

# **Annual Groundwater Monitoring Report - 2024**

Dingo Gas Field and Surprise Oil Field

Mereenie Oil and Gas Field

Palm Valley Gas Field

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#### 1 Introduction

Central Petroleum Ltd (CTP) operates four oil and gas fields across the Amadeus Basin in the Northern Territory (NT). Conditions of approval of Environmental Management Plans (EMPs) for the field operations required the development of groundwater monitoring plans (GMPs) to demonstrate that there is *no change in the groundwater quality as a result of activities*. The following plans were submitted to the NT Government in accordance with the EMP conditions:

- DIN-630-PLN-0003: Dingo Gas Field and Surprise Oil Field Groundwater Monitoring Plan
- 9900-630-PLN-0002: Mereenie Oil and Gas Field Groundwater Monitoring Plan

In addition, CTP proactively developed the following:

PVL-630-PLN-0001: Palm Valley Gas Field Groundwater Monitoring Plan

This document has been prepared to satisfy the annual EMP reporting requirements of the GMPs for the 2024 calendar year. In accordance with EMP requirements (for example from the Mereenie EMPs) for an interpretative report of groundwater quality, this report includes:

- identification of any change to groundwater quality or level attributable to conduct of the regulated activity and discussion of the significance of and cause of any such change;
- interpretation of any statistical outliers observed from baseline measured values for each of the analytes listed in Table 6 of the Code;
- a summary of the results including descriptive statistics;
- discussion of any trends observed.

CTP will also submit EMP Anniversary Groundwater Reports to satisfy the conditions of the relevant approvals (i.e. 90 days following the EMP approval date).

# 2 Monitoring Scope

The monitoring locations are shown on Figure 1 to Figure 4. Table 1 provides a summary of the scope included in the GMPs and the scope completed during the 2024 calendar year.

The end of wet season monitoring was mostly undertaken in April 2024 and the pre-wet season monitoring was mostly undertaken in October 2024. Actual dates are included with the chemistry results in Appendix A.

Deviations from the GMP scopes included:

- In May 2024, the following items were not or partially completed:
  - A sample was not collected from RN002943 as the pump was removed and the bore was found to be dry; and
  - Water levels could not be measured in RN007292 and RN018732 because they could not be accessed.
- In October 2024, the following items were not completed:
  - A sample was not collected from RN002943 as the pump was removed and the bore was found to be dry;
  - A sample was not collected from RN017657 as the bore was not operational;
     and

 A water level could not be measured in RN007292 and RN01873 because they could not be accessed.

Due to complications with bore pumps and sample transport to labs there were unexpected delays obtaining the second samples from site.

Table 1 Groundwater monitoring locations and scope

Field	Location	Water	Quality	Wate	r Level		lhead ssure	Field Water Quality and Photograph		
		May	October	May	October	May	October	May	October	
Mereenie	RN004620	✓	✓							
	RN018955	✓	✓							
	RN017898	✓	✓							
	RN013861	✓	<b>✓</b>							
	RN017657	×	×							
Dingo	Dingo 2					✓	✓			
	Dingo 3					✓	✓			
	RN002943	✓	✓	✓	✓					
	RN010853	✓	✓	✓	✓					
	RN011831	✓	✓	✓	✓					
	RN017540			✓	✓					
Surprise	Surprise 1					✓	✓			
	Johnstone West 1					✓	✓			
	RN018851	✓	✓	✓	✓					
	RN018397			✓	✓					
	RN018463			✓	✓					
	RN018398			✓	✓					
Palm Valley	Palm Creek Lower Oasis							✓	✓	
	Palm Valley Area Spring No 8							✓	<b>✓</b>	
	Palm Valley Area Spring No 9							✓	<b>✓</b>	
	Pimelia Spring							✓	✓	
	RN006503	✓	✓							
	RN012024	✓	✓							
	RN007292			×	×					
	RN018732			✓	✓					
	RN14165			×	✓					
	RN018706			✓	<b>✓</b>					
	RN018707			✓	<b>✓</b>					
	RN018708			✓	✓					

<sup>\*</sup> Datum = GD94



✓ Partially completed

Not completed

# 3 Water quality monitoring results

The water quality monitoring suite is consistent with Table 6 of the Code of Practice: Onshore Petroleum Activities in the Northern Territory (NTG, 2019).

Water quality monitoring results for the 2024 calendar year are provided in Appendix A.

Quality of the laboratory results is assured, in addition to NATA accredited laboratory internal quality control checks, through the collection of field blind duplicates and calculation of relative percentage differences between primary and duplicate samples. Duplicate samples were however not collected in the April 2024 monitoring event.

Quality assurance results for the October 2024 event are provided in Appendix A. These show good agreement between the primary and duplicate samples (relative percentage differences (RPDs) <30%), therefore the laboratory analyses have acceptable repeatability.

#### 3.1 Comparison with performance criteria

In accordance with the GMPs, the ANZECC (2000) livestock values have been used as interim performance standards while sufficient data is accumulated to develop site-specific performance standards. DES (2021) suggests that a minimum of eight samples are required to develop site-specific performance standards. Eight monitoring events have now been undertaken for most monitoring locations. Site specific performance standards will be developed for the 2025 annual report.

The results of the monitoring are tabulated in Appendix A and have identified the following exceedances of the interim performance standards:

#### • In May 2024:

- Gross Alpha exceeded the ANZECC (2000) livestock guideline value (0.5 Bq/L) in RN013861 (1.29 Bq/L), RN011831 (0.73 Bq/L) and RN006503 (0.63 Bq/L). These bores are in Mereenie, Dingo and Palm Valley GMP areas respectively.
- Gross Beta (excluding k-40) exceeded the ANZECC (2000) livestock guideline value (0.5 Bq/L) inRN004620 (0.52 Bq/L) and RN011831 (0.84 Bq/L). These bores are located at the Mereenie gas field and the Surprise oil field respectively.
- Sulphate exceeded the exceeded the ANZECC (2000) livestock guideline value (1,000 mg/L) in RN013861 (1,370 mg/L). This bore is located in the Mereenie field.

#### • In October 2024:

- Gross Alpha exceeded the ANZECC (2000) livestock guideline value (0.5 Bq/L) in RN013861 (1.21 Bq/L), RN011831 (0.6 Bq/L) and RN006503 (0.75 Bq/L). These bores are in Mereenie, Dingo and Palm Valley GMP areas respectively.
- Gross Beta (excluding k-40) exceeded the ANZECC (2000) livestock guideline value (0.5 Bq/L) inRN004620 (0.61 Bq/L) and RN011831 (0.52 Bq/L). These bores are located at the Mereenie gas field and the Surprise oil field respectively.
- Sulphate exceeded the ANZECC (2000) livestock guideline value (1,000 mg/L) in RN013861 (1,690 mg/L). This bore is located in the Mereenie field.

### 3.2 Trend analysis

A Mann-Kendall test for trend has been performed for all bores and all chemical parameters where there are three or more results. The output of the Mann-Kendall test is included in the bore-by-bore statistical summaries provided as Appendix B. Where the Mann-Kendall test identified a trend (either rising or falling), a timeseries graph of the data was prepared. These graphs are also included in Appendix B.

The trends identified by the Mann-Kendall test are summarised in Table 2 below. Observations with respect to the total dissolved solids trends have been included. Total dissolved solids (TDS) provides an indication of the overall water quality. Despite the trends, none of these parameters exceed the performance criteria.

Table 2 Parameter trends

Field	Location	Parameter	Trend direction	Trend description	Comments
		Electrical conductivity	Falling	Gradual decline in electrical conductivity from a maximum of 1,320 μS/cm in May 2021 to the current value of 1,095 μS/cm.	RN004620 is one of the oldest water supply bores in the Mereenie field. The falling trends indicate a general improvement in water quality. Despite the rising trend in the zinc concentration, the absolute concentration is approximately three orders of magnitude less than ANZECC
		pH (laboratory)	Falling	Some longer term cyclicity apparent in the field measured pH, but with overall gradual long term decline.	2000 livestock drinking water guideline value.
	RN004620	Gross alpha	Falling	Rising trend in gross alpha over 2021/2022, but with subsequent drop in concentration. The 2024 results were roughly equal to the 20th percentile of the results.	
	RNO	Magnesium	Rising	Increase in magnesium concentration from a minimum of 37 mg/L to 42 mg/L in October 2022. The concentration has then been reported at either 41 mg/L or 42 mg/L since.	
d)		Iron	Falling	Concentrations reported between 0.12 mg/L and 0.2 mg/L through 2021 and 2022 but have since been <lor.< td=""><td></td></lor.<>	
Mereenie		Zinc	Rising	Between May 2021 and October 2023 (inclusive) the zinc concentration was less than 0.02 mg/L. In May 2024 it rose to 0.027 mg/L but subsequently reduced to 0.022 mg/L in October 2022.	
	RN018955	Zinc	Rising	No trend in the zinc concentration between May 2021 and May 2023 inclusive. Rising trend since October 2023, with October 2024 reporting the maximum concentration of 0.122 mg/L	RN018955 is located in the West Mereenie field. The increasing trend in only one parameter alludes to natural occurrences or variability or laboratory introduced variability
		Field Electrical conductivity	Falling	Decline in electrical conductivity (EC) from 475 μS/cm in May 2021 to 382 μS/cm October 2024.	RN017898 is regularly used to supply water to site operations.
	RN017898	pH (laboratory)	Falling	Some longer term cyclicity apparent in the laboratory measured pH, but with overall gradual long term decline.  October 2024 reported lowest pH on record – pH 7.	Observed trends suggest a marginal improvement in groundwater quality from this bore.  Laboratory chemistry data from the Bore Report reported
	Ā.	Gross beta	Falling	Decline in gross beta from 0.98 Bq/L in May 2021 to a minimum of 0.61 Bq/l in May 2023. Report at 0.66 Bq/L in October 2024.	electrical conductivity of 445 µS/cm which is very similar to the median of the values reported (441 µS/cm). The trends are attributed to natural variation.

Field	Location	Parameter	Trend direction	Trend description	Comments				
		Potassium	Falling	The reported potassium concentration has varied between 12 mg/L and 14 mg/L between My 2021 and October 2024. While there appears to be a gradual decline in concentration, this is likely to be due to laboratory or natural variation.					
	1861	pH (laboratory)	Falling	Gradual long-term decline in laboratory measured pH, although relatively stable since October 2023.	RN013861 is located in the East Mereenie field and is in regular use. The trends in only a small number of				
	RN013861	Zinc	Rising	Gradual rising zinc concentration from <lor 0.017="" 0.021="" 2021="" 2023,="" a="" but="" falling="" in="" l="" l.<="" maximum="" mg="" october="" of="" subsequently="" td="" to=""><td>parameters alludes to natural variability or laboratory introduced variability</td></lor>	parameters alludes to natural variability or laboratory introduced variability				
rise	8851	Field Electrical conductivity (EC)	Falling	The EC was effectively stable between May 2021 and May 2022. It declined from ~1,410 $\mu$ S/cm to 1,233 $\mu$ S/cm in October 2022 before rising to 1,284 $\mu$ S/cm in October 2023 and then falling to its minimum reported value of 1,139 $\mu$ S/cm in May 2024.	This bore is located at the Surprise oil field, which has been shut-in since August 2015. The bore is rarely used.  The electrical conductivity as measured by the driller was 1,530 µS/cm.  The trends are attributed to natural variation, potentially				
Surprise	RN018851	Nitrite	Falling	Longer term declining trend in nitrite concentrations, with October 2024 reporting the minimum value (9.67 mg/L).	affected by the lack of use and insufficient purging of the bore prior to sample collection.				
		Magnesium	Rising	The magnesium concentration has gradually risen from 38 mg/L in May 2021 to a maximum of 43 mg/L in May 2024 and 42 mg/L in October 2024.					
		Gross alpha	Falling	The gross alpha concentration remained relatively stable between May 2021 and May 2024 inclusive, with a median concentration of 0.78 Bq/L over that period. In October 2024 the concentration was reported as 0.6 Bq/L.	This is a stock bore that is regularly used. It was originally drilled to 373 m and was then deepened to 433 m in 1978. A hydrogeologist's log from the Statement of Bore (SoB) identifies the screened formation as the Hermannsburg				
	<b>-</b>	Fluoride	Rising	There was a rising in the fluoride concentration from 1.1 mg/L prior to October 2023 to 1.2 mg/L from October 2023 through 2024.	Sandstone.  The SoB. includes several sets of chemistry results. The				
Dingo	Dingo RN011831	Calcium	Falling	Calcium shows a similar trend to Gross alpha. It was relatively consistent from May 2021 to May 2024, with a medium concentration of 73 mg/L over that period. In October 2024 the concentration fell to 58 mg/L.	most recent data was from 1987 when the total dissolved solids (TDS) (gravimetric) was reported as 880 mg/L, however the maximum reported TDS was 980 mg/L in 1978. The most recent (October 2024) sample reported 988 mg/L				
		Manganese Falling The May 2021 reported manganese concerns mg/L. It declined relatively rapidly to 0.002 and then decline to 0.001 mg/L in October		The May 2021 reported manganese concentration was 0.008 mg/L. It declined relatively rapidly to 0.002 mg/L in May 2022 and then decline to 0.001 mg/L in October 2023 where it has remained since.	TDS. The groundwater chemistry trends from this bore are attributed to natural variation.				
		Silica	Rising	There has been a gradual rise in the silica concentration from 16.8 mg/L in May 2021 to 18.7 mg/L in October 2024.					

Field	Location	Parameter	Trend direction	Trend description	Comments
		Electrical conductivity	Falling	The EC was relatively stable from May 2021 to May 2022. It then dropped and has effectively remained consistent	RN006503 was drilled to ~487 m in 1969 as an exploration water supply bore for the Hermannsburg Misson, but is now
		pH (Laboratory)	Falling	Gradual long-term decline in laboratory measured pH, although relatively stable since October 2023.	used for stock watering. The bore was cased to ~30 m and open hole below.
		Bicarbonate	Rising	The pre-May 2023 median concentration was 255 mg/L, however from May 2023 the concentration has been reported in 269-276 mg/L range.	The bore was initially recorded as dry, but later started flowing very slightly. Observations of the water level during CP monitoring activities show some fluctuation, estimated in the order of 0.5 m, with unobservable flow.
		Chloride	Rising	Chloride shows similar trends to other parameters, starting at 196 mg/L in May 2021 and rising to a maximum of 274 mg/L in October 2023. The concentration dropped in May 2024 to 203 mg/L, but rose to 265 in October 2024.	A sample record from the Statement of Bore from 1991 reported 800 mg/L TDS. All concentrations of other analytes which were analysed in 1991 were less than the concentrations reported during CTP monitoring activities.
Palm Valley	RN006503	Iron	Falling	Iron's trend does not follow the other parameters. Its initial concentration was 1.83 mg/L which rose to 2 mg/L in October 2021. In 2022it was reported as less than 1.5 mg/L and has been reported <lor 2023="" 2024.<="" from="" may="" october="" td="" to=""><td>The decline in concentrations ~October 2023 may be related to a recharge event associated with above average rainfall in late 2021/ early 2022.  It is considered likely that the increasing TDS and associated concentrations are related to climate or bore construction rather than CTP activities.  Palm Valley Rainfall  200 1 80 1 80 1 80 1 80 1 80 1 80 1 80 1</td></lor>	The decline in concentrations ~October 2023 may be related to a recharge event associated with above average rainfall in late 2021/ early 2022.  It is considered likely that the increasing TDS and associated concentrations are related to climate or bore construction rather than CTP activities.  Palm Valley Rainfall  200 1 80 1 80 1 80 1 80 1 80 1 80 1 80 1
			. Gilling		(400 mm) 200 m
	2024	pH (laboratory)	Falling	Gradual long-term decline in laboratory measured pH, although relatively stable since October 2023.	RN012024 is located in the Finke Gorge National Park and is used to supply water to the camp site. Records are
	RN012024	Electrical conductivity (laboratory)	Rising	The EC has gradually risen from a minimum of 1,167 μS/cm in May 2021 to a maximum of 1,315 μS/cm in October 2024.	ambiguous but it appears that the bore was originally drilled to 34 m in 1978, but then deepened to 67.2 m in 1994.  Historical water quality information available from NR Maps

Field	Location	Parameter	Trend direction	Trend description	Comments
		Total dissolved Rising solids		The TDS trend mimics the EC trend.	indicates that prior to 1994, the EC was in the order of 1,500 $\mu$ S/cm but decreased to ~1,000 $\mu$ S/cm when the bore was deepened. It is considered likely that the increasing salinity
		Chloride	Rising	The chloride trend has been less consistent than EC, but has gradually risen from 137 mg/L in May 2021 to 201 mg/L in October 2024.	and associated major ion concentrations are related to climate or bore construction rather than CTP activities.
		Sulphate Rising		The sulphate concentration was generally around 70 mg/L prior to 2024, except in October 2022 when it was reported at 101 mg/L. In 2024, the sulphate concentration was reported at 110 mg/L in May 2024 and 98 mg/L in October 2024.	
	Sodium Rising		Rising	The sodium concentration shows the same pattern as sulphate. In May 2021 it was reportedly 78 mg/L, and was reported at 122 mg/L in October 2024.	
		Zinc	Rising	Prior to 2024 the zinc concentration was ~LOR. In 2024 the concentration increased rapidly to >0.015 mg/L.	

#### 3.3 Exceedance investigations

The following investigation was undertaken in accordance with the exceedance response framework regarding the Gross Alpha and Gross Beta exceedances reported in the 2021-2024 sample results:

- Exceedances of the interim performance standards of Gross Alpha and Gross Beta are consistent with historical exceedances reported in previous Groundwater Monitoring Reports.
- Gross alpha and gross beta levels in excess of the guideline values are not uncommon across the Northern Territory, for example:
  - Power and Water Corporation report that roughly 50% of the communities sampled exceed the radiological guidelines
     (https://www.powerwater.com.au/ data/assets/pdf file/0026/26774/2018-Power-and-Water-Drinking-Water-Quality-Report.pdf).
  - Alice Springs, Borroloola and Pine Creek have had exceedances of the guideline values for gross alpha and gross beta from their water supply bores (<a href="https://water.australianmap.net/physical\_chemical/radionuclides-other-beta-and-gamma-emitting/">https://water.australianmap.net/physical\_chemical/radionuclides-other-beta-and-gamma-emitting/</a>).
  - The values observed in the CTP groundwater monitoring program are roughly equal to the values reported by the NTG
     (https://depws.nt.gov.au/\_\_data/assets/pdf\_file/0006/726585/betaloo-groundwater-monitoring-report.pdf).

With the exception of RN006503 in the Palm Valley GMP area, none of the bores with Gross Alpha and Gross Beta exceedances of their interim performance standards show rising trends in the concentrations of these parameters which may suggest a new source of a contaminant. It was considered likely that the trends are due to natural occurrences and variability. The rising trend of Gross Beta in RN006503 is considered to be most likely related to climatic drivers that affect aquifer conditions or the effects of the bore construction, such as partial collapse of the open hole, leading to different zones within the aquifer supply different proportions of water to the bore.

The repeated exceedance of the sulphate concentration in RN013861 was investigated during 2023 and 2024, with the following findings:

- RN013861 was drilled to 213 m in 1984. The Statement of Bore (SoB) for indicates a small supply was encountered at 70 mbgl, which was effectively cased off in the construction of the bore, however the annulus was not cemented.
- Chemistry records from the SoB identify the TDS as 614 mg/L (by summation) and the sulphate concentration as 192 mg/L in 1984. Only one set of analytical results is available prior to 2013.
- CTP has monitoring records from RN013861 from 2013 to 2015. The TDS ranged from 2,300 mg/L to 2,900 mg/L and sulphate ranged from 1,620 mg/L to 2,000 mg/L
- RN016889, drilled in 1996, is located within 20 m of RN013861. It was drilled to 71.5 m with a reported TDS of 5,010 mg/L and sulphate concentration of 250 mg/L. These concentrations are considered likely to represent the groundwater quality in the shallower aquifer.

- The increased salinity (as measured by TDS) in RN013861 may be due to inter-aquifer leakage either through the bore annulus or through compromised casing. The source of the sulphate remains unknown.
- CTP will continue to investigate the cause of the sulphate exceedance.

Statistically significant trends, as determined by the Mann-Kendall test for trend and identified in Table 2, are believed to be due to natural variability.

No further investigations or response actions have been performed since the 2023 report was prepared.

# 4 Water level monitoring

Water level monitoring data is tabulated in Appendix C and timeseries graphs are also provided. These data identify:

- Two of the bores at Dingo are dry and or blocked;
- At Dingo, the water level in RN010853 declined by 5.5 m between the May and October 2021. From October 2021 and through 2022 the water level was relatively stable at approximately 125.35 m below top of casing but has since declined marginally to 125.46 m below top of casing as measured in October 2024;
- At Surprise the water level trends are variable, with RN018398 and RN018851 rising over the period of monitoring and RN018397 falling. RN018463 and RN018398 showed more rapid rises between October 2023 and May 2024 suggesting rainfall recharge; and
- At Palm Valley, the water levels have generally been relatively stable, except for RN014165 which shows a significant decline in water level of over 30 m between October 2021 and October 2022. During 2023, the water level recovered by roughly 28 m to around 22 m below top of casing but was measured at 28.3 m below top of casing in October 2024. These water level responses are most likely related to pumping of the Power and Water Corporation borefield in which the bores that are monitored are situated.

# 5 Wellhead pressure monitoring

Wellhead pressure monitoring data is tabulated in Appendix C and timeseries graphs are also provided. These data identify:

- Significant reductions in wellhead (tubing) pressures in Dingo 2 and Dingo 3 from May to October 2021. The Dingo 3 tubing pressure was stable from October 2021 through October 2024. The Dingo 2 tubing pressure gradually rose over the period October 2021 to May 2023, and then decreased between May 2023 and May 2024;
- The Johnstone West 1 pressure declined between April 2021 and October 2021, but has since recovered and has remained relatively consistent (~2,000 kPa) from October 2021 to October 2024; and
- There was a significant increase in tubing pressure in Surprise 1 between April 2021 and October 2021. The measured pressures in 2022 were significantly lower, but in 2023 they increased to a similar magnitude (~1,500 kPa) as October 2021. There was a dramatic drop in tubing pressure in the 2024 sampling event at Surprise 1 down to 4 kPa however this has been attributed to a blocked needle vale at the test point and is currently being rectified.

# **6 Springs Monitoring**

The scope of the monitoring for Palm Valley Gas Field includes the monitoring of condition of four spring vents in the Finke Gorge National Park. This includes the collection of field water qualities and photographs of the springs.

Field water quality results are included in the tables in Appendix A.

Photographs of each of the spring pools are included in Appendix D.

Most notably Pimelia Spring and Spring No. 8 were dry in October 2021, May 2022, October 2023 and October 2024. All the springs had associated pools in the May 2021, October 2022, May 2023 and April 2024 monitoring events.

Fish were observed in the Palm Creek Lower Oasis spring in March and October 2022 and May 2023, however the pool was almost dried out in October 2023 and October 2024 with no fish recorded. In Spring No 9, fish were observed in May 2022 and May 2023, but not in the October field visits. Algae and aquatic plants were noted in Spring No 9 April 2024.

#### 7 Conclusions

There is no evidence of a change in the groundwater quality due to CTP's activities at Dingo, Surprise, Mereenie or Palm Valley.

An elevated sulphate concentration in RN013861 at Mereenie is still under investigation.

#### 8 References

ANZECC (2000) Australian and New Zealand Guidelines for Fresh and Marine Water Quality, Volume 1, The Guidelines. Australian and New Zealand Environment and Conservation Council (ANZECC) & Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ), 2000.

DES (2021) Using monitoring data to assess groundwater quality and potential environmental impacts. Version 2. Department of Environment and Science (DES), Queensland Government, Brisbane.

NTG (2019) Code of Practice: Onshore Petroleum Activities in the Northern Territory. Department of Environment and Natural Resources, Department of Primary Industry and Resources. Northern Territory Government. 31 May 2019.

Figure 1 Groundwater monitoring locations relative to permit boundary – Dingo Gas Field

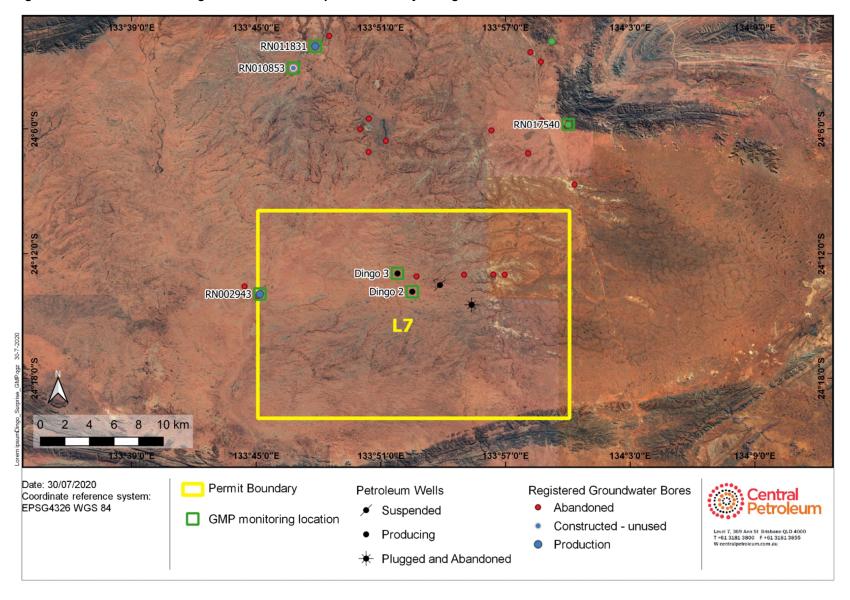
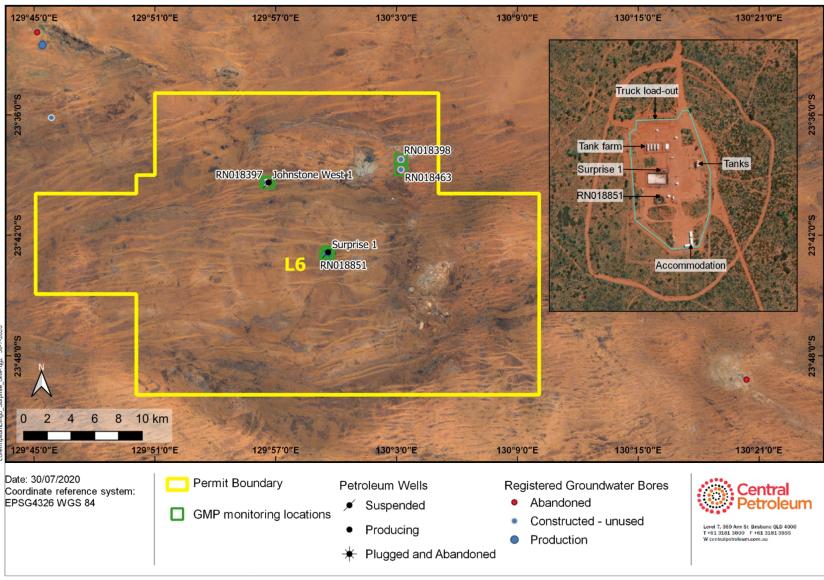


Figure 2 Groundwater monitoring locations relative to permit boundary – Surprise Oil Field



13°54'0'88' - 10.0.E 131°45'0"E% 131°27′0″E 131°33′0″E 131°39'0"E RN018955 10 km 6 8 131°21′0″E 131°27′0″E 131°33′0″E 131°39'0"E 131°45′0″E

■ Mereenie Monitoring Bores

Registered water bore (from NRMaps)

Surface Geology

Recent sedimentary cover

Mereenie Sandstone

Parke Siltstone

Larapinta Group

Hermannsburg Sandstone

Level 7, 369 Ann St Brisbane QLD 4000 T+61 3181 3800 F+61 3181 3855 W centralpetroleum.com.au

Figure 3 Groundwater monitoring locations relative to permit boundary - Mereenie Oil and Gas Field

Permit Boundary

★ Plugged and Abandoned

Petroleum Wells

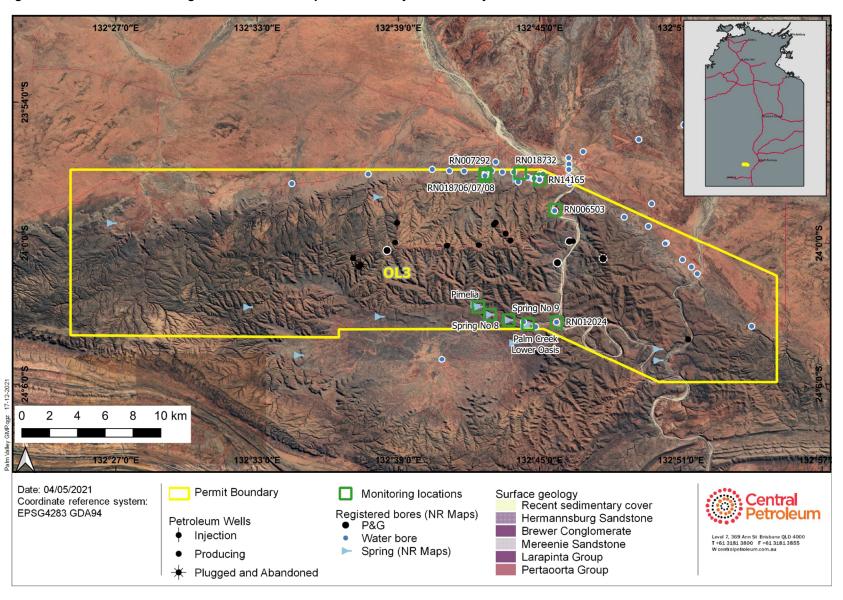
Suspended

Producing

Date: 27/11/2020

Coordinate reference system: EPSG4283 GDA94

Figure 4 Groundwater monitoring locations relative to permit boundary - Palm Valley Gas Field



Appendix A - Water Quality and Quality Control Results

Ма	y-2024	Field			Mereenie				Dingo/Surprise	9						
		Location	RN004620	RN018955	RN017898	RN013861	RN017657	RN011831	RN002943	RN018851	RN006503	RN012024	Palm Creek Lower	Palm Valley Area	Palm Valley Area	Pimelia Spring
	ANZECC (2000)	Date	10/4/2024	10/4/2024	10/4/2024	10/4/2024	10/4/2024	25/6/2024	9/4/2024	14/4/2024	14/4/2024	16/4/2024				14/4/2024
	Livestock			1								1				
Units		LOR														
μS/cm	-	1	1092	359	378	3040	Not operational	1230	Dry	1139	1247	1095	10.76	529.1	828.9	847.5
pH Unit	-	0.01	6.73	6.87	7.67	7	Not operational	6.9	Dry	6.8	7.3	7.07	8.11	9.03	9.61	8.69
°C	-	0.1	25.9	25.5	22.9	26.7	Not operational	24	Dry	28.3	24.8	25.2	20	19.4	19.2	23.1
pH Unit	-	0.01	7.48	7.53	7.25	7.65	-	7.97	-	7.68	7.65	7.64	-	-	-	-
μS/cm	-	1					-		-				-	-	-	-
mg/L	4000	1		<u> </u>			-		-				-	-	-	-
mg/L	-			<del>                                     </del>			-		-				-	-	-	-
							-		-				-	-	-	-
				<u> </u>			+		-				-	-	-	-
							-		-				-	-	-	-
Bq/L	0.5	0.1	0.58	0.3	0.32	0.24	-	-	- 1	0.84	0.31	-	-	-	-	-
m a/l		4	100	F.7	F0	220	1	200		400	276	277	1			<u>-</u>
		•					+									-
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mg/L	1000	1	57	12	12	514	-	70	-	69	110	84	-	-	-	-
mg/L	-	1	42	11	12	145	-	59	-	43	48	66	-	-	-	-
mg/L	-	0.05	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
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mg/L	0.02	0.01	<lor 16.3</lor 	<lor 13.1</lor 	<lor 13.9</lor 	<lor 22.4<="" td=""><td>-</td><td><lor 18.2</lor </td><td>-</td><td><lor 48.6</lor </td><td><lor 21.3</lor </td><td><lor 43.7</lor </td><td>-</td><td>-</td><td>-</td><td>-</td></lor>	-	<lor 18.2</lor 	-	<lor 48.6</lor 	<lor 21.3</lor 	<lor 43.7</lor 	-	-	-	-
	0.02 - -	0.01 0.05 0.001	<lor 16.3 0.496</lor 	<lor 13.1 0.141</lor 	<lor 13.9 0.147</lor 	<lor 22.4 5.74</lor 		<lor 18.2 0.712</lor 		48.6 0.704	21.3 0.958	43.7 1.52	-	-	-	-
P I	Units   pS/cm  oH Unit  °C  OH Unit  pS/cm  mg/L  pS/cm  mg/L  pS/cm  mg/L  pS/cm  mg/L  pg/L  pg/L  mg/L  pg/L  mg/L  mg/L	Units	Location   Date	Nazecc (2000)   Date   10/4/2024	ANZECC (2000)   Date   10/4/2024   10/4/2024	NAZECC (2000)   Date   10/4/2024   10/4/2044   10/4/2024   10/4/2044   10/4/2024   10/4/204   10/	Location	NAZECC (2000)   Date   101/1/2024   101/1/	No.   No.	MAZECC (2000   Date   Date	NAMES   Common   PROVISION   PROVISION	NUMBER   N				

**0.5** Guideline value exceeded

- Not analysed

0	ct-2024	Field			Mereenie				Dingo/Surprise	•						
		Location	RN004620	RN018955	RN017898	RN013861	RN017657	RN011831	RN002943	RN018851	RN006503	RN012024	Palm Creek Lower	Palm Valley Area	Palm Valley Area	Pimelia Spring
	ANZECC (2000)	Date	31/10/2024	31/10/2024	31/10/2024	31/10/2024	31/10/2024	25/6/2024	28/10/2024	29/10/2024	30/10/2024	30/10/2024				30/10/2024
	Livestock				1											
Units		LOR														
μS/cm	-	1	1095	327.6	381.8	2660	Not operational	1230	Bore collapsed	11399	1315	1315	2130	Dry	6340	Dry
pH Unit	-	0.01	6.84	6.96	6.75	6.99	Not operational	6.9	Bore collapsed	6.8	7.11	7.11	9.06	Dry	9.06	Dry
°C	-	0.1	26.1	29	28.8	26.9	Not operational	24	Bore collapsed	28.3	27.4	27.4	31.2	Dry	30.7	Dry
pH Unit	-	0.01	7.53	7.03	7	7.48	-	8.29	-	7.83	7.95	7.72	-	-	-	-
μS/cm	-	1					-		-				-	-	-	-
	4000						-		-				-	-	-	-
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— ·																-
Bd/L	0.5	0.1	0.61	0.32	0.37	0.28	- 1	0.48	- 1	0.76	0.32	-	-	-	-	-
ma/l		1	116	10	50	210		208		221	260	27Ω		_		_
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		1					-		-				-	<u> </u>	-	-
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							-		-				-	_	_	_
	2	0.1	0.5	0.5	0.7	0.9	-		-	0.9	<lor< td=""><td>0.7</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	0.7	-	-	-	-
	-	1	127	38	47	136	-	145	-	126	127	122	-	-	-	-
mg/L	-	1	24	11	12	8	-	16	-	30	11	6	-	-	-	-
mg/L	1000	1	56	10	11	514	-	58	-	94	119	72	-	-	-	-
mg/L	-	1	42	9	11	105	-	60	-	42	48	58	-	-	-	-
mg/L	-	0.05	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.12</td><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.12</td><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>0.12</td><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	0.12	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
μg/L	-	20	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
μg/L	-	100	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
μg/L	-	1	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
μg/L	-	2	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
μg/L	-						-		-				-	-	-	-
	-						-		-				-	-	-	-
	-						-		-				-	-	-	-
μg/L	-	0.5	<lor< td=""><td>  <lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
			1.00	100		100		1.00		100	1.00	100				
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μg/L	-	10	<lor< td=""><td>  <lur< td=""><td>&lt; LUR</td><td><lur< td=""><td>-</td><td><lur< td=""><td>-</td><td><luk< td=""><td><lur< td=""><td><lur< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lur<></td></lur<></td></luk<></td></lur<></td></lur<></td></lur<></td></lor<>	<lur< td=""><td>&lt; LUR</td><td><lur< td=""><td>-</td><td><lur< td=""><td>-</td><td><luk< td=""><td><lur< td=""><td><lur< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lur<></td></lur<></td></luk<></td></lur<></td></lur<></td></lur<>	< LUR	<lur< td=""><td>-</td><td><lur< td=""><td>-</td><td><luk< td=""><td><lur< td=""><td><lur< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lur<></td></lur<></td></luk<></td></lur<></td></lur<>	-	<lur< td=""><td>-</td><td><luk< td=""><td><lur< td=""><td><lur< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lur<></td></lur<></td></luk<></td></lur<>	-	<luk< td=""><td><lur< td=""><td><lur< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lur<></td></lur<></td></luk<>	<lur< td=""><td><lur< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lur<></td></lur<>	<lur< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lur<>	-	-	-	-
ma/l	1	0.001	0.006	0.004	<i or<="" td=""><td>~I OP</td><td></td><td>~I OP</td><td>T . I</td><td>∠I OR</td><td>∠I ∩P</td><td>-LOB</td><td></td><td>_</td><td></td><td>-</td></i>	~I OP		~I OP	T . I	∠I OR	∠I ∩P	-LOB		_		-
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				<del>                                     </del>					+							-
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	-	0.001					-		-	<lor< td=""><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td></lor<>			-	-	-	-
	0.5	0.001	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.003</td><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td>0.002</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.003</td><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td>0.002</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>0.003</td><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td>0.002</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	0.003	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td>0.002</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td>0.002</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>0.002</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	0.002	-	-	-	-
mg/L	-	0.001	0.05	0.081	0.367	0.019	-	0.077	-	0.071	0.315	0.074	-	-	-	-
mg/L	5	0.05	0.27	0.2	0.25	0.45	-	0.3	-	0.49	0.11	0.38	-	-	-	-
mg/L	0.01	0.0001	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
			0.011	<lor< td=""><td>0.043</td><td>0.053</td><td>-</td><td>0.012</td><td>-</td><td>0.012</td><td>0.069</td><td>0.015</td><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	0.043	0.053	-	0.012	-	0.012	0.069	0.015	-	-	-	-
mg/L	-	0.001	0.011	\LOIN	0.040	0.000										
_	0.02	0.001	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td>-</td><td><lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td>-</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<></td></lor<>	-	<lor< td=""><td><lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<></td></lor<>	<lor< td=""><td>-</td><td>-</td><td>-</td><td>-</td></lor<>	-	-	-	-
mg/L							-			<lor 41.4</lor 		<lor 43.5</lor 	-	-	-	-
mg/L mg/L	0.02	0.01	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td></td><td><lor< td=""><td></td><td></td><td><lor< td=""><td></td><td><del>                                     </del></td><td></td><td></td><td></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td></td><td><lor< td=""><td></td><td></td><td><lor< td=""><td></td><td><del>                                     </del></td><td></td><td></td><td></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td></td><td><lor< td=""><td></td><td></td><td><lor< td=""><td></td><td><del>                                     </del></td><td></td><td></td><td></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td></td><td><lor< td=""><td></td><td></td><td><lor< td=""><td></td><td><del>                                     </del></td><td></td><td></td><td></td></lor<></td></lor<></td></lor<>		<lor< td=""><td></td><td></td><td><lor< td=""><td></td><td><del>                                     </del></td><td></td><td></td><td></td></lor<></td></lor<>			<lor< td=""><td></td><td><del>                                     </del></td><td></td><td></td><td></td></lor<>		<del>                                     </del>			
	Units  µS/cm pH Unit  pS/cm mg/L mg/L Bq/L Bq/L Bq/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg	Units   μS/cm   -	Location   Date	NAZECC (2000)   Date   31/10/2024	Note	ANZECC (2000)   Date   31/10/2024   32/16	NAZECC (2000)   Date   31/10/2024   32/16   38/18   38/18   2660   26/16	Name	Anzeo Co		NAMES CE (2000)   Date   31/10/2004   31/1	Number   N				Martin   M

**0.5** Guideline value exceeded

- Not analysed

Sample Even	t Parameter	RN011831	DUP-D	RPD	RN012024	DUP-P	RPD	RN013861	DUP-M	RPD
Oct-2024	Electrical Conductivity	1520	1490	2	1370	1380	-0.7	3130	3110	0.6
Oct-2024	Total Dissolved Solids	988	968	2	890	897	-0.8	2030	2020	0.5
Oct-2024	Chloride	306	278	9.6	201	184	8.8	84	80	4.9

# Appendix B – Bore-by-bore summary statistics and timeseries graphs

Field	Mereen	ie	Location:		RN013861					
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend
Electrical conductivity	μS/cm	-	1	7	2660	2854	3040	3416	3680	No Trend
pH	pH Unit	-	0.01	7	6.65	6.88	6.99	7.33	7.70	No Trend
Temperature	°C	-	0.1	7	25.0	25.5	26.2	26.9	28.9	No Trend
General Parameters									,	
pH (laboratory)	pH Unit	-	0.01	7	7.48	7.51	7.71	8.12	8.18	Falling
Electrical conductivity (laboratory)	μS/cm	-	1	7	3040	3114	3190	3522	3750	No Trend
Total dissolved solids	mg/L	4000 (1)	1	7	1980	2022	2070	2290	2440	No Trend
Total suspended solids	mg/L	-	1	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>5</td><td>No Trend</td></lor<>	5	No Trend
Gross alpha	Bq/L	0.5	0.05	6	1.21	1.21	1.30	1.33	1.41	No Trend
Gross beta	Bq/L	-	0.1	5	0.48	0.49	0.53	0.54	0.56	No Trend
Gross beta activity - 40K	Bq/L	-	0.1	6	0.19	0.20	0.29	0.31	0.32	No Trend
Gross beta (excluding k-40)	Bq/L	0.5	0.1	5	0.22	0.24	0.24	0.28	0.30	No Trend
Major Anions and Cations										
Bicarbonate	mg/L	-	1	7	202	203	208	213	228	No Trend
Carbonate	mg/L	-	1	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Chloride	mg/L	-	1	7	68	87	121	380	483	No Trend
Sulphate	mg/L	1000	1	7	1300	1426	1680	1688	1710	No Trend
Nitrate	mg/L	400	0.01	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Nitrite	mg/L	30	0.01	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Fluoride	mg/L	2	0.1	7	0.7	0.8	0.8	0.9	0.9	No Trend
Sodium	mg/L	_	1	7	136	142	147	157	179	No Trend
Potassium	mg/L	_	1	7	8	8	8	9	9	No Trend
Calcium	mg/L	1000	1	7	514	518	535	567	578	No Trend
Magnesium	mg/L	_	<u>·</u> 1	7	105	109	112	134	145	No Trend
Iron	mg/L	_	0.05	7	<lor< td=""><td>0.13</td><td>0.26</td><td>0.37</td><td>0.69</td><td>Falling</td></lor<>	0.13	0.26	0.37	0.69	Falling
Hydrocarbons	11.9/2		0.00	· ·	20.1	00	0.20	0.01	0.00	
TRH: C6-C10	μg/L	_ [	20	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
TRH: >C10-C40	µg/L	_	100	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Benzene	µg/L	_	1	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Toluene	µg/L	_	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Ethylbenzene	µg/L	_	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Total Xylenes	µg/L	_	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Naphthalene	µg/L	_	5	7	1	1	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
PAH Suite	µg/L	_	0.5	7	-LOR	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Dissolved Gases	Pg/L		0.0		LOIN	LOIC	LOIX	LOIT	LOIN	140 TICHU
Methane	µg/L	_ [	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>37</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>37</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>37</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>37</td><td>No Trend</td></lor<>	37	No Trend
Ethane	µg/L	_	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Propane	µg/L	_	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Dissolved Metals/metalloids	P9'L				LOIK	LOIT	LOIK	LOIT	LOIT	140 Hona
Chromium	mg/L	1	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Copper	mg/L	1 (2)	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Lead	mg/L	0.1	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Manganese	mg/L	- 0.1	0.001	7	0.083	0.087	0.091	0.114	0.174	No Trend
Mercury	-	0.002	0.0001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Silver	mg/L mg/L	- 0.002	0.0001	7	<lor <lor< td=""><td><lor< td=""><td><lor< td=""><td><lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor </td></lor<></td></lor<></td></lor<></lor 	<lor< td=""><td><lor< td=""><td><lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor </td></lor<></td></lor<>	<lor< td=""><td><lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor </td></lor<>	<lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor 	<lor< td=""><td>No Trend</td></lor<>	No Trend
Arsenic		0.5	0.001	7	0.002	0.002	0.003	0.003	0.003	No Trend
Barium	mg/L	- 0.5	0.001	7	0.002	0.002	0.003		0.003	No Trend
Boron	mg/L	5	0.001	7	0.018	0.020	0.023	0.031 0.45	0.044	No Trend
	mg/L			7	0.30 <lor< td=""><td></td><td></td><td></td><td></td><td>No Trend</td></lor<>					No Trend
Cadmium	mg/L	0.01	0.0001		0.00	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td></td></lor<></td></lor<>	<lor< td=""><td></td></lor<>	
Lithium	mg/L	- 0.02	0.001	7	0.045	0.054	0.066	0.078	0.100	No Trend
Selenium	mg/L	0.02	0.01		<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Silica	mg/L	-	0.05	7	22.20	22.46	23.10	24.06	24.50	No Trend
Strontium	mg/L	- 00	0.001	7	5.500	5.822	6.250	6.508	6.740	No Trend
Zinc (1) (2) - guideline value for beef cattle	mg/L	20	0.005	7	<lor< td=""><td>0.006</td><td>0.014</td><td>0.017</td><td>0.021</td><td>Rising</td></lor<>	0.006	0.014	0.017	0.021	Rising

Field	Mereen	ie	Location:		RN017657					
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend
Electrical conductivity	μS/cm	-	1	4	855	886	929	4308	9343	No Trend
pH	pH Unit	-	0.01	4	6.77	6.94	7.13	7.25	7.31	No Trend
Temperature	°C	-	0.1	4	24.4	24.4	25.0	26.5	28.1	No Trend
General Parameters	'								,	
pH (laboratory)	pH Unit	-	0.01	4	7.50	7.67	7.91	8.04	8.06	No Trend
Electrical conductivity (laboratory)	μS/cm	-	1	4	900	907	926	942	945	No Trend
Total dissolved solids	mg/L	4000 (1)	1	4	585	590	602	612	614	No Trend
Total suspended solids	mg/L	-	1	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td>3</td><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>3</td><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>3</td><td>5</td><td>No Trend</td></lor<>	3	5	No Trend
Gross alpha	Bq/L	0.5	0.05	3	0.35	0.36	0.37	0.41	0.44	No Trend
Gross beta	Bq/L	-	0.1	3	0.81	0.85	0.90	1.07	1.18	No Trend
Gross beta activity - 40K	Bq/L	-	0.1	3	0.23	0.27	0.32	0.55	0.70	No Trend
Gross beta (excluding k-40)	Bq/L	0.5	0.1	3	0.48	0.52	0.58	0.58	0.58	No Trend
Major Anions and Cations										
Bicarbonate	mg/L	_	1	4	91	94	97	98	98	No Trend
Carbonate	mg/L	_	1	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Chloride	mg/L	_	1	4	165	170	174	176	179	No Trend
Sulphate	mg/L	1000	<u>·</u> 1	4	90	91	92	96	100	No Trend
Nitrate	mg/L	400	0.01	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Nitrite	mg/L	30	0.01	4	1.42	1.48	1.53	1.54	1.55	No Trend
Fluoride	mg/L	2	0.1	4	0.4	0.5	0.5	0.5	0.5	No Trend
Sodium	mg/L	-	1	4	88	89	94	98	98	No Trend
Potassium		-	1	4	18	18	19	19	19	No Trend
Calcium	mg/L	1000	1	4	38	38	39	40	42	
	mg/L	1000	1		27			30	32	No Trend
Magnesium	mg/L	-		4		28	29			No Trend
Iron	mg/L	-	0.05	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Hydrocarbons					4.00	1.00	4 OD	4.00	1.00	N. T.
TRH: C6-C10	μg/L	-	20	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
TRH: >C10-C40	µg/L	-	100	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Benzene	μg/L	-	1	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Toluene	µg/L	-	2	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td>2</td><td>3</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>2</td><td>3</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>2</td><td>3</td><td>No Trend</td></lor<>	2	3	No Trend
Ethylbenzene	µg/L	-	2	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Total Xylenes	µg/L	-	2	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Naphthalene	µg/L	-	5	4	1	1	3	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
PAH Suite	μg/L	-	0.5	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Dissolved Gases						T				
Methane	μg/L	-	10	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Ethane	μg/L	-	10	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Propane	µg/L	-	10	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Dissolved Metals/metalloids										
Chromium	mg/L	1	0.001	4	0.003	0.004	0.004	0.004	0.005	No Trend
Copper	mg/L	1 (2)	0.001	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Lead	mg/L	0.1	0.001	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Manganese	mg/L	-	0.001	4	0.003	0.004	0.004	0.004	0.004	No Trend
Mercury	mg/L	0.002	0.0001	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Silver	mg/L	-	0.001	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Arsenic	mg/L	0.5	0.001	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Barium	mg/L	-	0.001	4	0.047	0.048	0.052	0.066	0.083	No Trend
Boron	mg/L	5	0.05	4	0.20	0.21	0.23	0.25	0.26	No Trend
Cadmium	mg/L	0.01	0.0001	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Lithium	mg/L	-	0.001	4	0.003	0.003	0.003	0.004	0.005	No Trend
Selenium	mg/L	0.02	0.01	4	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Silica	mg/L	-	0.05	4	15.70	15.76	15.85	16.06	16.30	No Trend
Strontium	mg/L	_	0.001	4	0.332	0.337	0.342	0.355	0.372	No Trend
Zinc	mg/L	20	0.005	4	0.007	0.011	0.014	0.027	0.046	No Trend
(1) (2) - quideline value for heef cattle	Ing/L		0.000	-	0.007	0.011	0.014	0.021	0.040	140 Helia

Field Parameters	Field	Mereen	ie	Location:		RN017898						
pH   pH   pH   pH   ph   pH   ph   ph	Field Parameters	Units	(2000)		No.	Min	P20	P50	P80	Max	Mann- Kendall Trend	
Temperature	Electrical conductivity	μS/cm	-	1	8	378	381	416	453	475	Falling	
	pH	pH Unit	-	0.01	8	6.38	6.63	6.98	7.28	7.67	No Trend	
pH (Jacobratory) pH Junit	Temperature	°C	-	0.1	8	21.0	22.4	26.4	27.5	28.8	No Trend	
Electrical constudy (showlord)   µS/cm     1	General Parameters		,							,		
Total suspended solids     mg/L	pH (laboratory)	pH Unit	-	0.01	8	7.00	7.17	7.30	7.49	7.92	Falling	
Total suspended solids	Electrical conductivity (laboratory)	μS/cm	-	1	8	434	436	441	455	463	No Trend	
Gross selapha   Bg/L   0.5   0.05   7   0.13   0.18   0.23   0.41   0.43   No Tree Gross beta activity - 40K   Bg/L   - 0.1   6   0.61   0.66   0.68   0.77   0.98   Failing Gross beta activity - 40K   Bg/L   - 0.1   6   0.32   0.37   0.38   0.42   0.51   No Tree Major Anions and Cations   Selate (excluding k40)   Bg/L   0.5   0.1   6   0.32   0.37   0.38   0.42   0.51   No Tree Major Anions and Cations   Selate (excluding k40)   Bg/L   0.5   0.1   6   0.32   0.37   0.38   0.42   0.51   No Tree Major Anions and Cations   Selate (excluding k40)   Bg/L   0.5   0.1   6   0.32   0.37   0.38   0.42   0.51   No Tree Major Anions and Cations   Selate (excluding k40)   Bg/L   0.5   0.1   6   0.32   0.37   0.38   0.42   0.51   No Tree Major Anions   Selate (excluding k40)   Selate (excluding k40	Total dissolved solids	mg/L	4000 (1)	1	8	282	283	287	296	301	No Trend	
Gross beta   Bq/L   -   0.1   6   0.61   0.66   0.68   0.77   0.98   Falling Gross beta activity - 40K   Bq/L   0.5   0.1   7   0.17   0.23   0.35   0.37   0.36   0.77   0.98   Falling Gross beta (excluding k-40)   Bq/L   0.5   0.1   6   0.32   0.37   0.38   0.42   0.51   No Tran Major Anions and Cations	Total suspended solids	mg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>2</td><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>2</td><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>2</td><td>5</td><td>No Trend</td></lor<>	2	5	No Trend	
Gross beta activity - 40K	Gross alpha	Bq/L	0.5	0.05	7	0.13	0.18	0.23	0.41	0.43	No Trend	
Gross beta (excluding k-40)   Bq/L   0.5   0.1   6   0.32   0.37   0.38   0.42   0.51   No Tren Major Anions and Cattons	Gross beta	Bq/L	-	0.1	6	0.61	0.66	0.68	0.77	0.98	Falling	
Major Anions and Cations   Majura   1	Gross beta activity - 40K	Bq/L	-	0.1	7	0.17	0.23	0.35	0.37	0.61	No Trend	
Major Anions and Cations	Gross beta (excluding k-40)	Bq/L	0.5	0.1	6	0.32	0.37	0.38	0.42	0.51	No Trend	
Bicarbonate   mg/L   -			1						ı	ı	1	
Carbonate         mg/L         -         1         8         4_OR         No Tren           Chloride         mg/L         1000         1         8         52         61         66         70         72         No Tren           Nitrate         mg/L         400         0.01         8         3.9         41         42         3         43         No Tren           Nitrite         mg/L         400         0.01         8         4.DR         4.DR<	•	mg/L	- 1	1	8	54	55	58	58	60	No Trend	
Chloride mg/L - 1 8 52 61 66 70 72 No Tren Sulphate mg/L 1000 1 8 39 41 42 43 43 No Tren Nutrale mg/L 400 0.01 8 39 41 42 43 43 No Tren Nutrale mg/L 400 0.01 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Nutrale mg/L 30 0.01 8 1.37 1.57 1.64 1.71 1.96 No Tren Fluoride mg/L 2 0.1 8 0.6 0.6 0.6 0.6 0.6 0.7 No Tren Fluoride mg/L 2 0.1 8 0.6 0.6 0.6 0.6 0.6 0.7 No Tren Potassium mg/L - 1 8 47 49 51 54 56 No Tren Potassium mg/L - 1 8 11 11 11 12 13 14 14 Falling Calcium mg/L - 1 8 11 11 11 12 13 13 No Tren Roadium mg/L - 1 8 11 11 11 12 13 13 No Tren Roadium mg/L - 1 8 11 11 11 12 12 12 12 No Tren Roadium mg/L - 0.05 8 4.0R 4.0R 4.0R 4.0R 0.06 No Tren Hydrocarbons  TRH: C6-C10 µg/L - 100 8 4.0R 4.0R 4.0R 4.0R 0.06 No Tren Roadium pg/L - 1 1 8 4.0R 4.0R 4.0R 4.0R No Tren Roadium mg/L - 1 1 8 4.0R 4.0R 4.0R 4.0R No Tren Roadium mg/L - 100 8 4.0R 4.0R 4.0R 4.0R No Tren Roadium mg/L - 2 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Tolluane µg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Tolluane µg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Raphthalene µg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Raphthalene µg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Roadium pg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 4.0R 6.0R 6.0R No Tren Roadium mg/L - 10 8 4.0R 4.0R 4.0R 6.0R 4.0R 6.0R 6.0R No Tren Roadium mg/L - 0.001 8 4.0R 4.0R 6.0R 6.0R 6.0R 6.0R 6.0R 8.0R 8.0R 6.0R 6.0R 6.0R 6.0R 6.0R 8.0R 8.0R 6.0R 6.0R 6.0R 6.0R 6.0R 8.0R 6.0R 6.0R 6.0R 6.0R 6.0R 6.0R 6.0R 6		<del></del>	-								No Trend	
Sulphate   mg/L   1000			_								No Trend	
Nitrate   mg/L   400   0.01   8   <.DR   <.DR   <.DR   <.DR   <.DR   <.DR   <.DR   No Tren   Nitrite   mg/L   30   0.01   8   1.37   1.57   1.64   1.71   1.96   No Tren   Flouride   mg/L   2   0.1   8   0.6   0.6   0.6   0.6   0.6   0.7   No Tren   Sodium   mg/L   -   1   8   47   49   51   54   56   No Tren   Potassium   mg/L   -   1   8   12   12   13   14   14   Falling   Galcium   mg/L   1000   1   8   11   11   12   13   13   No Tren   Magnesium   mg/L   -   0.05   8   <.DR   <.DR   <.DR   <.DR   0.06   No Ten   Hydrocarbons			1000		_						No Trend	
Nitrite											No Trend	
Fluoride					_							
Sodium												
Potassium   mg/L   -											-	
Calcium   mg/L   1000												
Magnesium         mg/L         -         1         8         11         11         12         12         12         No Tren Iron           Hydrocarbons           TRH: C6C-10         µg/L         -         20         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren Iron           Benzene         µg/L         -         100         8         <lor< td=""> <lor< td=""></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>		-										
Iron   mg/L   -			1000		_						_	
TRH: C6-C10			-			7.7						
TRH: C6-C10         μg/L         -         20         8         < LOR         < LO	NAME OF THE PROPERTY OF THE PR	IIIg/L	-	0.05	0	\LUK	\LUK	\LUK	\LUK	0.06	No Hend	
TRH: >C10-C40		//		20		d OD	d OD	d OD	d OD	41.OD	No Trond	
Benzene   μg/L   -   1   8   <  LOR			-								_	
Toluene μg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Ethylbenzene μg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Total Xylenes μg/L - 2 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Naphthalene μg/L - 5 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Naphthalene μg/L - 5 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Naphthalene μg/L - 0.5 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Dissolved Gases  Methane μg/L - 10 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Ethane μg/L - 10 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Dissolved Metals/metalloids  Chromium mg/L 1 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Copper mg/L 1 (2) 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Manganese mg/L - 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Mercury mg/L - 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Mercury mg/L - 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Arsenic mg/L - 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Arsenic mg/L 0.5 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Barium mg/L 0.01 0.0001 8 4.0R 4.0R 4.0R 4.0R 4.0R No Tren Barium mg/L 0.05 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Arsenic mg/L 0.5 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R 6.0R No Tren Barium mg/L 0.05 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R 6.0R 1.0R No Tren Barium mg/L 0.05 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R 6.0R 1.0R No Tren Barium mg/L 0.05 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R 1.0R 1.0R No Tren Barium mg/L 0.05 0.001 8 4.0R 4.0R 4.0R 4.0R 4.0R 1.0R 1.0R 1.0R 1.0R 1.0R 1.0R 1.0R 1			-						0.00			
Ethylbenzene			-		_							
Total Xylenes												
Naphthalene   μg/L   -   5   8   1   1   3   4.0R   4.0R   No Trent											_	
PAH Suite         μg/L         -         0.5         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Dissolved Gases           Methane         μg/L         -         10         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Ethane         μg/L         -         10         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Propane         μg/L         -         10         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Propane         μg/L         -         10         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Dissolved Metals/metalloids         Total         0.001         8         <lor< td="">         No Tren          <lor< td=""> <lor< td=""> <lor< td=""> <l< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></l<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>			-									
Dissolved Gases           Methane         μg/L         -         10         8 <lor< th=""> <lor< td=""><td><u> </u></td><td><del>                                     </del></td><td>-</td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	<u> </u>	<del>                                     </del>	-		_							
Methane         μg/L         -         10         8 <to>LOR         <to>LOR</to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to></to>		µg/L	-	0.5	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethane												
Propane         μg/L         -         10         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Dissolved Metals/metalloids           Chromium         mg/L         1         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Copper         mg/L         1 (2)         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lead         mg/L         0.1         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Manganese         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Mercury         mg/L         0.002         0.0001         8         <lor< td=""> <lor< td=""></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>			-	15							No Trend	
Dissolved Metals/metalloids           Chromium         mg/L         1         0.001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Copper         mg/L         1 (2)         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lead         mg/L         0.1         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Manganese         mg/L         -         0.001         8         <lor< td="">         0.001         0.005         0.011         0.065         No Tren           Mercury         mg/L         0.002         0.0001         8         <lor< td=""> <lor< <="" td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>No Trend</td></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>			-								No Trend	
Chromium         mg/L         1         0.001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Copper         mg/L         1 (2)         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lead         mg/L         0.1         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Manganese         mg/L         -         0.001         8         <lor< td="">         0.001         0.005         0.011         0.065         No Tren           Mercury         mg/L         0.002         0.0001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silver         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Arsenic         mg/L         0.5         0.001         8         <lor< td=""> <t< td=""><td>Propane</td><td>μg/L</td><td>-</td><td>10</td><td>8</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></t<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Propane	μg/L	-	10	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Copper         mg/L         1 (2)         0.001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Lead         mg/L         0.1         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Manganese         mg/L         -         0.001         8         <lor< td="">         0.001         0.005         0.011         0.065         No Tren           Mercury         mg/L         0.002         0.0001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silver         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Arsenic         mg/L         0.5         0.001         8         <lor< td="">         No Tren           Barium         mg/L         -         0.001         8         0.065         0.079         0.089         0.113         0.367         No Tren           Boron         mg/L         5         0.05         8         0.16         0.21</lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Dissolved Metals/metalloids								1			
Lead         mg/L         0.1         0.001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Manganese         mg/L         -         0.001         8         <lor< td="">         0.001         0.005         0.011         0.065         No Tren           Mercury         mg/L         0.002         0.0001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silver         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Arsenic         mg/L         0.5         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Barium         mg/L         -         0.001         8         0.065         0.079         0.089         0.113         0.367         No Tren           Boron         mg/L         5         0.05         8         0.16         0.21         0.25         0.27         0.28         No Tren           Cadmium         mg/L         0.01         0.0001         8         <lor< td=""> <lor< td=""> <t< td=""><td>Chromium</td><td>mg/L</td><td>1</td><td>0.001</td><td>8</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></t<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Chromium	mg/L	1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Manganese         mg/L         -         0.001         8 <lor< th="">         0.001         0.005         0.011         0.065         No Tren           Mercury         mg/L         0.002         0.0001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silver         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Arsenic         mg/L         0.5         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Barium         mg/L         -         0.001         8         0.065         0.079         0.089         0.113         0.367         No Tren           Boron         mg/L         5         0.05         8         0.16         0.21         0.25         0.27         0.28         No Tren           Cadmium         mg/L         0.01         0.0001         8         <lor< td=""> <lor< td=""></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Copper	mg/L	1 (2)	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Mercury         mg/L         0.002         0.0001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Silver         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Arsenic         mg/L         0.5         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Barium         mg/L         -         0.001         8         0.065         0.079         0.089         0.113         0.367         No Tren           Boron         mg/L         5         0.05         8         0.16         0.21         0.25         0.27         0.28         No Tren           Cadmium         mg/L         0.01         0.0001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lithium         mg/L         -         0.001         8         <lor< td=""> <l< td=""><td>Lead</td><td>mg/L</td><td>0.1</td><td>0.001</td><td>8</td><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<></td></l<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Lead	mg/L	0.1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silver         mg/L         -         0.001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Arsenic         mg/L         0.5         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Barium         mg/L         -         0.001         8         0.065         0.079         0.089         0.113         0.367         No Tren           Boron         mg/L         5         0.05         8         0.16         0.21         0.25         0.27         0.28         No Tren           Cadmium         mg/L         0.01         0.0001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lithium         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         0.043         No Tren           Selenium         mg/L         0.02         0.01         8         <lor< td=""> <lo< td=""><td>Manganese</td><td>mg/L</td><td>-</td><td>0.001</td><td>8</td><td><lor< td=""><td>0.001</td><td>0.005</td><td>0.011</td><td>0.065</td><td>No Trend</td></lor<></td></lo<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Manganese	mg/L	-	0.001	8	<lor< td=""><td>0.001</td><td>0.005</td><td>0.011</td><td>0.065</td><td>No Trend</td></lor<>	0.001	0.005	0.011	0.065	No Trend	
Arsenic         mg/L         0.5         0.001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Barium         mg/L         -         0.001         8         0.065         0.079         0.089         0.113         0.367         No Tren           Boron         mg/L         5         0.05         8         0.16         0.21         0.25         0.27         0.28         No Tren           Cadmium         mg/L         0.01         0.0001         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lithium         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td="">         0.04         0.043         No Tren           Selenium         mg/L         0.02         0.01         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274</lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Mercury	mg/L	0.002	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Barium         mg/L         -         0.001         8         0.065         0.079         0.089         0.113         0.367         No Tren           Boron         mg/L         5         0.05         8         0.16         0.21         0.25         0.27         0.28         No Tren           Cadmium         mg/L         0.01         0.0001         8 <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lithium         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td="">         0.044         0.043         No Tren           Selenium         mg/L         0.02         0.01         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274         3.690         No Tren</lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Silver	mg/L	-	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Boron         mg/L         5         0.05         8         0.16         0.21         0.25         0.27         0.28         No Tren           Cadmium         mg/L         0.01         0.0001         8 <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Lithium         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td="">         0.044         0.043         No Tren           Selenium         mg/L         0.02         0.01         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274         3.690         No Tren</lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Arsenic	mg/L	0.5	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Cadmium         mg/L         0.01         0.0001         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Lithium         mg/L         -         0.001         8         <lor< td=""> <lor< td=""> <lor< td="">         0.004         0.043         No Tren           Selenium         mg/L         0.02         0.01         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274         3.690         No Tren</lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Barium	mg/L	-	0.001	8	0.065	0.079	0.089	0.113	0.367	No Trend	
Lithium         mg/L         -         0.001         8 <lor< th=""> <lor< th="">         0.004         0.043         No Tren           Selenium         mg/L         0.02         0.01         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274         3.690         No Tren</lor<></lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Boron	mg/L	5	0.05	8	0.16	0.21	0.25	0.27	0.28	No Trend	
Lithium         mg/L         -         0.001         8 <lor< th=""> <lor< th="">         0.004         0.043         No Tren           Selenium         mg/L         0.02         0.01         8         <lor< td=""> <lor< td=""> <lor< td=""> <lor< td=""> <lor< td="">         No Tren           Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274         3.690         No Tren</lor<></lor<></lor<></lor<></lor<></lor<></lor<>	Cadmium	_	0.01	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Selenium         mg/L         0.02         0.01         8 <lor< th=""> <lor< th=""> <lor< th=""> <lor< th=""> <lor< th="">         No Tren           Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274         3.690         No Tren</lor<></lor<></lor<></lor<></lor<>	Lithium				8	<lor< td=""><td></td><td></td><td></td><td>0.043</td><td>No Trend</td></lor<>				0.043	No Trend	
Silica         mg/L         -         0.05         8         13.60         13.84         14.20         14.68         15.00         No Tren           Strontium         mg/L         -         0.001         8         0.145         0.151         0.163         0.274         3.690         No Tren	Selenium		0.02		_						No Trend	
Strontium mg/L - 0.001 8 0.145 0.151 0.163 0.274 3.690 No Tren											No Trend	
						100 100 10					No Trend	
	Zinc	mg/L	20	0.005	8	<lor< td=""><td>0.015</td><td>0.022</td><td>0.028</td><td>0.038</td><td>No Trend</td></lor<>	0.015	0.022	0.028	0.038	No Trend	

Field	Surpris	<u> </u>	Location:		RN018851						
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend	
Electrical conductivity	μS/cm	-	1	6	1139	1223	1345	1412	1413	Falling	
pH	pH Unit	-	0.01	6	6.71	6.79	6.87	6.97	7.01	No Trend	
Temperature	°C	-	0.1	6	10.0	25.1	27.9	28.5	28.8	No Trend	
General Parameters		,							,		
pH (laboratory)	pH Unit	-	0.01	7	7.52	7.71	7.93	8.10	8.25	No Trend	
Electrical conductivity (laboratory)	μS/cm	-	1	7	1270	1334	1360	1416	1430	No Trend	
Total dissolved solids	mg/L	4000 (1)	1	7	826	867	884	920	930	No Trend	
Total suspended solids	mg/L	-	1	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td>3</td><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>3</td><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>3</td><td>5</td><td>No Trend</td></lor<>	3	5	No Trend	
Gross alpha	Bq/L	0.5	0.05	6	0.37	0.41	0.42	0.44	0.46	No Trend	
Gross beta	Bq/L	-	0.1	6	1.15	1.16	1.22	1.27	1.56	No Trend	
Gross beta activity - 40K	Bq/L	-	0.1	6	<lor< td=""><td>0.31</td><td>0.35</td><td>0.51</td><td>0.74</td><td>No Trend</td></lor<>	0.31	0.35	0.51	0.74	No Trend	
Gross beta (excluding k-40)	Bq/L	0.5	0.1	6	0.76	0.82	0.84	0.92	1.05	No Trend	
Major Anions and Cations						ı		1	ı		
Bicarbonate	mg/L	- 1	1	7	91	174	189	200	221	No Trend	
Carbonate	mg/L	-	1	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Chloride	mg/L	-	1	7	221	226	235	245	250	No Trend	
Sulphate	mg/L	1000	<u>·</u> 1	7	114	114	118	121	127	No Trend	
Nitrate	mg/L	400	0.01	7	<lor< td=""><td>0.01</td><td>0.03</td><td>0.04</td><td>0.04</td><td>No Trend</td></lor<>	0.01	0.03	0.04	0.04	No Trend	
Nitrite	mg/L	30	0.01	7	9.67	10.07	10.60	10.96	11.10	Falling	
Fluoride	mg/L	2	0.1	7	0.9	0.9	1.0	1.1	1.1	No Trend	
Sodium	mg/L	-	1	7	125	126	133	137	144	No Trend	
Potassium	mg/L	_	1	7	30	31	31	32	34	No Trend	
Calcium	mg/L	1000	1	7	69	70	73	75	94	No Trend	
		- 1000	1	7	38	39	42	42	43	Rising	
Magnesium	mg/L mg/L	-	0.05	7	<lor< td=""><td><lor< td=""><td>0.07</td><td>0.09</td><td>0.18</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.07</td><td>0.09</td><td>0.18</td><td>No Trend</td></lor<>	0.07	0.09	0.18	No Trend	
	IIIg/L	-	0.05	/	\LUK	\LUK	0.07	0.09	0.16	No Hend	
Hydrocarbons	//		20	7	d OD	d OD	d OD	d OD	<lor< td=""><td>No Trend</td></lor<>	No Trend	
TRH: C6-C10 TRH: >C10-C40	µg/L	-	20 100	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td></td><td>_</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td></td><td>_</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td></td><td>_</td></lor<></td></lor<>	<lor< td=""><td></td><td>_</td></lor<>		_	
	μg/L	-		7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Benzene	μg/L	-	1		<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Toluene	μg/L	-	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethylbenzene	μg/L	-	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Total Xylenes	µg/L	-	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Naphthalene	µg/L	-	5	7	1	1	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
PAH Suite	µg/L	-	0.5	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Gases											
Methane	µg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethane	μg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Propane	μg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Metals/metalloids						ı		T			
Chromium	mg/L	1	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.002</td><td>0.002</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.002</td><td>0.002</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.002</td><td>0.002</td><td>No Trend</td></lor<>	0.002	0.002	No Trend	
Copper	mg/L	1 (2)	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lead	mg/L	0.1	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Manganese	mg/L	-	0.001	7	0.014	0.015	0.018	0.028	0.090	No Trend	
Mercury	mg/L	0.002	0.0001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silver	mg/L	-	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Arsenic	mg/L	0.5	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Barium	mg/L	-	0.001	7	0.043	0.045	0.046	0.057	0.071	No Trend	
Boron	mg/L	5	0.05	7	0.42	0.49	0.50	0.53	0.58	No Trend	
Cadmium	mg/L	0.01	0.0001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lithium	mg/L	-	0.001	7	0.008	0.008	0.009	0.010	0.012	No Trend	
Selenium	mg/L	0.02	0.01	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silica	mg/L	-	0.05	7	41.40	48.30	48.60	49.26	49.80	No Trend	
Strontium	mg/L	-	0.001	7	0.704	0.762	0.789	0.817	0.859	No Trend	
Zinc	mg/L	20	0.005	7	<lor< td=""><td>0.012</td><td>0.014</td><td>0.038</td><td>0.043</td><td>No Trend</td></lor<>	0.012	0.014	0.038	0.043	No Trend	
(1) (2) - quideline value for beef cattle	g, _		2.300			J.J.L	3.311	2.300	3.515	1.10 110110	

Field	Mereen	ie	Location:		RN018955						
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend	
Electrical conductivity	μS/cm	-	1	6	340	341	354	366	440	No Trend	
pH	pH Unit	-	0.01	6	6.34	6.61	6.74	7.02	7.36	No Trend	
Temperature	°C	-	0.1	6	23.1	24.3	25.2	25.7	28.3	No Trend	
General Parameters		,							,		
pH (laboratory)	pH Unit	-	0.01	7	7.03	7.25	7.52	7.55	7.92	No Trend	
Electrical conductivity (laboratory)	μS/cm	-	1	7	352	361	368	403	422	No Trend	
Total dissolved solids	mg/L	4000 (1)	1	7	229	235	239	262	274	No Trend	
Total suspended solids	mg/L	-	1	7	<lor< td=""><td><lor< td=""><td>2</td><td>5</td><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>2</td><td>5</td><td>5</td><td>No Trend</td></lor<>	2	5	5	No Trend	
Gross alpha	Bq/L	0.5	0.05	6	0.20	0.26	0.32	0.45	0.46	No Trend	
Gross beta	Bq/L	-	0.1	5	0.81	0.84	0.87	0.93	1.07	No Trend	
Gross beta activity - 40K	Bq/L	-	0.1	6	0.44	0.45	0.56	0.64	0.77	No Trend	
Gross beta (excluding k-40)	Bq/L	0.5	0.1	5	0.30	0.30	0.32	0.37	0.43	No Trend	
Major Anions and Cations							ı		ı		
Bicarbonate	mg/L	- 1	1	7	44	46	48	58	76	No Trend	
Carbonate	mg/L	_	1	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Chloride	mg/L	-	<u>·</u> 1	7	42	54	58	64	68	No Trend	
Sulphate	mg/L	1000	<u>·</u> 1	7	31	34	36	37	38	No Trend	
Nitrate	mg/L	400	0.01	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Nitrite	mg/L	30	0.01	7	0.46	0.51	0.53	0.56	0.58	No Trend	
Fluoride	mg/L	2	0.1	7	0.5	0.5	0.5	0.5	0.5	No Trend	
Sodium	mg/L	-	1	7	38	41	44	46	47	No Trend	
Potassium	mg/L	-	1	7	11	11	12	12	12	No Trend	
Calcium	mg/L	1000	1	7	10	10	11	12	12	No Trend	
	_	1000	1	7	8	9	10	10	11	No Trend	
Magnesium	mg/L	-	0.05	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>0.24</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.24</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.24</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.24</td><td>No Trend</td></lor<>	0.24	No Trend	
100 C	mg/L	-	0.05	-	\LUK	\LUK	\LUK	\LUK	0.24	No Hend	
Hydrocarbons			20	7	d OD	d OD	4LOD	4LOD	4LOD	No Trond	
TRH: C6-C10 TRH: >C10-C40	µg/L	-	20 100	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
	μg/L	-		7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Benzene	μg/L	-	1		<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Toluene	μg/L	-	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethylbenzene	μg/L	-	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Total Xylenes	µg/L	-	2	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Naphthalene	µg/L	-	5	7	1	1	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
PAH Suite	µg/L	-	0.5	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Gases										1	
Methane	µg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethane	μg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Propane	μg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Metals/metalloids	_							,			
Chromium	mg/L	1	0.001	7	<lor< td=""><td><lor< td=""><td>0.004</td><td>0.006</td><td>0.006</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.004</td><td>0.006</td><td>0.006</td><td>No Trend</td></lor<>	0.004	0.006	0.006	No Trend	
Copper	mg/L	1 (2)	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lead	mg/L	0.1	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Manganese	mg/L	-	0.001	7	0.007	0.007	0.010	0.050	0.145	No Trend	
Mercury	mg/L	0.002	0.0001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silver	mg/L	-	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Arsenic	mg/L	0.5	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Barium	mg/L	-	0.001	7	0.026	0.031	0.039	0.064	0.081	No Trend	
Boron	mg/L	5	0.05	7	0.12	0.16	0.20	0.22	0.22	No Trend	
Cadmium	mg/L	0.01	0.0001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lithium	mg/L	-	0.001	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Selenium	mg/L	0.02	0.01	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silica	mg/L	-	0.05	7	13.10	14.00	14.30	14.76	14.90	No Trend	
Strontium	mg/L	_	0.001	7	0.125	0.131	0.133	0.139	0.143	No Trend	
Zinc	mg/L	20	0.005	7	<lor< td=""><td>0.006</td><td>0.014</td><td>0.027</td><td>0.122</td><td>Rising</td></lor<>	0.006	0.014	0.027	0.122	Rising	
(1) (2) - quideline value for heef cattle	IIIg/L		5.005	,	LOI	0.000	0.014	J.021	J. 122	Line	

Field	Mereen	ie	Location:		RN004620						
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend	
Electrical conductivity	μS/cm	-	1	8	1072	1093	1127	1285	1390	Falling	
pH	pH Unit	_	0.01	8	6.52	6.69	6.88	7.02	7.08	No Trend	
Temperature	°C	_	0.1	8	25.0	25.5	26.0	27.5	27.9	No Trend	
General Parameters										1110 (110110	
pH (laboratory)	pH Unit	_	0.01	8	7.48	7.58	7.77	7.90	8.14	Falling	
Electrical conductivity (laboratory)	μS/cm	_	1	8	1230	1274	1280	1300	1320	No Trend	
Total dissolved solids	mg/L	4000 (1)	1	8	800	828	832	845	858	No Trend	
Total suspended solids	mg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>5</td><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>5</td><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>5</td><td>5</td><td>No Trend</td></lor<>	5	5	No Trend	
Gross alpha	Bq/L	0.5	0.05	7	0.13	0.17	0.22	0.31	0.32	Falling	
Gross beta	Bq/L	-	0.1	6	0.82	0.82	0.84	0.89	0.92	No Trend	
Gross beta activity - 40K	Bq/L	_	0.1	7	<lor< td=""><td>0.11</td><td>0.24</td><td>0.27</td><td>0.29</td><td>No Trend</td></lor<>	0.11	0.24	0.27	0.29	No Trend	
Gross beta (excluding k-40)	Bq/L	0.5	0.1	6	0.58	0.61	0.68	0.72	0.75	No Trend	
Major Anions and Cations		0.0	5.1		0.00	0.01	0.00	02	0.70	110 110110	
Bicarbonate	mg/L	_	1	8	112	116	119	125	128	No Trend	
Carbonate	mg/L	_	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Chloride	mg/L	_	1	8	221	235	246	250	265	No Trend	
Sulphate	mg/L	1000	1	8	150	152	155	156	159	No Trend	
Nitrate	mg/L	400	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>0.12</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.12</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.12</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.12</td><td>No Trend</td></lor<>	0.12	No Trend	
Nitrite	mg/L	30	0.01	8	1.12	1.30	1.41	1.50	1.73	No Trend	
Fluoride	mg/L	2	0.1	8	0.5	0.5	0.5	0.5	0.5	No Trend	
Sodium	mg/L	-	1	8	122	125	128	131	136	No Trend	
Potassium	mg/L	_	1	8	23	23	23	24	24	No Trend	
Calcium	mg/L	1000	1	8	56	57	59	59	61	No Trend	
Magnesium	mg/L	-	1	8	37	39	41	42	42	Rising	
Iron	mg/L	-	0.05	8	<lor< td=""><td><lor< td=""><td>0.09</td><td>0.18</td><td>0.20</td><td>Falling</td></lor<></td></lor<>	<lor< td=""><td>0.09</td><td>0.18</td><td>0.20</td><td>Falling</td></lor<>	0.09	0.18	0.20	Falling	
Hydrocarbons	iiig/L		0.00		LOIK	LOIT	0.00	0.10	U.EU	1 daning	
TRH: C6-C10	μg/L	_	20	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
TRH: >C10-C40	µg/L	_	100	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Benzene	µg/L	_	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Toluene	µg/L	_	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethylbenzene	µg/L	_	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Total Xylenes	µg/L	_	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Naphthalene	µg/L	_	5	8	1	1	3	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
PAH Suite	µg/L	-	0.5	8	- <lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Gases	P9'L		0.0		LOIK	LOIT	LOIL	LOIX	LOIT	110 Hond	
Methane	μg/L	_	10	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethane	µg/L	_	10	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Propane	µg/L	-	10	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Metals/metalloids	P9'L				LOIK	LOIT	LOIT	LOIT	LOIT	THO HONG	
Chromium	mg/L	1	0.001	8	<lor< td=""><td>0.002</td><td>0.003</td><td>0.005</td><td>0.007</td><td>No Trend</td></lor<>	0.002	0.003	0.005	0.007	No Trend	
Copper	mg/L	1 (2)	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lead	mg/L	0.1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Manganese	mg/L	-	0.001	8	0.002	0.004	0.008	0.012	0.029	No Trend	
Mercury	mg/L	0.002	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silver	mg/L	0.002	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Arsenic	mg/L	0.5	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Barium	mg/L	-	0.001	8	0.034	0.035	0.037	0.043	0.050	No Trend	
Boron	mg/L	5	0.001	8	0.034	0.033	0.037	0.043	0.030	No Trend	
Cadmium	mg/L	0.01	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>0.29</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.29</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.29</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.29</td><td>No Trend</td></lor<>	0.29	No Trend	
Lithium	mg/L	-	0.0001	8	0.009	0.010	0.011	0.012	0.00	No Trend	
Selenium	mg/L	0.02	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silica		-		8		16.30	16.40		17.20		
	mg/L	-	0.05	8	15.70			16.90		No Trend	
Strontium	mg/L	0.0	0.001		0.496	0.516	0.528	0.550	0.586	No Trend	
Zinc (1),(2) - guideline value for beef cattle	mg/L	20	0.005	8	0.015	0.015	0.019	0.021	0.027	Rising	

Field	Palm Va	alley	Location:		RN006503						
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend	
Electrical conductivity	μS/cm	-	1	7	1315	1358	1537	1627	1693	Falling	
pН	pH Unit	-	0.01	7	6.93	7.11	7.15	7.24	7.78	No Trend	
Temperature	°C	-	0.1	6	22.0	24.0	24.3	25.5	27.4	No Trend	
General Parameters											
pH (laboratory)	pH Unit	-	0.01	8	7.65	7.84	8.02	8.14	8.30	Falling	
Electrical conductivity (laboratory)	μS/cm	-	1	8	1400	1446	1580	1662	1690	No Trend	
Total dissolved solids	mg/L	4000 (1)	1	8	910	940	1030	1080	1100	No Trend	
Total suspended solids	mg/L	-	1	8	3	4	12	28	39	No Trend	
Gross alpha	Bq/L	0.5	0.05	7	0.62	0.63	0.75	0.83	1.81	No Trend	
Gross beta	Bq/L	-	0.1	7	0.44	0.45	0.53	0.64	1.42	No Trend	
Gross beta activity - 40K	Bq/L	-	0.1	7	<lor< td=""><td>0.13</td><td>0.20</td><td>0.35</td><td>1.00</td><td>No Trend</td></lor<>	0.13	0.20	0.35	1.00	No Trend	
Gross beta (excluding k-40)	Bq/L	0.5	0.1	7	0.26	0.30	0.32	0.35	0.42	No Trend	
Major Anions and Cations											
Bicarbonate	mg/L	-	1	8	217	242	264	273	276	Rising	
Carbonate	mg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>3</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>3</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>3</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>3</td><td>No Trend</td></lor<>	3	No Trend	
Chloride	mg/L	-	1	8	196	200	239	262	274	Rising	
Sulphate	mg/L	1000	1	8	246	250	263	278	285	No Trend	
Nitrate	mg/L	400	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Nitrite	mg/L	30	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.02</td><td>0.45</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.02</td><td>0.45</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.02</td><td>0.45</td><td>No Trend</td></lor<>	0.02	0.45	No Trend	
Fluoride	mg/L	2	0.1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>0.2</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.2</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.2</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.2</td><td>No Trend</td></lor<>	0.2	No Trend	
Sodium	mg/L	-	1	8	127	132	141	150	154	No Trend	
Potassium	mg/L	-	1	8	9	10	11	11	15	No Trend	
Calcium	mg/L	1000	1	8	108	113	119	124	130	No Trend	
Magnesium	mg/L	-	1	8	46	48	50	53	56	No Trend	
Iron	mg/L	_	0.05	8	<lor< td=""><td><lor< td=""><td>0.32</td><td>1.65</td><td>2.00</td><td>Falling</td></lor<></td></lor<>	<lor< td=""><td>0.32</td><td>1.65</td><td>2.00</td><td>Falling</td></lor<>	0.32	1.65	2.00	Falling	
Hydrocarbons								11111		,	
TRH: C6-C10	μg/L	_	20	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
TRH: >C10-C40	μg/L	-	100	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Benzene	µg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Toluene	µg/L	-	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethylbenzene	µg/L	_	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Total Xylenes	µg/L	_	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Naphthalene	µg/L	_	5	8	1	1	3	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
PAH Suite	µg/L	_	0.5	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Gases	P3-									110 110110	
Methane	μg/L		10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethane	µg/L	_	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Propane	µg/L	_	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Metals/metalloids	P9'-			,	20.1	20.1	2011	20.0	2011	110 110110	
Chromium	mg/L	1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Copper	mg/L	1 (2)	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lead	mg/L	0.1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Manganese	mg/L	0.1	0.001	8	0.011	0.051	0.058	0.079	0.088	No Trend	
		0.002		8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td></td></lor<></td></lor<>	<lor< td=""><td></td></lor<>		
Mercury	mg/L	0.002	0.0001							No Trend	
Silver	mg/L	- 0.5	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td></td></lor<></td></lor<>	<lor< td=""><td></td></lor<>		
Arsenic	mg/L	0.5	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Barium	mg/L		0.001	8	0.052	0.054	0.074	0.142	0.315	No Trend	
Boron	mg/L	5	0.05	8	0.08	0.09	0.11	0.13	0.14	No Trend	
Cadmium	mg/L	0.01	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lithium	mg/L		0.001	8	0.044	0.047	0.063	0.079	0.100	No Trend	
Selenium	mg/L	0.02	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silica	mg/L	-	0.05	8	20.10	20.24	20.55	21.18	21.30	No Trend	
Strontium	mg/L	-	0.001	8	0.910	0.966	1.390	2.390	3.270	No Trend	
Zinc (1),(2) - guideline value for beef cattle	mg/L	20	0.005	8	<lor< td=""><td><lor< td=""><td>0.008</td><td>0.013</td><td>0.014</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.008</td><td>0.013</td><td>0.014</td><td>No Trend</td></lor<>	0.008	0.013	0.014	No Trend	

(1),(2) - guideline value for beef cattle 0.5

Guideline value exceeded

Not analysed

Less than the limit of reporting

<LOR

Field	Dingo		Location:		RN011831						
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend	
Electrical conductivity	μS/cm	-	1	7	1230	1259	1364	1501	1930	No Trend	
pH	pH Unit	-	0.01	7	6.69	6.93	7.35	7.43	7.76	No Trend	
Temperature	°C	-	0.1	7	13.6	18.4	24.0	27.2	27.7	No Trend	
General Parameters											
pH (laboratory)	pH Unit	-	0.01	8	7.97	8.11	8.29	8.36	8.44	No Trend	
Electrical conductivity (laboratory)	μS/cm	-	1	9	1350	1408	1470	1514	1520	No Trend	
Total dissolved solids	mg/L	4000 (1)	1	9	878	915	956	984	988	No Trend	
Total suspended solids	mg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>4</td><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>4</td><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>4</td><td>5</td><td>No Trend</td></lor<>	4	5	No Trend	
Gross alpha	Bq/L	0.5	0.05	7	0.60	0.73	0.77	0.78	0.86	Falling	
Gross beta	Bq/L	-	0.1	7	0.55	0.59	0.63	0.64	1.49	No Trend	
Gross beta activity - 40K	Bq/L	-	0.1	7	<lor< td=""><td>0.10</td><td>0.12</td><td>0.19</td><td>1.09</td><td>No Trend</td></lor<>	0.10	0.12	0.19	1.09	No Trend	
Gross beta (excluding k-40)	Bq/L	0.5	0.1	7	0.40	0.44	0.48	0.50	0.52	No Trend	
Major Anions and Cations							~	·			
Bicarbonate	mg/L	-	1	8	265	276	295	312	319	No Trend	
Carbonate	mg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>8</td><td>20</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>8</td><td>20</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>8</td><td>20</td><td>No Trend</td></lor<>	8	20	No Trend	
Chloride	mg/L	-	1	9	236	242	247	269	306	No Trend	
Sulphate	mg/L	1000	1	8	105	108	120	124	125	No Trend	
Nitrate	mg/L	400	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Nitrite	mg/L	30	0.01	8	0.11	0.13	0.23	0.49	0.62	No Trend	
Fluoride	mg/L	2	0.1	8	1.0	1.1	1.1	1.2	1.2	Rising	
Sodium	mg/L	-	1	8	130	136	143	145	153	No Trend	
Potassium	mg/L	-	1	8	15	15	16	16	17	No Trend	
Calcium	mg/L	1000	1	8	58	70	72	74	76	Falling	
Magnesium	mg/L	-	1	8	53	58	61	62	64	No Trend	
Iron	mg/L	-	0.05	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Hydrocarbons											
TRH: C6-C10	μg/L	-	20	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
TRH: >C10-C40	μg/L	-	100	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Benzene	μg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Toluene	μg/L	-	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>4</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>4</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>4</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>4</td><td>No Trend</td></lor<>	4	No Trend	
Ethylbenzene	μg/L	-	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Total Xylenes	μg/L	-	2	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Naphthalene	μg/L	-	5	8	1	1	3	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
PAH Suite	μg/L	-	0.5	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Gases											
Methane	μg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Ethane	μg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Propane	μg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Dissolved Metals/metalloids											
Chromium	mg/L	1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.002</td><td>0.003</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.002</td><td>0.003</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.002</td><td>0.003</td><td>No Trend</td></lor<>	0.002	0.003	No Trend	
Copper	mg/L	1 (2)	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.002</td><td>0.003</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.002</td><td>0.003</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.002</td><td>0.003</td><td>No Trend</td></lor<>	0.002	0.003	No Trend	
Lead	mg/L	0.1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Manganese	mg/L	-	0.001	8	<lor< td=""><td><lor< td=""><td>0.002</td><td>0.004</td><td>0.008</td><td>Falling</td></lor<></td></lor<>	<lor< td=""><td>0.002</td><td>0.004</td><td>0.008</td><td>Falling</td></lor<>	0.002	0.004	0.008	Falling	
Mercury	mg/L	0.002	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silver	mg/L	-	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Arsenic	mg/L	0.5	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Barium	mg/L	-	0.001	8	0.054	0.066	0.073	0.078	0.080	No Trend	
Boron	mg/L	5	0.05	8	0.25	0.26	0.29	0.31	0.64	No Trend	
Cadmium	mg/L	0.01	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Lithium	mg/L	-	0.001	8	0.011	0.012	0.012	0.015	0.024	No Trend	
Selenium	mg/L	0.02	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend	
Silica	mg/L	-	0.05	8	16.70	17.16	18.00	18.66	19.70	Rising	
Strontium	mg/L	-	0.001	8	0.682	0.724	0.753	0.773	0.825	No Trend	
Zinc	mg/L	20	0.005	8	0.014	0.016	0.029	0.075	0.105	Falling	

(1),(2) - guideline value for beef cattle 0.5

Guideline value exceeded

Not analysed

Less than the limit of reporting

<LOR

Field	Palm Va	alley	Location:	RN012024						
Field Parameters	Units	ANZECC (2000) Livestock	LOR	No. Samples	Min	P20	P50	P80	Max	Mann- Kendall Trend
Electrical conductivity	μS/cm	-	1	8	1057	1114	1172	1262	1315	No Trend
рН	pH Unit	-	0.01	8	6.99	7.06	7.10	7.31	7.37	No Trend
Temperature	°C	-	0.1	8	24.8	25.3	25.9	26.6	27.4	No Trend
General Parameters										
pH (laboratory)	pH Unit	-	0.01	8	7.64	7.73	7.95	8.21	8.33	Falling
Electrical conductivity (laboratory)	μS/cm	-	1	9	1060	1148	1270	1340	1370	Rising
Total dissolved solids	mg/L	4000 (1)	1	9	689	746	826	871	890	Rising
Total suspended solids	mg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>5</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>5</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>5</td><td>No Trend</td></lor<>	5	No Trend
Gross alpha	Bq/L	0.5	0.05	7	0.26	0.29	0.33	0.34	0.38	No Trend
Gross beta	Bq/L	-	0.1	7	0.18	0.22	0.25	0.29	1.09	No Trend
Gross beta activity - 40K	Bq/L	-	0.1	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.12</td><td>0.93</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.12</td><td>0.93</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.12</td><td>0.93</td><td>No Trend</td></lor<>	0.12	0.93	No Trend
Gross beta (excluding k-40)	Bq/L	0.5	0.1	7	0.08	0.12	0.15	0.17	0.17	No Trend
Major Anions and Cations										
Bicarbonate	mg/L	- 1	1	8	295	306	318	374	378	No Trend
Carbonate	mg/L	-	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td>3</td><td>7</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>3</td><td>7</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>3</td><td>7</td><td>No Trend</td></lor<>	3	7	No Trend
Chloride	mg/L	-	1	9	114	138	171	184	201	Rising
Sulphate	mg/L	1000	1	8	62	65	72	100	110	Rising
Nitrate	mg/L	400	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Nitrite	mg/L	30	0.01	8	2.42	3.15	5.31	7.80	8.75	No Trend
Fluoride	mg/L	2	0.1	8	0.5	0.6	0.6	0.7	0.7	No Trend
Sodium	mg/L	-	1	8	78	87	100	120	122	Rising
Potassium	mg/L	_	<u>·</u> 1	8	6	6	6	7	7	No Trend
Calcium	mg/L	1000	1	8	69	73	77	85	86	No Trend
Magnesium	mg/L	-	1	8	50	55	60	66	68	No Trend
Iron	mg/L	_	0.05	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Hydrocarbons	IIIg/L		0.03	-	LOIL	LOIX	LOIX	LOIX	LOIN	NO HEIIG
TRH: C6-C10	ug/l	_	20	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
TRH: >C10-C40	μg/L μg/L	-	100	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Benzene	μg/L	_	1	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Toluene			2	8	<lor< td=""><td><lor <lor< td=""><td><lor< td=""><td><lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor </td></lor<></td></lor<></lor </td></lor<>	<lor <lor< td=""><td><lor< td=""><td><lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor </td></lor<></td></lor<></lor 	<lor< td=""><td><lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor </td></lor<>	<lor <lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></lor 	<lor< td=""><td>No Trend</td></lor<>	No Trend
	μg/L	-	2	8			<lor <lor< td=""><td></td><td></td><td>_</td></lor<></lor 			_
Ethylbenzene Total Vulance	μg/L	-	2		<lor< td=""><td><lor< td=""><td></td><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td></td><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>		<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Total Xylenes	μg/L	-		8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Naphthalene	μg/L	-	5	8	1	1 100	3	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
PAH Suite	μg/L	-	0.5	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Dissolved Gases										T
Methane	µg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Ethane	µg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Propane	µg/L	-	10	7	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Dissolved Metals/metalloids										T
Chromium	mg/L	1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Copper	mg/L	1 (2)	0.001	8	<lor< td=""><td>0.002</td><td>0.003</td><td>0.004</td><td>0.009</td><td>No Trend</td></lor<>	0.002	0.003	0.004	0.009	No Trend
Lead	mg/L	0.1	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Manganese	mg/L	-	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>0.020</td><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>0.020</td><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>0.020</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.020</td><td>No Trend</td></lor<>	0.020	No Trend
Mercury	mg/L	0.002	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Silver	mg/L	-	0.001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Arsenic	mg/L	0.5	0.001	8	<lor< td=""><td><lor< td=""><td>0.002</td><td>0.002</td><td>0.003</td><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>0.002</td><td>0.002</td><td>0.003</td><td>No Trend</td></lor<>	0.002	0.002	0.003	No Trend
Barium	mg/L	-	0.001	8	0.053	0.061	0.063	0.073	0.315	No Trend
Boron	mg/L	5	0.05	8	0.19	0.22	0.31	0.37	0.39	No Trend
Cadmium	mg/L	0.01	0.0001	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Lithium	mg/L	-	0.001	8	0.015	0.015	0.017	0.020	0.031	No Trend
Selenium	mg/L	0.02	0.01	8	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<></td></lor<>	<lor< td=""><td><lor< td=""><td>No Trend</td></lor<></td></lor<>	<lor< td=""><td>No Trend</td></lor<>	No Trend
Silica	mg/L	-	0.05	8	29.60	33.70	43.10	43.66	48.70	No Trend
Strontium	mg/L	-	0.001	8	0.327	0.348	0.369	0.408	1.520	No Trend
	mg/L	20	0.005	8				_		_

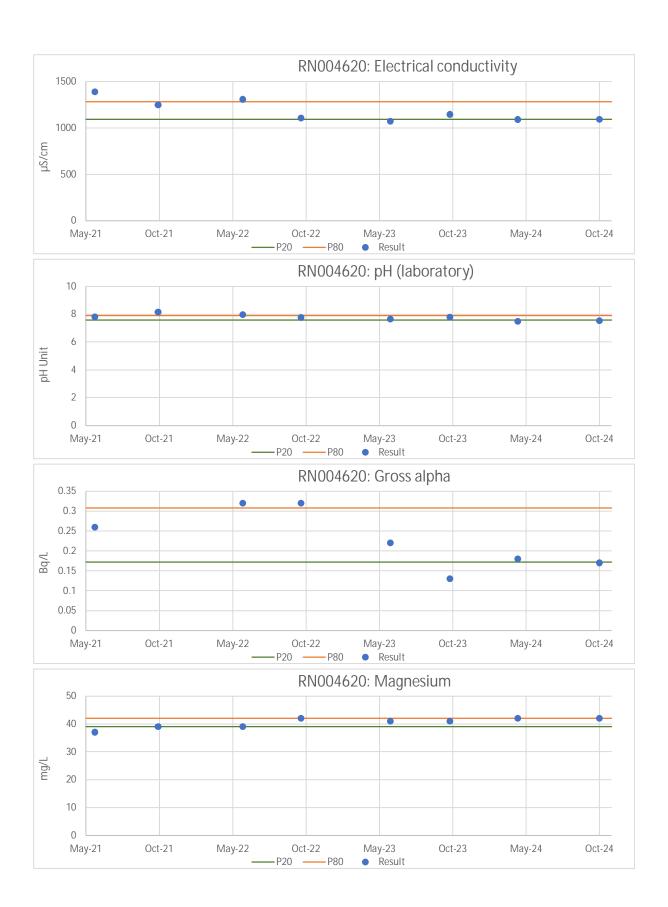
(1),(2) - guideline value for beef cattle 0.5

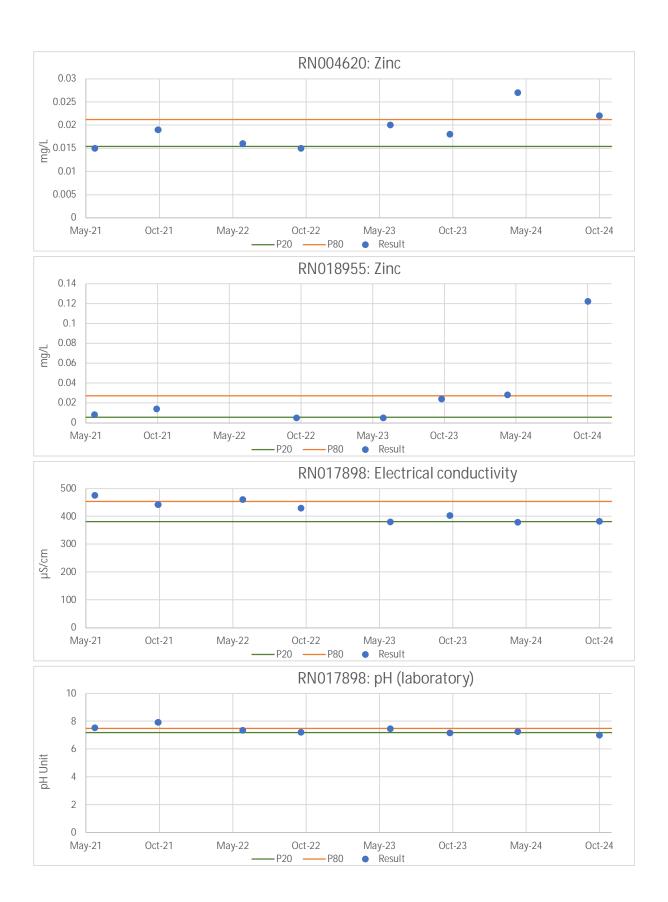
Guideline value exceeded

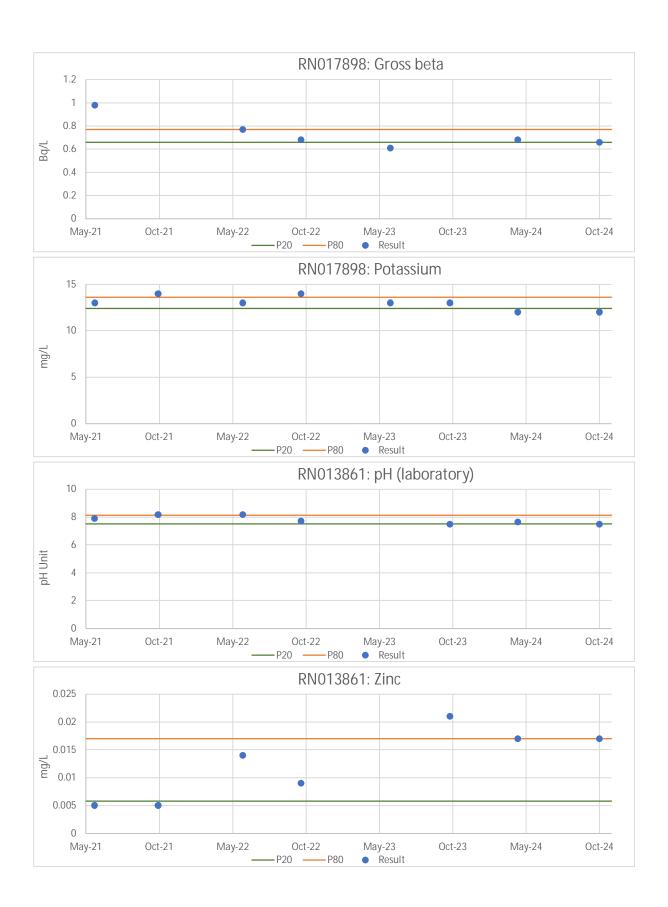
Not analysed

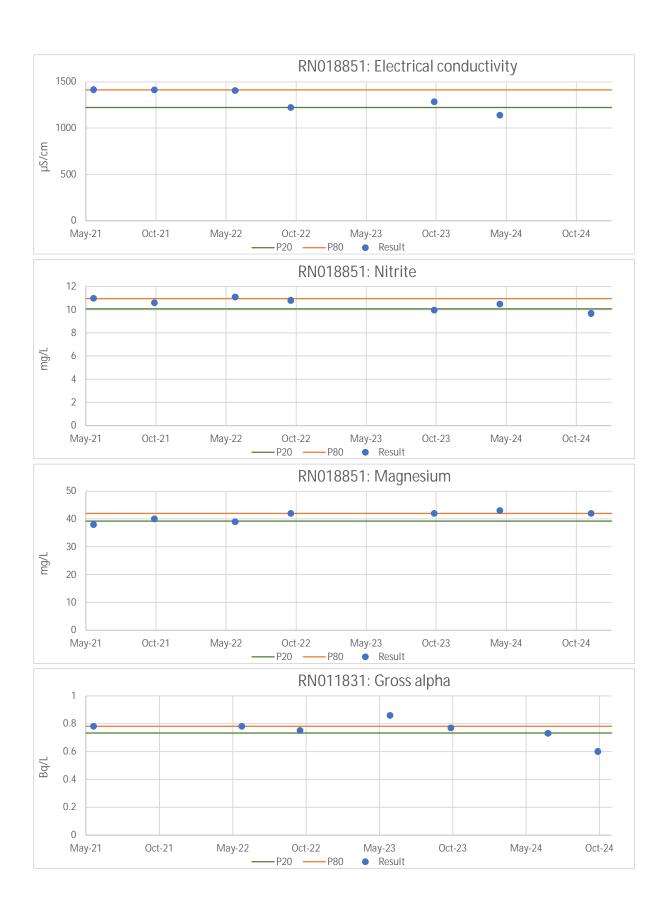
Less than the limit of reporting

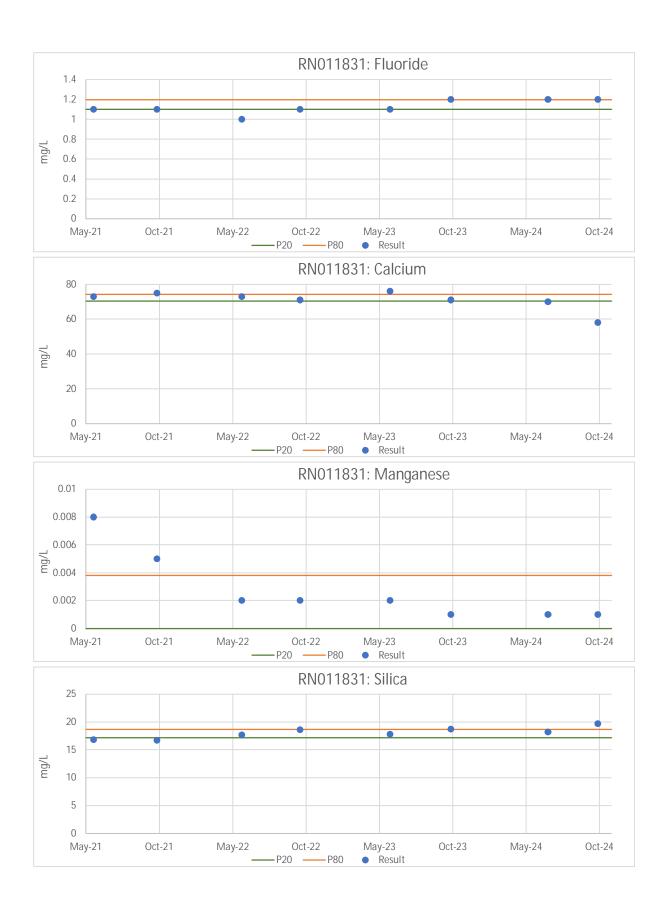
<LOR

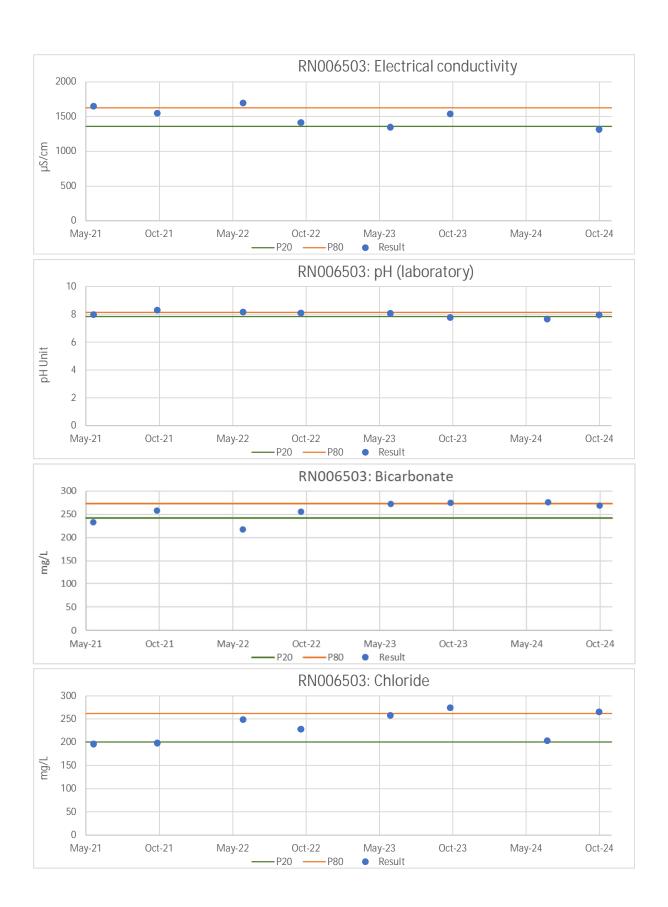


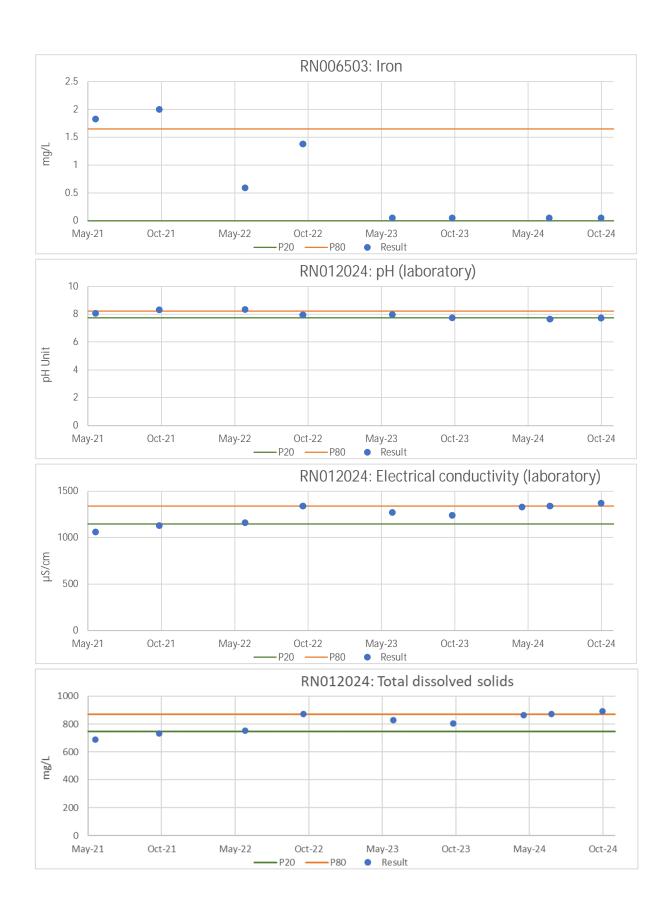


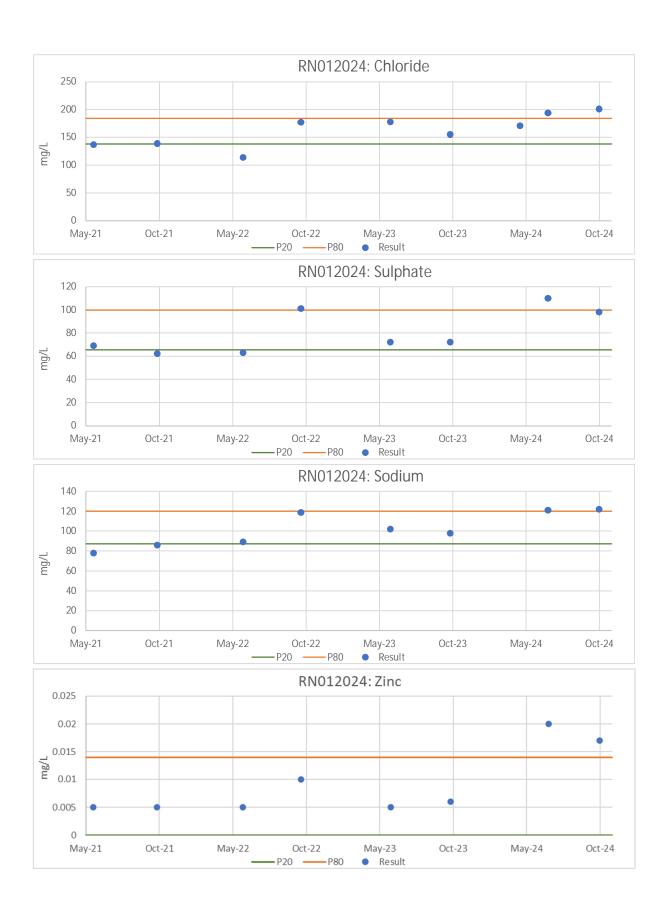












Field: Palm Valley Location:				Palm Creek Lower Oasis						
Field Parameters	Units	LOR	No. Samples	Min	P20	P50	P80	Max		
Electrical conductivity	μS/cm	1	8	11	485	1266	1904	3100		
рН	pH Unit	0.01	8	7.70	7.82	8.12	8.59	9.06		
Temperature	°C	0.1	8	17.0	20.4	22.7	29.2	31.2		

Field: Palm Valley		Location: Palm Valley Area Spring No 8						
Field Parameters	Units	LOR	No. Samples	Min	P20	P50	P80	Max
Electrical conductivity	μS/cm	1	4	168	385	869	1336	1527
рН	pH Unit	0.01	4	8.37	8.75	9.01	9.02	9.03
Temperature	°C	0.1	4	19.0	19.2	20.1	23.9	28.6

Field: Palm Valley Location:				Palm Valley Area Spring No 9						
Field Parameters	Units	LOR	No. Samples	Min	P20	P50	P80	Max		
Electrical conductivity	μS/cm	1	8	761	953	2299	5884	7740		
pН	pH Unit	0.01	8	8.50	8.76	9.13	9.26	9.61		
Temperature	°C	0.1	8	19.2	21.2	23.0	27.8	30.7		

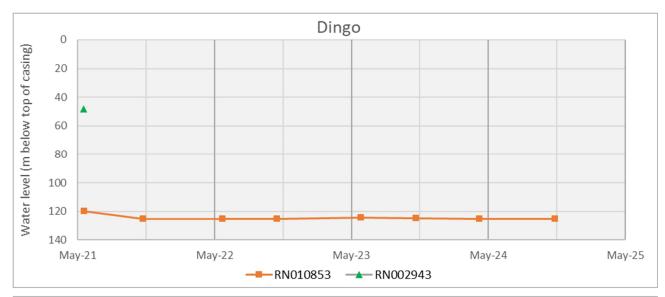
Field: Palm Valley Location:				Pimelia Spring						
Field Parameters	Units	LOR	No. Samples	Min	P20	P50	P80	Max		
Electrical conductivity	μS/cm	1	4	176	579	907	1896	3290		
рН	pH Unit	0.01	4	7.76	8.26	8.65	8.75	8.84		
Temperature	°C	0.1	4	21.0	22.3	23.2	25.6	29.2		

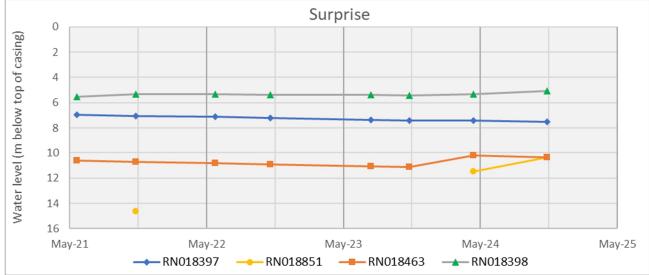
# **Appendix C - Water Level and Wellhead Pressure Monitoring**

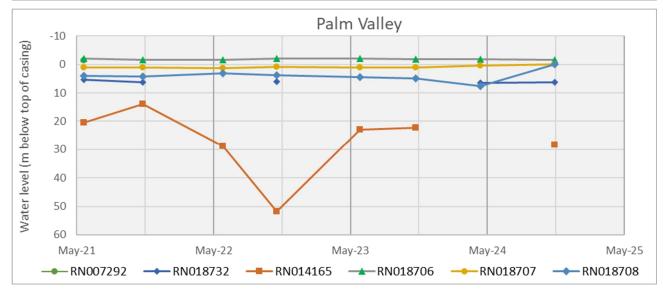
	D	N002943	RN010	1052	DA	1017540	1 -		_	_	_	_
		48.09		119.74	-	Blocked at 97.13m						
	18/05/2021		19/05/2021		18/05/2021							
	24/10/2021	dry at 50.6m	24/10/2021	125.33	24/10/2021	dry at 54m						
	24/05/2022	Dry at 51m	24/05/2022	125.38	24/05/2022	Dry at 29.6m						
Dingo	16/10/2022	Dry at 51m	16/10/2022	125.34	16/10/2022	Dry at 28.2m						
	28/05/2023	Bore collapsed	28/05/2023	124.5	28/05/2023	Bore collapsed						
	23/10/2023	Bore collapsed	23/10/2023	124.8	23/10/2023	Bore collapsed						
	9/04/2024	Dry	9/04/2024	125.44	9/04/2024	No access						
	28/10/2024	Bore collapsed	28/10/2024	125.46	28/10/2024	Dry						
	RI	N018851	RN018	3397	RI	1018463	RN01	8398				
	20/05/2021	No Access	20/05/2021	6.94	20/05/2021	10.595	20/05/2021	5.525				
	26/10/2021	14.62	26/10/2021	7.04	26/10/2021	10.7	26/10/2021	5.31				
	25/05/2022	Not measured	25/05/2022	7.1	25/05/2022	10.82	25/05/2022	5.34				
Surprise	17/10/2022	Not measured	19/10/2022	7.2	19/10/2022	10.91	19/10/2022	5.38				
	15/07/2023	Not measured	15/07/2023	7.35	15/07/2023	11.06	15/07/2023	5.38				
	26/10/2023	Not measured	26/10/2023	7.4	26/10/2023	11.14	26/10/2023	5.43				
	14/04/2024	11.46	14/04/2024	7.42	14/04/2024	10.23	14/04/2024	5.31				
	29/10/2024	10.38	29/10/2024	7.5	29/10/2024	10.38	29/10/2024	5.08				
	RI	N007292	RN018	3732	RI	1014165	RN01	8706	RN01	8707	RN01	8708
	21/05/2021	-1.43	20/05/2021	5.45	20/05/2021	20.56	21/05/2021	-2.14	20/05/2021	1.03	20/05/2021	3.92
	25/10/2021	No access (subartesian)	25/10/2021	6.15	25/10/2021	14.02	25/10/2021	-1.63	25/10/2021	1.01	25/10/2021	4.27
	27/05/2022	No access	27/05/2022	No access	27/05/2022	28.73	27/05/2022	-1.6	27/05/2022	1.2	27/05/2022	3.16
Palm Valley	18/10/2022	Locked	18/10/2022	5.97	18/10/2022	51.84	18/10/2022	-2	18/10/2022	0.73	18/10/2022	3.8
	29/05/2023	No access	29/05/2023	No access	29/05/2023	23.05	29/05/2023	-2.03	29/05/2023	1	29/05/2023	4.4
	25/10/2023	No access	25/10/2023	No access	25/10/2023	22.15	25/10/2023	-1.93	25/10/2023	1.1	25/10/2023	4.8
	14/04/2024	No access	14/04/2024	6.5	14/04/2024	Fused closed	14/04/2024	-1.93	14/04/2024	0.29	14/04/2024	7.6
	30/10/2024	No access	30/10/2024	6.17	30/10/2024	28.26	30/10/2024	-1.734694	30/10/2024	0	30/10/2024	0

Water level measured as meters below reference point. Negative denotes artesian conditions

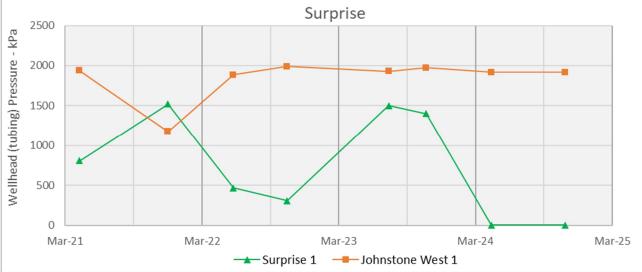
		Dingo 2	Dingo 3				
	12/05/2021	20159	12/05/2021	17408			
	27/10/2021	15165	28/10/2021	9610			
	24/05/2022	16343	24/05/2022	9350			
Dingo	16/10/2022	17364	16/10/2022	9463			
	28/05/2023	18200	28/05/2023	9312			
	23/10/2023	16423	23/10/2023	9471			
	9/04/2024	10560	9/04/2024	9312			
	28/10/2024	10560	28/10/2024	9312			
		Surprise 1	Johnstone West 1				
	8/04/2021	810	8/04/2021	1938			
	1/12/2021	1520	1/12/2021	1175			
	25/05/2022	468	25/05/2022	1885			
Surprise	16/10/2022	308	16/10/2022	1991			
	15/07/2023	1501	15/07/2023	1931			
	23/10/2023	1402	23/10/2023	1973			
	14/04/2024	4	14/04/2024	1916			
	29/10/2024	4	29/10/2024	1916			
Wellhead pressure measured in kPa							











# **Appendix D – Photographs of Springs**

#### Palm Creek Lower Oasis

#### April 2024



October 2024



# Palm Valley Area Spring No 8

#### April 2024



October 2024

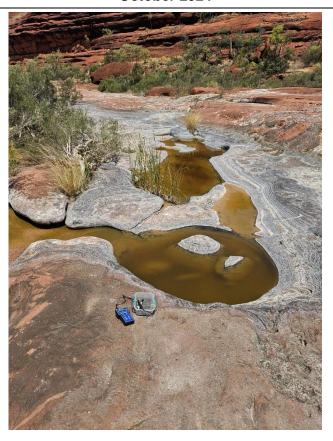


# Palm Valley Area Spring No 9

# May 2024



October 2024



#### **Pimelia Spring**

#### April 2024



October 2024

