Environmental

 Assessments - Lot 2 DP1232259, Lot 200 DP124996 & Lot 124 DP 755557 South Arm Road, Urunga



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# **1** Introduction

Earth Water Consulting Pty Limited (EWC) was engaged by Barnson (the "Client") to undertake a preliminary Environmental Site Assessment (PESA), a Preliminary Acid Sulfate Soil (PASS) assessment and Wastewater Capability Assessment (WCA) for Lot 2 DP1232259, Lot 200 DP124996 & Lot 124 DP 755557 6 South Arm Road, Urunga (the "Site") (Figure 1).

### 1.1 Objectives

Purpose of the environmental investigations were to provide sufficient preliminary information to support a planning proposal.

The objectives of the PESA were to:

- Investigate the site history and identify potentially contaminating activities that are currently being performed on the Site or that may have been performed on the Site in the past; and
- Make a preliminary assessment of potential contamination issues for residential development based on the Site history review.

The objective of the PASS investigation was to assess the risk of ASS being present that could be affected by the proposed development.

The objective of the WCA is to provide confirmation of a 1ha minimum lot size would be sustainable for effluent land application.

#### **1.2 Suitability to Undertake Works**

Strider Duerinckx has project managed and signs off on this investigation. Strider is an environmental geologist with 25 years experience in contaminated sites investigations including numerous banana plantation assessments. Strider is a CEnvP (Site Contamination Specialist) accredited.



# **2** Proposed Development

It is understood that the Planning Proposal will be submitted that seeks to rezone the land (in portion) to be either R5 – Large Lot Residential or C2 Environmental Conservation, whilst reducing the minimum allotment size to respond to the proposed land zoning. It is expected that a future subdivision would then be undertaken to in accordance with the new Minimum Allotment Size (Figure 2).

# 3 Scope of Work

#### 3.1 **PESA**

This PESA has been undertaken in reference to the relevant sections in the *Consultants Reporting on Contaminated Land* (NSW EPA 2020), and Department of Urban Affairs and Planning Managing Land Contamination – Planning Guidelines SEPP55 – Remediation of Land (DUAP & EPA 1998).

The assessment included:

- A desktop review of historical conditions and activities on the Site including:
  - Historical aerial photographs review (to map change in use over time);
  - NSW EPA contaminated land and POEO notices and records (onsite or offsite contamination presence or significant activities),
  - Historical ownership records;
  - o Review of banana cultivation and cattle tick dip sites registers;
  - Review of geology and hydrogeology including groundwater bores (risk of contamination migration); and
  - Review of environmental constraints such as groundwater dependent ecosystems (sensitive receptors).
- A site walkover of the Site to assess current layouts, surface conditions, presence hazardous building materials that may result subsurface contamination, and the presence of any obvious previous contaminating activities (such as current or historical fuel storage); and
- Presentation of a PESA report, including conclusions and recommendations on the contamination status of the property and suitability of the rezoning application and future subdivision.

#### **3.2 PASS**

The PASS investigation was undertaken in reference to the Acid Sulfate Soil Manual (ASSMAC, 1998). The scope of work included:

- A desktop review of surface, geology, hydrogeology, geomorphic and ASS risk conditions;
- A site inspection and walkover to assess for indicative ASS biomes and features;
- Drilling of three (3) boreholes;
- Collection of nine (9) soil samples at various soil profiles present and field screening for ASS including Suspension Peroxide Oxidation Combined Acidity and Sulfur (SPOCAS) on a selected sample; and
- Preparation of this report which describes the results of our investigation.

#### 3.3 WCA

The wastewater capability assessment utilised general site and soi constraints outlined in the DLG (1998) guideline. The scope of work included:

- A desktop review of topographical, geological, landscape features and vegetation features of the Site;
- A site inspection of typical landforms the future subdivision could occur on;
- Modelling of typical effluent application and development footprints; and
- Compare available wastewater land area on nearby lots of a similar size to confirm in 1ha lot size would be suitable on the Site.

# **4 Site Description**

### 4.1 Site Identification

The Site is known as Lot 2 DP1232259 (approximately 21.6ha), Lot 124 DP755557 (approximately 16.8ha) & Lot 200 DP1242996 (approximately 129ha) which is approximately 167.4ha in total (Figure 1).

#### 4.2 Location and Features

The Site is made up of three large properties that are situated between the western side of the Kalang River delineating Newry Island and the eastern side of the Pacific Highway on both sides of South Arm Road, Urunga. South Arm Road progresses southeast northwest along a ridgeline adjacent to the property boundaries.

The area of Lot 200 is located on the western side of South Arm Road with a detached section on the eastern side to the south of Riverside Drive. The groundsurface generally slopes down to the northwest and north on the western side of South Arm Road with open grazing pasture occupying the upper to mid slopes and forest vegetation and swampland occupying the low lying and intermittent drainage areas. To the east of South Arm Road the groundsurface slopes down to the east off the ridgeline towards the Kalang River.

The area of Lots 2 and 124 mostly occupy the eastern side of South Arm Road in two rectangular lots that extend from Kalang River to the east, westwards over low lying grazing land, swampland and intermittent drainages to a series of small ridgeline spurs whose groundsurfaces slope down from South Arm Road towards the southeast. An existing dwelling occupies the ridgeline on Lot 2 with a farm shed situated on a ridgeline spur. A smaller section of Lot 2 occupies the western side of South Arm Road, whose groundsurface slopes to the northwest from the ridgeline.

### 4.3 Surrounding Land Use

The surrounding land use is detailed in **Table 1**.

#### Table 1: Surrounding Landuse

North	South	West	East		
Open pasture, remnant and regenerated forest, and new development 1ha rural residential.	Open pasture remnant forest and wetland.	Remnant forest, Pacific Highway	Open pasture remnant forest, wetland and rural residential.		

# **5 Site Inspection**

A site inspection was undertaken on 12 August 2021 by staff of EWC. During the inspections it was noted that:

- The existing dwelling is an original wooden farmhouse with corrugated iron roofing, situated within fenced yards with two water tanks. Given the apparent ages of the dwellings, Asbestos Containing Materials (ACM) are likely to have been used in construction of wet areas;
- Drainage from the cattle yards disperse over a linear divergent to waxing divergent landform along a south facing ridgeline spur;
- Stormwater from South Arm Road drains to multiple discharge zones to the north and south of the ridgeline;
- The regenerated forest area margins are relatively untouched with no apparent rubbish or dump zones; and
- Swamp type vegetation is located low in the landscape close to the river height of <5mAHD.

Typical Site details are shown the following photographs.



Photograph 1 – Looking northeast along with South Arm Road occupying the tree line to the right.



Photograph 2 – Looking north northwest along a ridgeline spur from South Arm Road towards low lying remnant forest.



Photograph 3 – Looking south upslope from the south-western corner of Lot 200 towards the ridgeline of South Arm Road (outside of the planning proposal area).



Photograph 4 – Looking northwest upslope from proposed Lot 13 and across proposed Lot 13 towards the existing dwelling from a southeast facing ridgeline spur.



Photograph 5 – Looking north upslope from proposed Lot 16 across proposed Lot 15 towards an existing shed in the midground and an existing dwelling in the background from a south facing ridgeline spur.



Photograph 6 – Looking south downslope on a ridgeline spur across proposed Lot 16 towards remnant wetland forest

# 6 Geology, Hydrogeology and Topography

### 6.1 Topography

The southern Lot 200 property boundary on the South Arm Road ridgeline is situated at approximately 20mAHD and rising to approximately 30mAHD at the south-western corner.

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Groundsurfaces from the southern Lot 200 boundary fall to the north and northwest towards low lying remnant swampland at between 2-10mAHD. Intermittent drainages of first and second order drain through the gully spurs feeding two mapped dams that drain a northeastern direction through a low-lying swampland. A narrow ridgeline spur oriented east to west at approximately 20mAHD intersects the eastern Lot 200 property boundary midway outside of the planning proposal area.

The northern Lot 2 and 24 property boundaries are situated at approximately 30mAHD on the ridgeline where the existing dwelling is situated, and fall to the east and south across a series of ridgeline spurs that feed intermittent drainages and mapped farm dams. A mapped wetland system is located at approximately 2mAHD in the lower southern portions of the lots.

#### 6.2 Geology

Based on the Coffs Harbour 1:25,000 Coastal Quaternary Geology Map, the middle portion ridgeline and the western portion of the Site are underlain by Palaeozoic aged sedimentary siltstones and minor conglomerates of the Bellingen Slate (Pnbf). The eastern lowlying portion of the Site is underlain by Undifferentiated Quaternary-aged sedimetnts (Qu) including alluvial and swamp deposits, coastal sand and estuarine deposits.



Photograph 7 – Mapped Quaternary Geology

#### 6.3 Soils

We reviewed the Soil Landscapes of Central and Eastern NSW which indicates that the elevated sections of the Site made up by the ridgelines and spurs are underlain by erosional soils belonging to the Pine Creek Soil Landscape. The lower lying swampy northern and eastern portions of the Site are underlain by the swamp soils belonging to the Charlmont Soil Landscape



### 6.4 Hydrogeology

No licensed groundwater bores are located on the Site. There are a number of registered groundwater bores clustered amongst the pre-existing rural land to the southwest corner of the Site, including: GW305496 (48.0m depth, domestic), GW303040 (36.0m depth, domestic and stock), GW051440 (11.9m depth, domestic and stock), GW054412 (9.4m depth, domestic and stock) and GW051274 552m (12.2m depth, stock). There is a registered bore in the rural residential area to the east of the Site, including: GW305945 east (33.0m depth, domestic) and 20510011 (unknown). Groundwater is expected at >20m depth on along the ridgelines of the Site underlain by clayey residual soils and bedrock.



#### 6.5 Acid Sulfate Soils

We reviewed the Macksville 1:100,000 ASS Risk Map. This indicates that the crests and slopes of the Site are mapped with negligible ASS risk (Class 5), low lying alluvial swamp area at 2-4mAHD mapped with a likely risk of occurrence 1m below ground level (Class 3) and the low lying backswamp wetland area 0-2mAHD to the south of the site and marginally intersecting the southern border of Lot 2 is mapped with a likely occurrence below ground level (Class 2).



Photograph 8 – ASS Risk Mapping

# 7 Preliminary Environmental Site Assessment

#### 7.1 Previous Environmental Investigations

No previous environmental investigations are known to have been undertaken on the Site.

#### 7.2 Aerial Photographs

A review of aerial photographs from 1956-2019 was undertaken, and the results are summarised in Table 2 with aerials included in Appendix A. Aerials pre 1956 are not available.

Year	Site	Surrounding Land
1956	The main existing dwelling and a farm shed with stock yards, are on a Lot 2 ridgeline spur south of South Arm Road. Two small shed structures are present on the northern side of the primary ridgeline on Lot 200.	To the north, a few dwellings are present adjacent to South Arm Road. To the east and to the south, cleared grazing areas on ridgeline spurs and low- lying backswamps.

#### Table 2: No. 9 Aerial Photograph Review

#### Lot 2 DP1232259, Lot 200 DP124996 & Lot 124 DP 755557 6 South Arm Road, Urunga

Year	Site	Surrounding Land
	Extensive clearing of forested areas within elevations suitable for grazing. Majority of swampland on lower elevations is vegetated by remnant shrub and trees.	To the west, remnant forest vegetation.
1967	Minor vegetation regeneration of previously cleared areas on Lot 200.	No change.
1973	An additional shed structure in the existing dwelling vicinity. Further clearing and thinning of vegetation in grazing areas across the Site.	Clearing adjacent to the northeastern corner of the Site.
1980	Minor vegetation regrowth of previously cleared areas on Lot 200.	Clearing adjacent to the southwestern corner of the Site and a residential dwelling and shed structure south of the primary ridgeline.
		Additional residential dwellings to the North.
		Forest trails to the north-west.
1989	Moderate vegetation regeneration and regrowth of previously cleared areas on Lot 200. A cleared patch adjacent to the northwestern boundary.	Further clearing adjacent to the southwestern boundary of the Site. Subdivision of Newry Island land to the east for residential development. Additional dwellings adjacent to the
		southwestern corner of the Site.
1994	Continued vegetation regeneration and regrowth on Lot 200.	Land clearing of vegetation to the northwest of the Site.
	Downsize of the farm shed structure in the dwelling vicinity.	Further residential development to the north adjacent to South Arm Road.
		Addition of Riverside Drive to the-east. No residential development at the time.
2024		Large water tank to the north-west.
2004	Continued significant vegetation regeneration and regrowth on Lot 200.	Significant residential development on Riverside Drive and adjacent to the South Arm Road (>20 dwellings). Further residential development to the
		Further residential development to the North of the Site.

Year	Site	Surrounding Land
2010	Minor clearing and thinning of vegetation on Lot 200 ridgeline spurs.	No change.
2015	Minor clearing and thinning of vegetation on Lot 200 ridgeline spurs.	Construction underway for the Nambucca Heads to Urunga Pacific Highway Upgrade Project (NH2U) skirting the western Site boundary.
2019	Addition of a corrugated farm shed in the existing dwelling vicinity.	Construction of four large dwellings on the primary ridgeline adjacent to South Arm Road towards the middle of the Site.
2020	No change.	Construction of one large dwelling on the primary ridgeline adjacent to South Arm Road towards the middle of the Site.

#### 7.3 NSW EPA Records

A search of the NSW EPA's contaminated land record revealed no investigation or remediation notices have been issued on the Site or adjacent lots for contamination or 'significant risk of harm' under Section 58 of the Contaminated Land Management Act 1997.

A search of the public register under Section 308 of the Protection of the Environment Operations Act indicated that no current licenses have been held for potentially contaminating activities on the Site or adjacent lots, nor notices issued.

Surrendered activities include former Licensed activities pertaining to application of herbicides on waterways throughout the Bellingen Shire and NSW. Similarly, former Licensed activities pertaining to ceased road construction for the Nambucca Heads to Urunga Pacific Highway Upgrade project which is adjacent to the Site have been surrendered.

### 7.4 Other Contaminating Sites

The Site is not known to have been nor located adjacent to any known Defence sites, former gasworks, PFAS contaminated, loose fill asbestos insulation registered, dry cleaners, fire rescue, gas terminals, liquid fuel depots, active mines or quarries, derelict mines, petrol stations, power stations, electrical substations, telephone exchanges, active or historical waste management facilities (landfills) or wastewater treatment facilities.

A current licensed activity for waste disposal (EPL 5896) is held by the Bellingen Shire Council for the operation of the Raleigh Waste Management Centre which is located approximately 923m north of the Site. No risk is associated with this facility.

A lapsed license for a demolished cattle tick dip site was situated to the northeast of the site on Short Cut Road which expired in 1937.

#### 7.5 Historical ownership

A search of historical owners was undertaken of Lot 2 and 200. The results are summarised in **Table 3**, and the results are included in Appendix B.

#### **Table 3: Historical Ownership**

Date	Lot 2 DP1232259	Lot 200 DP1242996
1926 - 1954	France Tyson	France Tyson
1954 - 1963	Cecil Tyson	Cecil Tyson
	Eunice Elma Lois Jackson	Eunice Elma Lois Jackson
1963 - 1965	Douglas Geroge Menz	Douglas Geroge Menz
1965 - 1969	William Henry Willett	William Henry Willett
1965 - 1966		William Henry Willett
1966 - 1969		Archibald Stewart Crombie
1969 - 1973	Roy Gordon Riddell	Roy Gordon Riddell
	Joyce Eirene Riddell	Joyce Eirene Riddell
1973 - 1977	Roy Gordon Riddell	Roy Gordon Riddell
1977 – 2008	Roy Gordon Riddell	Roy Gordon Riddell
	Judith Langford Riddell	Judith Langford Riddell
2008 - 2020	Judith Langford Riddell	Judith Langford Riddell
2020 - date	Robert Bruce Riddell	Not Specified on Title Search

#### 7.6 Summary of Site History

The historical review has identified that the Site underwent extensive clearing in potential grazing areas prior to 1956 (no record of earlier aerial photos) with succeeding cycles of regeneration and clearing leading to present vegetated gullies and cleared ridgeline spurs. A sole residential dwelling has occupied the Site since prior to 1956. The elevated land has typically been subject to cattle grazing with lower lying areas remaining vegetated. First recorded land acquisition was in 1926, and ownership has remained in family since 1969 to date.

The construction of the NH2U, adjacent to much of the western property boundary has fragmented ecological connectivity to neighboring forest.

Surrounding farmland has been subject to similar land clearing patterns to the Site. Periods of residential development in surrounding areas commenced since 1989 and have spiked since 2019 when rural-residential land has become available.

#### 7.7 Potential Areas and Contaminants of Concern

Based on the site history and a walkover, for the planning proposal LEP rezoning change, no Areas of Environmental Concern (AECs) and associated Contaminants of Concern (CoC) were identified that would impact on the proposed development.

Potential for contamination due to agricultural grazing and associated activities was investigated with the collection of three check samples. Two check samples were collected on the northern side of the South Arm Road ridgeline and one check sample was collected on the southern side of South Arm Road on a ridgeline spur extending to the southern boundary of Lot 2 (Figure 3). Samples were analysed for generic Contaminants of Concern (CoC).

#### **Table 4: Areas of Environmental Concern**

AEC	CoC
Residential development	heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc), OCP and Organophosphorus Pesticides (OPP).

#### 7.8 Investigation Criteria

The investigation criteria adopted for this PESA are health-based investigation levels for residential sites with access to soil for home grown vegetables at less than the 10% of the daily intake, provided in NEPM (NEPC 2013) Guidelines. In addition, Environmental Investigation Levels (EILs) are adopted based on background concentrations tested from nearby properties. The investigation criteria are shown in the attached Table LR1.

### 7.9 Sampling Methodology

Samples were collected from 0-150mm depth into laboratory supplied glass jars with Teflon lids. Sampling equipment was decontaminated between sample collection, and disposable gloves were worn and changed between samples.

Samples were forwarded under Chain of Custody conditions at Eurofins Laboratory for analysis. The laboratory reports are included in Appendix C.

#### 7.10 Analytical Results

The soil analytical results are summarised in the attached Table LR1. Comparison of discrete sample results to the investigation criteria indicated that:

- Concentrations of OCP and OPP were reported below the laboratory Limit of Reporting (LOR) for all samples; and
- Concentrations of Cadmium, Mercury and Nickel were all reported below the laboratory LOR, and concentrations of Arsenic, Chromium, Copper, Lead and Zinc were reported above the LOR but to a high degree below the Investigation Criteria for all samples analysed.

The analytical results confirm the opinion formed that there are no AECs at the Site that would impact on the proposed residential subdivision.

# 8 ASS Investigations

#### 8.1 Biophysical Indicators

The desktop review indicated that potential dwelling allotments will be underlain by sedimentary bedrock and the resultant residual clay loam soils. An inspection of the area confirms no salt scalding or salt tolerant vegetation are present, no apparent shallow groundwater, and wet eucalypt type forest vegetation is present at the lower slopes and gullies towards low lying alluvial swamp

Potential ASS has been mapped in the low lying alluvial swamp area extending from the northern boundary through the middle of Lot 200 and the backswamp wetland areas extending into the southern margins of Lot 2 and through the middle of Lot 124 (Figure 4). Low lying areas are not expected to be developed.

#### 8.2 Subsurface Conditions

Site soils were observed by drilling three (3) boreholes (BH1, BH2 and BH3) to a maximum depth of 1.2m depth using a powered auger. Borehole locations are shown in Figure 3, and a copy of the borehole logs are presented in Appendix D.

Natural soil profiles were observed in the borehole, and were found to be representative of the Pine Creek Soil Landscape, with a shallow topsoil layer underlain by orange to white clay.

Strong jarosite and iron mottling was not observed in the natural soils. No rotten egg odours, shell pieces, dark grey to black anaerobic soils or muds were encountered.

No groundwater inflow was observed in the borehole to the depth drilled.

#### 8.3 ASS Screening Test Results

Nine soil samples were collected and selected for field screening tests to determine their likelihood of containing Potential or Actual ASS (Pass/Aass) and whether further laboratory analyses would be necessary. The selected soil samples were placed in a chilled container (~4 C) and only removed when analysis was conducted.

Samples were forwarded to Eurofins-MGT for initial screening analysis. The lab report is included in Appendix C. In summary:

- The pH<sub>f</sub> of analysed samples ranged from 6.0-6.1, with the samples from 0.3 0.5m depth recording a pH<sub>f</sub> of 6.0 6.1, above the investigation criteria of 4. This indicates that the near topsoil is naturally slightly acidic;
- The pH<sub>fox</sub> of all analysed samples ranged between 2.8-4.7, with one sample (ASS2-0.3-0.5) below the investigation criteria of 3. The results indicate that Pass may be present at Sample location ASS2; and

• Except for sample ASS2-0.3-0.5, the rate of reaction and pH change from Ph<sub>f</sub> to pH<sub>fox</sub> suggested no ASS.

As a result of the field screen analytical data, further laboratory testing for Suspension Peroxide Oxidation Combined Acidity and Sulfur (SPOCAS) was undertaken for sample ASS2-0.3-0.5 to confirm if PASS is present at that depth and location. The lab report is included in Appendix C. In summary:

- The peroxide oxidisable sulfur (POS) was less than 0.02%, below the 0.01% threshold;
- The titratable sulfidic acidity (TSA) was recorded at 56 molH+/t, below the threshold of 62 molH+/t.

Noting that this sample falls outside of the planning proposal area near the south-western property boundary. The results indicate that the soils are naturally acidic due to their coastal location and are not caused by the sulfur content (ASS), and the regional vegetation is adapted to acidic conditions.

No further investigations or ASS management area required for the planning proposal to proceed. During future development applications on individual lots further ASS investigations may be required for lots 9-13 where mapped H2 potential ASS has been identified.

### 9 Wastewater Capability

A minimum lot size analysis and modelling were completed to assess if 1ha lot size is suitable for the Site.

#### 9.1 Methodology

When considering the suitability for a lot to sustainably manage wastewater on-site, we typically refer to 'available effluent management area'. This broadly refers to available areas (i.e. not built out or used for a conflicting purpose) where OSMS will not be unduly constrained by site and soil characteristics. Available area on a developed lot is determined by the following factors:

- Total building area (including dwellings, sheds, pools etc.) which includes a defined building envelope but may extend beyond with additional improvements to a property, such as driveways and paths (impervious areas), and gardens/vegetated areas unsuitable for effluent reuse;
- Dams, intermittent and permanent watercourses running through lots;
- Maintenance of appropriate buffer distances from property boundaries, buildings, driveways and paths, dams and watercourses;
- Flood prone land;
- Excessive slope;
- Excessively shallow soils;
- Heavy (clay) soils with low permeability;
- Excessively poor drainage, shallow groundwater and/or stormwater run-on; and
- Excessive shading by vegetation.

The residual areas (areas not otherwise occupied by improvements, buffers, restrictions or conservation vegetation) were then calculated for the selected lots (Figure 5), and the available area compared to the wastewater envelope required.

#### 9.2 Assumed OSMS

Primary treatment was selected as default due to proposed lots in the current investigation area being ~10,000m<sup>2</sup>.

Based on previous subdivision modelling of sustainable hydraulic and nutrient loading on properties in the Bellingen Shire, for a 4 bedroom dwelling a minimum footprint of 505m<sup>2</sup> is required for on-site wastewater land application (Appendix E). Allowing for a reserve area of equal footprint, this equates to 1,100m<sup>2</sup> total wastewater envelope required for general assessment purposes.

#### 9.3 MLS Buffer Distances

Buffer distances from EMAs are typically enforced to minimise risk to public health, maintain public amenity and protect sensitive environments. Generally, adopted environmental buffers for primary treated effluent land applied into absorption trenches/ beds based on DLG (1998) are:

- 250m from domestic groundwater bores;
- 100m from permanent watercourses;
- 40m from intermittent watercourses and dams;
- 12m from downslope property boundaries and 6m from upslope property boundaries; and
- 6m from downslope buildings and 3m from upslope buildings.

In addition, developed areas such as inground water tanks and swimming pools were also buffered.

#### 9.4 MLS Comparative Lots Assessed

Four nearby representative lots were selected that have already been subdivided (Table 5) (Figure 5). The lots ranged in size from 9,530-9,888m<sup>2</sup> and are situated on the northern side of the South Arm Road ridgeline adjacent to the planning proposal area.

Address	Lot Area (m <sup>2</sup> )	Zoning
180 South Arm Road	9,530	RU4
186 South Arm Road	9,540	RU4
194 South Arm Road	9,650	RU4
200 South Arm Road	9,888	RU4

#### Table 5: Comparative Lots Assessed

The properties typically included a dwelling, garage/shed, landscaped trees, shrubs and gardens, driveways, water tanks, and recreational space. This development style will be similar to that

proposed for the Site and therefore minimum lot size and development potential should be consistent.

#### 9.5 MLS Assessed Available EMA

**Table 6** and Figure 5 shows the assessment of available effluent management areas for each of the assessed lots. As is evident, the variability of lot sizes, on-lot improvements and restrictions of developed lots makes selection of a "typical" lot difficult, however comparison of the site constraints indicates that minimum lot size is the most significant issue to address.

Id	Lot Area (m²)	Developed Area (m <sup>2</sup> ) <sup>1</sup>	Total Restricted Area (m²) ²	Available Eff. Application Area (m <sup>2</sup> )	Percent of Lot Available for Eff. Disp. (%)	>1010m <sup>2</sup> Area Available for Primary Treatment?
180	9,530	3,745	6,840	2,686	39	Yes
186	9,540	2,270	5,833	3,705	64	Yes
194	9,650	1,933	5,517	3,576	65	Yes
200	9,888	1,833	6,870	3,044	44	Yes
1.       House, driveway, shed etc         2. Includes developed area, protected vegetation and buffers to waterways and boundaries						

**Table 6: Minimum Lot Size Assessment Results** 

9.6 Available EMAs on Lots in the Planning Proposal

Allowing for general buffers to boundaries and waterways, the general available areas for onsite wastewater application (EMAs) for each lot are shown on Figure 6. A minimum of 3,000m<sup>2</sup> EMA is available pet lot and as such the MLS of 1ha is considered suitable.

# **10 Conclusions and Recommendations**

Environmental investigations have been completed across the planning proposal extents. It is concluded that:

- The Site has no significant Areas of Environmental Concern or Contaminants of Concern that would impact the proposed rezoning application. Confirmation check sampling undertaken during this investigation recorded soil concentrations of heavy metals are very low and within expected background ranges, and no pesticide contamination;
- The ASS investigation confirmed that residual clay soils are located beneath the majority of the area in the planning proposal area. ASS class mapping identifies mainly Class 5 ASS soils in the planning proposal area with ASS not expected. But a high probability of ASS has been mapped along the eastern margins of proposed Lots 9-13 that may affect development in those portions. Field screening, laboratory testing and biophysical indicators confirmed no ASS across the likely portions of lots to be developed; and

Modelling for primary treatment and subsurface land application a minimum of 1,100m<sup>2</sup> of land area is required for sustainable wastewater management. Comparison of the land area within the planning proposal extents to adjacent properties suggests that for a 1ha lot typically 3,000-4,000m<sup>2</sup> of land area is available for onsite wastewater application, in excess of the minimum area required. As such 1ha lot sizes in the area would be sustainable.

# **11 References**

ASSMAC, Acid Sulfate Soil Manual. Acid Sulfate Soils Management Advisory Committee, August 1998. NEPC. 2013. National Environment Protection (Assessment of Site Contamination) Measure. Schedule B1-Schedule B1 Guideline on Investigation Levels For Soil and Groundwater. National Environment Protection Council.

NSW EPA. 2020. *Consultants Reporting on Contaminated Land*. NSW Environment Protection Authority.



### Table LR1: Summary of Soil Discrete Analytical Results

Sample ID		LOR	Investigation Criteria		S-1	S-2	S-3	
Date Collected			NSW EPA	NEPI			12/08/2021	
Depth Collected	Units	Eurofins	BP	HIL (A)	EIL	0-150	0-150	0-150
% Moisture	%	1	_	_	-	38	50	33
Heavy Metals		_						
Arsenic	mg/kg	2	100	100	100	5.7	4.6	2.7
Lead	mg/kg	5	300	300	1100	< 0.4	< 0.4	< 0.4
Cadmium	mg/kg	0.4	-	20	-	14	20	16
Chromium	mg/kg	5	_	100	480	19	16	9.5
Copper	mg/kg	5	-	6000	140	9.2	11	9.4
Mercury	mg/kg	0.1	_	40		< 0.1	< 0.1	< 0.1
Nickel	mg/kg	5	_	400	55	< 5	6	< 5
Zinc	mg/kg	5	_	7400	210	27	45	20
Organochlorine Pesticides		Ū		7.00				20
4.4'-DDD	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	mg/kg	0.05	-	-	_	< 0.05	< 0.05	< 0.05
4.4'-DDT	mg/kg	0.05	50	_	180	< 0.05	< 0.05	< 0.05
a-BHC	mg/kg	0.05	-	_	-	< 0.05	< 0.05	< 0.05
Aldrin	mg/kg	0.05	_	_	-	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	mg/kg	0.05	10	6	-	< 0.05	< 0.05	< 0.05
b-BHC	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
Chlordanes - Total	mg/kg	0.1	_	50	-	< 0.1	< 0.1	< 0.1
d-BHC	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	mg/kg	0.05	-	240	-	< 0.05	< 0.05	< 0.05
Dieldrin	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
Endosulfan I	mg/kg	0.05	_	270	_	< 0.05	< 0.05	< 0.05
Endosulfan II	mg/kg	0.05	-	]	_	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
Endrin	mg/kg	0.05	-	10	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
Endrin ketone	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
Heptachlor	mg/kg	0.05	-	6	_	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	mg/kg	0.05	-	-	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene (HCB)	mg/kg	0.05	-	10	-	< 0.05	< 0.05	< 0.05
Methoxychlor	mg/kg	0.05	-	300	-	< 0.05	< 0.05	< 0.05
Toxaphene	mg/kg	0.1	-	20	-	< 0.1	< 0.1	< 0.1
Organophosphorous Pesticides			•		•			•
Azinphos-methyl	mg/kg	0.2				< 0.2	< 0.2	< 0.2
Bolstar	mg/kg	0.2				< 0.2	< 0.2	< 0.2
Chlorfenvinphos	mg/kg	0.2				< 0.2	< 0.2	< 0.2
Chlorpyrifos	mg/kg	0.2				< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	mg/kg	0.2				< 0.2	< 0.2	< 0.2
Coumaphos	mg/kg	2				< 2	< 2	< 2













Proposed 1	Developmer	nt L
PROJECT Environmen Lot 2 and Urunga		$\sim$
AUTHOR	DATE	SCALE
SD	30/03/22	

_ayout	<sup>FIGURE</sup> Figure 2			
5	SHEET 1 OF1 ISSUE A			
tions for th Arm Rd,	David Riddel			
	PROJECT			
1:4000	2021–83			









	Existing Location	Layou	t and
PROJE	T Environm Lot 2 ai Urunga		$\sim$

AUTHOR	DATE	SCALE
SD	30/03/22	

tions for th Arm Rd, PROJECT	d Sample	FIGURE Figure 3			
tions for David th Arm Rd, Riddel PROJECT	'	SHEET 1 OF1 ISSUE A			
	tions for th Arm Rd,	David			
1:5000 2021-83		PROJECT			
	1:5000	2021–83			





EMA Restricted Area EMA Available Area



TTLE Comparative	Lot Size	) Co
PROJECT Environment Lot 2, 124 Rd, Urunga		
AUTHOR	DATE	SCALE
SD	30/03/22	

tions for outh Arm	David Riddel
	PROJECT
1:1500	2021–83



9 ha	
MAs	FIGURE FIGURE 6 Sheet 1 OF1 ISSUE A
tions for South Arm	David Riddel
1:4000	PROJECT 2021-83



#### Aerial Imagery 2020

201 South Arm Road, Urunga, NSW 2455



Aerial Imagery 2019 201 South Arm Road, Urunga, NSW 2455



#### Aerial Imagery 2015

201 South Arm Road, Urunga, NSW 2455


















# **APPENDIX B**



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/Seq:3 18:04 Road /Prt:23-Aug-2021 - 201 South Arm LRS /NSW LF CK /Ref: /Doc:DP 1232259 P /Rev:21-Aug-2017 the Registrar-General /Src:INFOTRA R406560 fice of

Req:R406560 /Doc:DP 1232259 P /Rev:21-Aug-2017 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 18:04 /Seq:4 of 5 © Office of the Registrar-General /Src:INFOTRACK /Ref:LS023209 EP - 201 South Arm Road

PLAN FORM 6 (2012) WARNING: Creasing or f	olding will lead to rejection ePlan
DEPOSITED PLAN AI	OMINISTRATION SHEET         Sheet 1 of 2 sheet(s)
Concerned Control Cont	Office Use Only DP1232259
Purpose: SUBDIVISION	
PLAN OF	LGA: BELLINGEN
SUBDIVISION OF	Locality: URUNGA
LOTS 125, 126 & 195 IN DP755557	Parish: SOUTH BELLINGEN
	County: RALEIGH
Crown Lands NSW/Western Lands Office Approval 1,	Survey Certificate I, MICHAEL F. LAMONT of RESOURCE DESIGN & MANAGEMENT PTY LTD P.O. BOX 4430 COFFS HARBOUR JETTY, NSW 2450. a surveyor registered under the Surveying and Spatial Information Act 2002, certify that: *(a) The land shown in the plan was surveyed in accordance with the Surveying and Spatial Information Regulation 2012, is accurate and the survey was completed on *(b) The part of the land shown in the plan (*being PART LOT 1 TO LOT 3 INCLUSIVE WITH CONNECTIONS) was surveyed in accordance with the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Surveying and Spatial Information Regulation O(20) is accurate and the Survey in O(20) is accurate and the Survey in O(20) is accurate and the Survey in O(20) is accurate and the Surv
I. <u>L12</u> Jesen <u>*Authorised Person</u> /*General Manager/*Accredited Cortifier, certify that the provisions of s. 109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to the proposed subdivision, new road or reserve set out herein. Signature: <u>A.7</u> Accreditation number: Consent Authority: <u>Bellingen</u> Shire Council Date of endorsement: <u>4 August</u> 2017 Subdivision Certificate number: <u>2017</u> /SC-0000.2 File number: <u>2016</u> /14F-00139	<ul> <li>2012, is accurate and the survey was completed on 9 MARCH 2016, the part not surveyed was compiled in accordance with that Regulation.</li> <li>*(c) The land shown in this plan was compiled in accordance with the <i>Surveying and Spatial Information Regulation 2012</i>.</li> <li>Signature:</li></ul>
*Strike through if inapplicable.	*Strike through if inapplicable. ^Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.
Statements of intention to dedicate public roads, public reserves and drainage reserves.	Plans used in the preparation of survey/compilation.448-1714482-1714586-17141074-1714
IT IS INTENDED TO DEDICATE THE NEW ROAD AND THE ROAD WIDENING SHOWN HEREON TO THE PUBLIC AS PUBLIC ROAD.	2674-1603     21586-1603       DP 587526     DP847318       DP 1160274     371-1714
Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A	If space is insufficient continue on PLAN FORM 6A Surveyor's Reference: 14117/2

Req:R406560 /Doc:DP 1232259 P /Rev:21-Aug-2017 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 18:04 /Seq:5 of 5 © Office of the Registrar-General /Src:INFOTRACK /Ref:LS023209\_EP - 201 South Arm Road

PLAN FORM 6A (2012) WARNING: Creasin	WARNING: Creasing or folding will lead to rejection			
DEPOSITED PLA	N ADMINISTRATION SHE	ET Sheet 2 of 2 sheet(s)		
Office Use Registered: 21.8.2017	·			
PLAN OF SUBDIVISION OF		1232259		
LOTS 125, 126 & 195 IN DP755557	A schedule of lots and ad     Statements of intention to     accordance with section 8	of the following information as required: Idresses - See 60(c) SSI Regulation 2012 o create and release affecting interests in 88B <i>Conveyancing Act</i> 1919		
Subdivision Certificate number: <u>2017/sc-0000.8</u> Date of Endorsement: <u>4 August 2017</u>	······	e 195D Conveyancing Act 1919 annot fit in the appropriate panel of sheet neets.		

LOT	STREET NUMBER	STREET NAME	STREET TYPE	LOCALITY
1	N/A	SOUTH ARM	ROAD	URUNGA
2	201	SOUTH ARM	ROAD	URUNGA
3	N/A	SOUTH ARM	ROAD	URUNGA

Judith Langford Riddel

If space is insufficient use additional annexure sheet

Surveyor's Reference:14117/2



24.8.2018



Req:R406792 /Doc:DP 1242996 P /Rev:27-Aug-2018 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 19:43 /Seq:3 of 4 © Office of the Registrar-General /Src:INFOTRACK /Ref:LS023209\_EP - 201 South Arm Road

PLAN FORM 6 (2017)	DEPOSITED PLAN AD	Sheet 1 of 2 sheet(s)	
Registered: 04.06.	Office Use Only 2018	DP124	Office Use Only
Title System: TORRENS			
PLAN OF SUBDIVISION AND CONSO		LGA: BELLINGEN Locality: URUNGA	
DP 1237204, LOT 3 DP 1232 AND LOTS 120 AND 79 DP 7		Parish: SOUTH BELLI County: RALEIGH	NGEN
DP 1232259 48	NT PTY LTD IETTY, NSW 2450 ing and Spatial Information Act rveyed in accordance with the Regulation 2017, is accurate , or lan (*being/*excluding LOTS NNECTIONS) was surveyed in <i>I Spatial Information Regulation</i> and the survey was completed is surveyed was compiled in r mpiled in accordance with the Regulation 2017. , "Y" p-Mountainous. Dated: 30194118 Act 2002	Crown Lands NSW/Wess I,	on Certificate ager/*Accordited Cortifion, certify that ironmental Planning and satisfied in relation to the proposed set out herein. Shire Council Day 2018 2018 Sc-0003 RE-00139
DP 847318 DP 252796			
Surveyor's Reference: 14075-27			88B Statements should appear on FORM 6A

Req:R406792 /Doc:DP 1242996 P /Rev:27-Aug-2018 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 19:43 /Seq:4 of 4 © Office of the Registrar-General /Src:INFOTRACK /Ref:LS023209\_EP - 201 South Arm Road

	·····						
PLAN FORM 6A (2	2017) <b>DEPOSITED</b>	) PLAN AE	DMINISTR/	ATION SHEET	Sheet 2 of 2 sheet(s)		
	Office 04.06.2018	e Use Only			Office Use Only		
Registered:				DP12429	996		
PLAN OF							
	- CONSOLIDATION						
	OT 3 DP 1232259, L		This sheet is	for the provision of the follo	wing information as required:		
	DTS 120 AND 79 DP		<ul> <li>A sched</li> </ul>	lule of lots and addresses - (	See 60(c) SSI Regulation 2017		
	mber: 2018 SC-00		<ul> <li>Statements of intention to create and release affecting interests in accordance with section 88B Conveyancing Act 1919</li> </ul>				
Date of Endorsement:	2 May 201	8	<ul> <li>Signatu</li> </ul>	res and seals- see 195D Co.	nveyancing Act 1919		
	۱.			rmation which cannot fit in t administration sheets.	he appropriate panel of sheet		
LOT	STREET NUMBER	STREE	T NAME	STREET TYPE	LOCALITY		
200	NA	SOUTH AR		ROAD	URUNGA		
201	172	SOUTH AR		ROAD	URUNGA		
202	180	SOUTH AR		ROAD	URUNGA		
203	186	SOUTH AR	M	ROAD	URUNGA		
204	194	SOUTH AR	М	ROAD	URUNGA		
205	200	SOUTH AR	М	ROAD	URUNGA		
206	169	SOUTH AR	М	ROAD	URUNGA		
<ul> <li>IT IS INTENDED TO CREATE PURSUANT TO SEC. 88B OF THE CONVEYANCING ACT 1919:</li> <li>1. RESTRICTION ON USEX – VARIABLE WIDTH</li> <li>2. POSITIVE COVENANT</li> <li>3. RESTRICTION ON USEX</li> <li>4. RESTRICTION ON USEX</li> </ul>							
Judith Langford	₂ <i>díut_l</i> Riddel						
Surveyer's Reference:		sufficient use	additional ar	inexure sheet			

Surveyor's Reference: 14075-27

/Doc:CT 10407-160 CT /Rev:20-Jan-2011 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 1 the Registrar-General /Src:INFOTRACK /Ref:LS023209\_EP - 201 South Arm Road 23-Aug-2021 16:43 R405978 © Office of 10407160 **CIFICATE OF TITLE** NEW SOUTH WALES PERTY ACT, 1900, as amended. Prior Title (Crown Grant) 10407 160Vol Vol. 2049 Fol. 180 28-9-1966 Edition issued 160 DM. K427568 I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule. 0407Witness Standine WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE Registrar General. PLAN SHOWING LOCATION OF LAND 12 AUTO FOLIO (Page I) Vol 126 1312 MI 2126 PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON 125 195 124 48 This area does not include 50 acres Area. the area of the road shown in the plan hereon. 20 chains to one inch K42756B RPB Scale: ESTATE AND LAND REFERRED TO Estate in Fee Simple in Portion 125 in the Shire of Bellingen, Parish of South Bellingen and County of Raleigh, excepting thereout the roads shown in the plan hereon and the minerals reserved by the Crown Grant tao Registrar General. FIRST SCHEDULE (continued overleaf). of Urunga, Farmer. ARCHIBALD STEWART CROUB Registrar General. SECOND SCHEDULE (continued overleaf). 1. Reservations and conditions, if any, contained in the Crown Grant above referred to GRM Registrar General.

of 2

REGISTERED PROPRIETOR     BUTLENT     David     Signature of Registrace devel       Registrace development     Nonex     David     Nonex     David       Registrace development     Nonex     David     Nonex     David     Signature of Registrace development       Registrace development     Registrace development     Registrace development     Registrace development     Signature of Registrace development       Registrace development     Registrace development     Registrace development     Registrace development       Registrace development     Registrace development     Registrace development     Regin		FIRST SCHEDULE (contin	ued)				
JAA     JAA <th>REGISTE</th> <th>RED PROPRIETOR</th> <th>NATL</th> <th></th> <th></th> <th>ENTERED</th> <th>Signature of Registrar-General</th>	REGISTE	RED PROPRIETOR	NATL			ENTERED	Signature of Registrar-General
Sis All'O FOLIO     Sis All'O FOLIO       Sis All'O FOLIO     Signature of Register-General       CANCELLATION	Conform Ruddel of Coff. Hote Has	have Tented and Jagee Concre Ridd	Jac .	1		2-10-1073	Jan Schont
SEE AILTO FOLIS) SEE AILTO FOLIS SECOND SCHEDULE (continued) NATURE NUMBER DATE PARTICULARS ENTERED Registran-General CANCELLATION NATURE NUMBER DATE PARTICULARS ENTERED Registran-General CANCELLATION NATURE NUMBER DATE CANCELLATION DATE CONTRACT DA	2. Construction of the state		Trans			- E - E - E - E - E - E - E - E - E - E	
SECOND SCHEDULE (continued)          INSTRUMENT       PARTICULARS       ENTERED       Signature of Registrar-General       CANCELLATION         NATURE       NUMBER       DATE       PARTICULARS       ENTERED       Registrar-General       CANCELLATION         Number       NUMBER       DATE       PARTICULARS       ENTERED       Registrar-General       CANCELLATION			· · · · · · · · · · · · · · · · · · ·				· · · •
INSTRUMENT PARTICULARS ENTERED Signature of Registran-General CANCELLATION	· · · · · · · · · · · · · · · · · · ·	SES ANTO FOLIO	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · ·		
INSTRUMENT PARTICULARS ENTERED Signature of Registran-General CANCELLATION			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	···· • • • • • • • • • • • • • • • • •		
my find a first first first first first first first for the second for the second M302417 Southerness		SECOND SCHEDULE (cont	inued)				
my the hard and hard in the second marken lichand M802417 Juntan	INSTRUMENT NATURE NUMBER DAYE	PARTICULARS	ENTERED	Signature of Registrar-General		CANCELLATION	
		elvelored Stevent love Co. of it ways, at	<del></del>	a Jandahan	ticharged	M 802417	Junio
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	••••		· · · · · · · · ·	
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SECOND SCHEDULE (continued)						
NATURE		DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION
An ast Maile		<u></u>	y levelabeld Stevent l've Beriling, tare	2 10 1014	Janderham	ticharged MS02417 Star
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NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BT THE SEAL OF THE

	N470852 /Rev:27-Sep-2011 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 18:00 /Seq:1 of 2 strar-General /Src:INFOTRACK /Ref:LS023209_EP - 201 South Arm Road
	N H 7 0 8 5 2
- GISTRAR C	NE NE LES
	NOTICE OF DEATH
SOUTH SOUTH	SECTION 101, REAL PROPERTY ACT, 1900
This application should be marked by the Com-	
missioner of Stamp Duties before lodgment at the Land Titles Office.	ROY GORDON RIDDEL of "Doondi", Kororo, New South Wales, Dentist
Typewriting and hand- writing should be clear, legible and in permanent black non-copying ink. No giterations should be	
black non-copying ink. No alterations should be made by erasure; the words rejected must be	the surviving joint tenant
ruled through and verified by signature or initials in the margin.	in consequence of the death of (b) JOYCE EIRENE RIDDEL

in consequence of the death of (b) JOYCE EIRENE RIDDEL

hereby applies to be registered as proprietor of the estate or interest comprised in the instrument of title mentioned in the following schedule<sup>(c)</sup>

Volume	Folio	Volume	Folio	Registered Number	Registered Number	Registered Number
10407	160					
						<i>j</i> /
					Q.O.	
		l. l.				<b>ئے۔۔۔</b>

1971, that particulars of such death are registered in the said State, and that the said

on 22nd August

(d)

at

the

deceased is identical with<sup>(b)</sup> Joyce Eirene Riddel

one of the registered proprietors shown on the above instrument.

ո և աօ

(a) Full name,

лL resp address

Req © 0

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AND I make this solemn declaration conscientiously, believing the same to be true and by virtue of the Oaths Act, 1900(1), and I certify this application to be correct for the purposes of the Real Property Act, 1900(1).

Made and subscribed

Armidale 4. the September 1973,

in the presence of---

JA Kiddel

JOHN KNOX RIDDEL Name of witness (BLOCK LETTERS) SOLICITOR ARMICALE Qualification of witness

Applicant(a)

DEPARTMENTAL USE ONLY	TO BE COMPLETED BY LODGING PARTY	
NOTICE OF DEATH	Lodged by	
	Address: Thomas Renpon & Son	
	61 - 9850 Phone No.: 0 MARKET ST. SYCOUL) Documents lodged herewith.	
	1CTT	
Checked REGISTERED	2	
Passed 2,-10-1973	4	
Signed Journation	5 Received Receiving	
	AUTHORITY FOR USE OF INSTRUMENT OF TITLE(*)	
ļ.,	Authority is hereby given for the use of	(h) Unless the instru- ment of title has been lodged by the person lodging the dealing, or its use has been autho- rise use has been autho- rised previously, the authority than penso luminhed by that be luminhed to the penso of title, grant dealers
60091 10-1	(insert reference to certificates, grants or dealings)	successful the person otherwise entitled to dalivery of the certificate
	in connection with for the for the	
	registration of this dealing and for delivery to	
, X O	(BLOCK LETTERS)	
	Signature	
	Name (BLOCK LETTERS)	

ST 4710-2 K 1229

PPOR







NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE ------23/8/2021 4:43PM

FOLIO: 125/755557

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10407 FOL 160

Recorded	Number	Type of Instrument	C.T. Issue
3/12/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
24/1/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
26/4/1991		AMENDMENT: TITLE DIAGRAM	
21/11/2003	AA181546	MORTGAGE	EDITION 1
20/12/2006	AC821132	DEPARTMENTAL DEALING	
26/5/2008	AD975108	DISCHARGE OF MORTGAGE	
26/5/2008	AD975110	NOTICE OF DEATH	EDITION 2
18/7/2012	AH120656	DEPARTMENTAL DEALING	
21/8/2017	DP1232259	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS
4/8/2020	AQ294846	DEPARTMENTAL DEALING	

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

LS023209\_EP - 201 South Arm Road

PRINTED ON 23/8/2021

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

FOLIO: 2/1232259

-----

First Title(s): VOL 2049 FOL 180 Prior Title(s): 125/755557

Number	Type of Instrument	C.T. Issue
DP1232259	DEPOSITED PLAN	FOLIO CREATED EDITION 1
AM925221	APPLICATION FOR RECORDING OF ACTION AFFECTING CROWN HOLDING	
AQ294846	DEPARTMENTAL DEALING	
AQ473258	TRANSFER	EDITION 2
	DP1232259 AM925221 AQ294846	AM925221       APPLICATION FOR RECORDING OF ACTION AFFECTING CROWN HOLDING         AQ294846       DEPARTMENTAL DEALING

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

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Form Number:01T-e Template Number:t\_nsw18 ELN Document ID:552829488 ELN NOS ID: 552829489

## TRANSFER

New South Wales Real Property Act 1900 Land Registry Document Identification



#### Stamp Duty: 9912950-001

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

#### LODGED BY:

Responsible Subscriber:	GENERAL LEGAL PTY LTD ABN 19637484032
Address:	PO BOX 75 Urunga 2455
Telephone:	
ELNO Subscriber Number:	1373481
Customer Account Number:	505733
<b>Document Collection Box:</b>	1W
Client Reference:	KF Riddel

#### LAND TITLE REFERENCE

2/1232259

#### TRANSFEROR

JUDITH LANGFORD RIDDEL

#### TRANSFEREE

ROBERT BRUCE RIDDEL

Tenancy: Sole Proprietor

#### CONSIDERATION

The transferor acknowledges receipt of the consideration of \$450,000.00

## ESTATE TRANSFERRED

FEE SIMPLE

The Transferor transfers to the Transferee the Estate specified in this Instrument and acknowledges receipt of any Consideration shown.

#### SIGNING FOR TRANSFEROR

I certify that:

- 1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
- 2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
- 3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
- 4. The Certifier has taken reasonable steps to verify the identity of the transferor.

#### Party Represented by Subscriber:

JUDITH LANGFORD RIDDEL

Signed By: Karen Lisa Fawcett	Signer Capacity: Practitioner Certifier
ELNO Signer Number: 3898349	Digital Signing Certificate Number:

Signed for GENERAL LEGAL PTY LTD ABN 19637484032 Subscriber:

GENERAL LEGAL PTY LTD

Subscriber Capacity:Representative Subscriber ELNO Subscriber Number: 1373481 Date: 15/10/2020

Customer Account Number: 505664

## SIGNING FOR TRANSFEREE

I certify that:

- 1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
- 2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
- **3.** The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
- 4. The Certifier has taken reasonable steps to verify the identity of the transferee.

#### Party Represented by Subscriber:

ROBERT BRUCE RIDDEL

Signed By: Karen Lisa ELNO Signer Number:		Signer Capacity: Practitioner Certifier Digital Signing Certificate Number:
Signed for Subscriber:	GENERAL LEGAL PTY LTD GENERAL LEGAL PTY LTD	
Subscriber Capacity:F	Representative Subscriber	

Subscriber Capacity:Representative Subscriber ELNO Subscriber Number: 1373481 Date: 15/10/2020

Customer Account Number:505664





NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH \_\_\_\_\_

FOLIO: 2/1232259

LAND

SERVICES

SEARCH DATE	TIME	EDITION NO	DATE
23/8/2021	4:42 PM	2	15/10/2020

#### LAND \_ \_ \_ \_

LOT 2 IN DEPOSITED PLAN 1232259 AT URUNGA LOCAL GOVERNMENT AREA BELLINGEN PARISH OF SOUTH BELLINGEN COUNTY OF RALEIGH TITLE DIAGRAM DP1232259

FIRST SCHEDULE \_\_\_\_\_

ROBERT BRUCE RIDDEL

(T AQ473258)

SECOND SCHEDULE (2 NOTIFICATIONS)

\_\_\_\_\_

- LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND 1 CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
- 2 LAND EXCLUDES THE ROAD(S) SHOWN IN THE TITLE DIAGRAM

#### NOTATIONS

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NOTE: THIS FOLIO MAY BE ASSOCIATED WITH A CROWN TENURE WHICH IS SUBJECT TO PAYMENT OF AN ANNUAL RENT. FOR FURTHER DETAILS CONTACT CROWN LANDS.

UNREGISTERED DEALINGS: NIL

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

LS023209\_EP - 201 South Arm Road

\* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

Reg:R406633 /Doc:CT 10407-161 CT /Rev:20-Jan-2011 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 1 © Office of the Registrar-General /Src:INFOTRACK /Ref:LS023209\_EP - 201 South Arm Road :23-Aug-2021 18:20 10407161 FICATE OF TITLE ERTY ACT, 1900, as amended. NEW SOUTH WALES 16110407 Vol. Prior Title (Crown Grant) Vol. 2137 Fol. 10 28-9-1966 Edition issued -DM. K427568 I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within 10407 described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule. Witness S. Vandine WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE Registrar General. PLAN SHOWING LOCATION OF LAND (Page 1) Vol. 120 121 69 PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON 100 # 126 125 not include This area does 64 acres. Area the road shown in the area of the plan hereon. 1427568. 2PB 20 chains to one inch Scale: ESTATE AND LAND REFERRED TO Estate in Fee Simple in Portion 126 in the Shire of Bellingen, Parish of South Bellingen and County of Raleigh, excepting thereout the road shown in the plan hereon and the minerals reserved by the Crown Grant atam Registrar General. FIRST SCHEDULE (continued overleaf). Farmer. Hrunga. ARCHIBALD STEWART Jatson/ Registrar General. SECOND SCHEDULE (continued overleaf). GRM) 1. Reservations and conditions, if any, contained in the Crown Grant above referred to Jatson Registrar General.

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SECOND SCHEDULE (continued)		
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			SECOND SCHEDULE (continued)			·····	
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NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED







NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

FOLIO: 126/755557

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10407 FOL 161

Recorded	Number	Type of Instrument	C.T. Issue
3/12/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
24/1/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
26/4/1991		AMENDMENT: TITLE DIAGRAM	
21/11/2003	AA181546	MORTGAGE	EDITION 1
20/12/2006	AC821132	DEPARTMENTAL DEALING	
26/5/2008	AD975109	DISCHARGE OF MORTGAGE	
26/5/2008	AD975110	NOTICE OF DEATH	EDITION 2
18/7/2012	AH120656	DEPARTMENTAL DEALING	
21/8/2017	DP1232259	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS
4/8/2020	AQ294846	DEPARTMENTAL DEALING	

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

LS023209\_EP - 201 South Arm Road

PRINTED ON 23/8/2021

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

FOLIO: 3/1232259

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First Title(s): VOL 2137 FOL 10
Prior Title(s): 126/755557

Recorded	Number	Type of Instrument	C.T. Issue
21/8/2017	 DP1232259	DEPOSITED PLAN	FOLIO CREATED
, 0, _0	21200200		EDITION 1
5/12/2017	AM925221	APPLICATION FOR RECORDING OF ACTION AFFECTING CROWN HOLDING	
4/6/2018	DP1242996	DEPOSITED PLAN	FOLIO CANCELLED
4/8/2020	AQ294846	DEPARTMENTAL DEALING	

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

LS023209\_EP - 201 South Arm Road

PRINTED ON 23/8/2021

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Req:R406681 /Doc:CT 10250-177 CT /Rev:19-Jan-2011 /NSW LRS /Pgs:ALL /Prt:23-Aug-2021 1 © Office of the Registrar-General /Src:INFOTRACK /Ref:LS023209\_EP - 201 South Arm Road 23-Aug-2021 18: 10250177 TIFICATE OF TITLE NEW SOUTH WALES PERTY ACT, 1900, as amended. 7 Prior Title (Crown Grant) LB. Vol. 1345 Fol. 221. Edition issu 177 K143573. I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the rand within described subject nevertheless to such exceptions another the state in the rand within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule. 10250110 4 Hosff Witness M WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE Registrar General. PLAN SHOWING LOCATION OF LAND SEE AUTO FOLIO (Page 1) Vol NID SQ40 CLOSED ROAD 8 PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON 2000 LKS. CL<u>OSED</u> 79 275 119 40 ac. 2000 Lks 69 120 10 Chains Scale : to one inch K1435737 ESTATE AND LAND REFERRED TO Estate in Fee Simple in Portion 79 in the Shire of Bellingen Parish of South Bellingen and County the Crown Grant. of Raleigh. Excepting thereout the minerals reserved by Registrar General. FIRST SCHEDULE (continued overleaf) EVINS BARTLETT, of Urunga, Farmer GRM Registrar General. SECOND SCHEDULE (continued overleaf) 1. Reservations and conditions, if any, contained in the Grown Grant above referred to. Registrar General.

62/62

PT 1, 17 V.C.N. Blight, Government Printer

Req:R4066 © Office

			FIRST SCHEDULE (continued)			·		
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Req:R406682 /Doc:CT 10250-179 CT /Rev:19-Jan-2011 /NSW LRS /Pgs:ALL © Office of the Registrar-General /Src:INFOTRACK /Ref:LS023209\_EP --Aug-2021 18:43 - 201 South Arm Road 10250179 **FIFICATE OF TITLE** NEW SOUTH WALES PERTY ACT, 1900, as amend<mark>ed.</mark> 79Prior Title (Crown Grant) LB. Vol. 1345 Fol. 223. 170 Edition K143573. I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate The Folded within 0250 described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second, Schedule. 6 1800/1 Witness Registrar General. SEE AUTO FOLIO PLAN SHOWING LOCATION OF LAND (Page 1) Vol 79 2000 Lks. PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON 40ac. 120 121 69 2000 LAS R040 100 WIDE 126 K143573 DT Scale: 10 Chains to one inch ESTATE AND LAND REFERRED TO Estate in Fee Simple in <u>Portion 120</u> in the Shire of <u>Bellingen</u> Parish of South Bellingen and County of Raleigh. Excepting thereout the minerals reserved by the Crown Grant. Registrar General. FIRST SCHEDULE (continued overleaf) Urunga Farmer CLIFFORD FVINS Registrar General. GRM SECOND SCHEDULE (continued overleaf) 1. Reservations and conditions, if any, contained in the Crown Grant above referred to. Registrar General.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED
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or Parish Maps issued by the . Dept. of Lands or shown in . plans filed in the Office of the Registrar General (e.g., "and		Parish	Whole or Part	Vol.	Fol.	(if part only) •
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be annexed to or endorsed on this transfer form.			WHOLE	10250	177	
A very short note will suffice.			WHOLE	10250	178	
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Wales may be proved if this instrument is signed or a signed before the			WHOLE	8172	234	
Registrar General, or Deputy Registrar General, or Deputy Notary Fublic, a J.P., or Commissioner for Affidavits, for whom the Transferor is known, otherwise the attest- ing witness should appear before one of the above functionaries, who having questioned the witness should sign the certificate on the back of this form.		and the second	ABRANCES, & prvation o		<ul> <li>A second s</li></ul>	
As to instruments executed elsewhere, see Section 107 of	Signed at Belli	ncen	the	Twenty nume	day of	august, 1966
the Real Property Act, 1900, Section 168 of the Con- veyancing Act, 1919, and Section 52A of the Evidence	Signed in my press				· (? )]	$\mathcal{O}$
Section 52A of the Evidence Act, 1898.	WHO IS PERSONALLY KN			/U 	7 you	Transferor
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Repeat attestation if neces- sary. If the Transferor or Trans- feree signs by a mark, the attestation must state "that the instrument was read over or successful to burn and	<sup>b</sup> Signed	S'oliutor Been	<b>X</b>	+ Arcen	·-1 and I her	eby certify this Transfer to b
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No alterations should be made by erasure. The words rejected should be scored through with the pen, and those substituted written over them, the alteration being verified by signature or initials in the margin, or noticed in the attestation. St 437-W K 1165 V. C. N. Bught, Government Printer

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SEARCH DATE ------23/8/2021 6:43PM

FOLIO: 79/755557

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First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10250 FOL 177

Recorded	Number	Type of Instrument	C.T. Issue
3/12/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
2/2/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
26/4/1991		AMENDMENT: TITLE DIAGRAM	
1/7/2009	AE799181	TRANSMISSION APPLICATION	EDITION 1
4/6/2018	DP1242996	DEPOSITED PLAN	FOLIO CANCELLED

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

LS023209\_EP - 201 South Arm Road

PRINTED ON 23/8/2021







SEARCH DATE ------23/8/2021 6:43PM

FOLIO: 120/755557

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10250 FOL 179

Recorded	Number	Type of Instrument	C.T. Issue
3/12/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
2/2/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
26/4/1991		AMENDMENT: TITLE DIAGRAM	
1/7/2009	AE799181	TRANSMISSION APPLICATION	EDITION 1
4/6/2018	DP1242996	DEPOSITED PLAN	FOLIO CANCELLED

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

LS023209\_EP - 201 South Arm Road

PRINTED ON 23/8/2021

	strar-General /Src:INFOTR 3 IF A			2
by this form for the es	tion 31B of the Real Property Act 1	900 (RP Act) authorises the ne Real Property Act Regist	ter. Section 96B RP Act requires that the Regis	juired iter-is
STAMP DUTY	Office of State Revenue use only		CALCENT NSW TIGOSOFY	44
(A) TORRENS TITLE	Identifier 2/8()4995, 79/755557 275/755557, Volume 13508 Fo	7, 69/755557, 120/7555 olio 243	557, 449/755557, 195/755557, 274/75555	7,
(B) <b>REGISTERED</b> <b>DEALING</b>	Number	]`or	rens Title	
(C) LODGED BY	Document Collection Box BOX 30P L J KAN LLPN 12 Reference (optional):	39190	- RIDDEL	
(D) DECEASED REGISTERED PROPRIETOR	ROY GORDON RIDDEL		·	
(E) APPLICANT ≫	JUDITH LANGFORD RIDDEL			
	30 March 2008 ) pursuan	t to probate C ( the original o	of which is lodged herewith) apply to be registe	nted
(G)		1900 by th Signature: Signatory'	correct for the purposes of the Real Property Ad he person whose signature appears below.	ct
(H) CONSENT OF EXI I, WILLIAM HE	E <b>CUTOR, ADMINISTRATOR OR TRI</b> RD	JSTEE		
executor of the v Signature of with Name of witness: Address of witnes	ess: 1 if ( in the cas		ased registered proprietor, consent to this application of executor (	ion.
Office use only – Evidence sighted/sighte All handwriting must b	ed and returned: MER.	Page 1 of 1	Number additional pages sequent	]} tially

### STATUTORY DECLARATION

I, WILLIAM HERD of 13 Park Avenue, Coffs Harbour in the State of New South Wales, Accountant, do solemnly and sincerely declare that:

- I am the Executor of the Will of the late Roy Gordon Riddel who died on 30 March 2008.
- 2. Prior to his death I had known Roy Gordon Riddel for 26 years.
- 3. I confirm that Roy Gordon Riddell noted on Certificate of Title Folio Identifier 2/804995 is the same person as Roy Gordon Riddel.
- 4. I confirm that Reg Gordon Riddel as noted on Certificates of Title Folio Identifiers 79/755557, 69/755557 and 120/755557 is the same person as Roy Gordon Riddel as noted on Volume 10250 Folio 177, Volume 11147 Folio 178 and Volume Folio10250 Folio 179 respectively.

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900.

Subscribed and Declared ) ) LOFKS HARSON at ) 2009 ý June 2009 this IS day of William Herd Before me:

J.P. No 114695

Solicitor / Justice of the Peace



/Seq:2

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				FIRST SCHED	ULE (continued)		,	<u>.</u>	, 17 V.C.N. Bligh	it, Government Printer	ka sa
	REGISTERED PROPRIETOR						INSTRUMENT		ENTERED	Signature of Registrar-General	
<del>.</del>						NATURE	NUMBER	DATE		Registrar-General	
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Roy Cordon	Riddel of Cof	Fla-Harbour,	<del>Centist end Joyco Eirene Ri</del>	iddel and ife a	<del>s Joint-Tenants -</del>		<u> </u>	28-5-1969	2-10-1969		
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NATURE			SEE AUTO FOLIO	· · ·	DULE (continued)	ENTERED R					
NATURE	INSTRUMENT NUMBER		SEE AUTO FOLIO	· · ·	• / /	ENTERED R				Junicitary	
1000t3860	NUMBER		SEE AUTO FOLIO	· · ·	DULE (continued)			lucharged		Junicijeme	
l'ont-coro	NUMBER		SEE AUTO FOLIO	· · ·	• / /					Junicipan	
102t3850	NUMBER		SEE AUTO FOLIO	· · ·	• / /					Junicia	
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1627t3250	NUMBER		SEE AUTO FOLIO	· · ·	• / /					Junicipanov	
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INSTRUMENT			PARTICULARS	i i	ENTERED	Signature of CANCELLATION			
NATURE	NUMBER	DATE		1		Registrar-General			<u> </u>
<del>02\$3880</del>	<u>U 526524</u>	<u>29-5-1969</u>	to Archibald Storart Croabio of Dranga, Marie		<u>2-10-1969</u>	Junitation	slucharged	M802417	dri
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THE REGISTRAR GENERAL'S OFFICE

RG 2/64

	FIRST SCHEDULE (continued)				
3	REGISTERED PROPRIETOR	INSTRUMENT NATURE NUMBER			Signature of Registrar General
7			NUMBER		Negistrat General
5					
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20	CANGELLED				
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© Office of the Registrar-

-243 CT / -General

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INSTRU	(ENT	SECOND SCHEDULE (continued)				
NATURE	NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELL	ATION
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NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

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SEARCH DATE ------23/8/2021 7:49PM

FOLIO: AUTO CONSOL 13508-243

Recorded Number Type of Instrument C.T. Issue

1/7/2009	AE799181	TRANSMISSION APPLICATION	EDITION 1
13/6/2012	DP1176067	DEPOSITED PLAN	
25/9/2012	AH148519	REQUEST	
1/11/2012	AH338311	DEPARTMENTAL DEALING	
9/1/2013	AH473819	PARCELS EXCISED. CONSOL BROKEN UP	

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

LS023209\_EP - 201 South Arm Road

PRINTED ON 23/8/2021







SEARCH DATE ------23/8/2021 7:15PM

FOLIO: 102/1237204

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			VOL 1906 FOL 151 VOL 3099 FOL 76 1-2/1176067 1/1232259	VOL 8172 FOL	
Record  27/11/2		Number  DP1237204	Type of Instrumen  DEPOSITED PLAN	t -	C.T. Issue  FOLIO CREATED EDITION 1
4/6/2	018	DP1242996	DEPOSITED PLAN		FOLIO CANCELLED

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









FOLIO: 200/1242996

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	Title(s): Title(s):	VOL 1906 F( VOL 3099 F( VOL 8172 F( VOL 1345 F( 8/252796 120/755557 102/123720	DL 74 DL 234 DL 223	VOL VOL	3099	FOL FOL	76
Recorded	Number	Type of In	strumen	t -			C.T. Issue
4/6/2018	DP1242996	DEPOSITED 1	PLAN				FOLIO CREATED EDITION 1
17/7/2018	AN510010	APPLICATION ACTION AFF				-	
4/8/2020	AQ294846	DEPARTMENT	AL DEAL	ING			
15/10/2020	AQ473239	TRANSFER					EDITION 2

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

LS023209\_EP - 201 South Arm Road

PRINTED ON 23/8/2021





NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH \_\_\_\_\_

FOLIO: 200/1242996

LAND

SERVICES

SEARCH DATE	TIME	EDITION NO	DATE
23/8/2021	4:42 PM	2	15/10/2020

### LAND

\_ \_ \_ \_

LOT 200 IN DEPOSITED PLAN 1242996 AT URUNGA LOCAL GOVERNMENT AREA BELLINGEN PARISH OF SOUTH BELLINGEN COUNTY OF RALEIGH TITLE DIAGRAM DP1242996

FIRST SCHEDULE \_\_\_\_\_

TOOTHACHES PTY LTD

(T AQ473239)

SECOND SCHEDULE (3 NOTIFICATIONS)

\_\_\_\_\_

- LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND 1 CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
- 2 AI586912 RESTRICTION(S) ON THE USE OF LAND AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 3 DP1242996 RESTRICTION(S) ON THE USE OF LAND REFERRED TO AND NUMBERED (3) IN THE S.88B INSTRUMENT

#### NOTATIONS

\_\_\_\_\_

NOTE: THIS FOLIO MAY BE ASSOCIATED WITH A CROWN TENURE WHICH IS SUBJECT TO PAYMENT OF AN ANNUAL RENT. FOR FURTHER DETAILS CONTACT CROWN LANDS.

UNREGISTERED DEALINGS: NIL

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

LS023209\_EP - 201 South Arm Road

\* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.



Earth Water Consulting Pty Limited 2-16 Lourdes Avenue Urunga NSW 2455

eurofins



NATA Accredited Accreditation Number 1261 Site Number 18217

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

Attention:
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Strider Duerinckx

Report	
Project name	
Project ID	
Received Date	

	817483-S	
	URUNGEN	
	2021-83	
	Aug 16, 2021	
)		

Client Sample ID			S-1	S-2	S-3	ASS1_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au29715	S21-Au29716	S21-Au29717	S21-Au29718
Date Sampled			Aug 12, 2021	Aug 12, 2021	Aug 12, 2021	Aug 12, 2021
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	-
а-НСН	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-HCH	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	-
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-HCH (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	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
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	-
Dibutylchlorendate (surr.)	1	%	98	114	133	-
Tetrachloro-m-xylene (surr.)	1	%	84	114	107	-
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	-



Client Sample ID			S-1	S-2	S-3	ASS1_0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
			S21-Au29715	S21-Au29716	Son S21-Au29717	Son S21-Au29718
Eurofins Sample No.						
Date Sampled			Aug 12, 2021	Aug 12, 2021	Aug 12, 2021	Aug 12, 2021
Test/Reference	LOR	Unit		-	-	
Organophosphorus Pesticides						
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	-
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	%	109	119	147	-
Heavy Metals						
Arsenic	2	mg/kg	5.7	4.6	2.7	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	14	20	16	-
Copper	5	mg/kg	19	16	9.5	-
Lead	5	mg/kg	9.2	11	9.4	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	< 5	6.0	< 5	-
Zinc	5	mg/kg	27	45	20	-
% Moisture	1	%	38	50	33	-
Acid Sulfate Soils Field pH Test		-				
pH-F (Field pH test)*	0.1	pH Units	-	-	-	6.0
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	-	-	4.0
Reaction Ratings* <sup>S05</sup>	-	comment	-	-	-	2.0



Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled			ASS1_0.6-0.8 Soil S21-Au29719 Aug 12, 2021	ASS1_1.0-1.2 Soil S21-Au29720 Aug 12, 2021	ASS2_0.3-0.5 Soil S21-Au29721 Aug 12, 2021	ASS2_0.6-0.8 Soil S21-Au29722 Aug 12, 2021
Test/Reference	LOR	Unit				
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	5.4	5.2	6.1	6.1
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	4.4	4.2	2.8	3.9
Reaction Ratings*505	-	comment	2.0	2.0	2.0	2.0

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled			ASS2_1.0-1.2 Soil S21-Au29723 Aug 12, 2021	ASS3_0.4-0.6 Soil S21-Au29724 Aug 12, 2021	ASS3_0.6-0.8 Soil S21-Au29725 Aug 12, 2021	ASS3_1.0-1.2 Soil S21-Au29726 Aug 12, 2021
Test/Reference	LOR	Unit				
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	5.8	5.7	5.4	5.2
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	4.7	3.9	4.2	4.0
Reaction Ratings* <sup>S05</sup>	-	comment	2.0	2.0	2.0	2.0



#### Sample History

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

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

Description	<b>Testing Site</b>	Extracted	Holding Time
Organochlorine Pesticides	Sydney	Aug 19, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Aug 19, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Aug 19, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Acid Sulfate Soils Field pH Test	Sydney	Aug 19, 2021	7 Days
- Method: LTM-GEN-7060 Determination of field pH (pHF) and field pH peroxide (pHFOX) tests			
% Moisture	Sydney	Aug 17, 2021	14 Days

- Method: LTM-GEN-7080 Moisture

6.5	eurofi	ne			Australia								New Zealand	
1	50 005 085 521 web:	Env	u email: EnviroSal		Melbourne 6 Monterey Road Dandenong South VIC 3 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254	U 175 1 0 L 4 P	ydney nit F3, E 6 Mars I ane Cov hone : + ATA # 2	Road ve West •61 2 99	NSW 2		Perth 46-48 Banksia Road Welshpool WA 6106 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone: -61 2 4968 8448 NATA # 1261 Site # 25079	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 767 Phone : 0800 856 450 IANZ # 1290
	mpany Name: dress:	Earth Water 2-16 Lourdes Urunga NSW 2455	Consulting Pt s Avenue	y Limited			R( Pl	rder N eport none: ax:	#:	817483 0402 6083 96		Received: Due: Priority: Contact Name:	Aug 16, 2021 8:35 Aug 23, 2021 5 Day Strider Duerinckx	АМ
	oject Name: oject ID:	URUNGEN 2021-83										Eurofins Analytical S	ervices Manager : Ar	ndrew Black
		Sa	mple Detail			Acid Sulfate Soils Field pH Test	Metals M8	Suite B14: OCP/OPP	Moisture Set					
	oourne Laborato													
	ney Laboratory					X	X	Х	X					
	bane Laborator													
	h Laboratory - N													
	field Laboratory		25079											
Exte No	rnal Laboratory Sample ID	Sample Date	Sampling	Matrix	LAB ID									
		•	Time											
1	S-1	Aug 12, 2021		Soil	S21-Au29715		X	Х	Х					
2	S-2	Aug 12, 2021		Soil	S21-Au29716		X	X	X					
3	S-3	Aug 12, 2021		Soil	S21-Au29717		Х	Х	Х					
4 -	ASS1_0.3-0.5			Soil	S21-Au29718	X								
5	ASS1_0.6-0.8			Soil	S21-Au29719	X			<u> </u>					
6	ASS1_1.0-1.2			Soil	S21-Au29720	X								
7	ASS2_0.3-0.5			Soil	S21-Au29721	X								
8	ASS2_0.6-0.8			Soil	S21-Au29722	X								
9	ASS2_1.0-1.2	Aug 12, 2021		Soil	S21-Au29723	Х								

🔆 eurofir	19		Australia								New Zealand	
NBN: 50 005 085 521 web: w	Environ	nent Testing	Melbourne 6 Monterey Road Dandenong South VIC 3 Phone : +61 3 8564 5000 NATA # 1261 Site # 125 m	U 175 1 0 L 4 P	hone : +	Road ve Wes +61 2 9		Brisbane 1/21 Smallwood Place Murarrie QLD 4172 6 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	Perth 46-48 Banksia Road Welshpool WA 6106 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone: - 664 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 767 Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	Earth Water Consu 2-16 Lourdes Aver Urunga NSW 2455				R Pl	rder l eport hone: ax:	#:	817483 0402 6083 96		Received: Due: Priority: Contact Name:	Aug 16, 2021 8:35 Aug 23, 2021 5 Day Strider Duerinckx	АМ
Project Name: Project ID:	URUNGEN 2021-83								1	Eurofins Analytical S	ervices Manager : Ar	ndrew Black
	Sample	Detail		Acid Sulfate Soils Field pH Test	Metals M8	Suite B14: OCP/OPP	Moisture Set					
Melbourne Laborator	•	4					$\left  \right $					
Sydney Laboratory -				X	X	Х	X					
Brisbane Laboratory		4				-	+					
Perth Laboratory - NA Mayfield Laboratory ·							+					
External Laboratory	- NATA Sile # 23079						+					
10 ASS3_0.4-0.6 /	Aug 12, 2021	Soil	S21-Au29724	х			+					
11 ASS3_0.6-0.8		Soil	S21-Au29725	X								
12 ASS3_1.0-1.2		Soil	S21-Au29726	Х								
Test Counts	- · ·	•	•	9	3	3	3					



#### Internal Quality Control Review and Glossary

#### General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site 1. Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued. 9.

#### **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	US Department of Defense Quality Systems Manual Version 5.3
СР	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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 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.
- 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 5. 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-HCH	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-HCH	mg/kg	< 0.05	0.05	Pass	
d-HCH	mg/kg	< 0.05	0.05	Pass	
Dieldrin	mg/kg	< 0.05	0.05	Pass	
Endosulfan I	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-HCH (Lindane)	mg/kg	< 0.05	0.05	Pass	
Heptachlor		< 0.05	0.05	Pass	
•	mg/kg				
Heptachlor epoxide	mg/kg	< 0.05	0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05	0.05	Pass	
Methoxychlor	mg/kg	< 0.05	0.05	Pass	
Toxaphene	mg/kg	< 0.1	0.1	Pass	
Method Blank		I I			
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			· · ·	•	
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	mg/kg			1 400	
Organochlorine Pesticides				1	
Chlordanes - Total	%	102	70-130	Pass	
4.4'-DDD	%	102	70-130	Pass	
4.4'-DDE	%	105	70-130	Pass	
4.4'-DDT	%	113	70-130	Pass	
a-HCH	%	110	70-130	Pass	
Aldrin	%	107	70-130	Pass	
b-HCH	%	98		Pass	
d-HCH			70-130	Pass	
Dieldrin	%	106 96	70-130	Pass	
Endosulfan I	<u>%</u>	103	70-130	Pass	
			70-130		
Endosulfan II	%	99	70-130	Pass	
Endosulfan sulphate	%	111	70-130	Pass	
Endrin	%	113	70-130	Pass	
Endrin aldehyde	%	94	70-130	Pass	
Endrin ketone	%	117	70-130	Pass	
g-HCH (Lindane)	%	109	70-130	Pass	
Heptachlor	%	111	70-130	Pass	
Heptachlor epoxide	%	110	70-130	Pass	
Hexachlorobenzene	%	102	70-130	Pass	
Methoxychlor	%	114	70-130	Pass	
LCS - % Recovery		1		1	
Organophosphorus Pesticides				-	
Diazinon	%	97	70-130	Pass	
Dimethoate	%	85	70-130	Pass	
Ethion	%	97	70-130	Pass	
Fenitrothion	%	92	70-130	Pass	
Methyl parathion	%	105	70-130	Pass	
Mevinphos	%	101	70-130	Pass	
LCS - % Recovery				1	
Heavy Metals					
Arsenic	%	109	80-120	Pass	
Cadmium	%	111	80-120	Pass	
Chromium	%	114	80-120	Pass	
Copper	%	112	80-120	Pass	
Lead	%	110	80-120	Pass	



Те		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Mercury			%	111			80-120	Pass	
Nickel			%	114			80-120	Pass	
Zinc			%	113			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	W21-Au31633	NCP	%	109			70-130	Pass	
4.4'-DDD	W21-Au31633	NCP	%	114			70-130	Pass	
4.4'-DDE	W21-Au31633	NCP	%	117			70-130	Pass	
4.4'-DDT	W21-Au31633	NCP	%	125			70-130	Pass	
a-HCH	W21-Au31633	NCP	%	116			70-130	Pass	
Aldrin	W21-Au31633	NCP	%	114			70-130	Pass	
b-HCH	W21-Au31633	NCP	%	103			70-130	Pass	
d-HCH	W21-Au31633	NCP	%	112			70-130	Pass	
Dieldrin	W21-Au31633	NCP	%	105			70-130	Pass	
Endosulfan I	W21-Au31633	NCP	%	105			70-130	Pass	
Endosulfan II	W21-Au31633	NCP	%	104			70-130	Pass	
Endosulfan sulphate	W21-Au31633	NCP	%	119			70-130	Pass	
Endrin	W21-Au31633	NCP	%	117			70-130	Pass	
Endrin aldehyde	S21-Au27934	NCP	%	80			70-130	Pass	
Endrin ketone	W21-Au31633	NCP	%	123			70-130	Pass	
g-HCH (Lindane)	W21-Au31633	NCP	%	114			70-130	Pass	
Heptachlor	W21-Au31633	NCP	%	113			70-130	Pass	
Heptachlor epoxide	W21-Au31633	NCP	%	115			70-130	Pass	
Hexachlorobenzene	W21-Au31633	NCP	%	105			70-130	Pass	
Methoxychlor	W21-Au31633	NCP	%	114			70-130	Pass	
Spike - % Recovery	W21 A001000		70	1 117			10 130	1 433	
Organophosphorus Pesticides				Result 1					
Diazinon	S21-Au27934	NCP	%	84			70-130	Pass	
Dimethoate	S21-Au27934	NCP	%	73			70-130	Pass	
Ethion	S21-Au27934	NCP	%	89			70-130	Pass	
Fenitrothion	S21-Au27934	NCP	%	87			70-130	Pass	
Methyl parathion	S21-Au27934	NCP	%	96			70-130	Pass	
Mevinphos	S21-Au27934	NCP	%	97			70-130	Pass	
Spike - % Recovery			,.				1		
Heavy Metals				Result 1					
Arsenic	S21-Au33144	NCP	%	88			75-125	Pass	
Cadmium	S21-Au33144	NCP	%	90			75-125	Pass	
Chromium	S21-Au23880	NCP	%	117			75-125	Pass	
Copper	S21-Au33144	NCP	%	89			75-125	Pass	
Lead	S21-Au33144	NCP	%	89			75-125	Pass	
Mercury	S21-Au33144	NCP	%	86			75-125	Pass	
Nickel	S21-Au33144	NCP	%	82			75-125	Pass	
Zinc	S21-Au33144	NCP	%	116			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate	I								
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	W21-Au31636	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05			1	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate				-			-		
Organochlorine Pesticides				Result 1	Result 2	RPD			
b-HCH	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	W21-Au31636	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
		NCP			1		30%		
Chlorpyrifos-methyl	W21-Au31636		mg/kg	< 0.2	< 0.2	<1		Pass	
Coumaphos	W21-Au31636	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	W21-Au31636	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	W21-Au31636	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	W21-Au31636	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate			iiig/ikg	<u> </u>	<u> </u>		0070	1 435	
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	S21-Au33371	NCP	mg/kg	< 0.1	< 0.1		30%	Pass	



Duplicate											
Result 1 Result 2 RPD											
% Moisture	S21-Au29716	CP	%	50	42	19	30%	Pass			
Duplicate											
Heavy Metals				Result 1	Result 2	RPD					
Arsenic	S21-Au29717	CP	mg/kg	2.7	3.0	13	30%	Pass			
Cadmium	S21-Au29717	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass			
Chromium	S21-Au29717	CP	mg/kg	16	19	20	30%	Pass			
Copper	S21-Au29717	CP	mg/kg	9.5	13	31	30%	Fail	Q15		
Lead	S21-Au29717	CP	mg/kg	9.4	11	16	30%	Pass			
Mercury	S21-Au29717	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass			
Nickel	S21-Au29717	CP	mg/kg	< 5	< 5	<1	30%	Pass			
Zinc	S21-Au29717	CP	mg/kg	20	22	7.0	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

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

 S05
 Field Screen uses the following fizz rating to classify the rate the samples reacted to the peroxide: 1.0; No reaction to slight. 2.0; Moderate reaction. 3.0; Strong reaction with persistent front. 4.0; Extreme reaction.

#### Authorised by:

Emma Beesley Andrew Sullivan John Nguyen Analytical Services Manager Senior Analyst-Organic (NSW) Senior Analyst-Metal (NSW)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

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

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

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## 🔅 eurofins

## Environment Testing

Earth Water Consulting Pty Limited 2-16 Lourdes Avenue Urunga NSW 2455



NATA Accredited Accreditation Number 1261 Site Number 20794

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

### Attention:

### Strider Duerinckx

Report Project name Project ID Received Date 825929-S ADDITIONAL - URUNGEN 2021-83 Sep 14, 2021

Client Sample ID			ASS2_0.3-0.5
Sample Matrix			Soil
Eurofins Sample No.			S21-Se40078
Date Sampled			Aug 12, 2021
Test/Reference	LOR	Unit	<b>U</b>
SPOCAS Suite	Lon	Offic	
pH-KCL	0.1	pH Units	4.5
pH-OX	0.1	pH Units	4.2
Acid trail - Titratable Actual Acidity	2	mol H+/t	90
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	150
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	56
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	0.14
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	0.24
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	0.09
Sulfur - KCI Extractable	0.02	% S	< 0.02
Sulfur - Peroxide	0.02	% S	< 0.02
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	< 0.02
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	< 10
HCI Extractable Sulfur Correction Factor	1	factor	2.0
HCI Extractable Sulfur	0.02	% S	< 0.02
Net Acid soluble sulfur	0.02	% S	< 0.02
Net Acid soluble sulfur - acidity units	10	mol H+/t	< 10
Net Acid soluble sulfur - equivalent S% pyrite <sup>S02</sup>	0.02	% S	< 0.02
Calcium - KCI Extractable	0.02	% Ca	< 0.02
Calcium - Peroxide	0.02	% Ca	< 0.02
Acid Reacted Calcium	0.02	% Ca	< 0.02
acidity - Acid Reacted Calcium	10	mol H+/t	< 10
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	< 0.02
Magnesium - KCI Extractable	0.02	% Mg	0.02
Magnesium - Peroxide	0.02	% Mg	0.02
Acid Reacted Magnesium	0.02	% Mg	< 0.02
acidity - Acid Reacted Magnesium	10	mol H+/t	< 10
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	< 0.02
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	N/A
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	n/a
Acid Neutralising Capacity - equivalent S% pyrite(s- ANCE)	0.02	% S	N/A
ANC Fineness Factor		factor	1.5
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	0.14
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	90
SPOCAS - Liming rate	1	kg CaCO3/t	7.0



Client Sample ID Sample Matrix			ASS2_0.3-0.5 Soil
Eurofins Sample No.			S21-Se40078
Date Sampled			Aug 12, 2021
Test/Reference	LOR	Unit	
Extraneous Material			
<2mm Fraction	0.005	g	56
>2mm Fraction	0.005	g	< 0.005
Analysed Material	0.1	%	100
Extraneous Material	0.1	%	< 0.1
% Moisture	1	%	10



### Sample History

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

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

Description	Testing Site	Extracted	Holding Time
SPOCAS Suite SPOCAS Suite	Brisbane	Sep 20, 2021	6 Week
- Method: LTM-GEN-7050 Extraneous Material	Brisbane	Sep 23, 2021	6 Week
- Method: LTM-GEN-7050/7070 % Moisture	Brisbane	Sep 20, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

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veb: wv	eurofii ww.eurofins.com.au EnviroSales@eurofins.	Env	Environment Testing		Melbourne 6 Monterey Road Dandenong South VIC 3175 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254		16 Mars Lane Co Phone : -		Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Phone : +61 8 6253 4444 NATA # 2377 Site # 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 76 Phone : 0800 856 450 IANZ # 1290
	mpany Name: dress:	Earth Water 2-16 Lourdes Urunga NSW 2455	Consulting P s Avenue	ty Limited			R P	rder No.: eport #: hone: ax:	825929 0402 6083 96		Received: Due: Priority: Contact Name:	Sep 14, 2021 2:24 Sep 21, 2021 5 Day Strider Duerinckx	РМ
	oject Name: oject ID:	ADDITIONA 2021-83	L - URUNGE	N						I	Eurofins Analytical S	ervices Manager : Ar	ndrew Black
		Sa	mple Detail			SPOCAS Suite	Moisture Set						
	ourne Laborato												
	ey Laboratory					- V		-					
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	rnal Laboratory - N		le <del>π</del> 2310					-					
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	ASS2_0.3-0.5	Aug 12, 2021		Soil	S21-Se40078	Х	Х						
Tost	Counts					1	1						



#### Internal Quality Control Review and Glossary

#### General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site 1. Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued. 9.

#### **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

Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Limit of Reporting.
Addition of the analyte to the sample and reported as percentage recovery.
Relative Percent Difference between two Duplicate pieces of analysis.
Laboratory Control Sample - reported as percent recovery.
Certified Reference Material - reported as percent recovery.
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.
The addition of a like compound to the analyte target and reported as percentage recovery.
A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
United States Environmental Protection Agency
American Public Health Association
Toxicity Characteristic Leaching Procedure
Chain of Custody
Sample Receipt Advice
US Department of Defense Quality Systems Manual Version 5.3
Client Parent - QC was performed on samples pertaining to this report
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.
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 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.
- 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 5. 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
LCS - % Recovery							1	r	
SPOCAS Suite									
pH-KCL			%	100			80-120	Pass	
Acid trail - Titratable Actual Acidity			%	92			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate							1		
SPOCAS Suite				Result 1	Result 2	RPD			
pH-KCL	S21-Se40078	CP	pH Units	4.5	4.5	<1	30%	Pass	
pH-OX	S21-Se40078	CP	pH Units	4.2	4.2	<1	30%	Pass	
Acid trail - Titratable Actual Acidity	S21-Se40078	CP	mol H+/t	90	89	1.0	30%	Pass	
Acid trail - Titratable Peroxide Acidity	S21-Se40078	СР	mol H+/t	150	150	1.0	30%	Pass	
Acid trail - Titratable Sulfidic Acidity	S21-Se40078	CP	mol H+/t	56	57	<1	30%	Pass	
sulfidic - TAA equiv. S% pyrite	S21-Se40078	CP	% pyrite S	0.14	0.14	1.0	30%	Pass	
sulfidic - TPA equiv. S% pyrite	S21-Se40078	СР	% pyrite S	0.24	0.23	1.0	30%	Pass	
sulfidic - TSA equiv. S% pyrite	S21-Se40078	СР	% pyrite S	0.09	0.09	<1	30%	Pass	
Sulfur - KCI Extractable	S21-Se40078	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Sulfur - Peroxide	S21-Se40078	СР	% S	< 0.02	< 0.02	<1	30%	Pass	
Sulfur - Peroxide Oxidisable Sulfur	S21-Se40078	СР	% S	< 0.02	< 0.02	<1	30%	Pass	
acidity - Peroxide Oxidisable Sulfur	S21-Se40078	СР	mol H+/t	< 10	< 10	<1	30%	Pass	
HCI Extractable Sulfur	S21-Se40078	СР	% S	< 0.02	< 0.02	<1	30%	Pass	
Net Acid soluble sulfur	S21-Se40078	СР	% S	< 0.02	< 0.02	<1	30%	Pass	
Net Acid soluble sulfur - acidity units	S21-Se40078	СР	mol H+/t	< 10	< 10	<1	30%	Pass	
Net Acid soluble sulfur - equivalent S% pyrite	S21-Se40078	СР	% S	< 0.02	< 0.02	<1	30%	Pass	
Calcium - KCI Extractable	S21-Se40078	СР	% Ca	< 0.02	< 0.02	<1	30%	Pass	
Calcium - Peroxide	S21-Se40078	СР	% Ca	< 0.02	< 0.02	<1	30%	Pass	
Acid Reacted Calcium	S21-Se40078	СР	% Ca	< 0.02	< 0.02	<1	30%	Pass	
acidity - Acid Reacted Calcium	S21-Se40078	СР	mol H+/t	< 10	< 10	<1	30%	Pass	
sulfidic - Acid Reacted Ca equiv. S% pyrite	S21-Se40078	СР	% S	< 0.02	< 0.02	<1	30%	Pass	
Magnesium - KCI Extractable	S21-Se40078	CP	% Mg	0.02	0.02	1.0	30%	Pass	
Magnesium - Peroxide	S21-Se40078	CP	% Mg	0.02	0.03	2.0	30%	Pass	
Acid Reacted Magnesium	S21-Se40078	CP	% Ma	< 0.02	< 0.02	<1	30%	Pass	
acidity - Acid Reacted Magnesium	S21-Se40078	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
sulfidic - Acid Reacted Mg equiv. S% pyrite	S21-Se40078	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Acid Neutralising Capacity (ANCE)	S21-Se40078	CP	% CaCO3	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity (ARCE) Acid Neutralising Capacity - Acidity units (a-ANCE)	S21-Se40078	СР	mol H+/t	n/a	n/a	N/A	30%	Pass	
ANC Fineness Factor	S21-Se40078	CP	factor	1.5	1.5	<1	30%	Pass	
SPOCAS - Net Acidity (Sulfur Units)	S21-Se40078	СР	% S	0.14	0.14	1.0	30%	Pass	
SPOCAS - Net Acidity (Acidity Units)	S21-Se40078	CP	mol H+/t	90	89	1.0	30%	Pass	
SPOCAS - Liming rate	S21-Se40078	CP	kg CaCO3/t	7.0	7.0	1.0	30%	Pass	



#### Comments

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

#### **Qualifier Codes/Comments**

Code	Description
S02	Retained Acidity is Reported when the pHKCl is less than pH $4.5$

#### Authorised by:

Ursula Long Myles Clark Analytical Services Manager Senior Analyst-SPOCAS (QLD)

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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Company: E							
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Telephone: [	0402608396 strider@ewcon.com.au	Fax:			results required by .		
	SAMPLE DESCRIPTION	TION				ANALYSIS REQUIRED	
	1 P 1 0 4 0 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Soil / Water	Comments#	71-8 80	bH- Leed		
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# Please F	# Please Provide Field PID Readings where possible	where possibl	le Totals:	<u></u>	10 10000	<ul> <li>ananati</li> </ul>	
	Chain of Custody	stody	-	1010	Special Requirement	Special Requirements (eg. OHS issues etc.)	Sample Receipt Advice (Lab Use Only)
Relinquished by:	All	Γ	Durethme 1 2	2814			All Samples Received in Good Condition
Received by:		Date/	Date/Time:				All Documentation in Proper Order
Relinquished by:		Date/	Date/Time:				Samples Received with an Attempt to Chill
Received by:		Date/	Date/Time:				Samples Received Within Holding Times
Relinquished by:		Date	Date/Time:			A	Average sample temp on receipt: (°C)
Received by:		Date	Date/Time:			E	For enquires please quote Ref. No.

From: Strider Duerinckx <<u>strider@ewcon.com.au</u>>
Sent: Tuesday, September 14, 2021 2:24 PM
To: Konstantinos Amiridis <<u>KonstantinosAmiridis@eurofins.com</u>>
Subject: restest of samples for report 817483-S

### EXTERNAL EMAIL\*

Hi Konstantinos, can you organise to have sample ASS2\_0.3-0.5 from report 817483-S tested for SPOCAS.

Regards,

Strider Duerinckx



0/0260839E PO Box 50 Bellingen NSW 2454 strider Øewcon.com.au WWW Iwcon Lom.du

\* WARNING - EXTERNAL: This email originated from outside of Eurofins. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

## APPENDIX D



### Soil Borelog

•		•					Borehole	e No:	BH1	
်	VSUL	TING					Logged by	:	NS	
	SUL	<b>V</b> ·					Drilling da	te:	12/08/	2021
Project	ref:	2021-8	3				Drilling me	thod:	Powere	ed Auger
Client:		RDM					Borehole l	ocation:	Figure	2
Client:     RDM     Borehole location:     Figure 2       Address:     Lot 2 & Lot 200 South Arm Road, Urunga     Borehole coords:     0499385, 6626261       PROFILE DESCRIPTION     Image: Client of the second seco										
PROFI	LE DES	CRIPT	ON							
	Sampling depth/name	Graphic Log	Horizon	Texture	Structure	Colour	Mottles	Coarse Fragments	Moisture Condition	Comments
0.1			A1	Clay loam	Moderate	Greyish Black	Nil	<5%	SM	Topsoil
0.2			B1	Clay loam	Strong	Light Brown		<5%	SM	Residual
0.3										
0.4	_									
0.5	0.0 0.0									
0.6				Lisht Clau	Chucker	Brownich	0.000000	-100/	614	Decidual
0.7	_		ВZ	Light Clay	Strong		Orange	<10%	SIVI	Residual
0.8	0.6-0.8									
0.9										
1.0										
1.1	ASS1_ 1.0-1.2									
1.2					BH terr	ninated at 1.2r	n denth			
1.3					511 (61)					
1.4										
1.5										
		ure co	ondi	tion						
	D SM	Dry Sligh	tly mo	vist	M VM	Moist Very moist		W	Wet	/ saturated



## Soil Borelog

•		•					Borehol	e No:	BH2	
ି	Ne	Borehole No: BH2       Logged by:     NS       2021-83     Drilling date:     12/08/2021       Borehole location: Figure 2       Lot 2 & Lot 200 South Arm Road, Urunga       Borehole location:     Figure 2       Ode data in the second sec								
	SUL	· ·					Drilling da	te:	12/08/	2021
Project	ref:	2021-8	3				Drilling me	ethod:	Power	ed Auger
Client:		RDM					Borehole l	ocation:	Figure	2
Address	5:	Lot 2 &	Lot 2	00 South Ai	rm Road, Ur	runga	Borehole o	coords:	049829	91, 6626081
PROFI	LE DES	CRIPTI	ON							
Depth (m)	Sampling depth/name	Graphic Log	Horizon	Texture	Structure	Colour	Mottles	Coarse Fragments	Moisture Condition	Comments
0.1			A1	Clay loam	Strong	Black	Nil	Nil	SM	Topsoil
0.2			A2	Clay loam	Strong	-	Dull	<5%	SM	Residual
0.3							Orange			
0.4	ASS2_									
0.5	0.3-0.5									
0.6			B1	Light Clay	Strong	Pale Brown	Greyish	<5%	SM	Residual
0.7	ASS2_						вгиоп			
0.8	0.6-0.8									
0.9			B2	Light Clay	Strong		White	<5%	D-SM	Residual
1.0										
1.1	ASS2_ 1.0-1.2									
1.2	1.0 1.2									
1.3					BH terr	ninated at 1.2r	n depth			
1.4										
1.5										
	Moist	ure c	ondi	ition					•	
	D SM	Dry	tly mo		M ∨M	Moist Very moist	:	W	Wet	/ saturated



## Soil Borelog

•		•					Borehole	No:	BH3	
်	WSUL	NNG					Logged by:		NS	
	-30L	<b>V</b> •					Drilling dat	e:	12/08/	2021
Project	ref:	2021-83	3				Drilling me	thod:	Power	ed Auger
Client:		RDM					Borehole lo	ocation:	Figure	2
Addres	s:	Lot 2 &	Lot 2	00 South Ar	m Road, Uri	unga	Borehole c	oords:	049895	56, 6626547
PROFI	LE DES	CRIPTI	ON							
Depth (m)	Sampling depth/name	Graphic Log	Horizon	Texture	Structure	Colour	Mottles	Coarse Fragments	Moisture Condition	Comments
0.1			A1	Clay loam	Moderate	Borwnish Black	Nil	<5%	SM	Topsoil
0.2			A2	Clay Loam	Strong	Pale Brown Grey Brown	Dull	<5%	SM	Residual
0.3 0.4			B1	Clay Loam to Light	Strong	Yellowish Brown	Orange	<5%	SM	Residual
0.5	_			Clay						
0.6	0.4-0.6				Change		\\/bita	N1*1	614	Desidual
0.7	ASS3_ 0.6-0.8		B2	Light Clay	Strong	Dull Orange	White Red	Nil	SM	Residual
0.8										
0.9										
1.0			B3	Light Clay	Strong	Orangish Ded	Nil	Nil	D - SM	Residual
1.1	1.0-1.2			to Medium Clay	C C	Orangish Red & White				
1.2				City	BH ter	minated at 1.2n	n depth			
1.3					2					
1.4										
1.5										
	D SM	Dry Slight			M VM	Moist Very moist		W	Wet	/ saturated

## APPENDIX E

			Nomir	iated	Area Wa	ter Bala	nce &	Storage	Calcula	tions						
Address:	Sth Arm Rd	l, Urunga			Proj Ref:	2021-83									RTH	NA,
Flow Allowance		150	l/p/d		Notes:											- F
No. of bedrooms		4	bdr													
Occupancy		1.5	p/room											•		$\neg$
Design Wastewater Flow	Q	900	L/day													7
Daily DLR		8.0	mm/day												0	41
Crop Factor	С	0.6-0.8	unitless												WSUL	.T.
Retained Rainfall Coefficient	RRc	0.9	untiless													
Void Space Ratio	V	0.3	unitless													
Nominated Land Application Area	Ν	135	sqm													
Trench/Bed wetted thickness	Ww	0.15	m													
Rainfall Data	Un	unga (monthly med	lian)													
Evaporation Data	Coffs Harbo	our Evap Data (mon	thly average)													
Parameter	Symbol D	Formula	Units days	Jan 31	<b>Feb</b> 28	Mar 31	<b>Apr</b> 30	<b>May</b> 31	<b>Jun</b> 30	Jul 31	Aug 31	<b>Sep</b> 30	<b>Oct</b> 31	<b>Nov</b> 30	<b>Dec</b> 31	Тс 3
Days in month Median Rainfall	B	1	days mm/month	31 123.3	28 155.1	31 175.8	30 118.5	31 89.4	30 72.7	31 38.6	28.5	30 39	31 59.7	30 93.1	31 114.8	13
Average Evaporation	E	\ \	mm/month	123.3	156.8	148.8	118.5	86.8	69	77.5	105.4	135	161.2	93.1 171	192.2	13
Crop Factor	C	Ň	minymonth	0.80	0.80	0.80	0.70	0.70	0.60	0.60	0.60	0.70	0.70	0.80	0.80	
OUTPUTS	C			0.80	0.80	0.80	0.70	0.70	0.00	0.00	0.00	0.70	0.70	0.80	0.80	
Evapotranspiration	ET	ExC	mm/month	154	125	119	82	61	41	47	63	95	113	137	154	118
Percolation	В	DLRxD	mm/month	248.0	224	248.0	240.0	248.0	240.0	248.0	248.0	240.0	248.0	240.0	248.0	29
Outputs	5	ET+B	mm/month	401.8	349.44	367.0	321.9	308.8	281.4	294.5	311.2	334.5	360.8	376.8	401.8	41
INPUTS									-							
Retained Rainfall	RR	R*RRc	mm/month	110.97	139.59	158.22	106.65	80.46	65.43	34.74	25.65	35.1	53.73	83.79	103.32	997
Effluent Irrigation	W	(QxD)/L	mm/month	206.7	186.7	206.7	200.0	206.7	200.0	206.7	206.7	200.0	206.7	200.0	206.7	24
Inputs		RR+W	mm/month	317.6	326.3	364.9	306.7	287.1	265.4	241.4	232.3	235.1	260.4	283.8	310.0	34
STORAGE CALCULATION																
Storage remaining from previous month			mm/month		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Storage for the month	S	(RR+W)-(ET+B)	mm/month	-280.4	-77.3	-7.2	-50.8	-72.1	-53.2	-177.0	-263.1	-331.3	-334.8	-310.0	-305.9	-70
Cumulative Storage	М		mm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Maximum Bed Storage Depth for Area	BS		mm	0.00	Is the calculated	d storage accept	able?	Yes, storage i	s conservative							
Nominated tre	ench width	0.9														
Total length based on nomina		150.0														
-	lo. of beds	4														
Individual b		37.5														
Individual Bed	-	33.8														
Spacing bet		1.5														
	f bed area	8.1														
	l bed area	304														
	otake zone	502	2m buffer nutri													