/L | - | < 0.002 |
| Dichlorvos | 0.002 | mg/L | - | < 0.002 |
| Dimethoate | 0.002 | mg/L | - | < 0.002 |
| Disulfoton | 0.002 | mg/L | - | < 0.002 |
| EPN | 0.002 | mg/L | - | < 0.002 |
| Ethion | 0.002 | mg/L | - | < 0.002 |
| Ethoprop | 0.002 | mg/L | - | < 0.002 |
| Ethyl parathion | 0.002 | mg/L | - | < 0.002 |
| Fenitrothion | 0.002 | mg/L | - | < 0.002 |
| Fensulfothion | 0.002 | mg/L | - | < 0.002 |
| Fenthion | 0.002 | mg/L | - | < 0.002 |
| Malathion | 0.002 | mg/L | - | < 0.002 |
| Merphos | 0.002 | mg/L | - | < 0.002 |
| Methyl parathion | 0.002 | mg/L | - | < 0.002 |
| Mevinphos | 0.002 | mg/L | - | < 0.002 |
| Monocrotophos | 0.002 | mg/L | - | < 0.002 |
| Naled | 0.002 | mg/L | - | < 0.002 |
| Omethoate | 0.002 | mg/L | - | < 0.002 |
| Phorate | 0.002 | mg/L | - | < 0.002 |
| Pirimiphos-methyl | 0.02 | mg/L | - | < 0.02 |
| Pyrazophos | 0.002 | mg/L | - | < 0.002 |
| Ronnel | 0.002 | mg/L | - | < 0.002 |
| Terbufos | 0.002 | mg/L | - | < 0.002 |
| Tetrachlorvinphos | 0.002 | mg/L | - | < 0.002 |
| Tokuthion | 0.002 | mg/L | - | < 0.002 |
| Trichloronate | 0.002 | mg/L | - | < 0.002 |
| Triphenylphosphate (surr.) | 1 | % | - | 58 |
| Triazines | | | | |
| Ametryn | 0.002 | mg/L | - | < 0.002 |
| Atraton | 0.002 | mg/L | - | < 0.002 |
| Atrazine | 0.002 | mg/L | - | < 0.002 |
| Prometon | 0.002 | mg/L | - | < 0.002 |
| Prometryn | 0.002 | mg/L | - | < 0.002 |
| Propazine | 0.002 | mg/L | - | < 0.002 |
| Simazine | 0.002 | mg/L | - | < 0.002 |
| Simetryn | 0.002 | mg/L | - | < 0.002 |
| Terbutylazine | 0.002 | mg/L | - | < 0.002 |
| Terbutryne | 0.002 | mg/L | - | < 0.002 |
| Carbamate Pesticides | | | | |
| Aldicarb | 0.01 | mg/L | - | < 0.01 |
| Bendiocarb | 0.01 | mg/L | - | < 0.01 |
| Carbaryl | 0.01 | mg/L | - | < 0.01 |
| Carbofuran | 0.01 | mg/L | - | < 0.01 |
| Methomyl | 0.01 | mg/L | - | < 0.01 |
| Oxamyl | 0.01 | mg/L | - | < 0.01 |
| Thiobencarb | 0.01 | mg/L | - | < 0.01 |

| Client Sample ID | | | R01 Water | R02 Water |
|-------------------------------|--------|------|--------------|--------------|
| Sample Matrix | | | S18-De08426 | S18-De08427 |
| Eurofins mgt Sample No. | | | Dec 06, 2018 | Dec 06, 2018 |
| Date Sampled | | | | |
| Test/Reference | LOR | Unit | | |
| Synthetic Pyrethroids* | | | | |
| Allethrin* | 0.2 | mg/L | - | < 0.2 |
| Cyfluthrin* | 0.2 | mg/L | - | < 0.2 |
| Cypermethrin (total)* | 0.2 | mg/L | - | < 0.2 |
| Fenvalerate* | 0.2 | mg/L | - | < 0.2 |
| Permethrin | 0.2 | mg/L | - | < 0.2 |
| Phenothrin* | 0.2 | mg/L | - | < 0.2 |
| Resmethrin* | 0.2 | mg/L | - | < 0.2 |
| Tetramethrin* | 0.2 | mg/L | - | < 0.2 |
| Heavy Metals | | | | |
| Arsenic | 0.001 | mg/L | < 0.001 | - |
| Cadmium | 0.0002 | mg/L | < 0.0002 | - |
| Chromium | 0.001 | mg/L | < 0.001 | - |
| Copper | 0.001 | mg/L | < 0.001 | - |
| Lead | 0.001 | mg/L | < 0.001 | - |
| Mercury | 0.0001 | mg/L | < 0.0001 | - |
| Nickel | 0.001 | mg/L | < 0.001 | - |
| Zinc | 0.005 | mg/L | < 0.005 | - |

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Eurofins mgt Suite B14 | | | |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | Melbourne | Dec 12, 2018 | 7 Day |
| Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | Melbourne | Dec 12, 2018 | 7 Day |
| Triazines - Method: LTM-ORG-2080 | Melbourne | Dec 12, 2018 | 7 Day |
| Carbamate Pesticides - Method: LTM-ORG-2290 Carbamates in waters and soils by HPLC | Melbourne | Dec 18, 2018 | 7 Day |
| Synthetic Pyrethroids* - Method: LTM-ORG-2170 Synthetic Pyrethroids by HPLC-UV | Melbourne | Dec 08, 2018 | 7 Day |
| Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Dec 08, 2018 | 28 Days |

| | | |
|--|----------------------------|--------------------------------------|
| Company Name: SLR Consulting (Sydney) | Order No.: | Received: Dec 7, 2018 2:21 PM |
| Address: 2 Lincoln St Lane Cove West NSW 2066 | Report #: 631838 | Due: Dec 14, 2018 |
| Project Name: PROTEN TAMWORTH SCA | Phone: 02 9428 8100 | Priority: 5 Day |
| Project ID: 610.18456.00100 | Fax: | Contact Name: Junaidi Ibrahim |

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|-----------|--------------|---------------|--------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| External Laboratory | | | | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | | | | |
| 1 | TP01_0.1 | Dec 06, 2018 | | Soil | S18-De08338 | | X | X | X | X | X | X |
| 2 | TP01_0.7 | Dec 06, 2018 | | Soil | S18-De08339 | | X | X | X | X | X | X |
| 3 | TP01_1.2 | Dec 06, 2018 | | Soil | S18-De08340 | | X | X | X | X | X | X |
| 4 | TP16_0.2 | Dec 06, 2018 | | Soil | S18-De08341 | | X | X | X | X | X | X |
| 5 | TP16_0.6 | Dec 06, 2018 | | Soil | S18-De08342 | | X | X | X | X | X | X |
| 6 | TP16_1.1 | Dec 06, 2018 | | Soil | S18-De08343 | | X | X | X | X | X | X |
| 7 | TP02_0.2 | Dec 06, 2018 | | Soil | S18-De08406 | | X | X | X | X | X | X |
| 8 | TP02_0.7 | Dec 06, 2018 | | Soil | S18-De08407 | | X | X | X | X | X | X |
| 9 | TP02_1.2 | Dec 06, 2018 | | Soil | S18-De08408 | | X | X | X | X | X | X |

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NSW 2066
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Report #: 631838
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Received: Dec 7, 2018 2:21 PM
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Priority: 5 Day
Contact Name: Junaidi Ibrahim

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 10 | TP06_0.2 | Dec 06, 2018 | | Soil | S18-De08409 | | X | X | X | X | X | X |
| 11 | TP06_0.6 | Dec 06, 2018 | | Soil | S18-De08410 | | X | X | X | X | X | X |
| 12 | TP06_1.1 | Dec 06, 2018 | | Soil | S18-De08411 | | X | X | X | X | X | X |
| 13 | TP07_0.2 | Dec 06, 2018 | | Soil | S18-De08412 | | X | X | X | X | X | X |
| 14 | TP07_0.6 | Dec 06, 2018 | | Soil | S18-De08413 | | X | X | X | X | X | X |
| 15 | TP07_1.1 | Dec 06, 2018 | | Soil | S18-De08414 | | X | X | X | X | X | X |
| 16 | TP11_0.2 | Dec 06, 2018 | | Soil | S18-De08415 | | X | X | X | X | X | X |
| 17 | TP11_0.6 | Dec 06, 2018 | | Soil | S18-De08416 | | X | X | X | X | X | X |
| 18 | TP11_1.1 | Dec 06, 2018 | | Soil | S18-De08417 | | X | X | X | X | X | X |
| 19 | TP12_0.2 | Dec 06, 2018 | | Soil | S18-De08418 | | X | X | X | X | X | X |
| 20 | TP12_0.6 | Dec 06, 2018 | | Soil | S18-De08419 | | X | X | X | X | X | X |
| 21 | TP12_1.1 | Dec 06, 2018 | | Soil | S18-De08420 | | X | X | X | X | X | X |

Company Name: SLR Consulting (Sydney)
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NSW 2066
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Report #: 631838
Phone: 02 9428 8100
Fax:

Received: Dec 7, 2018 2:21 PM
Due: Dec 14, 2018
Priority: 5 Day
Contact Name: Junaidi Ibrahim

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|-------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 22 | QC1 | Dec 06, 2018 | | Soil | S18-De08421 | | X | X | X | X | X | X |
| 23 | QC3 | Dec 06, 2018 | | Soil | S18-De08422 | | X | X | X | X | X | X |
| 24 | QC4 | Dec 06, 2018 | | Soil | S18-De08423 | | X | X | X | X | X | X |
| 25 | QC5 | Dec 06, 2018 | | Soil | S18-De08424 | | X | X | X | X | X | X |
| 26 | QC7 | Dec 06, 2018 | | Soil | S18-De08425 | | X | X | X | X | X | X |
| 27 | R01 | Dec 06, 2018 | | Water | S18-De08426 | | | | | X | | |
| 28 | R02 | Dec 06, 2018 | | Water | S18-De08427 | | X | X | X | | X | |
| 29 | TP17_0.1 | Dec 06, 2018 | | Soil | S18-De08428 | X | | | | | | |
| 30 | TP17_0.8 | Dec 06, 2018 | | Soil | S18-De08429 | X | | | | | | |
| 31 | TP17_1.2 | Dec 06, 2018 | | Soil | S18-De08430 | X | | | | | | |
| 32 | TP03_0.2 | Dec 06, 2018 | | Soil | S18-De08431 | X | | | | | | |
| 33 | TP03_0.6 | Dec 06, 2018 | | Soil | S18-De08432 | X | | | | | | |

Company Name: SLR Consulting (Sydney)
Address: 2 Lincoln St
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Received: Dec 7, 2018 2:21 PM
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Priority: 5 Day
Contact Name: Junaidi Ibrahim

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 34 | TP03_1.1 | Dec 06, 2018 | | Soil | S18-De08433 | X | | | | | | |
| 35 | TP04_0.2 | Dec 06, 2018 | | Soil | S18-De08434 | X | | | | | | |
| 36 | TP04_0.7 | Dec 06, 2018 | | Soil | S18-De08435 | X | | | | | | |
| 37 | TP04_1.1 | Dec 06, 2018 | | Soil | S18-De08436 | X | | | | | | |
| 38 | TP05_0.2 | Dec 06, 2018 | | Soil | S18-De08437 | X | | | | | | |
| 39 | TP05_0.6 | Dec 06, 2018 | | Soil | S18-De08438 | X | | | | | | |
| 40 | TP05_1.1 | Dec 06, 2018 | | Soil | S18-De08439 | X | | | | | | |
| 41 | TP08_0.1 | Dec 06, 2018 | | Soil | S18-De08440 | X | | | | | | |
| 42 | TP08_0.5 | Dec 06, 2018 | | Soil | S18-De08441 | X | | | | | | |
| 43 | TP08_1.0 | Dec 06, 2018 | | Soil | S18-De08442 | X | | | | | | |
| 44 | TP09_0.1 | Dec 06, 2018 | | Soil | S18-De08443 | X | | | | | | |
| 45 | TP09_0.5 | Dec 06, 2018 | | Soil | S18-De08444 | X | | | | | | |

| | | |
|--|----------------------------|--------------------------------------|
| Company Name: SLR Consulting (Sydney) | Order No.: | Received: Dec 7, 2018 2:21 PM |
| Address: 2 Lincoln St Lane Cove West NSW 2066 | Report #: 631838 | Due: Dec 14, 2018 |
| | Phone: 02 9428 8100 | Priority: 5 Day |
| | Fax: | Contact Name: Junaidi Ibrahim |
| Project Name: PROTEN TAMWORTH SCA | | |
| Project ID: 610.18456.00100 | | |

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 46 | TP09_0.9 | Dec 06, 2018 | | Soil | S18-De08445 | X | | | | | | |
| 47 | TP10_0.1 | Dec 06, 2018 | | Soil | S18-De08446 | X | | | | | | |
| 48 | TP10_0.4 | Dec 06, 2018 | | Soil | S18-De08447 | X | | | | | | |
| 49 | TP10_0.8 | Dec 06, 2018 | | Soil | S18-De08448 | X | | | | | | |
| 50 | TP13_0.2 | Dec 06, 2018 | | Soil | S18-De08449 | X | | | | | | |
| 51 | TP13_0.6 | Dec 06, 2018 | | Soil | S18-De08450 | X | | | | | | |
| 52 | TP13_1.0 | Dec 06, 2018 | | Soil | S18-De08451 | X | | | | | | |
| 53 | TP14_0.2 | Dec 06, 2018 | | Soil | S18-De08452 | X | | | | | | |
| 54 | TP14_0.6 | Dec 06, 2018 | | Soil | S18-De08453 | X | | | | | | |
| 55 | TP14_1.1 | Dec 06, 2018 | | Soil | S18-De08454 | X | | | | | | |
| 56 | TP15_0.2 | Dec 06, 2018 | | Soil | S18-De08455 | X | | | | | | |
| 57 | TP15_0.7 | Dec 06, 2018 | | Soil | S18-De08456 | X | | | | | | |

| | | |
|--|----------------------------|--------------------------------------|
| Company Name: SLR Consulting (Sydney) | Order No.: | Received: Dec 7, 2018 2:21 PM |
| Address: 2 Lincoln St Lane Cove West NSW 2066 | Report #: 631838 | Due: Dec 14, 2018 |
| | Phone: 02 9428 8100 | Priority: 5 Day |
| | Fax: | Contact Name: Junaidi Ibrahim |
| Project Name: PROTEN TAMWORTH SCA | | |
| Project ID: 610.18456.00100 | | |

Eurofins | mgt Analytical Services Manager : Andrew Black

| Sample Detail | | | | | | HOLD | Triazines | Carbanate Pesticides | Synthetic Pyrethroids* | Metals M8 | Eurofins mgt Suite B14 | Moisture Set |
|--|-----------|--------------|--|------|-------------|------|-----------|----------------------|------------------------|-----------|--------------------------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 58 | TP15_1.2 | Dec 06, 2018 | | Soil | S18-De08457 | X | | | | | | |
| 59 | TS | Dec 06, 2018 | | Soil | S18-De08522 | X | | | | | | |
| 60 | TB | Dec 06, 2018 | | Soil | S18-De08523 | X | | | | | | |
| 61 | LAB SPIKE | Dec 06, 2018 | | Soil | S18-De08524 | X | | | | | | |
| Test Counts | | | | | | 33 | 27 | 27 | 27 | 27 | 27 | 26 |

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | Quality Systems Manual ver 5.1 US Department of Defense |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPaA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Method Blank | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | mg/L | < 0.001 | | | 0.001 | Pass | |
| 4.4'-DDD | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| 4.4'-DDE | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| 4.4'-DDT | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| a-BHC | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Aldrin | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| b-BHC | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| d-BHC | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Dieldrin | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endosulfan I | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endosulfan II | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endosulfan sulphate | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endrin | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endrin aldehyde | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Endrin ketone | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| g-BHC (Lindane) | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Heptachlor | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Heptachlor epoxide | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Hexachlorobenzene | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Methoxychlor | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Toxaphene | mg/L | < 0.01 | | | 0.01 | Pass | |
| Method Blank | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Azinphos-methyl | mg/L | < 0.002 | | | 0.002 | Pass | |
| Bolstar | mg/L | < 0.002 | | | 0.002 | Pass | |
| Chlorfenvinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Chlorpyrifos | mg/L | < 0.02 | | | 0.02 | Pass | |
| Chlorpyrifos-methyl | mg/L | < 0.002 | | | 0.002 | Pass | |
| Coumaphos | mg/L | < 0.02 | | | 0.02 | Pass | |
| Demeton-S | mg/L | < 0.02 | | | 0.02 | Pass | |
| Demeton-O | mg/L | < 0.002 | | | 0.002 | Pass | |
| Diazinon | mg/L | < 0.002 | | | 0.002 | Pass | |
| Dichlorvos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Dimethoate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Disulfoton | mg/L | < 0.002 | | | 0.002 | Pass | |
| EPN | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethoprop | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ethyl parathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fenitrothion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fensulfothion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Fenthion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Malathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Merphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Methyl parathion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Mevinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Monocrotophos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Naled | mg/L | < 0.002 | | | 0.002 | Pass | |
| Omethoate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Phorate | mg/L | < 0.002 | | | 0.002 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Pirimiphos-methyl | mg/L | < 0.02 | | | 0.02 | Pass | |
| Pyrazophos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Ronnel | mg/L | < 0.002 | | | 0.002 | Pass | |
| Terbufos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Tetrachlorvinphos | mg/L | < 0.002 | | | 0.002 | Pass | |
| Tokuthion | mg/L | < 0.002 | | | 0.002 | Pass | |
| Trichloronate | mg/L | < 0.002 | | | 0.002 | Pass | |
| Method Blank | | | | | | | |
| Triazines | | | | | | | |
| Ametryn | mg/L | < 0.002 | | | 0.002 | Pass | |
| Atraton | mg/L | < 0.002 | | | 0.002 | Pass | |
| Atrazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Prometon | mg/L | < 0.002 | | | 0.002 | Pass | |
| Prometryn | mg/L | < 0.002 | | | 0.002 | Pass | |
| Propazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Simazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Simetryn | mg/L | < 0.002 | | | 0.002 | Pass | |
| Terbutylazine | mg/L | < 0.002 | | | 0.002 | Pass | |
| Terbutryne | mg/L | < 0.002 | | | 0.002 | Pass | |
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | mg/L | < 0.001 | | | 0.001 | Pass | |
| Cadmium | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Chromium | mg/L | < 0.001 | | | 0.001 | Pass | |
| Copper | mg/L | < 0.001 | | | 0.001 | Pass | |
| Lead | mg/L | < 0.001 | | | 0.001 | Pass | |
| Mercury | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Nickel | mg/L | < 0.001 | | | 0.001 | Pass | |
| Zinc | mg/L | < 0.005 | | | 0.005 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes - Total | % | 90 | | | 70-130 | Pass | |
| 4,4'-DDD | % | 91 | | | 70-130 | Pass | |
| 4,4'-DDE | % | 113 | | | 70-130 | Pass | |
| 4,4'-DDT | % | 93 | | | 70-130 | Pass | |
| a-BHC | % | 101 | | | 70-130 | Pass | |
| Aldrin | % | 104 | | | 70-130 | Pass | |
| b-BHC | % | 104 | | | 70-130 | Pass | |
| d-BHC | % | 108 | | | 70-130 | Pass | |
| Dieldrin | % | 95 | | | 70-130 | Pass | |
| Endosulfan I | % | 98 | | | 70-130 | Pass | |
| Endosulfan II | % | 89 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 71 | | | 70-130 | Pass | |
| Endrin | % | 83 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 77 | | | 70-130 | Pass | |
| Endrin ketone | % | 72 | | | 70-130 | Pass | |
| g-BHC (Lindane) | % | 106 | | | 70-130 | Pass | |
| Heptachlor | % | 84 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 89 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 112 | | | 70-130 | Pass | |
| Methoxychlor | % | 77 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Diazinon | % | 84 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Dimethoate | | | % | 73 | | | 70-130 | Pass | |
| Ethion | | | % | 109 | | | 70-130 | Pass | |
| Fenitrothion | | | % | 94 | | | 70-130 | Pass | |
| Methyl parathion | | | % | 94 | | | 70-130 | Pass | |
| Mevinphos | | | % | 83 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Triazines | | | | | | | | | |
| Prometryn | | | % | 113 | | | 75-125 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Arsenic | | | % | 87 | | | 80-120 | Pass | |
| Cadmium | | | % | 83 | | | 80-120 | Pass | |
| Chromium | | | % | 85 | | | 80-120 | Pass | |
| Copper | | | % | 87 | | | 80-120 | Pass | |
| Lead | | | % | 86 | | | 80-120 | Pass | |
| Mercury | | | % | 102 | | | 75-125 | Pass | |
| Nickel | | | % | 87 | | | 80-120 | Pass | |
| Zinc | | | % | 88 | | | 80-120 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| | | | | Result 1 | | | | | |
| Arsenic | M18-De10416 | NCP | % | 89 | | | 75-125 | Pass | |
| Cadmium | M18-De10416 | NCP | % | 94 | | | 75-125 | Pass | |
| Chromium | M18-De10416 | NCP | % | 93 | | | 75-125 | Pass | |
| Copper | M18-De10416 | NCP | % | 92 | | | 75-125 | Pass | |
| Lead | M18-De10416 | NCP | % | 94 | | | 75-125 | Pass | |
| Mercury | M18-De10416 | NCP | % | 92 | | | 70-130 | Pass | |
| Nickel | M18-De10416 | NCP | % | 92 | | | 75-125 | Pass | |
| Zinc | M18-De10416 | NCP | % | 94 | | | 75-125 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | M18-De10416 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Cadmium | M18-De10416 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Chromium | M18-De10416 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Copper | M18-De10416 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Lead | M18-De10416 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Mercury | M18-De10416 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Nickel | M18-De10416 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Zinc | M18-De10416 | NCP | mg/L | 0.028 | 0.030 | 5.0 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| Organochlorine Pesticides | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S18-De04616 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| 4.4'-DDD | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| 4.4'-DDE | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| 4.4'-DDT | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| a-BHC | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Aldrin | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| b-BHC | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| d-BHC | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Dieldrin | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endosulfan I | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Endosulfan II | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|-----|------|----------|----------|-----|-----|------|
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Endosulfan sulphate | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Endrin | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Endrin aldehyde | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Endrin ketone | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| g-BHC (Lindane) | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Heptachlor | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Heptachlor epoxide | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Hexachlorobenzene | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Methoxychlor | S18-De04616 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Azinphos-methyl | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Bolstar | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Chlorfenvinphos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Chlorpyrifos | B18-De12402 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass |
| Chlorpyrifos-methyl | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Coumaphos | B18-De12402 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass |
| Demeton-S | B18-De12402 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass |
| Demeton-O | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Diazinon | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Dichlorvos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Dimethoate | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Disulfoton | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| EPN | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Ethion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Ethoprop | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Ethyl parathion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Fenitrothion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Fensulfthion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Fenthion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Malathion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Merphos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Methyl parathion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Mevinphos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Monocrotophos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Naled | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Omethoate | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Phorate | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Pirimiphos-methyl | B18-De12402 | NCP | mg/L | < 0.02 | < 0.02 | <1 | 30% | Pass |
| Pyrazophos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Ronnel | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Terbufos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Tetrachlorvinphos | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Tokuthion | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Trichloronate | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Ametryn | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Atraton | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Atrazine | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Prometon | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Prometryn | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Propazine | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Simazine | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|---------------|-------------|-----|------|----------|----------|-----|-----|------|
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Simetryn | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Terbutylazine | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |
| Terbutryne | B18-De12402 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass |

Comments

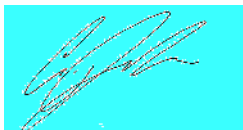
Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

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

Authorised By

| | |
|----------------|------------------------------|
| Andrew Black | Analytical Services Manager |
| Chris Bennett | Senior Analyst-Metal (VIC) |
| Joseph Edouard | Senior Analyst-Organic (VIC) |



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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

SLR Consulting
2 Lincoln St
Lane Cove West
NSW 2066



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Ben Dewhurst

Report 633738-S
Project name PROTEN TAMWORTH SCA
Project ID 610.18456.00100
Received Date Dec 19, 2018

| Client Sample ID | | | TP03_0.2 | TP03_0.6 | TP03_1.1 | TP08_0.1 |
|---------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | M18-De25159 | M18-De25160 | M18-De25161 | M18-De25162 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 290 | 17 | 17 | 130 |
| % Moisture | 1 | % | 14 | 12 | 8.5 | 16 |

| Client Sample ID | | | TP08_0.5 | TP08_1.0 | TP13_0.2 | TP13_0.6 |
|---------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | M18-De25163 | M18-De25164 | M18-De25165 | M18-De25166 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 30 | 13 | 790 | 100 |
| % Moisture | 1 | % | 9.2 | 9.7 | 16 | 7.8 |

| Client Sample ID | | | TP13_1.0 | TP17_0.1 | TP17_0.8 | TP17_1.2 |
|---------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | M18-De25167 | M18-De25168 | M18-De25169 | M18-De25170 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 130 | 570 | 35 | 15 |
| % Moisture | 1 | % | 7.8 | 12 | 7.7 | 7.3 |

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Dec 19, 2018 | 180 Day |
| % Moisture - Method: LTM-GEN-7080 Moisture | Melbourne | Dec 19, 2018 | 14 Day |

| | | |
|--|---|---|
| Company Name: SLR Consulting (Sydney) Address: 2 Lincoln St Lane Cove West NSW 2066 Project Name: PROTEN TAMWORTH SCA Project ID: 610.18456.00100 | Order No.: Report #: 633738 Phone: 02 9428 8100 Fax: | Received: Dec 19, 2018 10:43 AM Due: Dec 21, 2018 Priority: 2 Day Contact Name: Ben Dewhurst |
| Eurofins mgt Analytical Services Manager : Andrew Black | | |

| Sample Detail | | | | | | Arsenic | Moisture Set |
|---|-----------|--------------|---------------|--------|-------------|---------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | |
| External Laboratory | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | |
| 1 | TP03_0.2 | Dec 06, 2018 | | Soil | M18-De25159 | X | X |
| 2 | TP03_0.6 | Dec 06, 2018 | | Soil | M18-De25160 | X | X |
| 3 | TP03_1.1 | Dec 06, 2018 | | Soil | M18-De25161 | X | X |
| 4 | TP08_0.1 | Dec 06, 2018 | | Soil | M18-De25162 | X | X |
| 5 | TP08_0.5 | Dec 06, 2018 | | Soil | M18-De25163 | X | X |
| 6 | TP08_1.0 | Dec 06, 2018 | | Soil | M18-De25164 | X | X |
| 7 | TP13_0.2 | Dec 06, 2018 | | Soil | M18-De25165 | X | X |
| 8 | TP13_0.6 | Dec 06, 2018 | | Soil | M18-De25166 | X | X |
| 9 | TP13_1.0 | Dec 06, 2018 | | Soil | M18-De25167 | X | X |

| | | |
|--|---|---|
| Company Name: SLR Consulting (Sydney) Address: 2 Lincoln St Lane Cove West NSW 2066 Project Name: PROTEN TAMWORTH SCA Project ID: 610.18456.00100 | Order No.: Report #: 633738 Phone: 02 9428 8100 Fax: | Received: Dec 19, 2018 10:43 AM Due: Dec 21, 2018 Priority: 2 Day Contact Name: Ben Dewhurst |
| Eurofins mgt Analytical Services Manager : Andrew Black | | |

| Sample Detail | | | | | | Arsenic | Moisture Set |
|--|----------|--------------|--|------|-------------|---------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | |
| 10 | TP17_0.1 | Dec 06, 2018 | | Soil | M18-De25168 | X | X |
| 11 | TP17_0.8 | Dec 06, 2018 | | Soil | M18-De25169 | X | X |
| 12 | TP17_1.2 | Dec 06, 2018 | | Soil | M18-De25170 | X | X |
| Test Counts | | | | | | 12 | 12 |

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

| | | |
|---|---|---|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | ug/L: micrograms per litre |
| ppm: Parts per million | ppb: Parts per billion | %: Percentage |
| org/100mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100mL: Most Probable Number of organisms per 100 millilitres |

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | Quality Systems Manual ver 5.1 US Department of Defense |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | |
|---------------------------|---------------|-----------|-------|-------------|----------|-------|-------------------|-------------------|-----------------|-----------------|------|
| Method Blank | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | mg/kg | < 2 | | | 2 | Pass | | |
| LCS - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | % | 93 | | | 80-120 | Pass | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Spike - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M18-De25162 | CP | % | 94 | | 75-125 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Duplicate | | | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | | | |
| % Moisture | M18-De25159 | CP | % | 14 | 13 | 4.0 | 30% | Pass | | | |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M18-De25161 | CP | mg/kg | 17 | 17 | 4.0 | 30% | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M18-De25162 | CP | mg/kg | 130 | 130 | 2.0 | 30% | Pass |
| Duplicate | | | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | | | |
| % Moisture | M18-De25169 | CP | % | 7.7 | 7.3 | 5.0 | 30% | Pass | | | |

Comments

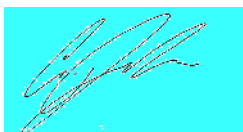
Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

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

Authorised By

Andrew Black Analytical Services Manager
Chris Bennett Senior Analyst-Metal (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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SLR Consulting
2 Lincoln St
Lane Cove West
NSW 2066



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Ben Dewhurst

Report 634417-S
Project name PROTEN TAMWORTH SCA
Project ID 610.18456.00100
Received Date Dec 21, 2018

| Client Sample ID | | | TP04_0.2 | TP04_0.7 | TP04_1.1 | TP09_0.1 |
|---------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | M18-De30955 | M18-De30956 | M18-De30957 | M18-De30958 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 140 | 20 | 3.6 | 39 |
| % Moisture | 1 | % | 14 | 12 | 5.6 | 16 |

| Client Sample ID | | | TP09_0.5 | TP09_0.9 | TP14_0.2 | TP14_0.6 |
|---------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | M18-De30959 | M18-De30960 | M18-De30961 | M18-De30962 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 7.2 | 2.3 | 490 | 140 |
| % Moisture | 1 | % | 8.8 | 6.1 | 13 | 6.2 |

| Client Sample ID | | | TP14_1.1 |
|---------------------------|-----|-------|--------------|
| Sample Matrix | | | Soil |
| Eurofins mgt Sample No. | | | M18-De30963 |
| Date Sampled | | | Dec 06, 2018 |
| Test/Reference | LOR | Unit | |
| Heavy Metals | | | |
| Arsenic | 2 | mg/kg | 21 |
| % Moisture | 1 | % | 6.7 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Dec 27, 2018 | 180 Day |
| % Moisture - Method: LTM-GEN-7080 Moisture | Melbourne | Dec 27, 2018 | 14 Day |

| | | |
|--|---|--|
| Company Name: SLR Consulting (Sydney) Address: 2 Lincoln St Lane Cove West NSW 2066 Project Name: PROTEN TAMWORTH SCA Project ID: 610.18456.00100 | Order No.: Report #: 634417 Phone: 02 9428 8100 Fax: | Received: Dec 21, 2018 11:45 AM Due: Jan 2, 2019 Priority: 3 Day Contact Name: Ben Dewhurst |
| Eurofins mgt Analytical Services Manager : Andrew Black | | |

| Sample Detail | | | | | | Arsenic | Moisture Set |
|---|-----------|--------------|---------------|--------|-------------|---------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | |
| External Laboratory | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | |
| 1 | TP04_0.2 | Dec 06, 2018 | | Soil | M18-De30955 | X | X |
| 2 | TP04_0.7 | Dec 06, 2018 | | Soil | M18-De30956 | X | X |
| 3 | TP04_1.1 | Dec 06, 2018 | | Soil | M18-De30957 | X | X |
| 4 | TP09_0.1 | Dec 06, 2018 | | Soil | M18-De30958 | X | X |
| 5 | TP09_0.5 | Dec 06, 2018 | | Soil | M18-De30959 | X | X |
| 6 | TP09_0.9 | Dec 06, 2018 | | Soil | M18-De30960 | X | X |
| 7 | TP14_0.2 | Dec 06, 2018 | | Soil | M18-De30961 | X | X |
| 8 | TP14_0.6 | Dec 06, 2018 | | Soil | M18-De30962 | X | X |
| 9 | TP14_1.1 | Dec 06, 2018 | | Soil | M18-De30963 | X | X |

| | | |
|--|---|--|
| Company Name: SLR Consulting (Sydney) Address: 2 Lincoln St Lane Cove West NSW 2066 Project Name: PROTEN TAMWORTH SCA Project ID: 610.18456.00100 | Order No.: Report #: 634417 Phone: 02 9428 8100 Fax: | Received: Dec 21, 2018 11:45 AM Due: Jan 2, 2019 Priority: 3 Day Contact Name: Ben Dewhurst |
| Eurofins mgt Analytical Services Manager : Andrew Black | | |

| Sample Detail | Arsenic | Moisture Set |
|---|---------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | X | X |
| Sydney Laboratory - NATA Site # 18217 | | |
| Brisbane Laboratory - NATA Site # 20794 | | |
| Perth Laboratory - NATA Site # 23736 | | |
| Test Counts | 9 | 9 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

| | | |
|---|---|---|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | ug/L: micrograms per litre |
| ppm: Parts per million | ppb: Parts per billion | %: Percentage |
| org/100mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100mL: Most Probable Number of organisms per 100 millilitres |

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | Quality Systems Manual ver 5.1 US Department of Defense |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | |
|---------------------------|---------------|-----------|-------|-------------|----------|-------|-------------------|-------------------|-----------------|-----------------|------|
| Method Blank | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | mg/kg | < 2 | | | 2 | Pass | | |
| LCS - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | % | 114 | | | 80-120 | Pass | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Spike - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M18-De30959 | CP | % | 133 | | 75-125 | Fail | Q08 |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Duplicate | | | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | | | |
| % Moisture | | | | M18-De30957 | CP | % | 5.6 | 6.2 | 10 | 30% | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M18-De30958 | CP | mg/kg | 39 | 40 | 3.0 | 30% | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M18-De30959 | CP | mg/kg | 7.2 | 7.8 | 8.0 | 30% | Pass |

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

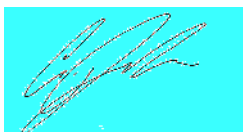
| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime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

Qualifier Codes/Comments

| Code | Description |
|------|--|
| Q08 | The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference |

Authorised By

| | |
|---------------|-----------------------------|
| Andrew Black | Analytical Services Manager |
| Chris Bennett | Senior Analyst-Metal (VIC) |



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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

SLR Consulting
2 Lincoln St
Lane Cove West
NSW 2066



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Ben Dewhurst

Report 634849-S
Project name PROTEN TAMWORTH SCA
Project ID 610.18456.00100
Received Date Jan 07, 2019

| Client Sample ID | | | TP05_0.2 | TP05_0.6 | TP05_1.1 | TP15_0.2 |
|---------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | M19-Ja01585 | M19-Ja01586 | M19-Ja01587 | M19-Ja01588 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 62 | 6.3 | 5.0 | 190 |
| % Moisture | 1 | % | 15 | 9.0 | 6.9 | 11 |

| Client Sample ID | | | TP15_0.7 | TP15_1.2 |
|---------------------------|-----|-------|--------------|--------------|
| Sample Matrix | | | Soil | Soil |
| Eurofins mgt Sample No. | | | M19-Ja01589 | M19-Ja01590 |
| Date Sampled | | | Dec 06, 2018 | Dec 06, 2018 |
| Test/Reference | LOR | Unit | | |
| Heavy Metals | | | | |
| Arsenic | 2 | mg/kg | 19 | 19 |
| % Moisture | 1 | % | 8.3 | 7.9 |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Jan 08, 2019 | 180 Day |
| % Moisture - Method: LTM-GEN-7080 Moisture | Melbourne | Jan 07, 2019 | 14 Day |

| | | |
|--|---|---|
| Company Name: SLR Consulting (Sydney) Address: 2 Lincoln St Lane Cove West NSW 2066 Project Name: PROTEN TAMWORTH SCA Project ID: 610.18456.00100 | Order No.: Report #: 634849 Phone: 02 9428 8100 Fax: | Received: Jan 7, 2019 9:54 AM Due: Jan 10, 2019 Priority: 3 Day Contact Name: Ben Dewhurst |
| Eurofins mgt Analytical Services Manager : Andrew Black | | |

| Sample Detail | | | | | | Arsenic | Moisture Set |
|---|-----------|--------------|---------------|--------|-------------|---------|--------------|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | |
| External Laboratory | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | |
| 1 | TP05_0.2 | Dec 06, 2018 | | Soil | M19-Ja01585 | X | X |
| 2 | TP05_0.6 | Dec 06, 2018 | | Soil | M19-Ja01586 | X | X |
| 3 | TP05_1.1 | Dec 06, 2018 | | Soil | M19-Ja01587 | X | X |
| 4 | TP15_0.2 | Dec 06, 2018 | | Soil | M19-Ja01588 | X | X |
| 5 | TP15_0.7 | Dec 06, 2018 | | Soil | M19-Ja01589 | X | X |
| 6 | TP15_1.2 | Dec 06, 2018 | | Soil | M19-Ja01590 | X | X |
| Test Counts | | | | | | 6 | 6 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

| | | |
|---|---|---|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | ug/L: micrograms per litre |
| ppm: Parts per million | ppb: Parts per billion | %: Percentage |
| org/100mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100mL: Most Probable Number of organisms per 100 millilitres |

Terms

| | |
|-------------------------|--|
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| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | Quality Systems Manual ver 5.1 US Department of Defense |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | |
|---------------------------|---------------|-----------|-------|-------------|----------|-------|-------------------|-------------------|-----------------|-----------------|------|
| Method Blank | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | mg/kg | < 2 | | | 2 | Pass | | |
| LCS - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | % | 100 | | | 80-120 | Pass | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Spike - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M19-Ja01588 | CP | % | 173 | | 75-125 | Fail | Q08 |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Duplicate | | | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | | | |
| % Moisture | | | | M19-Ja01559 | NCP | % | 26 | 27 | <1 | 30% | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M19-Ja01587 | CP | mg/kg | 5.0 | 5.0 | 2.0 | 30% | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Arsenic | | | | M19-Ja01588 | CP | mg/kg | 190 | 200 | 2.0 | 30% | Pass |

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

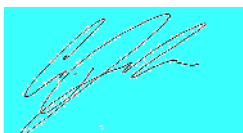
| | |
|---|-----|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | Yes |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime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

Qualifier Codes/Comments

| Code | Description |
|------|--|
| Q08 | The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference |

Authorised By

Andrew Black Analytical Services Manager
 Chris Bennett Senior Analyst-Metal (VIC)



Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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

CERTIFICATE OF ANALYSIS

Work Order : **ES1837035**
Client : **SLR Consulting Australia Pty Ltd**
Contact : JUNAIDI IBRAHIM
Address : PO BOX 176 2/2 LINCOLN ST
 LANECOVE NSW, AUSTRALIA 1595

Telephone : ----
Project : 610.18456.00100 PoTen Tamworth SCA
Order number :
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : EN/333 Secondary work BQ
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 6
Laboratory : Environmental Division Sydney
Contact : Tyler Cachia
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61 2 8784 8555
Date Samples Received : 10-Dec-2018 11:18
Date Analysis Commenced : 21-Dec-2018
Issue Date : 03-Jan-2019 15:42



Accreditation No. 825
 Accredited for compliance with
 ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|---------------------|------------------------------------|
| Alex Rossi | Organic Chemist | Sydney Inorganics, Smithfield, NSW |
| Alex Rossi | Organic Chemist | Sydney Organics, Smithfield, NSW |
| Diana Mesa | 2IC Organic Chemist | Brisbane Organics, Stafford, QLD |
| Ivan Taylor | Analyst | Sydney Inorganics, Smithfield, NSW |



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP094: The LOR for 'QC6' has been raised due to spectral interference.



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | Client sample ID | | | QC2 | QC6 | ---- | ---- | ---- | |
|--|------------|-------------------|-------|---------------|-------------------|-------|-------|-------|------|------|
| Client sampling date / time | | 06-Dec-2018 00:00 | | | 06-Dec-2018 00:00 | | | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | ES1837035-001 | ES1837035-002 | ----- | ----- | ----- | | |
| | | | | Result | Result | ---- | ---- | ---- | | |
| EA055: Moisture Content (Dried @ 105-110°C) | | | | | | | | | | |
| Moisture Content | ---- | 1.0 | % | 19.4 | 13.3 | ---- | ---- | ---- | | |
| EG005T: Total Metals by ICP-AES | | | | | | | | | | |
| Arsenic | 7440-38-2 | 5 | mg/kg | 623 | 354 | ---- | ---- | ---- | | |
| Cadmium | 7440-43-9 | 1 | mg/kg | 2 | <1 | ---- | ---- | ---- | | |
| Chromium | 7440-47-3 | 2 | mg/kg | 11 | 11 | ---- | ---- | ---- | | |
| Copper | 7440-50-8 | 5 | mg/kg | 44 | 43 | ---- | ---- | ---- | | |
| Lead | 7439-92-1 | 5 | mg/kg | 107 | 43 | ---- | ---- | ---- | | |
| Nickel | 7440-02-0 | 2 | mg/kg | 8 | 11 | ---- | ---- | ---- | | |
| Zinc | 7440-66-6 | 5 | mg/kg | 839 | 243 | ---- | ---- | ---- | | |
| EG035T: Total Recoverable Mercury by FIMS | | | | | | | | | | |
| Mercury | 7439-97-6 | 0.1 | mg/kg | 0.8 | 0.3 | ---- | ---- | ---- | | |
| EP068A: Organochlorine Pesticides (OC) | | | | | | | | | | |
| alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| ^ Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| 4,4'-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| ^ Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| 4,4'-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |
| 4,4'-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | <0.2 | ---- | ---- | ---- | | |
| Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | | |



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QC2 | QC6 | ---- | ---- | ---- |
|---|--------------------------|------|-------|-------------------|-------------------|-------|-------|-------|------|
| Client sampling date / time | | | | 06-Dec-2018 00:00 | 06-Dec-2018 00:00 | ---- | ---- | ---- | |
| Compound | CAS Number | LOR | Unit | ES1837035-001 | ES1837035-002 | ----- | ----- | ----- | |
| | | | | Result | Result | ---- | ---- | ---- | |
| EP068A: Organochlorine Pesticides (OC) - Continued | | | | | | | | | |
| Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | <0.2 | ---- | ---- | ---- | |
| ^ Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| ^ Sum of DDD + DDE + DDT | 72-54-8/72-55-9/5 0-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| EP068B: Organophosphorus Pesticides (OP) | | | | | | | | | |
| Dichlorvos | 62-73-7 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Demeton-S-methyl | 919-86-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Monocrotophos | 6923-22-4 | 0.2 | mg/kg | <0.2 | <0.2 | ---- | ---- | ---- | |
| Dimethoate | 60-51-5 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Diazinon | 333-41-5 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Chlorpyrifos-methyl | 5598-13-0 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Parathion-methyl | 298-00-0 | 0.2 | mg/kg | <0.2 | <0.2 | ---- | ---- | ---- | |
| Malathion | 121-75-5 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Fenthion | 55-38-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Chlorpyrifos | 2921-88-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Parathion | 56-38-2 | 0.2 | mg/kg | <0.2 | <0.2 | ---- | ---- | ---- | |
| Pirimphos-ethyl | 23505-41-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Chlorfenvinphos | 470-90-6 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Bromophos-ethyl | 4824-78-6 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Fenamiphos | 22224-92-6 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Prothiofos | 34643-46-4 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Ethion | 563-12-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Carbophenothion | 786-19-6 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Azinphos Methyl | 86-50-0 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| EP094A: Synthetic Pyrethroids | | | | | | | | | |
| Bioresmethrin | 28434-01-07 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Bifenthrin | 82657-04-3 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Phenothrin | 26002-80-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Lambda-cyhalothrin | 68085-85-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Permethrin | 52645-53-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Cyfluthrin | 68359-37-5 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Cypermethrin | 52315-07-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Fenvalerate & Esfenvalerate | 51630-58-1/66230-04- | 0.05 | mg/kg | <0.05 | <0.18 | ---- | ---- | ---- | |



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QC2 | QC6 | ---- | ---- | ---- |
|---|----------------------|------|-------|-------------------|-------------------|-------|-------|-------|------|
| Client sampling date / time | | | | 06-Dec-2018 00:00 | 06-Dec-2018 00:00 | ---- | ---- | ---- | |
| Compound | CAS Number | LOR | Unit | ES1837035-001 | ES1837035-002 | ----- | ----- | ----- | |
| | | | | Result | Result | ---- | ---- | ---- | |
| EP094A: Synthetic Pyrethroids - Continued | | | | | | | | | |
| Deltamethrin & Tralomethrin | 62229-77-0/66841-25- | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Allethrin | 584-79-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Transfluthrin | 118712-89-3 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Tetramethrin | 7696-12-0 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| Tau-fluvalinate | 102851-06-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| EP094B: Synergist | | | | | | | | | |
| Piperonyl Butoxide | 63993-73-7 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- | |
| EP201: Carbamate Pesticides by LCMS | | | | | | | | | |
| Oxamyl | 23135-22-0 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| Methomyl | 16752-77-5 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| 3-Hydroxy Carbofuran | 16655-82-6 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| Aldicarb | 116-06-3 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| Bendiocarb | 22781-23-3 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| Thiodicarb | 59669-26-0 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| Carbofuran | 1563-66-2 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| Carbaryl | 63-25-2 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| Methiocarb | 2032-65-7 | 0.02 | mg/kg | <0.02 | <0.02 | ---- | ---- | ---- | |
| EP068S: Organochlorine Pesticide Surrogate | | | | | | | | | |
| Dibromo-DDE | 21655-73-2 | 0.05 | % | 64.8 | 85.2 | ---- | ---- | ---- | |
| EP068T: Organophosphorus Pesticide Surrogate | | | | | | | | | |
| DEF | 78-48-8 | 0.05 | % | 62.9 | 83.8 | ---- | ---- | ---- | |
| EP094S: Pesticide Surrogate | | | | | | | | | |
| DEF | 78-48-8 | 0.05 | % | 108 | 108 | ---- | ---- | ---- | |
| EP201S: Carbamate Surrogate | | | | | | | | | |
| 4-Bromo-3,5-dimethylphenyl-N-m ethylcarbamate | 672-99-1 | 0.02 | % | 82.5 | 92.1 | ---- | ---- | ---- | |



Surrogate Control Limits

| Sub-Matrix: SOIL | | Recovery Limits (%) | |
|---|------------|---------------------|------|
| Compound | CAS Number | Low | High |
| EP068S: Organochlorine Pesticide Surrogate | | | |
| Dibromo-DDE | 21655-73-2 | 49 | 147 |
| EP068T: Organophosphorus Pesticide Surrogate | | | |
| DEF | 78-48-8 | 35 | 143 |
| EP094S: Pesticide Surrogate | | | |
| DEF | 78-48-8 | 10 | 110 |
| EP201S: Carbamate Surrogate | | | |
| 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate | 672-99-1 | 59 | 137 |

CERTIFICATE OF ANALYSIS

Work Order : **ES1832597**
Client : **SLR Consulting Australia Pty Ltd**
Contact : JUNAIDI IBRAHIM
Address : PO BOX 176 2/2 LINCOLN ST
 LANE COVE NSW, AUSTRALIA 1595

Telephone : ----
Project : 610.18456 DSI ProTen Tamworth
Order number :
C-O-C number : ----
Sampler : Junaidi Ibrahim
Site :
Quote number : EN/032/17
No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 6
Laboratory : Environmental Division Sydney
Contact : Tyler Cachia
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61 2 8784 8555
Date Samples Received : 01-Nov-2018 15:23
Date Analysis Commenced : 05-Nov-2018
Issue Date : 08-Nov-2018 16:30



Accreditation No. 825
 Accredited for compliance with
 ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|-----------------------|------------------------------------|
| Celine Conceicao | Senior Spectroscopist | Sydney Inorganics, Smithfield, NSW |
| Diana Mesa | 2IC Organic Chemist | Brisbane Organics, Stafford, QLD |
| Edwandy Fadjjar | Organic Coordinator | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |
| Franco Lentini | | Sydney Organics, Smithfield, NSW |



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | Client sample ID | | | QC2 | ---- | ---- | ---- | ---- |
|--|------------|-------------------|-------|---------------|-------|-------|-------|-------|------|
| Client sampling date / time | | 30-Oct-2018 00:00 | | | ---- | ---- | ---- | ---- | |
| Compound | CAS Number | LOR | Unit | ES1832597-001 | ----- | ----- | ----- | ----- | |
| | | | | Result | ---- | ---- | ---- | ---- | |
| EA055: Moisture Content (Dried @ 105-110°C) | | | | | | | | | |
| Moisture Content | ---- | 1.0 | % | 16.3 | ---- | ---- | ---- | ---- | |
| EG005T: Total Metals by ICP-AES | | | | | | | | | |
| Arsenic | 7440-38-2 | 5 | mg/kg | 7 | ---- | ---- | ---- | ---- | |
| Cadmium | 7440-43-9 | 1 | mg/kg | <1 | ---- | ---- | ---- | ---- | |
| Chromium | 7440-47-3 | 2 | mg/kg | 17 | ---- | ---- | ---- | ---- | |
| Copper | 7440-50-8 | 5 | mg/kg | 48 | ---- | ---- | ---- | ---- | |
| Lead | 7439-92-1 | 5 | mg/kg | 13 | ---- | ---- | ---- | ---- | |
| Nickel | 7440-02-0 | 2 | mg/kg | 16 | ---- | ---- | ---- | ---- | |
| Zinc | 7440-66-6 | 5 | mg/kg | 63 | ---- | ---- | ---- | ---- | |
| EG035T: Total Recoverable Mercury by FIMS | | | | | | | | | |
| Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | ---- | ---- | ---- | ---- | |
| EP068A: Organochlorine Pesticides (OC) | | | | | | | | | |
| alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| ^ Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| 4,4'-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| ^ Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| 4,4'-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |
| 4,4'-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | ---- | ---- | ---- | ---- | |
| Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | |



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QC2 | ---- | ---- | ---- | ---- |
|---|--------------------------|------|-------|-------------------|-------|-------|-------|-------|-------|
| Client sampling date / time | | | | 30-Oct-2018 00:00 | ---- | ---- | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | ES1832597-001 | ----- | ----- | ----- | ----- | ----- |
| | | | | Result | ---- | ---- | ---- | ---- | ---- |
| EP068A: Organochlorine Pesticides (OC) - Continued | | | | | | | | | |
| Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | ---- | ---- | ---- | ---- | ---- |
| ^ Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| ^ Sum of DDD + DDE + DDT | 72-54-8/72-55-9/5 0-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| EP068B: Organophosphorus Pesticides (OP) | | | | | | | | | |
| Dichlorvos | 62-73-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Demeton-S-methyl | 919-86-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Monocrotophos | 6923-22-4 | 0.2 | mg/kg | <0.2 | ---- | ---- | ---- | ---- | ---- |
| Dimethoate | 60-51-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Diazinon | 333-41-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Chlorpyrifos-methyl | 5598-13-0 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Parathion-methyl | 298-00-0 | 0.2 | mg/kg | <0.2 | ---- | ---- | ---- | ---- | ---- |
| Malathion | 121-75-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Fenthion | 55-38-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Chlorpyrifos | 2921-88-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Parathion | 56-38-2 | 0.2 | mg/kg | <0.2 | ---- | ---- | ---- | ---- | ---- |
| Pirimphos-ethyl | 23505-41-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Chlorfenvinphos | 470-90-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Bromophos-ethyl | 4824-78-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Fenamiphos | 22224-92-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Prothiofos | 34643-46-4 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Ethion | 563-12-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Carbophenothion | 786-19-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Azinphos Methyl | 86-50-0 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| EP068C: Triazines | | | | | | | | | |
| Atrazine | 1912-24-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Simazine | 122-34-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| EP094A: Synthetic Pyrethroids | | | | | | | | | |
| Bioresmethrin | 28434-01-07 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Bifenthrin | 82657-04-3 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Phenothrin | 26002-80-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Lambda-cyhalothrin | 68085-85-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Permethrin | 52645-53-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Cyfluthrin | 68359-37-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QC2 | ---- | ---- | ---- | ---- |
|---|---------------------|------|-------|-------------------|-------|-------|-------|-------|-------|
| Client sampling date / time | | | | 30-Oct-2018 00:00 | ---- | ---- | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | ES1832597-001 | ----- | ----- | ----- | ----- | ----- |
| | | | | Result | ---- | ---- | ---- | ---- | ---- |
| EP094A: Synthetic Pyrethroids - Continued | | | | | | | | | |
| Cypermethrin | 52315-07-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Fenvalerate & Esfenvalerate | 51630-58-1/66230-04 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Deltamethrin & Tralomethrin | 62229-77-0/66841-25 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Allethrin | 584-79-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Transfluthrin | 118712-89-3 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Tetramethrin | 7696-12-0 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| Tau-fluvalinate | 102851-06-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| EP094B: Synergist | | | | | | | | | |
| Piperonyl Butoxide | 63993-73-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- | ---- |
| EP201: Carbamate Pesticides by LCMS | | | | | | | | | |
| Oxamyl | 23135-22-0 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| Methomyl | 16752-77-5 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| 3-Hydroxy Carbofuran | 16655-82-6 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| Aldicarb | 116-06-3 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| Bendiocarb | 22781-23-3 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| Thiodicarb | 59669-26-0 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| Carbofuran | 1563-66-2 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| Carbaryl | 63-25-2 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| Methiocarb | 2032-65-7 | 0.02 | mg/kg | <0.02 | ---- | ---- | ---- | ---- | ---- |
| EP068S: Organochlorine Pesticide Surrogate | | | | | | | | | |
| Dibromo-DDE | 21655-73-2 | 0.05 | % | 71.6 | ---- | ---- | ---- | ---- | ---- |
| EP068T: Organophosphorus Pesticide Surrogate | | | | | | | | | |
| DEF | 78-48-8 | 0.05 | % | 74.8 | ---- | ---- | ---- | ---- | ---- |
| EP094S: Pesticide Surrogate | | | | | | | | | |
| DEF | 78-48-8 | 0.05 | % | 117 | ---- | ---- | ---- | ---- | ---- |
| EP201S: Carbamate Surrogate | | | | | | | | | |
| 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate | 672-99-1 | 0.02 | % | 102 | ---- | ---- | ---- | ---- | ---- |



Surrogate Control Limits

| Sub-Matrix: SOIL | | Recovery Limits (%) | |
|---|------------|---------------------|------|
| Compound | CAS Number | Low | High |
| EP068S: Organochlorine Pesticide Surrogate | | | |
| Dibromo-DDE | 21655-73-2 | 49 | 147 |
| EP068T: Organophosphorus Pesticide Surrogate | | | |
| DEF | 78-48-8 | 35 | 143 |
| EP094S: Pesticide Surrogate | | | |
| DEF | 78-48-8 | 10 | 110 |
| EP201S: Carbamate Surrogate | | | |
| 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate | 672-99-1 | 59 | 137 |

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