

Southern Landfill Annual Monitoring Report - Water Quality Review, June 2017 to May 2020

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Client: Wellington City Council

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### Prepared by

#### **AECOM New Zealand Limited**

Level 19, 171 Featherston Street, Wellington 6011, PO Box 27277, Wellington 6141, New Zealand T +64 4 896 6000 F +64 4 896 6001 www.aecom.com

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Prepared by Kate Shaskey

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# 1.0 Introduction

#### 1.1 Terms of Reference

This report has been prepared for Wellington City Council (WCC) by AECOM New Zealand Limited (AECOM). It presents a summary and interpretation of surface water and groundwater monitoring results obtained by WCC at the Southern Landfill (SLF), Wellington, as required under conditions 25, 26 and 27 and 28 of Resource Consent Number WGN940045 (01) (SLF consent). This report takes account of surface water and groundwater monitoring data obtained over the three year period June 2017 to May 2020 and includes a description of the following:

- · When sampling events took place;
- Main trends in the data for each sampling event; and
- Likely reasons for 'significant' changes observed in the data between monitoring events.

This report forms an addendum to the 2020 Annual Monitoring report prepared by WCC for Greater Wellington Regional Council (GWRC) as required under condition 29 of the SLF consent.

# 1.2 SLF Consent Conditions 25, 26, 27 and 28

A summary of the requirements under SLF consent conditions 25, 26, 27 and 28 are provided below. The parameters included in the compliance monitoring are considered to be contaminants of concern for the landfill.

#### Condition 25:

Monthly monitoring of bores BH2A, BH2B, BH3A (subsequently replaced by BH103A) and BH3B (subsequently replaced by BH103B) and Careys Gully Stream upstream (Upstr Surface Water 1) and downstream (Dstr Surface Water 2) of the landfill for the following parameters:

- pH,
- Conductivity,
- Ammonia as Nitrogen (NH<sub>4</sub>-N),
- Faecal Coliforms,
- 5-day Biochemical Oxygen Demand (BOD<sub>5</sub>),
- Iron; and
- Manganese.

### Condition 26:

Six monthly monitoring of bores BH2A, BH2B, BH3A (BH103A) and BH3B (BH103B) and Careys Gully Stream upstream (Upstr Surface Water 1) and downstream (Dstr Surface Water 2) of the landfill for the following parameters:

- Chlorides,
- Nitrate as Nitrogen,
- Aluminium,
- Boron,
- Arsenic,
- Copper,
- Lead,

- Zinc,
- Nickel.
- Chromium.
- Cadmium; and
- Dissolved Reactive Phosphorous (DRP).

#### Condition 27:

Six monthly monitoring of Careys Gully Stream upstream (Upstr Surface Water 1) and downstream (Dstr Surface Water 2) of the landfill for the following parameters;

- Freshwater macroinvertebrates; and
- Determination of a Macroinvertebrate Community Index (MCI) value.

#### Condition 28:

Monthly monitoring of groundwater pressure (groundwater levels) in bores BH2A, BH2B, BH3A (BH103A), BH3B (BH103B), BH4 and BH5.

# 1.3 Monitoring Locations

The monitoring locations as pictured in the SLF consent are shown by Map 1, presented in **Appendix A**. The monitoring locations are also shown in Figure 3-1 in **Appendix A**, taken from Montgomery Watson New Zealand Limited report Southern Landfill Surface and Groundwater Monitoring Report, June 2001 (MW, 2001), prepared for WCC and by Figure 1 from URS New Zealand Limited (now AECOM) (2013)<sup>1</sup>. Figure 3-1 also shows the location of additional bores, including BH6 located on the edge of the active landfill near BH4 and BH5. Bores BH4 and BH5 are shown as 'destroyed'. In 2001 MW noted that bores BH4 and BH5 were destroyed by landfill development and were replaced in April 2000 by BH6, in agreement with GWRC. Bore BH6 was sampled in general accordance with condition 25 and 26 except during the April 2017 and the October 2018 to March 2020 monitoring periods, as samples which were unable to be collected owing to landslip debris covering the bore<sup>2</sup>. Surface water sampling locations Upstr Surface Water 1 and Dstr Surface Water 2 are also labelled CAREUS and CAREDS, respectively. CAREDS (new) is also shown. It was reported by MW (2001) that CAREDS (new) was established in October 2000 after completion of the stormwater tunnel diversion and that it replaces CAREDS/Dstr Surface Water 2.

# 1.4 Replacement Bore Installation

In April 2013, two new bores (BH103A and BH103B) were installed to replace the existing bores BH3A and BH3B, which were decommissioned. The installation details of these bores were reported to WCC by URS New Zealand Limited (now AECOM) in May 2013¹. As these two new bores were installed in equivalent locations and to equivalent depths as the previous bores (BH103A to 6 m and BH103B to 10 m), the consent conditions outlined above in relation to bores BH3A and BH3A were transferred to the two new bores BH103A and BH103B, respectively. Bores BH3A and BH3B were decommissioned by grouting to ground surface. As this report covers the period June 2017 to May 2020 any reference to historical bores BH3A and BH3B have been removed.

<sup>&</sup>lt;sup>1</sup> Southern Landfill Replacement Monitoring Bores: Bore Completion Report. Report prepared for Wellington City Council, ref 42787950, dated 23 May 2013.

<sup>&</sup>lt;sup>2</sup> It would appear that there is no requirement under the SLF consent for the sampling of this monitoring bore, except that groundwater pressure data should be collected

<sup>\\</sup>NZWLG1FP001.au.aecomnet.com\Projects\606X\60629483\500\_Deliverables\501\_Deliverable\_WCC Southern Landfill Annual Report\2019-2020\FINAL\Wellington Southern Landfill Annual Monitoring Report 2019-2020.docx
Revision Rev 1 – 07-Aug-2020

# 1.5 Data Sources

Surface water and groundwater monitoring data for the SLF are obtained by Eurofins Environmental Laboratory Services (ELS) under contract to WCC. This review by AECOM is based directly on the monitoring information provided to AECOM by WCC (July 2010 to June 2011) and from ELS (July 2011 to May 2020, mainly in the form of excel format workbooks prepared by ELS and (previously) by WCC.

# 2.0 Compliance Summary

# 2.1 Groundwater Monitoring

Compliance with SLF consent requirements for groundwater monitoring between June 2017 and May 2020 is summarised in **Table 1**. Data tables for each bore, including monitoring dates, are presented in **Appendix B**.

Table 1 Summary of Groundwater Monitoring Results against Consent Requirements

D	Resource Co	onsent Requirements	0	
Bore	Condition	Monitoring Parameters	Frequency	Compliance Summary
BH2A BH2B BH3A (BH103A) BH3B (BH103B)	25	<ul> <li>pH</li> <li>Conductivity</li> <li>NH<sub>4</sub>-N</li> <li>Faecal Coliforms</li> <li>BOD<sub>5</sub></li> <li>Iron</li> <li>Manganese</li> </ul>	Monthly	<ul> <li>Fully compliant.</li> <li>Since June/July 2013         <ul> <li>samples have been</li> <li>analysed monthly for</li> <li>chemical oxygen</li> <li>demand; although this is</li> <li>not required by the</li> <li>consent.</li> </ul> </li> </ul>
BH2A BH2B BH3A (BH103A) BH3B (BH103B)	26	<ul> <li>Chlorides</li> <li>Nitrate-Nitrogen</li> <li>Aluminium</li> <li>Boron</li> <li>Arsenic</li> <li>Copper</li> <li>Lead</li> <li>Zinc</li> <li>Nickel</li> <li>Chromium</li> <li>Cadmium</li> <li>Dissolved Reactive Phosphorus</li> </ul>	Six Monthly	<ul> <li>Generally compliant.</li> <li>Six monthly analysis of monitoring parameters not undertaken for two events, June 2019 and December 2019.</li> </ul>
BH2A BH2B BH3A (BH103A) BH3B (BH103B) BH4 BH5 (BH6)	28	Groundwater pressure	Monthly	<ul> <li>Generally compliant.</li> <li>Bore BH6 was substituted for bore BH4 and bore BH5 in April 2000.</li> <li>Groundwater gauging between June and September 2012 is recorded following the purge of the well only. From October 2012 prepurge water levels are recorded.</li> <li>Bore BH6 was not gauged from October 2018 to March 2020 (bore not accessible as covered by debris from landslip).</li> </ul>

# 2.2 Surface Water Monitoring

Compliance with SLF consent requirements for surface water monitoring between June 2017 and May 2020 is summarised in **Table 2**. Data tables for each sampling location, including monitoring dates, are presented in **Appendix B**.

Table 2 Summary of Surface Water Monitoring Results against Consent Requirements

	Resource Co	onsent Requirements				
Surface Water	Condition	Monitoring Parameters	Frequency	Compliance Summary		
Upstr Surface Water 1 and Dstr Surface Water 2	25	<ul> <li>pH</li> <li>Conductivity</li> <li>NH4-N</li> <li>Faecal Coliforms</li> <li>BOD5</li> <li>Iron</li> <li>Manganese</li> </ul>	Monthly	<ul> <li>Fully compliant.</li> <li>Since June 2014 samples         have been analysed         monthly for chemical         oxygen demand and         suspended solids;         although this is not         required by the consent.</li> </ul>		
Upstr Surface Water 1 and Dstr Surface Water 2	26	<ul> <li>Chlorides</li> <li>Nitrate-Nitrogen</li> <li>Aluminium</li> <li>Boron</li> <li>Arsenic</li> <li>Copper</li> <li>Lead</li> <li>Zinc</li> <li>Nickel</li> <li>Chromium</li> <li>Cadmium</li> <li>Dissolved Reactive Phosphorus</li> </ul>	Six Monthly	<ul> <li>Generally compliant.</li> <li>Six monthly analysis of monitoring parameters not undertaken for two events, June 2019 and December 2019</li> <li>Dstr Surface Water 2 June 2018 sample not analysed for faecal coliforms.</li> <li>Nitrate-nitrogen is being analysed on a monthly basis; although this is not required by the consent.</li> </ul>		
Upstr Surface Water 1 and Dstr Surface Water 2	27	<ul> <li>Freshwater         macro         invertebrates</li> <li>Determination of         a MCI value</li> </ul>	Six Monthly	<ul> <li>Generally compliant.</li> <li>One sampling event not undertaken during December 2019.</li> </ul>		

# 3.0 Monitoring Results

### 3.1 Groundwater Levels

Groundwater gauging data are presented in the data tables for each bore, included as **Appendix B**. Results are summarised in **Table 3**. Groundwater levels were recorded at their lowest over the summer period November 2017 through April 2018; and to a lesser extent over the summer period November 2019 through February 2020. Overall, no significant trends in groundwater levels were recorded.

Table 3 Summary of Depth to Groundwater Measurements (June 2017 to May 2020)

Bore	Depth to Groundwater (m btoc)					
Dole	Minimum	Maximum				
BH2A	1.4	3.5				
ВН2В	1.2	2.5				
BH103A	3.0	4.9				
BH103B*	2.8	7.1				
BH6	0.4	2.0				

#### Note:

m btoc - metres below top of casing (of bore).

BH6 not gauged from October 2018 to March 2020 as the bore was not accessible (covered by debris from a landslip).
\*AECOM notes that groundwater levels recorded in BH103B typically range between 4.1 m btoc and 5.5 m btoc, however levels recorded in January 2020 and February 2020 were reported at 7.1 m btoc and 2.8 m btoc, respectively. ELS have been queried regarding these groundwater levels, however AECOM have not yet received a response as of the date of this report.

# 3.2 Groundwater Analyses

Compliance monitoring results for bores BH2A, BH2B, BH103A and BH103B are summarised in **Table 4** through **Table 7**. Full results are presented in **Appendix B**. Time series graphs of individual constituents for each monitoring bore are presented in **Appendix C**. In summary:

- Contaminants of concern have been recorded within each of the bores over the compliance monitoring period. This would suggest that historic activities at the Carey's Gully Complex may have impacted the groundwater at the toe of the landfill.
- Short term variability in concentrations of contaminants of concern were recorded across all sample locations over the compliance monitoring period. The greatest number of individual data spikes were recorded as part of the December 2017, February 2018 and November 2019 compliance monitoring events.
- A comparison of water quality recorded across the bores indicates that recorded concentrations
  of key contaminants of concern such as ammoniacal nitrogen, BOD<sub>5</sub>, faecal coliforms, and
  dissolved manganese are elevated in bore BH103B (and BH103A to a lesser extent).
- Based on a visual analysis of the time series graphs:
  - No significant short-term trends in contaminant concentrations were recorded over the compliance monitoring period.
  - The following parameters illustrate potentially increasing long-term trends (entire dataset), with recent concentrations generally recorded higher than historical values:
    - BH2A: electrical conductivity and phosphorous.
    - BH2B: electrical conductivity and manganese.
    - BH3A: pH.

- BH3B: BOD<sub>5</sub>.
- The following parameters illustrate potentially decreasing long-term trends:
  - BH2A: nitrate-nitrogen.
  - BH2B: nitrate-nitrogen.
  - BH3A: electrical conductivity.
  - BH3B: electrical conductivity and aluminium.
- Faecal coliforms have been periodically recorded at all locations. A review of longer term trends
  in faecal coliform concentrations (40 individual data points over the period February 2017 through
  May 2020) using Mann-Kendall statistical analysis indicates increasing trends in contaminant
  concentrations in bore BH103B, and no trend in bores BH2A, BH2B and BH103A. Mann-Kendall
  statistical analysis for faecal coliforms are presented in Appendix D.
- A review of longer term trends in manganese concentrations (40 individual data points over the
  period February 2017 through May 2020) using Mann-Kendall statistical analysis indicates either
  no trend (in bores BH2A and BH2B) or decreasing trends (in bores BH103A and BH103B). MannKendall statistical analysis for manganese is presented in Appendix D.
- Further investigations into the increasing faecal coliform trend at BH103B have been initiated by WCC, these investigations had not been concluded within this reporting period.

Table 4 Summary of Groundwater Quality Results for Bore BH2A (June 2017 through May 2020)

	Recorded Concentration		Comment
Parameter	Median	Maximum	Comment
Ammonia Nitrogen	0.01	0.04	<ul> <li>Generally less than the MDL.</li> <li>Spike recorded – February 2018, June 2018 and December 2019.</li> </ul>
BOD <sub>5</sub> – Total	1	6	<ul> <li>Generally less than the MDL.</li> <li>Spike recorded – November 2018, June and November 2019.</li> </ul>
Conductivity at 25°C (mS/m) <sup>3</sup>	85.15	106	Spike recorded – September 2018.
Faecal Coliforms (cfu/100ml)	1	110	<ul> <li>Generally less than MDL.</li> <li>Spike recorded – February 2018 and March 2019.</li> </ul>
Manganese - Dissolved	0.0172	0.645	Spike recorded – February 2018, September 2018, May 2019 and April 2020.
Aluminium – Dissolved	0.003	0.005	<ul><li>Generally less than the MDL.</li><li>Spike recorded – December 2017.</li></ul>
Chloride	96.35	101	Spike recorded – December 2017.
Copper - Dissolved	0.00085	0.0012	Spike recorded – December 2017 and June 2018.
Dissolved Reactive Phosphorus	0.0185	0.041	Spike recorded – June 2018.
Nickel - Dissolved	0.0009	0.0014	Spike recorded – December 2017.
Nitrate – Nitrogen	2.005	3.7	<ul><li>Slight decreasing trend to December 2017.</li><li>Spike recorded – June 2018.</li></ul>
Zinc - Dissolved	0.002	0.006	Spike recorded – December 2017.

Note: \* – trend relative to the compliance monitoring period June 2016 through May 2020 All values g/m³ unless otherwise noted; mS/m – milli siemens per metre, cfu/100ml – colony forming units per 100 millilitres. The following parameters have been removed from the table as recorded concentrations were generally below the MDL over the monitoring period and/or no significant change/trends in contaminant concentrations were recorded – iron (dissolved), pH, arsenic (dissolved), boron (dissolved), cadmium (dissolved), chromium (dissolved), and lead (dissolved).

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Table 5 Summary of Groundwater Quality Results for Bore BH2B (June 2017 through May 2020)

Daramatar	Recorded Cor	ncentration	Comment				
Parameter	Median	Maximum	Comment				
Ammonia Nitrogen	0.01	0.15	<ul> <li>Generally less than MDL.</li> <li>Spike recorded – February 2018, January and April 2020.</li> </ul>				
BOD <sub>5</sub> – Total	1	6	<ul> <li>Generally less than MDL.</li> <li>Spike recorded – November 2018, June and November 2019.</li> </ul>				
Conductivity at 25°C (mS/m)	106	113	Period low in June 2018.				
Faecal Coliforms (cfu/100ml)	1	36	<ul><li>Generally less than the MDL.</li><li>Spike recorded - February 2018.</li></ul>				
Manganese - Dissolved	0.2725	1.43	Spike recorded – February 2018.				
pH (pH units)	6.8	8	Spike recorded – May 2019.				
Chloride	108	109	Period low in June 2018.				
Copper - Dissolved	0.0007	0.0039	<ul> <li>Generally less than MDL.</li> <li>Slight increase – December 2017.</li> <li>Spike identified – June 2018.</li> </ul>				
Iron – Dissolved	0.01	0.71	<ul><li>Generally less than MDL.</li><li>Spike identified – January and April 2020.</li></ul>				
Nickel - Dissolved	0.0016	0.003	Slight increase – December 2017.				
Nitrate-Nitrogen	1.065	1.59	<ul><li>Slight decreasing trend to December 2016.</li><li>Slight increase – June 2018.</li></ul>				
Zinc - Dissolved	0.0025	0.012	<ul><li>Generally less than MDL.</li><li>Spike identified – December 2017.</li></ul>				

Note: \* – trend relative to the compliance monitoring period June 2016 through May 2020 All values g/m³ unless otherwise noted; mS/m – milli siemens per metre, cfu/100ml – colony forming units per 100 millilitres. The following parameters have been removed from the table as recorded concentrations were generally below the MDL over the monitoring period and/or no significant change/trends in contaminant concentrations were recorded – iron (dissolved), aluminium (dissolved), arsenic (dissolved), boron (dissolved), cadmium (dissolved), chloride, chromium (dissolved), dissolved reactive phosphorus, lead (dissolved), and nitrate nitrogen.

Table 6 Summary of Groundwater Quality Results for Bore BH103A (June 2017 through May 2020)

Doromotor	Recorded Concentration		Commont
Parameter	Median	Maximum	Comment
Ammonia Nitrogen	0.01	0.42	Spike recorded – October 2017, March and November 2019.
BOD <sub>5</sub> – Total	1	6	Generally less than the MDL.
Conductivity at 25°C (mS/m)	63.1	126	<ul><li>Spike recorded – December 2017.</li><li>Slight decreasing trend.</li></ul>
Faecal Coliforms (cfu/100ml)	2.5	90	Spike recorded – September 2018, October 2018 and April 2019.
Manganese - Dissolved	0.01215	0.662	Spike recorded – October 2017, December 2017, March 2019 and November 2019.
pH (pH units)	6.6	7.8	Spike recorded – September 2019
Chloride	106.25	146	Variable concentrations recorded.
Copper - Dissolved	0.00135	0.0031	Variable concentrations recorded.
Dissolved Reactive Phosphorus	0.0415	0.043	Variable concentrations recorded.
Nickel - Dissolved	0.00115	0.003	Variable concentrations recorded.
Nitrate – Nitrogen	1.4	2.24	Variable concentrations recorded.

Note: \* – trend relative to the compliance monitoring period June 2016 through May 2020. All values g/m³ unless otherwise noted; mS/m – milli siemens per metre, cfu/100ml – colony forming units per 100 millilitres. The following parameters have been removed from the table as recorded concentrations were generally below the MDL over the monitoring period and/or no significant change/trends in contaminant concentrations were recorded – iron (dissolved), aluminium (dissolved), cadmium (dissolved), lead (dissolved), and zinc (dissolved).

Table 7 Summary of Groundwater Quality Results for Bore BH103B (June 2017 through May 2020)

Damana dam	Recorded Concentration		0
Parameter	Median	Maximum	Comment
Ammonia Nitrogen	1.81	2.91	Variable concentrations recorded.
BOD₅ – Total	3	14	Variable concentrations recorded.
Conductivity at 25°C (mS/m)	125.5	175	Variable concentrations recorded.
Faecal Coliforms (cfu/100ml)	6	130	Spike recorded – January 2018.
Manganese – Dissolved	6.9	11.4	Variable concentrations recorded.
pH (pH units)	6.7	7.7	Spike recorded – July 2019.
Arsenic - Dissolved	0.0045	0.01	Variable concentrations recorded.
Boron - Dissolved	0.37	0.56	Variable concentrations recorded.
Chloride	162	181	Variable concentrations recorded.
Copper - Dissolved	0.001	0.0075	Spike recorded - December 2017.
Dissolved Reactive Phosphorus	0.0235	0.025	Variable concentrations recorded.
Nickel - Dissolved	0.0042	0.0056	Variable concentrations recorded.
Nitrate – Nitrogen	0.21	1.01	Spike recorded – June 2018.
Zinc - Dissolved	0.0055	0.03	Spike recorded – December 2017.

**Note:** \* – trend relative to the compliance monitoring period June 2016 through May 2020 All values g/m³ unless otherwise noted; mS/m – milli siemens per metre, cfu/100ml – colony forming units per 100 millilitres. The following parameters have been removed from the table as recorded concentrations were generally below the MDL over the monitoring period and/or no significant change/trends in contaminant concentrations were recorded – iron (dissolved), aluminium (dissolved), cadmium (dissolved), and lead (dissolved).

# 3.3 Surface Water Sampling

Compliance monitoring results for surface water samples are presented in **Table 8**. Full results are presented in **Appendix B**. Time series graphs of individual constituents for the upstream and downstream monitoring locations of Carey's Stream are presented in **Appendix C**. In summary:

- When comparing analytical results for the upstream and downstream monitoring location, contaminants of concern have generally been recorded at higher concentrations in the downstream monitoring location.
- Recorded concentrations were variable across the period. Based on a visual analysis of the time series graphs, general increasing trends in contaminant concentrations were recorded for electrical conductivity, ammoniacal nitrogen, BOD5, iron, and manganese in the downstream monitoring locations over the 2018 to 2019 period. Samples collected in 2020 generally illustrate a decrease in recorded concentrations in line with the historical dataset.
- In December 2018 boron was recorded in the downstream sample location at a concentration
  which exceeded the ANZG<sup>4</sup> for the protection of 95% of freshwater species. With the exception of
  this one exceedance all other metals were recorded at concentrations below the ANZG at the
  downstream sample location.
- Faecal coliforms have been regularly recorded within both upstream and downstream locations. Elevated concentrations were recorded in the downstream monitoring location in July 2018, October 2018 and April 2019. Elevated concentrations were recorded in the upstream monitoring location in February 2020. A review of longer term trends in faecal coliform concentrations (40 individual data points over the period February 2017 through May 2020) using Mann-Kendall statistical analysis indicates increasing trends in contaminant concentrations in both upstream and downstream monitoring locations. Mann-Kendall statistical analysis for faecal coliforms are presented in Appendix D.
- Further investigations into the increasing faecal coliform trend in the downstream monitoring location have been initiated by WCC, these investigations had not been concluded within this reporting period.
- A review of longer term trends in manganese concentrations (40 individual data points over the period February 2017 through May 2020) using Mann-Kendall statistical analysis indicates no trend in both upstream and downstream monitoring locations. Mann-Kendall statistical analysis for manganese is presented in **Appendix D**.
- Based on the median MCI values recorded for upstream and downstream of the landfill the quality
  of the stream would is categorised as "good"<sup>5</sup>.

<sup>&</sup>lt;sup>4</sup> National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 2018 (ANZG). Freshwater Trigger Values for Protection of Species (Level of Protection 95%).

<sup>&</sup>lt;sup>5</sup> Stark and Maxted (2007)<sup>5</sup> provide the following interpretation of New Zealand MCI results: "excellent – clean water" >120, "good - doubtful quality or possible mild pollution" 100-119, "fair - probable moderate pollution" 80-99, "poor - probable severe pollution" <80. Based on the median.

Table 8 Summary of Carey's Gully Surface Water Sampling Results (June 2017 to May 2020)

	Upstream Co	oncentrations	Downstream	Concentrations
Parameter	Median	Maximum	Median	Maximum
Ammonia – Nitrogen	0.01	0.02	0.525	1.29
BOD <sub>5</sub> – Total	1	6	2.5	11
Conductivity at 25°C (mS/m)	23.4	27.5	39.35	86.7
Faecal Coliforms (cfu/100ml)	75	2,900	35	10,000
Iron – Acid Soluble	0.01	0.05	0.1	2.03
Manganese - Acid Soluble	0.0016	0.0187	0.341	1.11
pH (pH units)	7.75	7.9	7.8	8.1
Aluminium - Acid Soluble	0.0115	0.015	0.09	0.017
Arsenic - Acid Soluble	0.001	0.001	0.001	0.002
Boron - Acid Soluble	0.03	0.03	0.045	0.38
Cadmium - Acid Soluble	0.0002	0.0002	0.0002	0.0002
Chloride	42.85	47.4	53.4	61.2
Chromium - Acid Soluble	0.001	0.001	0.001	0.001
Copper - Acid Soluble	0.0005	0.0005	0.0005	0.0005
Dissolved Reactive Phosphorus	0.0115	0.013	0.0125	0.016
Lead - Acid Soluble	0.0005	0.0005	0.0005	0.0005
Nickel - Acid Soluble	0.0005	0.0005	0.0006	0.0009
Nitrate – Nitrogen	0.3	0.51	1.165	2.09
Zinc - Acid Soluble	0.002	0.002	0.002	0.002
MCI	103	136	107	113

**Note:** All values g/m³ unless otherwise noted; mS/m – milli siemens per metre, cfu – colony forming units per 100 millilitres. MCI – Macroinvertebrate Community Index;

# 4.0 Discussion

Compliance monitoring was completed in general accordance with resource consent requirements over the period June 2017 through May 2020. However, AECOM notes that two six monthly sampling rounds were not collected and analysed for the additional parameters during the months of June 2019 and December 2019; and one six monthly macroinvertebrate sampling event was not undertaken during December 2019. AECOM understands that WCC has had discussions with ELS regarding the six monthly sampling events and that ELS have since resumed six monthly sampling and analysis from June 2020 (outside the scope of this reporting period). Groundwater levels were measured between approximately 1.2 to 7.1 m throughout the compliance monitoring period. No significant trends in groundwater level change were recorded over the compliance monitoring period. AECOM notes that groundwater levels recorded in BH103B typically range between 4.1 m btoc and 5.5 m btoc, however levels recorded in January 2020 and February 2020 were reported at 7.1 m btoc and 2.8 m btoc, respectively. ELS have been queried regarding these groundwater levels, however AECOM have not yet received a response as of the date of this report.

Based on recorded concentrations of key contaminants of concern such as ammoniacal nitrogen,  $BOD_5$ , iron, and faecal coliforms in bore BH103B (and to a lesser extent bore BH103A), as well as the down stream surface water monitoring location; there is evidence to suggest that historic and current activities at the Carey's Gully Complex may be impacting groundwater and the stream at the toe of the landfill. However, it is important to note that with the exception of boron (one sample event over the monitoring period), no exceedances of the ANZG for the protection of 95% of freshwater species were recorded in the down stream monitoring location.

A review of longer term trends in faecal coliform indicates increasing trends in contaminant concentrations in BH103B and both the upstream and downstream surface water sample locations. WCC are currently undertaking additional faecal coliform sampling in parallel with the review of potential sources of the impact. The results these investigations had not been concluded within this reporting period.

# 5.0 Limitations

This conclusion and all information in this Report are provided strictly in accordance with and subject to the following limitations and recommendations:

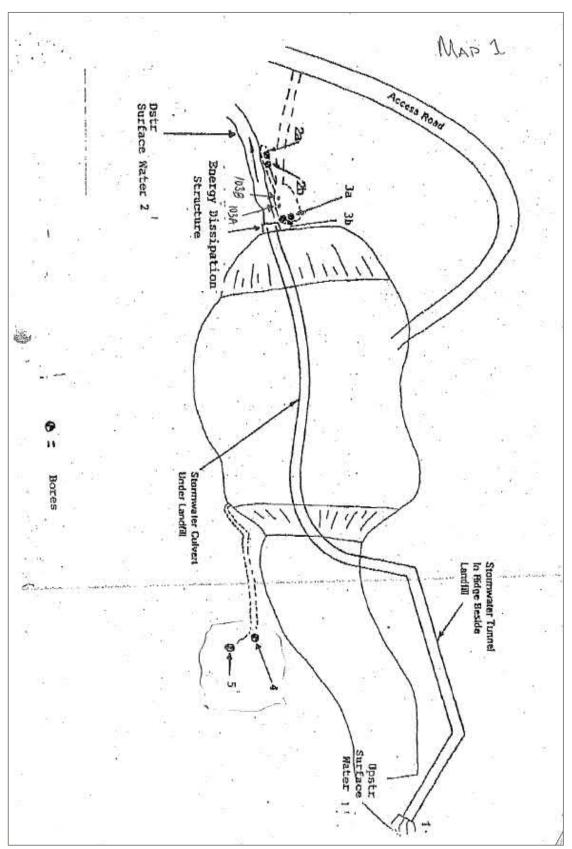
- a. This Report should be read in full and no excerpts are to be taken as representative of the findings. No responsibility is accepted by AECOM for use of any part of this Report in any other context.
- b. This conclusion is based solely on the information and findings contained in this Report.
- c. This conclusion is based solely on the scope of work agreed between AECOM and Wellington City Council and described in section 1 ("Introduction") of this Report. Specifically, no soil sampling or drilling / excavation activity has been undertaken by AECOM as part of the investigations referred to in this Report.
- d. This Report has been prepared for the sole benefit of Wellington City Council and neither the whole nor any part of this Report may be used or relied upon by any party other than Wellington City Council.
- e. This Report is dated 7 August 2020 and is based on the information reviewed from June 2017 to May 2020 AECOM accepts no responsibility for any events arising from any changes in site conditions or in the information reviewed that have occurred after the completion of the site monitoring.
- f. The investigations carried out for the purposes of the Report have been undertaken, and the Report has been prepared, in accordance with normal prudent practice and by reference to applicable environmental regulatory authority and industry standards, guidelines and assessment criteria in existence at the date of this Report.
- g. Where this Report indicates that information has been provided to AECOM by third parties, AECOM has made no independent verification of this information except as expressly stated in the Report. AECOM assumes no liability for any inaccuracies in or omissions to that information.
- h. Except as specifically stated above, AECOM makes no warranty, statement or representation of any kind concerning the suitability of the site for any purpose or the permissibility of any use, development or re-development of the site.
- i. Use, development or re-development of the site for any purpose may require planning and other approvals and, in some cases, environmental regulatory authority and accredited site auditor approvals. AECOM offers no opinion as to whether the current use has any or all approvals required, is operating in accordance with any approvals, the likelihood of obtaining any approvals for development or redevelopment of the site, or the conditions and obligations which such approvals may impose, which may include the requirement for additional environmental works.
- j. AECOM makes no determination or recommendation regarding a decision to provide or not to provide financing with respect to the site.
- k. Except as required by law, no third party may use or rely on, this Report unless otherwise agreed by AECOM in writing. Where such agreement is provided, AECOM will provide a letter of reliance to the agreed third party in the form required by AECOM.
- I. To the extent permitted by law, AECOM expressly disclaims and excludes liability for any loss, damage, cost or expenses suffered by any third party relating to or resulting from the use of, or reliance on, any information contained in this Report. AECOM does not admit that any action, liability or claim may exist or be available to any third party.

# Appendix A

**Figures** 

# Appendix A Figures

Map 1



\\NZWLG1FP001.au.aecomnet.com\\Projects\\606X\\60629483\\500\_Deliverables\\501\_Deliverable\_WCC Southern Landfill Annual Report\2019-2020\\FinAL\\Wellington Southern Landfill Annual Monitoring Report 2019-2020.docx Revision Rev 1 – 07-Jul-2020 Prepared for – Wellington City Council – Co No.: N/A

MW 2001 Figure 3-1 Location of surface water and groundwater monitoring sites

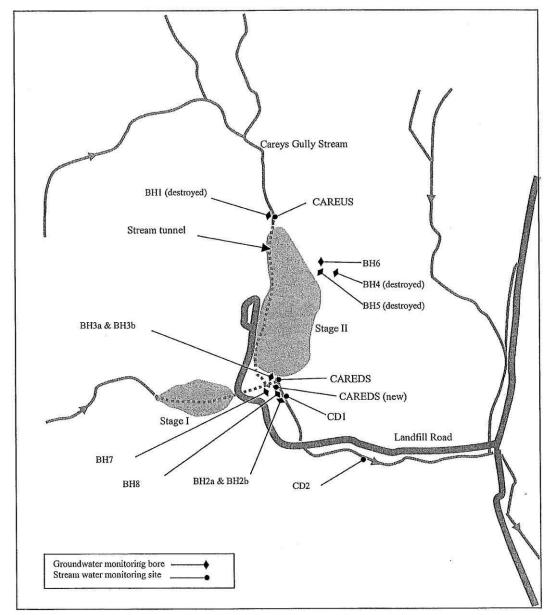
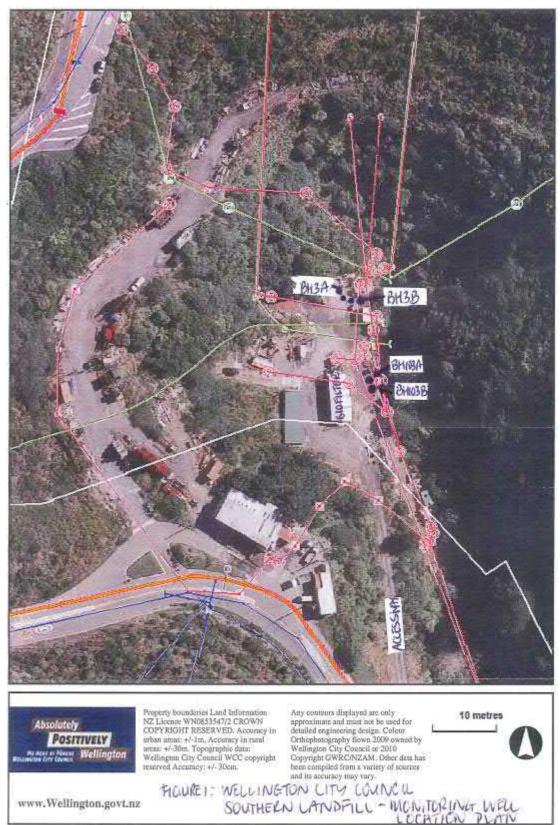


Figure 1 Wellington City Council Southern Landfill - Monitoring Well Location Plan



# Appendix B

**Data Tables** 

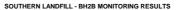
Appendix B Data Tables



Condition	Description	Moscuro	22/06/2017	17/07/2017	18/08/2017	21/09/2017	18/10/2017	27/11/2017	21/12/2017	26/01/2018	27/02/2018	21/03/2018	17/04/2018	20/05/2019
condition	2000p	Weasure	22,00,20	17/07/2017	16/06/2017	21/09/2017	16/10/2017	2//11/2017	0.005	20/01/2016	21/02/2016	21/03/2016	17/04/2016	29/05/2016
26 25	Aluminium - Dissolved Ammonia Nitrogen	g/m³ g/m³	0.002 0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.04	0.01	0.01	0.01
				0.01	0.01	0.01	0.01	0.01		0.01	0.04	0.01	0.01	0.01
26	Arsenic - Dissolved	g/m³	0.001						0.001					
25	BOD5 - Total	g/m³	1	1	1	1	1	1	1	1	1	1	1	1
26	Boron - Dissolved	g/m³	0.14						0.12					
26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	54	15	15	15	15	25	15	52	37	15	15	15
26	Chloride	g/m³	93.7						101					
26	Chromium - Dissolved	g/m³	0.001						0.001					
									Clear/misty					
			Clear, floating	Clear, floating	Clear, floating		Clear, floating	Clear, floating	grey	Clear and				
Other	Comments		solids	solids	solids	Clear	solids	solids		floating solids		Clear	Clear	Clear
25	Conductivity at 25°C	mS/m	85	84.5	85.3	87.3	89.1	90.6	90.7	90.8	43.2	88.3	87.9	87.3
26	Copper - Dissolved	g/m³	0.0005						0.0012					
26	Dissolved Reactive Phosphorus	g/m³	0.018						0.018					
25	Faecal Coliforms	cfu/100ml	1	1	1	1	1	1	1	1	18	1	1	1
25	Iron - Dissolved	g/m³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
26	Lead - Dissolved	g/m <sup>3</sup>	0.0005						0.0005					
25	Manganese - Dissolved	g/m³	0.0049	0.004	0.0032	0.0041	0.0031	0.0067	0.0508	0.0308	0.645	0.034	0.0371	0.0328
26	Nickel - Dissolved	g/m <sup>3</sup>	0.0009						0.0014					
26	Nitrate - Nitrogen	g/m <sup>3</sup>	2.05						1.81					
25	pH	-	6.8	7	7	6.8	6.7	6.7	6.6	6.8	6.4	6.8	6.8	6.7
Other	Water Level of Bore	Metres	1.8	1.7	1.8	1.7	1.8	2.2	2.5	2.2	3.5	2.2	2.4	1.5
Other	Weather - 24 hr				No Rain	Some Rain	No Rain	No Rain	No Rain	Some Rain	No Rain	Some Rain	Some Rain	
26	Zinc - Dissolved	g/m³	0.002	L	L		L		0.006		L	<u> </u>		L
Condition	Description	Measure	29/06/2018	24/07/2018	28/08/2018	28/09/2018	30/10/2018	13/11/2018	13/12/2018	10/01/2019	25/02/2019	27/03/2019	23/04/2019	29/05/2019
26	Aluminium - Dissolved	g/m³	0.004						0.002					
25	Ammonia Nitrogen	g/m³	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
26	Arsenic - Dissolved	g/m³	0.001						0.001					
25	BOD5 - Total	g/m³	1	1	1	1	1	6	1	1	1	1	1	1
26	Boron - Dissolved	g/m³	0.12					-	0.12	•	-	•		-
26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	22	15	26	25	15	19	29	15	15	15	18	24
26	Chloride	g/m³	59.2					-	99					
26	Chromium - Dissolved	g/m³	0.001						0.001					
		5												
					Clear, floating			Clear	Clear					
Other	Comments		Clear	Clear	solids	Clear					Clear			
25	Conductivity at 25°C	mS/m	64.7	74.4	88.8	106	89.6	87.7	88.3	88.6	85.4	87.2	85.8	84.9
26	Copper - Dissolved	g/m <sup>3</sup>	0.0012						0.0005					
26	Dissolved Reactive Phosphorus	g/m³	0.041						0.019					
25				1	1	4	3	1 1	1	1	1	96	12	1
25 25	Faecal Coliforms Iron - Dissolved	cfu/100ml	1	1 0.02	1 0.01		3 0.01	1 0.01	1 0.01	0.01	1 0.01	96 0.01	12 0.01	
25	Faecal Coliforms Iron - Dissolved	cfu/100ml g/m³	1 0.01	1 0.02		4 0.01			0.01	1 0.01	1 0.01		12 0.01	1 0.01
25 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved	cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup>	1 0.01 0.0005		0.01	0.01	0.01	0.01	0.01 0.0005			0.01	0.01	0.01
25 26 25	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved	cfu/100ml g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018	0.02 0.0128					0.01 0.0005 0.0267	0.01 0.0342	0.01 0.0299			
25 26 25 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved	cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	1 0.01 0.0005 0.0018 0.0009		0.01	0.01	0.01	0.01	0.01 0.0005 0.0267 0.0007			0.01	0.01	0.01
25 26 25 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen	cfu/100ml g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7	0.0128	0.01 0.0271	0.01 0.235	0.01	0.01	0.01 0.0005 0.0267 0.0007 1.96	0.0342	0.0299	0.01 0.0345	0.01 0.0207	0.01
25 26 25 26 26 26 25	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4	0.0128 7.1	0.01 0.0271 6.7	0.01 0.235 7	0.01 0.0287 6.8	0.01 0.03 6.6	0.01 0.0005 0.0267 0.0007 1.96 6.7	0.0342 6.7	0.0299	0.01 0.0345 6.8	0.01 0.0207 6.9	0.01 0.219 7.1
25 26 25 26 26 25 Other	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikel - Dissolved Nitrate - Nitrogen pH Water Level of Bore	cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8	0.0128 7.1 1.5	0.01 0.0271 6.7 1.8	0.01 0.235 7 1.8	0.01 0.0287 6.8 1.7	0.01 0.03 6.6 1.7	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5	0.0342 6.7 1.8	0.0299 6.7 1.7	0.01 0.0345 6.8 1.6	0.01 0.0207 6.9 1.4	0.01 0.219 7.1 1.7
25 26 25 26 26 25 Other Other	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain	0.0128 7.1	0.01 0.0271 6.7	0.01 0.235 7	0.01 0.0287 6.8	0.01 0.03 6.6	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain	0.0342 6.7	0.0299	0.01 0.0345 6.8	0.01 0.0207 6.9	0.01 0.219 7.1
25 26 25 26 26 25 Other	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikel - Dissolved Nitrate - Nitrogen pH Water Level of Bore	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8	0.0128 7.1 1.5	0.01 0.0271 6.7 1.8	0.01 0.235 7 1.8	0.01 0.0287 6.8 1.7	0.01 0.03 6.6 1.7	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5	0.0342 6.7 1.8	0.0299 6.7 1.7	0.01 0.0345 6.8 1.6	0.01 0.0207 6.9 1.4	0.01 0.219 7.1 1.7
25 26 25 26 26 25 Other Other 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitcel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002	0.0128 7.1 1.5 Some Rain	0.01 0.0271 6.7 1.8 Some Rain	0.01 0.235 7 1.8 No Rain	0.01 0.0287 6.8 1.7 Some Rain	0.01 0.03 6.6 1.7 No Rain	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002	0.0342 6.7 1.8 No Rain	0.0299 6.7 1.7 No Rain	0.01 0.0345 6.8 1.6 Much Rain	0.01 0.0207 6.9 1.4 Much Rain	0.01 0.219 7.1 1.7 No Rain
25 26 25 26 26 25 Other Other 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain	0.0128 7.1 1.5	0.01 0.0271 6.7 1.8	0.01 0.235 7 1.8	0.01 0.0287 6.8 1.7	0.01 0.03 6.6 1.7	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain	0.0342 6.7 1.8	0.0299 6.7 1.7	0.01 0.0345 6.8 1.6	0.01 0.0207 6.9 1.4	0.01 0.219 7.1 1.7
25 26 25 26 26 25 Other Other 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mittale - Nitrogen Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³	1 0.001 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002	7.1 1.5 Some Rain	0.01 0.0271 6.7 1.8 Some Rain	0.01 0.235 7 1.8 No Rain	0.01 0.0287 6.8 1.7 Some Rain	0.01 0.03 6.6 1.7 No Rain	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002	0.0342 6.7 1.8 No Rain	0.0299 6.7 1.7 No Rain	0.01 0.0345 6.8 1.6 Much Rain	0.01 0.0207 6.9 1.4 Much Rain	0.01 0.219 7.1 1.7 No Rain
25 26 26 26 25 Other Other 26 Condition 26 25	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitckel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³ Measure g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002	0.0128 7.1 1.5 Some Rain	0.01 0.0271 6.7 1.8 Some Rain	0.01 0.235 7 1.8 No Rain	0.01 0.0287 6.8 1.7 Some Rain	0.01 0.03 6.6 1.7 No Rain	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002	0.0342 6.7 1.8 No Rain	0.0299 6.7 1.7 No Rain	0.01 0.0345 6.8 1.6 Much Rain	0.01 0.0207 6.9 1.4 Much Rain	0.01 0.219 7.1 1.7 No Rain
25 26 26 26 25 Other Other 26 Condition 26 25	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³ Measure g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019	0.0128 7.1 1.5 Some Rain 29/07/2019 0.01	0.01 0.0271 6.7 1.8 Some Rain	0.01 0.235 7 1.8 No Rain 24/09/2019	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019	0.01 0.03 6.6 1.7 No Rain 8/11/2019	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002	0.0342 6.7 1.8 No Rain 29/01/2020	0.0299 6.7 1.7 No Rain	0.01 0.0345 6.8 1.6 Much Rain	0.01 0.0207 6.9 1.4 Much Rain	0.01 0.219 7.1 1.7 No Rain
25 26 26 26 25 Other Other 26 Condition 26 25 26 25 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Arsenic - Dissolved BOOS - Total	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³ Measure g/m³ g/m³ g/m³ g/m³	1 0.001 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002	7.1 1.5 Some Rain	0.01 0.0271 6.7 1.8 Some Rain	0.01 0.235 7 1.8 No Rain	0.01 0.0287 6.8 1.7 Some Rain	0.01 0.03 6.6 1.7 No Rain	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002	0.0342 6.7 1.8 No Rain	0.0299 6.7 1.7 No Rain	0.01 0.0345 6.8 1.6 Much Rain	0.01 0.0207 6.9 1.4 Much Rain	0.01 0.219 7.1 1.7 No Rain
25 26 25 26 26 25 Other Other 26 Condition 26 25 25 26 25 26 25 26 26 26 26 26 26 26 27 26 27 26 27 26 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total BOTON - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³ Measure g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019	0.0128 7.1 1.5 Some Rain 29/07/2019 0.01	0.01 0.0271 6.7 1.8 Some Rain	0.01 0.235 7 1.8 No Rain 24/09/2019	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019	0.01 0.03 6.6 1.7 No Rain 8/11/2019	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002	0.0342 6.7 1.8 No Rain 29/01/2020	0.0299 6.7 1.7 No Rain	0.01 0.0345 6.8 1.6 Much Rain	0.01 0.0207 6.9 1.4 Much Rain	0.01 0.219 7.1 1.7 No Rain
25 26 25 26 26 26 25 Other Other 26 25 26 25 26 25 26 25 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mittale - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Advancia Nitrogen Assenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019	0.0342 6.7 1.8 No Rain 29/01/2020 0.01	0.0299 6.7 1.7 No Rain 28/02/2020 0.01	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01
25 26 25 26 25 Other Other 26 25 26 25 26 25 26 25 26 25 26 26 Other	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Asenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019	0.0128 7.1 1.5 Some Rain 29/07/2019 0.01	0.01 0.0271 6.7 1.8 Some Rain	0.01 0.235 7 1.8 No Rain 24/09/2019	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019	0.01 0.03 6.6 1.7 No Rain 8/11/2019	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002	0.0342 6.7 1.8 No Rain 29/01/2020	0.0299 6.7 1.7 No Rain	0.01 0.0345 6.8 1.6 Much Rain	0.01 0.0207 6.9 1.4 Much Rain	0.01 0.219 7.1 1.7 No Rain
25 26 25 26 25 Other Other 26 25 26 25 26 25 26 26 26 27 26 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019	0.0342 6.7 1.8 No Rain 29/01/2020 0.01	0.0299 6.7 1.7 No Rain 28/02/2020 0.01	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01
25 26 26 25 Other Other 26 25 26 26 25 26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019	0.0342 6.7 1.8 No Rain 29/01/2020 0.01	0.0299 6.7 1.7 No Rain 28/02/2020 0.01	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01
25 26 26 25 Other Other 26 25 26 26 25 Other 26 25 26 26 26 26 26 26 26 26 26 26 26 26 Other 26 26 26 26 Other 26 26 26 Other 26 26 26 Other 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chromium - Dissolved Comments	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6	0.01 0.005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1	0.0299 6.7 1.7 No Rain 28/02/2020 0.01 1	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01 1	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1
25 26 26 25 Other Other 26 25 26 25 26 26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 Other 25 25 26 26 Other 25 26 Other 25 26 26 26 Other 25 26 Other 25 26 26 Other 25 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mittale - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Assenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Coxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019	0.0342 6.7 1.8 No Rain 29/01/2020 0.01	0.0299 6.7 1.7 No Rain 28/02/2020 0.01	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01
25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Coygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6	0.01 0.005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1	0.0299 6.7 1.7 No Rain 28/02/2020 0.01 1	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01 1	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1
25 26 26 25 Other Other 26 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ d/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6 15	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29	0.0299 6.7 1.7 No Rain 28/02/2020 0.01 1	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01 1 15	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1 15
25 26 26 25 Condition 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6 15	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2	0.01 0.0271 6.7 1.8 Some Rain 30/09/2019 0.01 1 15	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15	0.01 0.03 6.6 1.7 No Rain 3/11/2019 0.01 6 15	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1 15
25 26 25 26 25 Other Other 26 25 26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6 15	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29	0.0299 6.7 1.7 No Rain 28/02/2020 0.01 1	0.01 0.0345 6.8 1.6 Much Rain 27/03/2020 0.01 1 15	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1 15
25 26 26 25 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Asenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Insolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Iron - Dissolved Dissolved Rescrive Phosphorus Faecal Coliforms Iron - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³ Meysaure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6 15	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2 1 0.01	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1 15 84.6	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15 84.7	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6 15 84.2	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8 1 0.01	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8 1 0.01	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15 83.4 110 0.01	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1 15 82.5
25 26 26 25 Other Other 26 25 26 26 25 Other 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6 15	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2	0.01 0.0271 6.7 1.8 Some Rain 30/09/2019 0.01 1 15	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15	0.01 0.03 6.6 1.7 No Rain 3/11/2019 0.01 6 15	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1 15
25 26 26 25 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Alminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ d/m³  Metres g/m³  Measuro g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6 15	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2 1 0.01	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1 15 84.6	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15 84.7	0.01 0.03 6.6 1.7 No Rain 8/11/2019 0.01 6 15 84.2	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8 1 0.01	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8 1 0.01	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15 83.4 110 0.01	0.01 0.219 7.1 1.7 No Rain 21/05/2020 0.01 1 15 82.5
25 26 26 25 Other Other 26 25 26 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Coygen Demand Chloride Chromium - Dissolved Chomium - Dissolved Chemical Conductivity at 25°C Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6 15 85 1 0.01 0.0085	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2 1 0.01 0.0065	0.01 0.0271 6.7 1.8 Some Rain 30/03/2019 0.01 1 15 84.6 1 0.01 0.0093	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4 1 0.01 0.0058	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15 84.7 1 0.01 0.0081	0.01 0.03 6.6 1.7 No Rain 3/11/2019 0.01 6 15 84.2 1 0.01 0.0108	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002  19/12/2019  0.03 1 69  84.4 4 0.02 0.0322	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6 1 0.01 0.0081	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8 1 0.01 0.0097	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8 1 0.01 0.0137	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15 83.4 110 0.01 0.0884	0.01 0.219 7.1 1.7 No Rain  21/05/2020  0.01 1 15 82.5 1 0.01 0.0135
25 26 25 26 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Manganese - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ d/m³  Metres g/m³  Measuro g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019 0.01 6 15 85 1 0.01 0.0085	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2 1 0.01 0.0065	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1 15 84.6 1 0.01 0.0093	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4 1 0.01 0.0058 7.8	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15 84.7 1 0.001 0.0081	0.01 0.03 6.6 1.7 No Rain  8/11/2019 0.01 6 15 84.2 1 0.01 0.0108	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.55 No Rain 0.002  19/12/2019  0.03 1 69  84.4 4 0.02 0.0322	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6 1 0.01 0.0081	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8 1 0.01 0.0097	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8 1 0.01 0.0137	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15 83.4 110 0.01 0.0884 6.8	0.01 0.219 7.1 1.7 No Rain  21/05/2020 0.01 1 15 82.5 1 0.01 0.0135
25 26 26 25 Other Other 26 25 26 26 25 26 26 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecacl Coliforms Iron - Dissolved Manganese - Dissolved	cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ d/m³  Metres g/m³  Measuro g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6 15 85 1 0.01 0.0085	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2 1 0.01 0.0065 6.9 1.8	0.01 0.0271 6.7 1.8 Some Rain 30/03/2019 0.01 1 15 84.6 1 0.01 0.093	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4 1 0.01 0.0058 7.8 2	0.01 0.0287 6.8 1.7 Some Rain  25/10/2019 0.01 1 15 84.7 1 0.01 0.0081 7.2 1.5	0.01 0.03 6.6 1.7 No Rain  8/11/2019 0.01 6 15 84.2 1 0.01 0.0108	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1 69 84.4 4 0.02 0.0322 7.1 2.1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6 1 0.01 0.0081 7.4 2	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8 1 0.01 0.0097	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8 1 0.01 0.0137	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15 83.4 110 0.01 0.0884 6.8 2	0.01 0.219 7.1 1.7 No Rain  21/05/2020 0.01 1 15 82.5 1 0.01 0.0135
25 26 26 25 Other Other 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Colygen Demand Choloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chromium - Dissolved Chromium - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weether - 24 hr	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.002 13/06/2019 0.01 6 15 85 1 0.01 0.0085	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2 1 0.01 0.0065	0.01 0.0271 6.7 1.8 Some Rain 30/08/2019 0.01 1 15 84.6 1 0.01 0.0093	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4 1 0.01 0.0058 7.8	0.01 0.0287 6.8 1.7 Some Rain 25/10/2019 0.01 1 15 84.7 1 0.001 0.0081	0.01 0.03 6.6 1.7 No Rain  8/11/2019 0.01 6 15 84.2 1 0.01 0.0108	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.55 No Rain 0.002  19/12/2019  0.03 1 69  84.4 4 0.02 0.0322	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6 1 0.01 0.0081	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8 1 0.01 0.0097	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8 1 0.01 0.0137	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15 83.4 110 0.01 0.0884 6.8	0.01 0.219 7.1 1.7 No Rain  21/05/2020 0.01 1 15 82.5 1 0.01 0.0135
25 26 26 25 Other Other 26 25 26 26 25 26 26 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecacl Coliforms Iron - Dissolved Manganese - Dissolved	ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ d/m³  Metres g/m³  Measuro g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	1 0.01 0.0005 0.0018 0.0009 3.7 6.4 1.8 No Rain 0.0002 13/06/2019 0.01 6 15 85 1 0.01 0.0085	0.0128  7.1 1.5 Some Rain  29/07/2019  0.01 1 28 84.2 1 0.01 0.0065 6.9 1.8	0.01 0.0271 6.7 1.8 Some Rain 30/03/2019 0.01 1 15 84.6 1 0.01 0.093	0.01 0.235 7 1.8 No Rain 24/09/2019 0.01 1 132 84.4 1 0.01 0.0058 7.8 2	0.01 0.0287 6.8 1.7 Some Rain  25/10/2019 0.01 1 15 84.7 1 0.01 0.0081 7.2 1.5	0.01 0.03 6.6 1.7 No Rain  8/11/2019 0.01 6 15 84.2 1 0.01 0.0108	0.01 0.0005 0.0267 0.0007 1.96 6.7 1.5 No Rain 0.002 19/12/2019 0.03 1 69 84.4 4 0.02 0.0322 7.1 2.1	0.0342 6.7 1.8 No Rain 29/01/2020 0.01 1 29 82.6 1 0.01 0.0081 7.4 2	0.0299 6.7 1.7 No Rain  28/02/2020 0.01 1 15 84.8 1 0.01 0.0097	0.01 0.0345 6.8 1.6 Much Rain  27/03/2020 0.01 1 15 83.8 1 0.01 0.0137	0.01 0.0207 6.9 1.4 Much Rain 17/04/2020 0.01 1 15 83.4 110 0.01 0.0884 6.8 2	0.01 0.219 7.1 1.7 No Rain  21/05/2020 0.01 1 15 82.5 1 0.01 0.0135

Notes:

Values in red were reported below the detection limit.





Condition	Description	Moasuro	22/06/2017	17/07/2017	18/08/2017	21/09/2017	18/10/2017	27/11/2017	21/12/2017	26/01/2018	27/02/2018	21/03/2018	17/04/2018	29/05/2018
26	Aluminium - Dissolved	g/m³	0.002	17/07/2017	18/08/2017	21/09/2017	18/10/2017	27/11/2017	0.002	26/01/2018	27/02/2018	21/03/2018	17/04/2018	29/05/2018
25	Ammonia Nitrogen	g/m³	0.002	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.07	0.01	0.01	0.01
26	Arsenic - Dissolved	g/m³	0.001	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.07	0.01	0.01	0.01
25	BOD5 - Total	g/m³	1	1	1	1	1	1	1	1	1	1	1	1
26	Boron - Dissolved	g/m³	0.21						0.17					
26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	15	15	15	15	15	17	15	21	57	17	15	15
26 26	Chloride Chromium - Dissolved	g/m³ g/m³	108 0.001						109 0.001					
26	Chromium - Dissolved	g/III*	Clear, floating	Clear, floating	Clear, floating		Clear, floating	Clear, floating	Clear/misty	Clear, floating				
Other	Comments		solids	solids	solids	Clear	solids	solids	grey	solids	Cloudy	Clear	Clear	Clear
25	Conductivity at 25°C	mS/m	107	111	113	107	112	109	106	108	43	111	105	105
26	Copper - Dissolved	g/m³	0.0005						0.0009					
26	Dissolved Reactive Phosphorus	g/m³	0.017				_		0.017					_
25	Faecal Coliforms Iron - Dissolved	cfu/100ml a/m <sup>3</sup>	0.01	0.01	0.01	0.01	3 0.01	0.01	0.01	0.01	36 0.01	0.01	0.01	0.01
25 26 25	Lead - Dissolved	g/m³	0.0005	0.01	0.01	0.01	0.01	0.01	0.0005	0.01	0.01	0.01	0.01	0.01
25	Manganese - Dissolved	g/m³	0.273	0.287	0.323	0.271	0.252	0.217	0.171	0.403	1.43	0.398	0.275	0.273
26	Nickel - Dissolved	g/m³	0.002						0.003					
26	Nitrate - Nitrogen	g/m³	1.08						1.05					
25	pH		6.7	6.8	6.8	6.8	7	6.7	6.6	6.8	6.5	6.7	6.8	6.7
Other	Water Level of Bore	Metres	1.4	1.3	1.3	1.3	1.3	1.6	1.7	1.6	2.5	1.6	1.3	2
Other 26	Weather - 24 hr Zinc - Dissolved	g/m³	0.002		No Rain	Some Rain	No Rain	No Rain	No Rain 0.012	Some Rain	Some Rain	Some Rain	Some Rain	
20	ZIIIC - Dissolved	[g/111*	0.002		1	l	1		0.012	<u> </u>	l	l	l	
Condition	Description	Measure	29/06/2018	24/07/2018	28/08/2018	28/09/2018	30/10/2018	13/11/2018	13/12/2018	10/01/2019	25/02/2019	27/03/2019	23/04/2019	29/05/2019
26	Aluminium - Dissolved	g/m³	0.002						0.002					
25	Ammonia Nitrogen	g/m³	0.01	0.01	0.01	0.01	0.01	0.01	0.01 0.001	0.01	0.01	0.01	0.01	0.01
26 25	Arsenic - Dissolved BOD5 - Total	g/m³ g/m³	0.001 1	1	1	1	1	6	0.001	1	1	1	1	1
26	Boron - Dissolved	g/m³	0.06					U	0.17					
26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	25	15	24	22	15	15	23	18	15	17	15	15
26	Chloride	g/m³	32.1						108					
26	Chromium - Dissolved	g/m³	0.001		Clear, floating				0.001					
Other	Comments		Clear	Clear	solids	Clear		Clear	Clear		Clear			
25	Conductivity at 25°C	mS/m	41.3	91.4	107	89.2	107	106	107	106	91.6	109	108	104
26	Copper - Dissolved	g/m <sup>3</sup>	0.0039						0.0005					
26 26	Copper - Dissolved Dissolved Reactive Phosphorus	g/m³ g/m³	0.0039 0.012						0.0005 0.017					
26 25	Dissolved Reactive Phosphorus Faecal Coliforms	g/m <sup>3</sup> cfu/100ml	0.012 1	1	1	1	1	1	0.017 1	1	1	1	1	1
26 25 25	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	g/m³ cfu/100ml g/m³	0.012 1 0.01	1 0.01	1 0.01	1 0.01	1 0.01	1 0.01	0.017 1 0.01	1 0.01				1 0.01
26 25 25	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved	g/m³ cfu/100ml g/m³ g/m³	0.012 1 0.01 0.0005		0.01	0.01	0.01	0.01	0.017 1 0.01 0.0005	0.01	1 0.01	1 0.01	1 0.01	1 0.01
26 25 25 26 25	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved	g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.012 1 0.01 0.0005 0.0059	1 0.01 0.0018					0.017 1 0.01 0.0005 0.244		1	1	1	1
26 25 25 26 25 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved	g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.012 1 0.01 0.0005 0.0059 0.0007		0.01	0.01	0.01	0.01	0.017 1 0.01 0.0005 0.244 0.0012	0.01	1 0.01	1 0.01	1 0.01	1 0.01
26 25 25 26 25 26 26 26 25	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganes - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH	g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.012 1 0.01 0.0005 0.0059		0.01 0.266 6.6	0.01	0.01 0.272 7.1	0.01	0.017 1 0.01 0.0005 0.244	0.01 0.253 7	1 0.01	1 0.01	1 0.01	1 0.01
26 25 25 26 25 26 26 26 26 27 Other	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore	g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.012 1 0.01 0.0005 0.0059 0.0007 1.59 6.8 1.3	0.0018 6.9 1.2	0.01 0.266 6.6 1.5	0.01 0.0208 7.2 1.4	0.01 0.272 7.1 1.3	0.01 0.293 6.7 1.5	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8	0.01 0.253 7 1.7	1 0.01 0.404 6.5 1.4	1 0.01 0.322 6.7 1.4	1 0.01 0.293 7.1 1.4	1 0.01 0.0129 8 1.5
26 25 25 26 25 26 26 26 25 Other	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganee - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain	0.0018 6.9	0.01 0.266 6.6	0.01 0.0208 7.2	0.01 0.272 7.1	0.01 0.293 6.7	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain	0.01 0.253 7	1 0.01 0.404 6.5	1 0.01 0.322 6.7	1 0.01 0.293	1 0.01 0.0129
26 25 25 26 25 26 26 26 26 27 Other	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0059 0.0007 1.59 6.8 1.3	0.0018 6.9 1.2	0.01 0.266 6.6 1.5	0.01 0.0208 7.2 1.4	0.01 0.272 7.1 1.3	0.01 0.293 6.7 1.5	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8	0.01 0.253 7 1.7	1 0.01 0.404 6.5 1.4	1 0.01 0.322 6.7 1.4	1 0.01 0.293 7.1 1.4	1 0.01 0.0129 8 1.5
26 25 25 26 25 26 26 26 25 Other	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganee - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain	0.0018 6.9 1.2	0.01 0.266 6.6 1.5	0.01 0.0208 7.2 1.4	0.01 0.272 7.1 1.3	0.01 0.293 6.7 1.5	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain	0.01 0.253 7 1.7	1 0.01 0.404 6.5 1.4	1 0.01 0.322 6.7 1.4	1 0.01 0.293 7.1 1.4	1 0.01 0.0129 8 1.5
26 25 25 26 26 26 26 26 25 Other Other 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganes - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain	0.01 0.266 6.6 1.5 Some Rain	0.01 0.0208 7.2 1.4 No Rain	0.01 0.272 7.1 1.3 Some Rain	0.01 0.293 6.7 1.5 No Rain	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002	0.01 0.253 7 1.7 No Rain	1 0.01 0.404 6.5 1.4 Some Rain	1 0.01 0.322 6.7 1.4 Much Rain	1 0.01 0.293 7.1 1.4 Much Rain	1 0.01 0.0129 8 1.5 No Rain
26 25 26 26 27 26 26 26 26 26 27 Other Other 26	Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description Aluminium - Dissolved Ammonia Nitrogen	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³	0.012 1 0.001 0.0005 0.0059 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain	0.01 0.266 6.6 1.5 Some Rain	0.01 0.0208 7.2 1.4 No Rain	0.01 0.272 7.1 1.3 Some Rain	0.01 0.293 6.7 1.5 No Rain	0.017 1 0.001 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002	0.01 0.253 7 1.7 No Rain	1 0.01 0.404 6.5 1.4 Some Rain	1 0.01 0.322 6.7 1.4 Much Rain	1 0.01 0.293 7.1 1.4 Much Rain	1 0.01 0.0129 8 1.5 No Rain
26 25 25 26 26 26 26 26 26 26 20 Other Other 26 25 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganes - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³	0.012 1 0.01 0.005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain 29/07/2019	0.01 0.266 6.6 1.5 Some Rain	0.01 0.0208 7.2 1.4 No Rain 24/09/2019	0.01 0.272 7.1 1.3 Some Rain 25/10/2019	0.01 0.293 6.7 1.5 No Rain 8/11/2019	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01
26 25 25 26 26 25 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 26 27 26 27 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Dissolved Reactive Phosphorus Feacal Colforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BOD5 - Total	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain	0.01 0.266 6.6 1.5 Some Rain	0.01 0.0208 7.2 1.4 No Rain	0.01 0.272 7.1 1.3 Some Rain	0.01 0.293 6.7 1.5 No Rain	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002	0.01 0.253 7 1.7 No Rain	1 0.01 0.404 6.5 1.4 Some Rain	1 0.01 0.322 6.7 1.4 Much Rain	1 0.01 0.293 7.1 1.4 Much Rain	1 0.01 0.0129 8 1.5 No Rain
26 25 25 26 26 26 26 26 26 26 20 Other Other 26 25 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganes - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain 29/07/2019	0.01 0.266 6.6 1.5 Some Rain	0.01 0.0208 7.2 1.4 No Rain 24/09/2019	0.01 0.272 7.1 1.3 Some Rain 25/10/2019	0.01 0.293 6.7 1.5 No Rain 8/11/2019	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01
26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganes - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain 29/07/2019	0.01 0.266 6.6 1.5 Some Rain	0.01 0.0208 7.2 1.4 No Rain 24/09/2019	0.01 0.272 7.1 1.3 Some Rain 25/10/2019	0.01 0.293 6.7 1.5 No Rain 8/11/2019	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01
26 25 25 26 26 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganes - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description  Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6	0.017 1 0.001 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01
26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Colforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Boron - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³  Measure g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6	0.017 1 0.001 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01
26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chornium - Dissolved Chromium - Dissolved Comments	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.00059 0.0007 1.59 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01 1	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6	0.017 1 0.001 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1
26 25 25 26 26 25 Other 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Colforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Atuminum - Dissolved Atuminum - Dissolved Armonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6	0.017 1 0.001 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01
26 25 25 26 26 25 0ther 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chornium - Dissolved Chromium - Dissolved Comments	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.00059 0.0007 1.59 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01 1	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6	0.017 1 0.001 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1
26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.00059 0.0007 1.59 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01 1 26	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1 15	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1 15	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1 15	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6 15	0.017 1 0.001 0.0005 0.2244 0.0012 1.003 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1 56	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1 33	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15 108	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1 15
26 25 25 26 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Weather - 24 hr Zinc - Dissolved Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01 1	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1 15	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1 15	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6 15	0.017 1 0.001 0.0005 0.244 0.0012 1.003 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1 33	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1
26 25 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Colforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead -	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.001 0.0005 0.00059 0.0007 1.599 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain  29/07/2019 0.01 1 26 103 1 0.01	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1 15	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1 15	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1 15 102 1 0.01	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6 15	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1 56	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1 33 61.4	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15 101 1 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44 101 6 0.71	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1 15 104 1 0.01
26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Lead - Dissolved Lead - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.00059 0.0007 1.59 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain 29/07/2019 0.01 1 26	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1 15	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1 15	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1 15	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6 15	0.017 1 0.001 0.0005 0.2244 0.0012 1.003 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1 56	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1 33	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15 108	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1 15
26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description  Atuminium - Dissolved Atuminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Double - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Manganese - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.001 0.0005 0.00059 0.0007 1.599 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain  29/07/2019 0.01 1 26 103 1 0.01	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1 15	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1 15	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1 15	0.01 0.293 6.7 1.5 No Rain  8/11/2019 0.01 6 15 107	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1 56	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1 33 61.4	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15 101 1 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44 101 6 0.71	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1 15 104 1 0.01
26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Lead - Dissolved Lead - Dissolved	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.001 0.0005 0.00059 0.0007 1.599 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6	0.0018 6.9 1.2 Some Rain  29/07/2019 0.01 1 26 103 1 0.01	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1 15 102 1 0.01 0.26	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1 15	0.01 0.272 7.1 1.3 Some Rain  25/10/2019 0.01 1 15 102 1 0.01 0.243	0.01 0.293 6.7 1.5 No Rain  8/11/2019 0.01 6 15 107	0.017 1 0.01 0.0005 0.244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1 56	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1 33 61.4	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15 101 1 0.01	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44 101 6 0.71	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1 15 104 1 0.01
26 25 26 26 25 26 26 26 25 26 26 26 25 26 26 26 25 26 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Armonia Nitrogen Arsenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Manganese - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.001 0.0005 0.00059 0.0007 1.599 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6 15	0.0018 6.9 1.2 Some Rain  29/07/2019 0.01 1 26 103 1 0.01 0.251	0.01 0.266 6.6 1.5 Some Rain 30/08/2019 0.01 1 15 102 1 0.01 0.26 7.5 1.7	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1 15 102 1 0.02 0.224	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1 15 102 1 0.01 0.243 7.1 2.4	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6 15 107 1 0.01 0.341 6.9 2.2	0.017 1 0.001 0.0005 0.2244 0.0012 1.03 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1 56	0.01 0.253 7 1.7 No Rain  29/01/2020 0.15 1 33 61.4 1 0.17 0.403	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15 108 1 0.02 0.37	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15 101 0.262 7.3 2.3	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44 101 6 0.71 0.302	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1 15 104 1 0.01 0.309 6.6 6.1.3
26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Dissolved Reactive Phosphorus Feacal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Part Level of Bore Weather - 24 hr Zinc - Dissolved Description  Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved DOD5 - Total BOTO5 - Total BOTO5 - Total BOTO5 - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Manganese - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH	g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ Metres g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.012 1 0.01 0.0005 0.0005 0.0007 1.59 6.8 1.3 No Rain 0.003 13/06/2019 0.01 6 15	0.0018 6.9 1.2 Some Rain  29/07/2019 0.01 1 26 103 1 0.01 0.251	0.01 0.266 6.6 1.5 Some Rain  30/08/2019 0.01 1 15 102 1 0.01 0.26 7.5	0.01 0.0208 7.2 1.4 No Rain 24/09/2019 0.01 1 15 102 1 0.02 0.224 7.3	0.01 0.272 7.1 1.3 Some Rain 25/10/2019 0.01 1 15 102 1 0.01 0.243 7.1	0.01 0.293 6.7 1.5 No Rain 8/11/2019 0.01 6 15 107 1 0.01 0.341 6.9	0.017 1 0.001 0.0005 0.244 0.0012 1.003 6.7 1.8 No Rain 0.002 19/12/2019 0.01 1 56	0.01 0.253 7 1.7 No Rain 29/01/2020 0.15 1 33 61.4 1 0.17 0.403 6.9	1 0.01 0.404 6.5 1.4 Some Rain 28/02/2020 0.01 1 15 108 1 0.02 0.37 7.6	1 0.01 0.322 6.7 1.4 Much Rain 27/03/2020 0.01 1 15 101 0.01 0.262 7.3	1 0.01 0.293 7.1 1.4 Much Rain 17/04/2020 0.11 1 44 101 6 0.71 0.302 6.7	1 0.01 0.0129 8 1.5 No Rain 21/05/2020 0.01 1 15 104 1 0.01 0.309 6.6

Notes: Values in red were reported below the detection limit.



Condition	Description	Measure	22/06/2017	17/07/2017	18/08/2017	21/09/2017	18/10/2017	27/11/2017	21/12/2017	26/01/2018	27/02/2018	21/03/2018	17/04/2018	29/05/2018
26 25 26	Aluminium - Dissolved	g/m³	0.002						0.025					
25	Ammonia Nitrogen	g/m³	0.01	0.01	0.01	0.01	0.2	0.01	0.06	0.01	0.08	0.01	0.01	0.01
26	Arsenic - Dissolved	g/m³	0.001						0.001					
25	BOD5 - Total Boron - Dissolved	g/m³ g/m³	1 0.21	1	1	1	1	1	6 0.25	1	1	1	1	1
26 26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	55	15	27	16	15	43	26	27	15	28	15	15
26	Chloride	g/m³	116	10	21	10	10	40	146		10	20	10	10
26	Chromium - Dissolved	g/m³	0.001						0.001					
		3			Cloudy,		Cloudy, misty							
			Cloudy, floating	Clear, floating	brownish,		grey, floating	Clear, floating	Brown and	Clear and				
Other	Comments		solids	solids	floating solids	Light brown	solids	solids	floating solids	floating solids	Cloudy	Cloudy	Clear	Clear
25	Conductivity at 25°C	mS/m	102	57.8	57	87	95.3	118	126	89.6	85.6	82.1	49.2	56.1
26	Copper - Dissolved	g/m³	0.0014						0.0031					
26 25 25 26 25 26 26 26	Dissolved Reactive Phosphorus	g/m³	0.041						0.043					
25	Faecal Coliforms	cfu/100ml	3	1	2	1	2	1	1	8	20	2	14	5
25	Iron - Dissolved	g/m³	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.02	0.02	0.01	0.01	0.01
26	Lead - Dissolved	g/m³	0.0005						0.0005					
25	Manganese - Dissolved	g/m³	0.0134	0.0287	0.0136	0.001	0.662	0.0246	0.473	0.224	0.0337	0.0338	0.147	0.0179
26	Nickel - Dissolved	g/m³	0.0015						0.003					
25 25	Nitrate - Nitrogen pH	g/m³	0.88 6.5	6.5	6.6	6.7	6.6	6.5	0.22 6.4	6.6	6.7	6.5	6.5	6.5
Other	Water Level of Bore	Metres	4.8	6.5 4.4	4.5	6.7 4.6	4.8	4.9	4.8	4.8	4.6	4.9	4.7	6.5 4.5
Other	Weather - 24 hr	ivieties	4.0	4.4	No Rain	Some Rain	No Rain	No Rain	No Rain	Some Rain	Some Rain	Some Rain	Some Rain	4.5
26	Zinc - Dissolved	g/m³	0.002		NO IVAIII	Some Rain	NO IVAIII	NO IValli	0.006	Some Rain	Joine Rain	Joine Rain	Some Rain	
		15		l.				1			l.	l.	l.	l l
Condition	Description	Measure	29/06/2018	24/07/2018	28/08/2018	24/09/2018	30/10/2018	13/11/2018	13/12/2018	10/01/2019	25/02/2019	27/03/2019	23/04/2019	29/05/2019
26	Aluminium - Dissolved	g/m³	0.002		0.04	0.04			0.012	0.00		0.40		0.40
25	Ammonia Nitrogen	g/m³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.42	0.01	0.13
26 25 26	Arsenic - Dissolved	g/m³	0.001						0.001					
25	BOD5 - Total	g/m³	1	1	6	6	1	6	1 0.13	1	1	1	1	1
26	Boron - Dissolved Cadmium - Dissolved	g/m³	0.12 0.0002						0.13					
Other	Chemical Oxygen Demand	g/m³ g/m³	15	15	15	21	15	15	28	26	15	34	15	15
26	Chloride	g/m³	96.5	15	15	21	15	15	73	26	15	34	15	15
26	Chromium - Dissolved	g/m³	0.001						0.001					
26	Chiomium - Dissolved	g/III*	0.001		Brown, floating				0.001					
Other	Comments			Clear	solids	Brown		Cloudy	Brownish		Clear			
	Conductivity at 25°C	mS/m	64.4				50.4	51.5	74.4	98.1	19.6	40.5	00.0	66.3
25						61.8							33.6	
25 26				69.3	54	61.8	52.4	51.5		30.1	19.0	43.5	33.6	66.3
26	Copper - Dissolved	g/m³	0.0005	69.3	54	61.8	52.4	51.5	0.0013	90.1	19.6	43.5	33.6	66.3
26	Copper - Dissolved Dissolved Reactive Phosphorus	g/m³ g/m³		1	7			14		1		43.5		
26	Copper - Dissolved	g/m³	0.0005 0.021	1 0.01		45 0.01	80 0.01		0.0013 0.042		21 0.01		90 0.02	26 0.01
26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml	0.0005 0.021 1	1	7	45	80	14	0.0013 0.042 33	1	21	2	90	26
26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	g/m³ g/m³ cfu/100ml g/m³	0.0005 0.021 1 0.01	1	7	45	80	14	0.0013 0.042 33 0.01 0.0005 0.004	1	21	2	90	26
26 26 25 25 26 25 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008	1 0.01	7 0.01	45 0.01	80 0.01	14 0.01	0.0013 0.042 33 0.01 0.0005 0.004 0.0007	1 0.02	21 0.01	2 0.04	90 0.02	26 0.01
26 26 25 25 26 25 26 25 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.021 1 0.01 0.0005 0.0207	1 0.01	7 0.01	45 0.01	80 0.01	14 0.01	0.0013 0.042 33 0.01 0.0005 0.004	1 0.02	21 0.01	2 0.04	90 0.02	26 0.01
26 26 25 25 26 25 26 25 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008	1 0.01	7 0.01	45 0.01	80 0.01	14 0.01	0.0013 0.042 33 0.01 0.0005 0.004 0.0007	1 0.02	21 0.01	2 0.04	90 0.02	26 0.01 0.0061
26 26 25 25 26 25 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nirate - Nitrogen pH Water Level of Bore	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8	1 0.01 0.0019 6.5 4.7	7 0.01 0.0055 6.7 4.8	45 0.01 0.0014 6.6 4.8	80 0.01 0.002 6.6 4.1	14 0.01 0.0163 6.6 4.5	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4	1 0.02 0.0086 6.6 4.7	21 0.01 0.0025 6.8 3.5	2 0.04 0.579 6.7 4.1	90 0.02 0.0012 6.7 3.8	26 0.01 0.0061 7 4.2
26 26 25 25 26 26 26 26 25 Other	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr	g/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain	1 0.01 0.0019	7 0.01 0.0055	45 0.01 0.0014	80 0.01 0.002	14 0.01 0.0163 6.6	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain	1 0.02 0.0086	21 0.01 0.0025	2 0.04 0.579	90 0.02 0.0012 6.7	26 0.01 0.0061
26 26 25 25 26 25 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nirate - Nitrogen pH Water Level of Bore	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8	1 0.01 0.0019 6.5 4.7	7 0.01 0.0055 6.7 4.8	45 0.01 0.0014 6.6 4.8	80 0.01 0.002 6.6 4.1	14 0.01 0.0163 6.6 4.5	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4	1 0.02 0.0086 6.6 4.7	21 0.01 0.0025 6.8 3.5	2 0.04 0.579 6.7 4.1	90 0.02 0.0012 6.7 3.8	26 0.01 0.0061 7 4.2
26 26 25 25 26 26 26 26 25 Other	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr	g/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain	0.001 0.0019 6.5 4.7 Some Rain	7 0.01 0.0055 6.7 4.8	45 0.01 0.0014 6.6 4.8	80 0.01 0.002 6.6 4.1	14 0.01 0.0163 6.6 4.5	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain	1 0.02 0.0086 6.6 4.7	21 0.01 0.0025 6.8 3.5	2 0.04 0.579 6.7 4.1	90 0.02 0.0012 6.7 3.8	26 0.01 0.0061 7 4.2
26 26 25 25 26 26 26 26 26 26 27 Other Other 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002	1 0.01 0.0019 6.5 4.7	7 0.01 0.0055 6.7 4.8 Some Rain	45 0.01 0.0014 6.6 4.8 No Rain	80 0.01 0.002 6.6 4.1 Some Rain	14 0.01 0.0163 6.6 4.5 No Rain	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002	1 0.02 0.0086 6.6 4.7 No Rain	21 0.01 0.0025 6.8 3.5 Some Rain	2 0.04 0.579 6.7 4.1 Much Rain	90 0.02 0.0012 6.7 3.8 Much Rain	26 0.01 0.0061 7 4.2 No Rain
26 26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved	g/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002	0.001 0.0019 6.5 4.7 Some Rain	7 0.01 0.0055 6.7 4.8 Some Rain	45 0.01 0.0014 6.6 4.8 No Rain	80 0.01 0.002 6.6 4.1 Some Rain	14 0.01 0.0163 6.6 4.5 No Rain	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002	1 0.02 0.0086 6.6 4.7 No Rain	21 0.01 0.0025 6.8 3.5 Some Rain	2 0.04 0.579 6.7 4.1 Much Rain	90 0.02 0.0012 6.7 3.8 Much Rain	26 0.01 0.0061 7 4.2 No Rain
26 22 25 25 26 26 26 26 26 28 25 Other Other Other 26 26 26 26 26 27 26 27 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Amsenic - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002	1 0.01 0.0019 6.5 4.7 Some Rain	7 0.01 0.0055 6.7 4.8 Some Rain	45 0.01 0.0014 6.6 4.8 No Rain	80 0.01 0.002 6.6 4.1 Some Rain	14 0.01 0.0163 6.6 4.5 No Rain	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002	1 0.02 0.0086 6.6 4.7 No Rain	21 0.01 0.0025 6.8 3.5 Some Rain	2 0.04 0.579 6.7 4.1 Much Rain	90 0.02 0.0012 6.7 3.8 Much Rain	26 0.01 0.0061 7 4.2 No Rain
26 22 25 25 26 26 26 26 26 28 25 Other Other Other 26 26 26 26 26 27 26 27 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002	1 0.01 0.0019 6.5 4.7 Some Rain	7 0.01 0.0055 6.7 4.8 Some Rain	45 0.01 0.0014 6.6 4.8 No Rain	80 0.01 0.002 6.6 4.1 Some Rain	14 0.01 0.0163 6.6 4.5 No Rain	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002	1 0.02 0.0086 6.6 4.7 No Rain	21 0.01 0.0025 6.8 3.5 Some Rain	2 0.04 0.579 6.7 4.1 Much Rain	90 0.02 0.0012 6.7 3.8 Much Rain	26 0.01 0.0061 7 4.2 No Rain
26 22 25 25 26 26 26 26 26 28 25 Other Other Other 26 26 26 26 26 27 26 27 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Amsenic - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019	7 0.01 0.0055 6.7 4.8 Some Rain	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03	80 0.01 0.002 6.6 4.1 Some Rain	14 0.01 0.0163 6.6 4.5 No Rain	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002	1 0.02 0.0086 6.6 4.7 No Rain	21 0.01 0.0025 6.8 3.5 Some Rain	2 0.04 0.579 6.7 4.1 Much Rain	90 0.02 0.0012 6.7 3.8 Much Rain	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01
26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Armonia Nitrogen Arsenic - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019	7 0.01 0.0055 6.7 4.8 Some Rain	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03	80 0.01 0.002 6.6 4.1 Some Rain	14 0.01 0.0163 6.6 4.5 No Rain	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019	1 0.02 0.0086 6.6 4.7 No Rain	21 0.01 0.0025 6.8 3.5 Some Rain	2 0.04 0.579 6.7 4.1 Much Rain	90 0.02 0.0012 6.7 3.8 Much Rain	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01
26 26 25 26 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikrate - Nikrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nikrogen Atmenia Nikrogen Assenic - Dissolved BODS - Total BOTON - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019	7 0.01 0.0055 6.7 4.8 Some Rain	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03	80 0.01 0.002 6.6 4.1 Some Rain	14 0.01 0.0163 6.6 4.5 No Rain	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002	1 0.02 0.0086 6.6 4.7 No Rain	21 0.01 0.0025 6.8 3.5 Some Rain	2 0.04 0.579 6.7 4.1 Much Rain	90 0.02 0.0012 6.7 3.8 Much Rain	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01
26 26 25 26 26 26 26 26 26 28 20 Other Other 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved BODS - Total Brossolved Cadmium - Dissolved Chemical Oxygen Demand Chloride	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01
26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Asenic - Dissolved Boros - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01
26 25 26 25 26 26 26 26 26 27 Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikel - Dissolved Nikela - Dissolved Nikela - Dissolved Nikela - Dissolved Nikela - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total BOTON - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.001 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019 0.09 6	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1	7 0.01 0.0055 6.7 4.8 Some Rain 30/09/2019 0.03 6	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1
26 25 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nirate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Cxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Manganese - Dissolved Nikrate - Nikrogen pH Water Level of Bore Weather - 24 hr Zinne - Dissolved Ammonia Nikrogen Aluminium - Dissolved Ammonia Nikrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.001 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019 0.09 6	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1	7 0.01 0.0055 6.7 4.8 Some Rain 30/09/2019 0.03 6	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Assenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Comments Conductivity at 25°C Copper - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.001 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019 0.09 6	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30	7 0.01 0.0055 6.7 4.8 Some Rain 30/09/2019 0.03 6	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6	0.0013 0.0042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.0002 19/12/2019 0.01 1	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mirate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Cadminium - Dissolved Cadminium - Dissolved Cadminium - Dissolved Cadminium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.001 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019 0.09 6	1 0.001 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6 16 58.2	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6 19	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019 0.01 1	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikatel - Nikrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nikrogen Aluminium - Dissolved Ammonia Nikrogen Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/03/2019 0.09 6	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30	7 0.01 0.0055 6.7 4.8 Some Rain 30/09/2019 0.03 6 16	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15	14 0.01 0.0163 6.6 4.5 No Rain 0.3 6 19	0.0013 0.0042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.0002 19/12/2019 0.01 1	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nirate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Asenic - Dissolved Dobs - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002  13/06/2019 0.09 6 15	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30 86	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6 16 58.2	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23 70.4	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6 19 91.4	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019 0.01 1 48	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15 19.4	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15 19.1 7 0.01
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.001 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019 0.09 6	1 0.001 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6 16 58.2	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6 19	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019 0.01 1	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Manganese - Dissolved Mickel - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002  13/06/2019 0.09 6 15	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30 86	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6 16 58.2	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23 70.4	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6 19 91.4	0.0013 0.042 33 0.01 0.0005 0.004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019 0.01 1 48	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15 19.4	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15 19.1 7 0.01
26 25 26 25 26 26 26 26 26 26 25 Other Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikrate - Nikrogen pH Water Level of Bore Weather - 24 hr Zinne - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Ammonia Nitrogen Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chommum - Dissolved Comductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nikrate - Nikrogen	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.001 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002 13/06/2019 0.09 6 15 83.5	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30 86 20 0.01 0.0294	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6 16 58.2 1 0.02 0.0388	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23 70.4 1 0.01 0.0103	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2 3 0.01 0.0094	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6 19 91.4	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002 19/12/2019 0.01 1 48 37.1	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25 20.8 1 0.01 0.0017	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15 19 10.01 0.0026	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15 19.2 1 0.01 0.003	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15 19.4 7 0.01 0.0022	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15 19.1 7 0.01 0.0013
26 26 25 26 25 26 26 28 28 20 Condition  Condition  26 25 26 26 26 26 26 26 26 26 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikrate - Nikrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Amsenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Compents Conductivity at 25°C Copper - Dissolved Comments Conductivity at 25°C Copper - Dissolved Lead - Dissolved Manganese - Dissolved Manganese - Dissolved Manganese - Dissolved Manganese - Dissolved Nikrate - Nitrogen PH	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002  13/03/2019  0.09 6 15 83.5	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30 86 20 0.01 0.0294 7.8	7 0.01 0.0055 6.7 4.8 Some Rain 30/09/2019 0.03 6 16 58.2 1 0.02 0.0388	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23 70.4 1 0.01 0.0103	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2 3 0.01 0.0094	14 0.01 0.0163 6.6 4.5 No Rain 0.3 6 19 91.4 1 0.01 0.643 6.5	0.0013 0.0042 33 0.01 0.0005 0.0004 0.00007 2.24 6.5 4.4 No Rain 0.0002  19/12/2019  0.01 1 48  37.1 18 0.01 0.0174	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25 20.8 1 0.01 0.0017 6.6	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15 19 10.01 0.0026	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15 19.2 1 0.01 0.003	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15 19.4 7 0.01 0.0022 6.7	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15 19.1 7 0.01 0.0013
26 25 26 25 26 26 26 26 26 26 27 Condition 28 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikel - Dissolved Description  Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Ammonia Nitrogen Arsenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Manganese - Dissolved Nikel - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.001 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002  13/06/2019  0.09 6 15 83.5 1 0.01 0.0109	0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30 86 20 0.01 0.0294	7 0.01 0.0055 6.7 4.8 Some Rain 30/08/2019 0.03 6 16 58.2 1 0.02 0.0388	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23 70.4 1 0.01 0.0103	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2 3 0.01 0.0094	14 0.01 0.0163 6.6 4.5 No Rain 8/11/2019 0.3 6 19 91.4 1 0.01 0.643	0.0013 0.042 33 0.01 0.0005 0.0004 0.0007 2.24 6.5 4.4 No Rain 0.002  19/12/2019  0.01 1 48 37.1 18 0.01 0.0174	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25 20.8 1 0.01 0.0017 6.6 4.2	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15 19 10.01 0.0026	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15 19.2 1 0.01 0.003	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15 19.4 7 0.01 0.0022	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15 19.1 7 0.01 0.001 0.0013
26 26 25 26 25 26 26 28 28 20 Condition  Condition  26 25 26 26 26 26 26 26 26 26 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nikrate - Nikrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Amonia Nikrogen Aluminium - Dissolved Amonia Nikrogen Assenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Manganese - Dissolved Nikrate - Nikrogen H Nikrel - Dissolved Nikrate - Nikrogen	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.021 1 0.01 0.0005 0.0207 0.0008 1.92 6.7 4.8 No Rain 0.002  13/03/2019  0.09 6 15 83.5	1 0.01 0.0019 6.5 4.7 Some Rain 29/07/2019 0.1 1 30 86 20 0.01 0.0294 7.8	7 0.01 0.0055 6.7 4.8 Some Rain 30/09/2019 0.03 6 16 58.2 1 0.02 0.0388	45 0.01 0.0014 6.6 4.8 No Rain 24/09/2019 0.03 1 23 70.4 1 0.01 0.0103	80 0.01 0.002 6.6 4.1 Some Rain 25/10/2019 0.02 1 15 68.2 3 0.01 0.0094	14 0.01 0.0163 6.6 4.5 No Rain 0.3 6 19 91.4 1 0.01 0.643 6.5	0.0013 0.0042 33 0.01 0.0005 0.0004 0.00007 2.24 6.5 4.4 No Rain 0.0002  19/12/2019  0.01 1 48  37.1 18 0.01 0.0174	1 0.02 0.0086 6.6 4.7 No Rain 29/01/2020 0.01 1 25 20.8 1 0.01 0.0017 6.6	21 0.01 0.0025 6.8 3.5 Some Rain 28/02/2020 0.01 1 15 19 10.01 0.0026	2 0.04 0.579 6.7 4.1 Much Rain 27/03/2020 0.01 6 15 19.2 1 0.01 0.003	90 0.02 0.0012 6.7 3.8 Much Rain 17/04/2020 0.03 1 15 19.4 7 0.01 0.0022 6.7	26 0.01 0.0061 7 4.2 No Rain 21/05/2020 0.01 1 15 19.1 7 0.01 0.0013

Notes:

Values in red were reported below the detection limit.



Condition	Description	Measure	22/06/2017	17/07/2017	18/08/2017	21/09/2017	18/10/2017	27/11/2017	21/12/2017	26/01/2018	27/02/2018	21/03/2018	17/04/2018	29/05/2018
26	Aluminium - Dissolved	g/m³	0.002						0.012					
25 26 25 26 26	Ammonia Nitrogen	g/m³	2.26	2.39	2.66	2.82	2	2.91	2.83	0.18	0.05	0.08	1.97	1.97
26	Arsenic - Dissolved	g/m³	0.01						0.007					
25	BOD5 - Total	g/m³	2	5	3	9	11	14	5	1	1	1	2	8
26	Boron - Dissolved	g/m³	0.56						0.38					
26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	76	27	45	43	32	56	50	107	15	54	26	22
26	Chloride	g/m³	168						181					
26	Chromium - Dissolved	g/m³	0.001						0.001					
			Clear, floating	Clear, mistry			Cloudy, misty							
			solids	grey, floating	Clear, floating	_	grey, floating	Cloudy. Grey,	Clear/misty	Clear and				
Other	Comments			solids	solids	Grey	solids	floating solids	grey	floating solids	Cloudy	Cloudy	Greyish	Clear
25	Conductivity at 25°C	mS/m	171	147	158	175	119	173	174	51.6	106	48	121	130
26	Copper - Dissolved	g/m³	0.0005						0.0075					
26	Dissolved Reactive Phosphorus	g/m³	0.024						0.017	400		17		2
25	Faecal Coliforms Iron - Dissolved	cfu/100ml	0.55	0.23	0.25	1 0.09	15 0.05	0.07	0.13	130 0.03	4 0.01	0.01	26 0.09	0.13
25 26	Lead - Dissolved	g/m³	0.006	0.23	0.25	0.09	0.05	0.07	0.13	0.03	0.01	0.01	0.09	0.13
26	Manganese - Dissolved	g/m <sup>3</sup>	10.9	10.7	9.66	10.4	5.76	10.2		1.89	0.564	1.65	8	7.19
25 26 26	Nickel - Dissolved	g/m³ g/m³	0.0048	10.7	9.00	10.4	5.76	10.2	10.8 0.0056	1.09	0.364	1.00	0	7.19
26	Nitrate - Nitrogen	g/m³	0.0048						0.24					
25	nH	9/111-	6.6	6.6	6.7	6.8	6.7	6.6	6.6	6.7	6.7	6.5	6.6	6.7
Other	Water Level of Bore	Metres	4.3	4.1	4.1	4.2	4.7	4.8	5.2	4.9	4.8	4.8	4.7	5
Other	Weather - 24 hr	Wictics	4.5	4.1	No Rain	Some Rain	No Rain	No Rain	No Rain	Some Rain	Some Rain	Some Rain	Some Rain	3
26	Zinc - Dissolved	g/m³	0.005		140 IXaiii	Oome ream	140 Italii	140 Italii	0.03	Oome ream	Come ream	Come ream	Oome Rain	
20	Zano Biocorros	19	0.000		ı	ı			0.00					J
Condition	Description	Measure	29/06/2018	24/07/2018	28/08/2018	24/09/2018	30/10/2018	13/11/2018	13/12/2018	10/01/2019	25/02/2019	27/03/2019	23/04/2019	29/05/2019
26	Aluminium - Dissolved	g/m³	0.002						0.003					
26 25	Ammonia Nitrogen	g/m³	0.01	0.01	1.9	1.72	0.24	1.46	2.21	2.56	0.01	0.01	0.64	1.47
26	Arsenic - Dissolved	g/m³	0.001				-	-	0.002					
25	BOD5 - Total	g/m³	1	1	11	11	1	6	3	3	1	1	9	6
26	Boron - Dissolved	g/m³	0.17					-	0.36				-	-
26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	19	15	40	43	15	35	34	48	15	15	43	40
26	Chloride	g/m³	104						156					
26	Chromium - Dissolved	g/m³	0.001						0.001					
					Light brown,				Clear					
Other	Comments		Clear	Clear	floating solids	Cloudy		Clear			Clear			
25	Conductivity at 25°C	mS/m	46.1	44.5	154	163	63.6	130	157	171	23.3	21.8	82.9	83.8
25				44.5	134	103	00.0	.00			20.0	21.0	02.5	
26	Copper - Dissolved	g/m³	0.0005	44.5	134	103	00.0	.00	0.0015		20.0	21.0	02.3	55.5
26	Copper - Dissolved Dissolved Reactive Phosphorus	g/m³ g/m³	0.0005 0.023	44.5					0.0015 0.025					
26 26 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml	0.0005 0.023 1	1	7	22	29	28	0.0015 0.025 6	1	1	17	62	11
26 26 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	g/m³ g/m³ cfu/100ml g/m³	0.0005 0.023 1 0.01	1 0.01					0.0015 0.025 6 0.02	1 0.04				
26 26 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved	g/m³ g/m³ cfu/100ml g/m³ g/m³	0.0005 0.023 1 0.01 0.0005	1 0.01	7 0.02	22 0.02	29 0.01	28 0.01	0.0015 0.025 6 0.02 0.0005	1 0.04	1 0.01	17 0.01	62 0.01	11 0.02
26 26 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.023 1 0.01 0.0005 0.38	1	7	22	29	28	0.0015 0.025 6 0.02 0.0005 7.25	1	1	17	62	11
26 26 25 25 26 25 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.023 1 0.01 0.0005 0.38 0.0019	1 0.01	7 0.02	22 0.02	29 0.01	28 0.01	0.0015 0.025 6 0.02 0.0005 7.25 0.0036	1 0.04	1 0.01	17 0.01	62 0.01	11 0.02
26 26 25 25 26 25 26 25 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01	1 0.01 0.0068	7 0.02 9.63	22 0.02 8.87	29 0.01 2.13	28 0.01 6.61	0.0015 0.025 6 0.002 0.0005 7.25 0.0036 0.18	1 0.04 10.2	1 0.01 0.0158	17 0.01 0.0011	62 0.01 2.68	11 0.02 5.04
26 26 25 25 26 25 26 25 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7	1 0.01 0.0068	7 0.02 9.63	22 0.02 8.87 6.6	29 0.01 2.13	28 0.01 6.61 6.6	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6	1 0.04 10.2	1 0.01 0.0158	17 0.01 0.0011 6.6	62 0.01 2.68	11 0.02 5.04 6.6
26 26 25 25 26 25 26 26 26 26 Other	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7	1 0.01 0.0068 6.8 4.5	7 0.02 9.63 6.6 4.8	22 0.02 8.87 6.6 4.8	29 0.01 2.13 6.6 4.5	28 0.01 6.61 6.6 4.7	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5	1 0.04 10.2 6.7 4.7	1 0.01 0.0158 6.7 4.2	17 0.01 0.0011 6.6 4.1	62 0.01 2.68 6.8 4.1	11 0.02 5.04 6.6 4.2
26 26 25 25 26 26 26 26 25 Other	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr	g/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain	1 0.01 0.0068	7 0.02 9.63	22 0.02 8.87 6.6	29 0.01 2.13	28 0.01 6.61 6.6	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain	1 0.04 10.2	1 0.01 0.0158	17 0.01 0.0011 6.6	62 0.01 2.68	11 0.02 5.04 6.6
26 26 25 25 26 25 26 26 26 26 Other	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7	1 0.01 0.0068 6.8 4.5	7 0.02 9.63 6.6 4.8	22 0.02 8.87 6.6 4.8	29 0.01 2.13 6.6 4.5	28 0.01 6.61 6.6 4.7	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5	1 0.04 10.2 6.7 4.7	1 0.01 0.0158 6.7 4.2	17 0.01 0.0011 6.6 4.1	62 0.01 2.68 6.8 4.1	11 0.02 5.04 6.6 4.2
26 26 25 25 26 25 26 26 26 26 Other Other 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved	g/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003	0.001 0.0068 6.8 4.5 Some Rain	7 0.02 9.63 6.6 4.8 Some Rain	22 0.02 8.87 6.6 4.8 No Rain	29 0.01 2.13 6.6 4.5 Some Rain	28 0.01 6.61 6.6 4.7 No Rain	0.0015 0.025 6 0.022 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain	1 0.01 0.0158 6.7 4.2 Some Rain	17 0.01 0.0011 6.6 4.1 Much Rain	62 0.01 2.68 6.8 4.1 Much Rain	11 0.02 5.04 6.6 4.2 No Rain
26 26 25 25 26 26 26 26 26 26 27 Other Other Other 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain	1 0.01 0.0068 6.8 4.5	7 0.02 9.63 6.6 4.8	22 0.02 8.87 6.6 4.8	29 0.01 2.13 6.6 4.5	28 0.01 6.61 6.6 4.7	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain	1 0.04 10.2 6.7 4.7	1 0.01 0.0158 6.7 4.2	17 0.01 0.0011 6.6 4.1	62 0.01 2.68 6.8 4.1	11 0.02 5.04 6.6 4.2
26 26 25 25 26 26 26 26 26 26 26 Other Other 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitkel - Dissolved Nittate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003	1 0.01 0.0068 6.8 4.5 Some Rain	7 0.02 9.63 6.6 4.8 Some Rain	22 0.02 8.87 6.6 4.8 No Rain	29 0.01 2.13 6.6 4.5 Some Rain	28 0.01 6.61 6.6 4.7 No Rain	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain	1 0.01 0.0158 6.7 4.2 Some Rain	17 0.01 0.0011 6.6 4.1 Much Rain	62 0.01 2.68 6.8 4.1 Much Rain	11 0.02 5.04 6.6 4.2 No Rain
26 25 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 Other Other 26 Condition 26 25 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description Aluminium - Dissolved Aluminium - Dissolved Aluminium - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003	0.001 0.0068 6.8 4.5 Some Rain	7 0.02 9.63 6.6 4.8 Some Rain	22 0.02 8.87 6.6 4.8 No Rain	29 0.01 2.13 6.6 4.5 Some Rain	28 0.01 6.61 6.6 4.7 No Rain	0.0015 0.025 6 0.022 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain	1 0.01 0.0158 6.7 4.2 Some Rain	17 0.01 0.0011 6.6 4.1 Much Rain	62 0.01 2.68 6.8 4.1 Much Rain	11 0.02 5.04 6.6 4.2 No Rain
26 25 25 25 26 25 26 26 26 26 25 Other Other 26 26 26 25 26 25 25 26 25 25 25 25 25 25 25 25 25 25 25 25 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mittal - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51	7 0.02 9.63 6.6 4.8 Some Rain	22 0.02 8.87 6.6 4.8 No Rain	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38	28 0.01 6.61 6.6 4.7 No Rain	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02	17 0.01 0.0011 6.6 4.1 Much Rain	62 0.01 2.68 6.8 4.1 Much Rain	11 0.02 5.04 6.6 4.2 No Rain
26 25 25 25 26 25 26 26 26 26 25 Other Other 26 26 26 25 26 25 25 26 25 25 25 25 25 25 25 25 25 25 25 25 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nircle - Dissolved Nirate - Nirrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Arsenic - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003	1 0.01 0.0068 6.8 4.5 Some Rain	7 0.02 9.63 6.6 4.8 Some Rain	22 0.02 8.87 6.6 4.8 No Rain	29 0.01 2.13 6.6 4.5 Some Rain	28 0.01 6.61 6.6 4.7 No Rain	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain	1 0.01 0.0158 6.7 4.2 Some Rain	17 0.01 0.0011 6.6 4.1 Much Rain	62 0.01 2.68 6.8 4.1 Much Rain	11 0.02 5.04 6.6 4.2 No Rain
26 25 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mittate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen BOB5 - Total BOF5 - Total	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51	7 0.02 9.63 6.6 4.8 Some Rain	22 0.02 8.87 6.6 4.8 No Rain	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38	28 0.01 6.61 6.6 4.7 No Rain	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02	17 0.01 0.0011 6.6 4.1 Much Rain	62 0.01 2.68 6.8 4.1 Much Rain	11 0.02 5.04 6.6 4.2 No Rain
26 25 26 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved BOD5 - Total Boron - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49	0.0015 0.025 6 0.02 0.0005 7.25 0.038 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6
26 25 25 26 26 25 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.01 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51	7 0.02 9.63 6.6 4.8 Some Rain	22 0.02 8.87 6.6 4.8 No Rain	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38	28 0.01 6.61 6.6 4.7 No Rain	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02	17 0.01 0.0011 6.6 4.1 Much Rain	62 0.01 2.68 6.8 4.1 Much Rain	11 0.02 5.04 6.6 4.2 No Rain
26 25 25 26 25 26 26 26 26 26 26 25 Other Other 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitkel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved  Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadnium - Dissolved Cadnium - Dissolved Cadnium - Dissolved Chemical Dxygen Demand Chloride	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49	0.0015 0.025 6 0.02 0.0005 7.25 0.038 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6
26 25 25 26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49	0.0015 0.025 6 0.02 0.0005 7.25 0.038 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6
26 25 25 26 25 26 26 26 26 26 27 Other 26 26 27 Condition 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen BODS - Total BOTON - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3	7 0.02 9.63 6.6 4.8 Some Rain 30/09/2019 2.68 6	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2	28 0.01 6.61 6.6 4.7 No Rain 3/11/2019 2.49 6	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006 19/12/2019 0.76 3	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1	0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6
26 25 26 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Description Aluminium - Dissolved Ammoia Nitrogen Arsenic - Dissolved Boron - Dissolved Commercial Coxygen Demand Chloride Chromium - Dissolved Commercial Coxygen Demand Chromium - Dissolved Commercial Coxygen Demand Choromium - Dissolved Commercial Coxygen Demand Chromium - Dissolved Commercial Coxygen Demand Commercial Coxygen Demand Chromium - Dissolved Commercial Coxygen Demand Commercial Coxygen Demand Chromium - Dissolved Commercial Coxygen Demand	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49	0.0015 0.025 6 0.02 0.0005 7.25 0.038 0.18 6.6 4.5 No Rain 0.006	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6
26 25 25 26 25 26 26 28 20 Condition  Condition  26 26 26 26 26 26 26 Cher 26 Cher 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mittate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Comments Comductivity at 25°C Copper - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3	7 0.02 9.63 6.6 4.8 Some Rain 30/09/2019 2.68 6	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2	28 0.01 6.61 6.6 4.7 No Rain 3/11/2019 2.49 6	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006 19/12/2019 0.76 3	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1	0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6
26 25 25 26 25 26 26 28 20 Condition  Condition  26 26 26 26 26 26 26 Cher 26 Cher 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitcate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Copper - Dissolved Dissolved Reactive Phosphorus	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/00/2019 2.27 1	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33	28 0.01 6.61 6.6 4.7 No Rain 2.49 6 37	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006 19/12/2019 0.76 3	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32
26 25 25 26 25 26 26 28 20 Condition  Condition  26 26 26 26 26 26 26 Cher 26 Cher 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mittale - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Possolved Dissolved Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33	28 0.01 6.61 6.6 4.7 No Rain 3/11/2019 2.49 6	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006 19/12/2019 0.76 3	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90 12
26 25 25 26 25 26 26 26 26 26 27 Condition 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitcate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Copper - Dissolved Dissolved Reactive Phosphorus	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/00/2019 2.27 1	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49 6 37	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006 19/12/2019 0.76 3	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32
26 25 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved DOS - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1 19	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43 164 6 0.02	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70 169 2 0.05	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19 164 2 0.04	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33 166	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49 6 37	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006 19/12/2019 0.76 3	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19 28.1 98 0.01	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23 37 0.01	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15 46.9	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15 68	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90
26 25 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen BODS - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comunium - Dissolved Comunium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comunium - Dissolved Comunium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Lead - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49 6 37	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006  19/12/2019  0.76 3 63	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90 12
26 25 26 25 26 26 26 28 20 Condition  Condition  26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Lead - Dissolved Manganese - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1 19	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43 164 6 0.02	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70 169 2 0.05	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19 164 2 0.04	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33 166	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49 6 37	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006  19/12/2019  0.76 3 63	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19 28.1 98 0.01	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23 37 0.01	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15 46.9	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15 68	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90
26 25 25 26 26 26 26 26 26 26 27 Other 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen BODS - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comunium - Dissolved Comunium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comunium - Dissolved Comunium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Collforms Iron - Dissolved Lead - Dissolved Lead - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1 19	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43 164 6 0.02	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70 169 2 0.05	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19 164 2 0.04	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33 166	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49 6 37	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006  19/12/2019  0.76 3 63	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19 28.1 98 0.01	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23 37 0.01	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15 46.9	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15 68	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90
26 25 26 25 26 26 26 28 20 Condition  Condition  26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Lead - Dissolved Lead - Dissolved Manganese - Dissolved	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1 19 4 0.03 8.86	29/07/2019 2.51 3 43 164 6 0.02	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70 169 2 0.05	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19 164 2 0.04 9.58	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33 166 7 0.05	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49 6 37 169	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006 19/12/2019 0.76 3 63 88.9	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19 28.1 98 0.01 0.0029	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23 37 0.01 0.077	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15 46.9	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15 68 4 0.01 2.52	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90 12 0.01 3.89
26 25 25 26 25 26 26 26 26 26 27 26 27 26 26 27 26 26 27 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Ammonia Nitrogen Assenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1 19	1 0.01 0.0068 6.8 4.5 Some Rain 29/07/2019 2.51 3 43 164 6 0.02 10.3 7.7	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70 169 2 0.05 11.4	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19 164 2 0.04 9.58	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33 166 7 0.05	28 0.01 6.61 6.6 4.7 No Rain 2.49 6 37 169 3 0.04	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006  19/12/2019  0.76 3 63  88.9  110 0.01 3.7	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19 28.1 98 0.01 0.0029 6.9	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23 37 0.01 0.077	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15 46.9 7 0.01 1.05	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15 68 4 0.01 2.52	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90 12 0.01 3.89 6.5
26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Colforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Niktale - Niktogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Ammonia Nikrogen Aluminium - Dissolved Ammonia Nikrogen Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Manganese - Dissolved Manganese - Dissolved Manganese - Dissolved Mirate - Nikrogen Mirate - Nikrogen Mirate - Nikrogen PH Water Level of Bore	g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	0.0005 0.023 1 0.001 0.0005 0.38 0.0019 1.01 7 4.7 No Rain 0.003 13/06/2019 2.27 1 19 4 0.03 8.86	29/07/2019 2.51 3 43 46 6 0.02 10.3	7 0.02 9.63 6.6 4.8 Some Rain 30/08/2019 2.68 6 70 169 2 0.05 11.4	22 0.02 8.87 6.6 4.8 No Rain 24/09/2019 2.68 1 19 164 2 0.04 9.58 6.8 4.3	29 0.01 2.13 6.6 4.5 Some Rain 25/10/2019 2.38 2 33 166 7 0.05 10	28 0.01 6.61 6.6 4.7 No Rain 8/11/2019 2.49 6 37 169 3 0.04 11	0.0015 0.025 6 0.02 0.0005 7.25 0.0036 0.18 6.6 4.5 No Rain 0.006  19/12/2019  0.76 3 63 88.9 110 0.01 3.7	1 0.04 10.2 6.7 4.7 No Rain 29/01/2020 0.01 1 19 28.1 98 0.01 0.0029 6.9 7.1	1 0.01 0.0158 6.7 4.2 Some Rain 28/02/2020 0.02 1 24 23 37 0.01 0.077	17 0.01 0.0011 6.6 4.1 Much Rain 27/03/2020 0.28 1 15 46.9 7 0.01 1.05	62 0.01 2.68 6.8 4.1 Much Rain 17/04/2020 0.55 1 15 68 4 0.01 2.52	11 0.02 5.04 6.6 4.2 No Rain 21/05/2020 0.89 6 32 90 12 0.01 3.89 6.5 4.3

Notes:

Values in red were reported below the detection limit.



Condition	D	Ma	22/06/2017	17/07/2017	17/08/2017	21/09/2017	17/10/2017	27/11/2017	21/12/2017	26/01/2018	27/02/2018	21/03/2018	17/04/2018	29/05/2018
26	Aluminium - Dissolved	Measure g/m³	0.009			21/00/2011		27/11/2017	0.039	26/01/2018				25/05/2010
25	Ammonia Nitrogen	g/m³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
26 25	Arsenic - Dissolved BOD5 - Total	g/m³ g/m³	0.001	1	1	1	1	1	0.001	1	1	1	1	1
26	Boron - Dissolved	g/m³	0.05						0.04					
26	Cadmium - Dissolved	g/m³	0.0002						0.0002					
Other 26	Chemical Oxygen Demand Chloride	g/m³ g/m³	86 110	15	15	15	15	19	17 119	49	15	15	15	15
26	Chromium - Dissolved	g/m³	0.001						0.001					
			Clear, floating	Clear, misty	Cloudy, misty		Clear, misty	Clear,						
			solids, misty	grey, floating	grey, floating		grey, floating	misty/grey,	Clear/misty	Clear and				
Other 25	Comments Conductivity at 25°C	mS/m	grey 58.2	solids 57.8	solids 58.1	Light brown 58.6	solids 59.6	floating solids 54.4	grey 55.6	floating solids 29.3	Cloudy 37.7	Cloudy 46.6	Clear 57.3	Clear 56.2
26	Copper - Dissolved	g/m³	0.0005	37.0	30.1	30.0	33.0	54.4	0.0013	25.5	51.1	40.0	37.5	30.2
26	Dissolved Reactive Phosphorus	g/m³	0.019			4			0.024					
25 25	Faecal Coliforms Iron - Dissolved	cfu/100ml g/m <sup>3</sup>	15 0.01	3 0.01	3 0.01	0.01	0.04	4 0.01	2 0.04	110 0.07	2400 0.03	440 0.04	150 0.01	25 0.01
26	Lead - Dissolved	g/m³	0.0005						0.0005					
25	Manganese - Dissolved	g/m³	0.0121	0.0067	0.014	0.0533	0.0273	0.0301	0.0313	0.0154	0.0081	0.0141	0.0464	0.0377
26 26	Nickel - Dissolved Nitrate - Nitrogen	g/m³ a/m³	0.0039 0.27						0.004 0.21					
25	pH	_	6.3	6.2	6.5	6.5	6.2	6.2	6	6.2	6.1	6.4	6.4	6.5
Other	Water Level of Bore	Metres	1.5	1	1	0.4	1	1.5	1.4	1.5	1.4	1.5	0.5	1
Other 26	Weather - 24 hr Zinc - Dissolved	g/m³	0.011		Some Rain	Some Rain	No Rain	No Rain	No Rain 0.015	Some Rain	Some Rain	Some Rain	Some Rain	
Condition 26	Description Aluminium - Dissolved	Measure g/m³	29/06/2018 0.009	24/07/2018	28/08/2018	24/09/02018	30/10/2018	13/11/2018	13/12/2018	10/01/2019	25/02/2019	27/03/2019	23/04/2019	29/05/2019
25 26	Ammonia Nitrogen Arsenic - Dissolved	g/m³ g/m³	0.01 0.001	0.01	0.01	0.01								
25	BOD5 - Total	g/m³	0.001	1	1	1								
26	Boron - Dissolved	g/m³	0.03			*								
26 Other	Cadmium - Dissolved	g/m <sup>3</sup>	0.0002 15	15	15	17								
26	Chemical Oxygen Demand Chloride	g/m³ g/m³	101	15	15	17								
26	Chromium - Dissolved	g/m³	0.001											
							No sample collected - Bore	No sample	No sample	No sample collected - Bore		No sample		No sample
					Catalana a		covered by	collected - Bore	collected - Bore	still covered by		collected - Bore		collected - Bore
Other	Comments		Clear	Clear	Light brown, floating solids	Clear	landslip, not accessible	covered, not accessible	covered, not accessible	landslip, not accessible	No sample collected	covered, not accessible	No sample collected	covered, not accessible
25	Conductivity at 25°C	mS/m	55.2	56.4	57.7	57.3				decessions			collected	accessible
25 26	Copper - Dissolved	g/m³	55.2 0.0005	56.4						decessions			conected	accessione
25 26 26		g/m³ g/m³	55.2 0.0005 0.025	56.4						decession			collected	accessible
25 26 26 25 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup>	55.2 0.0005 0.025 2 0.01	56.4 1 0.01						accession			Conscied	accessine
25 26 26 25 25 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup>	55.2 0.0005 0.025 2 0.01 0.0005	56.4 1 0.01	57.7 1 0.01	57.3 1 0.01				decession			Conecida	accessione
25 26 26 25 25 26 26 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup>	55.2 0.0005 0.025 2 0.01 0.0005 0.0043	56.4	57.7	57.3				decession			Conscied	accessible
25 26 26 25 25 26 26 25 26 25 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen	g/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32	56.4 1 0.01 0.0092	57.7 1 0.01 0.0258	57.3 1 0.01 0.0278				decession			Collected	accessible
25 26 26 25 25 26 25 26 26 26 26 25	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mickel - Dissolved Nikrate - Nitrogen pH	a/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1	56.4 1 0.01	57.7 1 0.01 0.0258	57.3 1 0.01 0.0278				decession			Conocied	accessible
25 26 26 25 25 26 26 25 26 25 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr	g/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32	56.4 1 0.01 0.0092	57.7 1 0.01 0.0258	57.3 1 0.01 0.0278				decession			Conected	accessive
25 26 25 25 25 26 25 26 26 26 26 26 Other	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore	a/m <sup>3</sup> g/m <sup>3</sup> cfu/100ml g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup> g/m <sup>3</sup>	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3	56.4 1 0.01 0.0092 6.3 1	57.7 1 0.01 0.0258 6.6 2	57.3 1 0.01 0.0278 6.6 0.7				Coccount			Collected	allesaure
25 26 25 25 26 25 26 25 26 26 26 27 Other Other 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved	a/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ a/m³ Metres g/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain	56.4 1 0.01 0.0092 6.3 1	57.7 1 0.01 0.0258 6.6 2	57.3 1 0.01 0.0278 6.6 0.7	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020	17/04/2020	21/05/2020
25 26 26 25 25 26 26 26 26 26 27 Other 26 Condition	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved	a/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ a/m³ Metres g/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain	57.7 1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020		21/05/2020
25 26 26 25 25 25 26 25 26 26 25 Other Other 26 25 26 26 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved	a/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ a/m³ Metres g/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain	57.7 1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020	17/04/2020	21/05/2020 0.02
25 26 26 25 25 26 25 26 25 26 25 Other Other 26 25 26 25 26 25 26 25 26 25 26 25 26 25 26 26 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Mitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved Armonia Nitrogen Arsenic - Dissolved Arsenic - Dissolved	a/m³ g/m³ ctu/100ml g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain	57.7 1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020	17/04/2020	21/05/2020
25 26 26 25 25 25 26 25 26 26 25 Other Other 26 25 26 26 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved	a/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain	57.7 1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020	17/04/2020 0.01	21/05/2020
25 26 26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved	a/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ a/m³ Metres g/m³  Measure g/m³ a/m³ a/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain	57.7 1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020	17/04/2020 0.01	21/05/2020
25 26 26 25 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BODS - Total BORD - Total BORD - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride	d/m³ d/m² d/m² d/m² d/m² d/m³ d/m³ d/m³ d/m³ d/m³ d/m³ d/m³ d/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain	57.7 1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020	17/04/2020 0.01 1	21/05/2020 0.02 6
25 26 26 25 25 25 26 26 26 26 20 Other Other 26 25 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved	a/m³ g/m³ cfu/100ml g/m³ g/m³ g/m³ g/m³ a/m³ Metres g/m³  Measure g/m³ a/m³ a/m³ g/m³ g/m³ g/m³ g/m³ g/m³ g/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain	57.7 1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	25/10/2019	8/11/2019	19/12/2019		28/02/2020	27/03/2020	17/04/2020 0.01 1	21/05/2020 0.02 6
25 26 26 25 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 25 26 26 25 26 26 25 26 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BODS - Total BORD - Total BORD - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride	d/m³ d/m² d/m² d/m² d/m² d/m³ d/m³ d/m³ d/m³ d/m³ d/m³ d/m³ d/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain 29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain	No sample collected - Bore	No sample collected - Bore	No sample collected - Bore	ZS/01/Z0Z0  No sample collected -Bore	No sample collected - Bore	No sample collected - Bore	17/04/2020 0.01 1	21/05/2020 0.02 6
25 26 26 25 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Dissolved Dissolved Water Level of Bore Weather - 24 hr Zinc - Dissolved Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BOD5 - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved	d/m³ d/m² d/m² d/m² d/m² d/m³ d/m³ d/m³ d/m³ d/m³ d/m³ d/m³ d/m³	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4 1 0.01 0.0092 6.3 1 Some Rain 29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain	57.3 1 0.01 0.0278 6.6 0.7 No Rain 24/05/2019	No sample	No sample	No sample	29/01/2020 No sample	No sample	No sample	17/04/2020 0.01 1	21/05/2020 0.02 6 15
25 26 26 25 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BODS - Total BORD - Total BORD - Total BORD - Total Cardnium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved	ofma ofma ofu/100ml ofma ofu/100ml ofma ofma ofma ofma ofma ofma ofma ofma	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1	21/05/2020 0.02 6
25 26 26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Description Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total Boron - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved	adma clu/100ml g/ma clu/100ml g/ma g/ma g/ma g/ma g/ma g/ma g/ma g/ma	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15	21/05/2020 0.02 6 15
25 26 26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Armonia Nitrogen Arsenic - Dissolved BODS - Total BORD - Total BORD - Total BORD - Total Cardnium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved	ofma ofma ofu/100ml ofma ofu/100ml ofma ofma ofma ofma ofma ofma ofma ofma	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15	21/05/2020 0.02 6 15
25 26 26 25 26 26 27 26 26 27 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH Watter Level of Bore Weather - 24 hr Zinc - Dissolved Auminium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Colorum Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Colorum Dissolved Colorum Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Resolved Dissolved Resolved Faecal Coliforms Faecal Coliforms Faecal Coliforms	adma dm/ma dm/d00ml dm/d00ml dm/d00ml dm/d0ml dm/d00ml dm/d00ml dm/d0ml	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15	21/05/2020 0.02 6 15
25 26 26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nickel - Dissolved Dissolved Dissolved Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved Ammonia Nitrogen Arsenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Coxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Iron - Dis	adma cluv/100ml g/ma cluv/100ml g/ma g/ma g/ma g/ma g/ma g/ma g/ma g/ma	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15 36.6 60 0.05	21/05/2020 0.02 6 15 43.2 72 0.03
25 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen PH Watter Level of Bore Weather - 24 hr Zinc - Dissolved Aumnium - Dissolved Ammonia Nitrogen Aluminium - Dissolved Sobset - State Born - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Comments Conductivity at 25°C Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved	adma dm/ma dm/d0oml dm/d0oml dm/doml	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15 36.6	21/05/2020 0.02 6 15 43.2
25 26 25 26 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Watter Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Amonia Nitrogen Aluminium - Dissolved Amonia Nitrogen Assenic - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chorner Comper - Dissolved Copper - Dissolved Copper - Dissolved Lead - Dissolved Nickel - Dissolved	adma cluv/100ml g/ma cluv/100ml g/ma g/ma g/ma g/ma g/ma g/ma g/ma g/ma	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15 36.6 60 0.05 0.0711	21/05/2020 0.02 6 15 43.2 72 0.03 0.0264
25 26 26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Aluminium - Dissolved Ammonia Nitrogen Arsenic - Dissolved BODS - Total BOTO - Total BOTO - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chornel - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Manganese - Dissolved Manganese - Dissolved Manganese - Dissolved Nitrate - Nitrogen DH	adma chu/10oml g/m² chu/10oml g/m² g/m² g/m² g/m³ adm³ adm² adm² adm² adm² adm² adm² adm² adm²	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15 36.6 60 0.05 0.0711	21/05/2020 0.02 6 15 43.2 72 0.03 0.0264 6.2
25 26 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Watter Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Amonia Nitrogen Aluminium - Dissolved Amonia Nitrogen Assenic - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chorner Comper - Dissolved Copper - Dissolved Copper - Dissolved Lead - Dissolved Nickel - Dissolved	adma clu/100ml g/m² clu/100ml g/m² g/m² g/m² g/m² g/m² adm² adm² adm² adm² adm² adm² adm² ad	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15 36.6 60 0.05 0.0711	21/05/2020 0.02 6 15 43.2 72 0.03 0.0264
25 26 26 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Copper - Dissolved Dissolved Reactive Phosphorus Faecal Coliforms Iron - Dissolved Lead - Dissolved Manganese - Dissolved Nitrate - Nitrogen pH Water Level of Bore Weather - 24 hr Zinc - Dissolved Aluminium - Dissolved Amonia Nitrogen Aluminium - Dissolved Amonia Nitrogen Assenic - Dissolved Cadmium - Dissolved Cadmium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Chemical Oxygen Demand Chloride Chromium - Dissolved Copper - Dissolved Copper - Dissolved Lead - Dissolved Nickel - Dissolved	adma chu/10oml g/m² chu/10oml g/m² g/m² g/m² g/m³ adm³ adm² adm² adm² adm² adm² adm² adm² adm²	55.2 0.0005 0.025 2 0.01 0.0005 0.0043 0.0019 0.32 6.1 1.3 No Rain 0.008	56.4  1 0.01 0.0092 6.3 1 Some Rain  29/07/2019	57.7  1 0.01 0.0258 6.6 2 Some Rain 30/09/2019	57.3  1 0.01 0.0278 6.6 0.7 No Rain  24/09/2019	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	No sample collected - Bore covered, not	17/04/2020 0.01 1 15 36.6 60 0.05 0.0711 6.1 1.8	21/05/2020 0.02 6 15 43.2 72 0.03 0.0264 6.2 1.3

Notes: Values in red were reported below the detection limit.



#### SOUTHERN LANDFILL - UPSTREAM MONITORING OF CAREY'S STREAM

Condition	Description	Measure	22/06/2017	20/07/2017	18/08/2017	21/09/2017	17/10/2017	27/11/2017	21/12/2017	26/01/2018	27/02/2018	21/03/2018	17/04/2018	29/05/2018
26	Aluminium - Acid Soluble	g/m³	0.015						0.005					
25	Ammonia Nitrogen	g/m³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Arsenic - Acid Soluble	g/m³	0.001						0.001					
25	BOD5 - Total	g/m³	1	1	1	1	1	1	1	1	1	1	1	1
26	Boron - Acid Soluble	g/m³	0.03						0.03					
26	Cadmium - Acid Soluble	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	15	59	15	15	15	15	15	15	15	15	15	15
26	Chloride	g/m³	43.3						47.4					
26	Chromium - Acid Soluble	g/m³	0.001						0.001					
25	Conductivity at 25°C	mS/m	23.8	22.1	21.5	23.5	23.9	26.3	26.5	27.5	22.1	24.7	22.2	22.3
26	Copper - Acid Soluble	g/m³	0.0005						0.0005					
26	Dissolved Reactive Phosphorus	g/m³	0.011						0.012					
25 25 26	Faecal Coliforms	cfu/100ml	8	4	12	32	58	150	12	84	96	77	20	28
25	Iron - Acid Soluble	g/m³	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02
26	Lead - Acid Soluble	g/m³	0.0005						0.0005					
25	Manganese - Acid Soluble	g/m³	0.0027	0.0007	0.0052	0.0016	0.0006	0.0007	0.0005	0.0013	0.0023	0.0015	0.0068	0.0013
26	Nickel - Acid Soluble	g/m³	0.0005						0.0005					
26	Nitrate - Nitrogen	g/m³	0.46	0.48	0.51	0.46	0.38	0.36	0.35	0.39	0.26	0.31	0.25	0.31
25	pH		7.7	7.6	7.7	7.7	7.7	7.7	7.6	7.8	7.7	7.7	7.8	7.8
Other	Suspended Solids - Total	g/m³	5	5	6	6	6	6	6	7	6	6	6	6
26	Zinc - Acid Soluble	g/m³	0.002						0.002					

Condition	Description	Measure	29/06/2018	24/07/2018	28/08/2018	24/09/2018	30/10/2018	13/11/2018	13/12/2018	10/01/2019	25/02/2019	27/03/2019	23/04/2019	29/05/2019
26	Aluminium - Acid Soluble	g/m³	0.01						0.013					
25 26	Ammonia Nitrogen	g/m <sup>3</sup>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
26	Arsenic - Acid Soluble	g/m³	0.001						0.001					
25	BOD5 - Total	g/m³	1	1	1	1	1	6	1	3	1	1	3	1
26	Boron - Acid Soluble	g/m³	0.03						0.03					
26	Cadmium - Acid Soluble	g/m³	0.0002						0.0002					
Other	Chemical Oxygen Demand	g/m³	15	15	15	15	15	15	15	15	15	28	15	15
26	Chloride	g/m³	42.4						40.5					
26	Chromium - Acid Soluble	g/m³	0.001						0.001					
25	Conductivity at 25°C	mS/m	22.7	23.3	22.7	23.5	18.4	20.6	22.7	24.8	26.1	25.4	20.5	23.5
26	Copper - Acid Soluble	g/m³	0.0005						0.0005					
26	Dissolved Reactive Phosphorus	g/m³	0.013						0.01					
25	Faecal Coliforms	cfu/100ml	4	4	84	120	4	88	65	36	110	150	80	20
25	Iron - Acid Soluble	g/m³	0.01	0.01	0.01	0.01	0.05	0.01	0.02	0.02	0.01	0.02	0.03	0.01
26	Lead - Acid Soluble	g/m³	0.0005						0.0005					
25	Manganese - Acid Soluble	g/m³	0.0033	0.0086	0.0013	0.0006	0.0032	0.0008	0.0061	0.0053	0.0048	0.0034	0.0016	0.0024
26	Nickel - Acid Soluble	g/m³	0.0005						0.0005					
26	Nitrate - Nitrogen	g/m³	0.4	0.43	0.32	0.26	0.29	0.2	0.24	0.28	0.35	0.28	0.25	0.31
25	pH		7.6	7.7	7.7	7.8	7.7	7.3	7.8	7.8	7.7	7.8	7.9	7.8
Other	Suspended Solids - Total	g/m³	6	6	6	6	6	5	6	6	6	6	6	6
26	Zinc - Acid Soluble	g/m³	0.002						0.002					

Condition	Description	Measure	13/06/2019	29/07/2019	30/08/2019	24/09/2019	25/10/2019	8/11/2019	19/12/2019	29/01/2020	28/02/2020	27/03/2020	17/04/2020	21/05/2020
26	Aluminium - Acid Soluble	g/m³												
25 26 25 26	Ammonia Nitrogen	g/m³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
26	Arsenic - Acid Soluble	g/m³												
25	BOD5 - Total	g/m³	6	1	3	1	3	6	6	1	6	1	3	1
26	Boron - Acid Soluble	g/m³												
26	Cadmium - Acid Soluble	g/m³												
Other	Chemical Oxygen Demand	g/m³	15	16	45	15	15	15	40	27	15	15	15	15
26	Chloride	g/m³												
26 25 26 26 25 25 26 25 26 25 26	Chromium - Acid Soluble	g/m³												
25	Conductivity at 25°C	mS/m	23.3	22.0	22.6	23.0	21.3	23.7	18.7	25.3	26.1	26.2	26.0	25.2
26	Copper - Acid Soluble	g/m³												
26	Dissolved Reactive Phosphorus	g/m³												
25	Faecal Coliforms	cfu/100ml	73	220	4	16	24	230	500	260	2900	100	150	340
25	Iron - Acid Soluble	g/m³	0.05	0.01	0.01	0.03	0.01	0.03	0.03	0.01	0.01	0.01	0.01	0.02
26	Lead - Acid Soluble	g/m³												
25	Manganese - Acid Soluble	g/m³	0.0045	0.0005	0.001	0.0065	0.0014	0.0187	0.0021	0.0013	0.003	0.0008	0.0009	0.0013
26	Nickel - Acid Soluble	g/m³												
26	Nitrate - Nitrogen	g/m³	0.3	0.38	0.32	0.25	0.21	0.23	0.25	0.23	0.25	0.3	0.22	0.29
25	pH		7.8	7.8	7.8	7.8	7.7	7.6	7.6	7.8	7.8	7.8	7.9	7.9
Other	Suspended Solids - Total	g/m³	6	6	6	6	6	6	5	6	6	6	6	6
26	Zinc - Acid Soluble	g/m³												

Notes:

Values in red were reported below the detection limit.



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All	Condition	Description	Measure	22/06/2017	20/07/2017	17/08/2017	21/09/2017	17/10/2017	27/11/2017	21/12/2017	26/01/2018	27/02/2018	21/03/2018	17/04/2018	29/05/2018
Ammonts Minogen			mododio		20/07/2017	17/06/2017	21/09/2017	17/10/2017	27/11/2017		20/01/2016	27/02/2016	21/03/2016	17/04/2016	29/05/2016
According		Ammonia Nitrogen			0.42	0.34	0.67	0.61	0.3		0.02	0.25	0.15	0.19	0.24
BOOD	26	Arsenic - Acid Soluble	g/m³		0.12	0.01	0.01	0.01	0.0		0.02	0.20	0.10	0.10	0.21
Source - And Solitable   Source - And Solitable   Source   Source - And Solitable   Source - A	25			3	2	2	1	2	1	1	1	1	1	1	1
Committee   Comm	26														
Decision															
Community		Chemical Oxygen Demand			36	15	15	15	31		21	20	16	21	15
Content   Cont															
Consider - Add Souther   Consider - Add Souther   Consider - Add Souther - Add South					20.0	27.0	25.4	27.0	40.0		45	00.0	20.0	20.4	20.0
Descrived Reactives Prescrived By   Descrived Reactives Prescrived By   Descrived Reactives Prescrived By   Descrived Reactives	26				29.8	27.9	35.1	37.8	43.2		45	0.00	36.2	29.1	29.2
Face   Column	26														
Least-Acid Solution	25				4	4	8	20	20		4	96	4	65	12
Least-Acid Solution	25			0.07	0.06	0.41				0.07	0.07		0.03		
Nichel - And Soluble   gimph   0,0009	26	Lead - Acid Soluble													
State   Name	25				0.233	0.259	0.41	0.345	0.337		0.211	0.453	0.208	0.169	0.193
Second color															
Commons   Suspended Solidis - Total   gm²   5   6   6   6   6   6   6   6   6   6			g/m³												
Concision   Conc			a/m³												
Condition					U	U	U	U	U		′	U	· ·	U	Ü
Aliminism - Acid Soluble   9m²   0.008   0.89   0.53   0.52   0.44   0.49   0.095   1.06   0.95   1.08   0.76   1   0.84	20	Zino Adia Solubie	19/111	0.002	l	l	l	I	I	0.002		1	l	I	ii
Administrative Acid Soluble   9m²   0.008   0.89   0.53   0.52   0.44   0.49   0.095   1.08   0.76   1   0.84	Conditio <u>n</u>	Description	Measure	29/06/2018	24/07/2018	28/08/2018	24/09/2018	30/10/2018	13/11/2018	13/12/2018	10/01/2019	25/02/2019	27/03/2019	23/04/2019	29/05/201 <u>9</u>
25 Arseno: -And Soluble 9m² 0.001	26	Aluminium - Acid Soluble													
25	25				0.89	0.53	0.52	0.44	0.49		0.95	1.08	0.76	1	0.84
25	26				_	_		_			_		_		_
Cardinium - Acid Soluble	25				6	2	3	2	9		5	6	3	11	6
Other   Chemical Oxygen Demand   Om*   15   33   15   19   15   15   19   15   15   19   28   15   55   42   15															
25					33	15	10	15	15		28	15	55	42	15
Chromitine Acid Soluble   glm2   0.001   0.005   0.0					33	15	19	15	15		20	15	55	42	15
Conductivity at 25°C   mS/m   30.5   79.5   33.1   35.5   38.8   62.7   76.1   74.4   72.4   74.0   37.4   68.2	26														
Compart Acid Soluble   g/m²   0.0005   g/m²   0.0015   2500   35   120   5900   8   4   4   4   270   230   10000   5   5   5   5   5   5   5   5   5					79.5	33.1	35.5	38.8	62.7		74.4	72.4	74.0	37.4	68.2
Faceal Coliforms	26	Copper - Acid Soluble	g/m³	0.0005						0.0005					
Lead - Acid Soluble   g/m²   0.0005   0.213   0.961   0.3   0.319   0.215   0.694   1.02   1.111   1.05   1.05   0.453   0.835	26			0.011						0.016					
Lead - Acid Soluble   g/m²   0.0005   0.213   0.961   0.3   0.319   0.215   0.694   1.02   1.111   1.05   1.05   0.453   0.835	25														
25   Manganese - Acid Soluble   gm²   0.213   0.961   0.3   0.319   0.215   0.684   1.02   1.11   1.05   1.05   0.453   0.835     26   Nikrale - Nikrogen   gm²   0.0005   7.3   0.66   1.18   1.22   1.41   1.15   1.28   1.15   0.8   1.34     25   pH	25				0.35	0.05	0.05	0.52	0.26		0.59	0.43	0.8	2.03	0.36
Nickel - Acid Soluble   g/m²   0.0005   1.85   0.73   0.86   1.18   1.22   1.41   1.15   1.28   1.15   0.8   1.34   25   1.41   1.15   1.28   1.15   0.8   1.34   25   1.41   1.15   1.28   1.15   0.8   1.34   25   1.41   1.15   1.28   1.15   0.8   1.34   25   1.41   1.15   1.28   1.15   0.8   1.34   25   1.35   0.73   0.86   7.7   7.6   7.7   7.5   7.6   8.0   7.5   8.0   7.5   8.0   7.5   7.8   3.0   7.5   8.0   7.5   7.8   3.0   7.5   8.0   7.5   7.8   3.0   7.5   3.0   3.	26				0.004	0.0	0.240	0.045	0.004		4.44	4.05	4.05	0.450	0.005
26	25				0.961	0.3	0.319	0.215	0.694		1.11	1.05	1.05	0.453	0.835
The condition   The conditio	26				1.95	0.73	0.86	1 19	1 22		1 15	1 28	1 15	0.8	1 3/
Suspended Solids - Total   g/m³   6   7   6   6   73   5   6   6   29   62   6			9/111												
Condition   Description   Measure   13/05/2019   29/07/2019   30/08/2019   24/09/2019   25/10/2019   38/11/2019   39/01/2020   28/02/2020   27/03/			a/m³												
Aluminium - Acid Soluble 9/m³	26														
Aluminium - Acid Soluble 9/m³															
26				13/06/2019	29/07/2019	30/08/2019	24/09/2019	25/10/2019	8/11/2019	19/12/2019	29/01/2020	28/02/2020	27/03/2020	17/04/2020	21/05/2020
26	20 25			0.83	1 20	1 22	1.09	0.57	0.68	0.24	0.22	0.12	0.1	0.49	0.81
25   BOD5 - Total   g/m³   6   6   8   4   3   6   3   1   1   1   3   1   26   Boron - Acid Soluble   g/m³   26   Cadmium - Acid Soluble   g/m³   15   49   48   15   15   15   15   44   31   45   15   15   15   26   Chloride   g/m³   26   Chromium - Acid Soluble   g/m³   27   28   25   Conductivity at 25°C   mS/m   71.5   86.7   74.7   75.2   30.4   37.4   22.6   39.9   40.4   37.8   40.0   38.8   26   Copper - Acid Soluble   g/m³   25   Conductivity at 25°C   mS/m   71.5   86.7   74.7   75.2   30.4   37.4   22.6   39.9   40.4   37.8   40.0   38.8   26   Copper - Acid Soluble   g/m³   25   Faecal Colforms   g/m³   25   Faecal Colforms   g/m³   0.24   0.27   0.36   0.36   0.36   0.07   0.08   0.07   0.11   0.06   0.1   0.04   0.1   25   Iron - Acid Soluble   g/m³   0.822   0.811   0.977   0.885   0.274   0.404   0.147   0.314   0.232   0.227   0.303   0.39   26   Nickel - Acid Soluble   g/m³   0.822   0.811   0.977   0.885   0.274   0.404   0.147   0.314   0.232   0.227   0.303   0.39   26   Nicrate - Nitrate - Nitrogen   g/m³   0.4   0.68   0.35   0.78   8.0   7.9   8.0   7.9   26   Nitrate - Nitrogen   g/m³   0.4   0.68   0.35   0.78   8.0   7.9   8.0   7.9   27   Other   Suspended Solids - Total   g/m³   6   6   6   6   6   6   6   6   6	26			0.83	1.29	1.22	1.08	0.57	0.08	0.24	0.22	0.12	0.1	0.49	0.61
26   Boron - Acid Soluble   g/m³   26   Cadmium - Acid Soluble   g/m³   15   49   48   15   15   15   15   44   31   45   15   15   15   15   26   Chloride   g/m³   26   Chloride   g/m³   26   Chloride   g/m³   27   27   27   27   27   27   27   2	25			6	6	8	4	3	6	3	1	1	1	3	1 1
26 Cadmium - Acid Soluble g/m³ 15 49 48 15 15 15 44 31 45 15 15 15 15 26 Chloride Grown - Acid Soluble g/m³ 71.5 86.7 74.7 75.2 30.4 37.4 22.6 39.9 40.4 37.8 40.0 38.8 26 Copper - Acid Soluble g/m³ 9/m³ 0.24 48 16 80 38 230 200 110 32 170 12 400 25 170 - Acid Soluble g/m³ 0.24 0.27 0.36 0.36 0.36 0.07 0.08 0.07 0.1 0.06 0.1 0.04 0.1 25 Manganese - Acid Soluble g/m³ 0.822 0.811 0.977 0.885 0.274 0.404 0.147 0.314 0.232 0.227 0.303 0.39 26 Nikrate - Nikr	26			Ŭ	l	l	· .	J	Ŭ	l				Ŭ	· .
Other Chemical Oxygen Demand g/m³ 15 49 48 15 15 15 44 31 45 15 15 15 15 26 Chloride g/m³ 26 Chromium - Acid Soluble g/m³ 271.5 86.7 74.7 75.2 30.4 37.4 22.6 39.9 40.4 37.8 40.0 38.8 26 Copper - Acid Soluble g/m³ 26 Dissolved Reactive Phosphorus g/m³ 26 Dissolved Reactive Phosphorus g/m³ 27 27 28 28 29 200 110 32 170 12 400 25 Iron - Acid Soluble g/m³ 0.24 0.27 0.36 0.36 0.36 0.07 0.08 0.07 0.1 0.06 0.1 0.04 0.1 26 Lead - Acid Soluble g/m³ 0.822 0.811 0.977 0.885 0.274 0.404 0.147 0.314 0.232 0.227 0.303 0.39 26 Nickel - Acid Soluble g/m³ 1.44 2.09 1.4 1.39 0.4 0.68 0.35 1.18 1.3 1.19 0.89 0.6 25 pH	26														
26 Chromium - Acid Soluble g/m³	Other	Chemical Oxygen Demand		15	49	48	15	15	15	44	31	45	15	15	15
26	26				l	I	I			1			İ		
26	26														
26 Dissolved Reactive Phosphorus g/m³ cfu/100ml 4 48 16 80 38 230 200 110 32 170 12 400 25   Iron - Acid Soluble g/m³ 0.24 0.27 0.36 0.36 0.07 0.08 0.07 0.1 0.06 0.1 0.04 0.1 26   Lead - Acid Soluble g/m³ 0.822 0.811 0.977 0.885 0.274 0.404 0.147 0.314 0.232 0.227 0.303 0.39 26 Nickel - Acid Soluble g/m³ 26 Nitrate - Nitrogen g/m³ 1.44 2.09 1.4 1.39 0.4 0.68 0.35 1.18 1.3 1.19 0.89 0.6 25 pH 8 7.9 7.8 7.7 7.6 7.9 6.8 7.9 6.8 7.8 8.0 7.9 8.0 7.9 0.00 0.00 0.00 0.00 0.00 0.00 0.0	25			71.5	86.7	74.7	75.2	30.4	37.4	22.6	39.9	40.4	37.8	40.0	38.8
25   Faecal Coliforms   Cfu/100ml   4   48   16   80   38   230   200   110   32   170   12   400   25   Iron - Acid Soluble   g/m³   0.24   0.27   0.36   0.36   0.36   0.07   0.08   0.07   0.1   0.06   0.1   0.06   0.1   26   Lead - Acid Soluble   g/m³   0.822   0.811   0.977   0.885   0.274   0.404   0.147   0.314   0.232   0.227   0.303   0.39   26   Nitrate - Nitrogen   g/m³   1.44   2.09   1.4   1.39   0.4   0.68   0.35   1.18   1.3   1.19   0.89   0.6   25   pH   0   8   7.9   7.8   7.7   7.6   7.9   6.8   7.8   8.0   7.9   8.0   7.9   26   Suspended Solids - Total   g/m³   6   6   6   6   6   6   6   6   26   Zinc - Acid Soluble   g/m³   7.9   7.8   7.7   7.6   7.9   7.9   7.8   7.8   7.7   7.6   7.9   7.9   7.9   27   Cherry   Cherr	26														
25   Iron - Acid Soluble   g/m³   0.24   0.27   0.36   0.36   0.07   0.08   0.07   0.1   0.06   0.1   0.04   0.1     26   Lead - Acid Soluble   g/m³   0.822   0.811   0.977   0.885   0.274   0.404   0.147   0.314   0.232   0.227   0.303   0.39     26   Nickel - Acid Soluble   g/m³   0.822   0.811   0.977   0.885   0.274   0.404   0.147   0.314   0.232   0.227   0.303   0.39     26   Nitrate - Nitrate	25			4	18	16	80	20	230	200	110	32	170	12	400
26 Lead - Acid Soluble g/m³ 0.822 0.811 0.977 0.885 0.274 0.404 0.147 0.314 0.232 0.227 0.303 0.39 26 Nickel - Acid Soluble g/m³ 0.822 0.811 0.977 0.885 0.274 0.404 0.147 0.314 0.232 0.227 0.303 0.39 26 Nitrate - Nitrogen g/m³ 1.44 2.09 1.4 1.39 0.4 0.68 0.35 1.18 1.3 1.19 0.89 0.6 25 pH 8 7.9 7.8 7.7 7.6 7.9 6.8 7.8 8.0 7.9 8.0 7.9 0.404 0.147 0.314 0.232 0.227 0.303 0.39 0.39 0.39 0.39 0.39 0.39 0.3	25														
25 Manganese - Acid Soluble g/m³ 0.822 0.811 0.977 0.885 0.274 0.404 0.147 0.314 0.232 0.227 0.303 0.39 26 Nickel - Acid Soluble g/m³ 1.44 2.09 1.4 1.39 0.4 0.68 0.35 1.18 1.3 1.19 0.89 0.6 25 pH 8 7.9 7.8 7.7 7.6 7.9 6.8 7.9 6.8 7.8 8.0 7.9 8.0 7.9 0.00 7.00 7				0.24	0.21	0.30	0.30	0.07	0.06	0.07	0.1	0.00	0.1	0.04	U. I
26 Nickel - Acid Soluble g/m³ 26 Nicrate - Nitrogen g/m³ 1.44 2.09 1.4 1.39 0.4 0.68 0.35 1.18 1.3 1.19 0.89 0.6 25 pH 8 7.9 7.8 7.7 7.6 7.9 6.8 7.8 8.0 7.9 8.0 7.9 Cher Suspended Solids - Total g/m³ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	25		g/m <sup>3</sup>	0.822	0.811	0.977	0.885	0.274	0.404	0.147	0.314	0.232	0.227	0.303	0.39
26 Nitrate - Nitrogen g/m³ 1.44 2.09 1.4 1.39 0.4 0.68 0.35 1.18 1.3 1.19 0.89 0.6 25 pH 8 7.9 7.8 7.7 7.6 7.9 6.8 7.8 8.0 7.9 8.0 7.9 6.0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	26							*							
Other         Suspended Solids - Total         g/m³         6 <t< td=""><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	26														
26 Zinc - Acid Soluble g/m³		pH	1												
			1 - 1 - 2	6	6	6	6	6	6	6	6	6	6	6	6
Notes:	Other			U	· ·	U	Ŭ	· ·	Ü	Ŭ	· ·	•	· ·	U	-

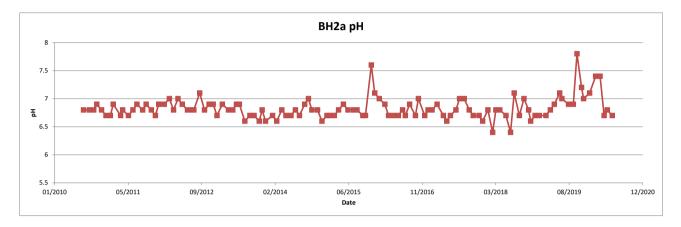
Notes: Values in red were reported below the detection limit.

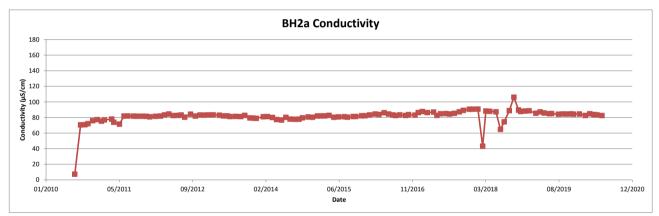
# Appendix C

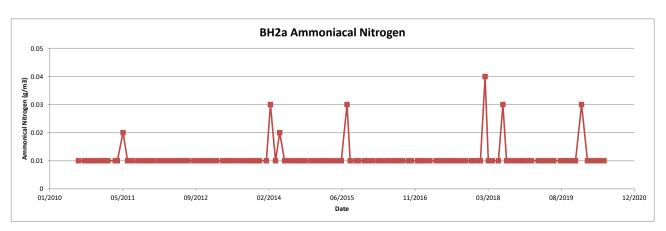
Time Series Graphs

# Appendix C Time Series Graphs

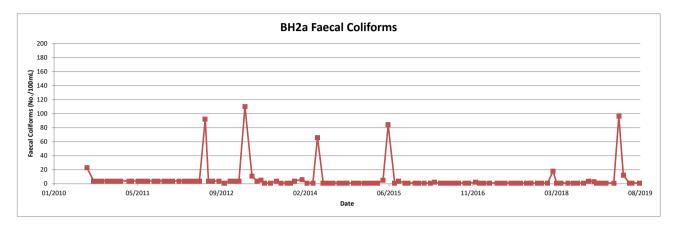


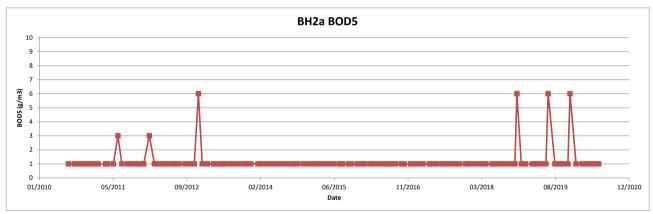


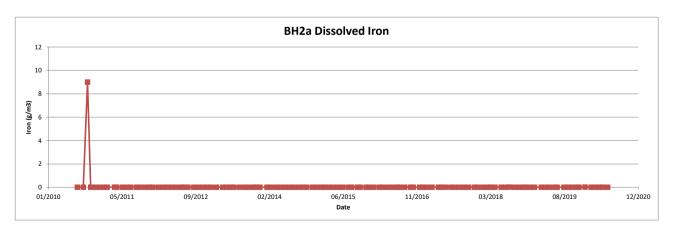




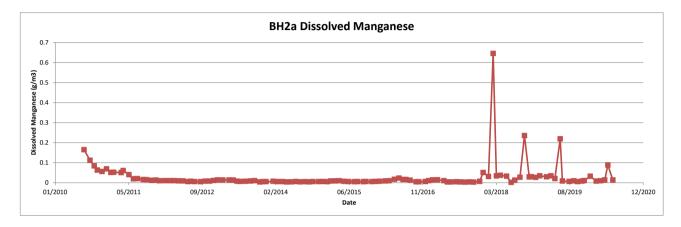


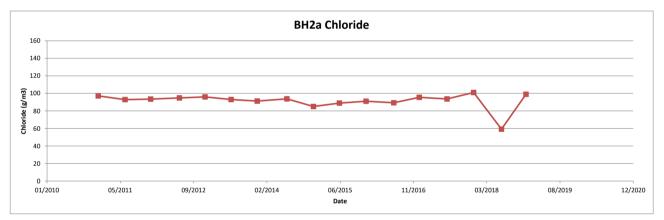


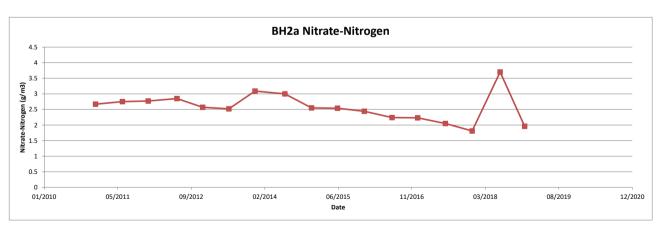




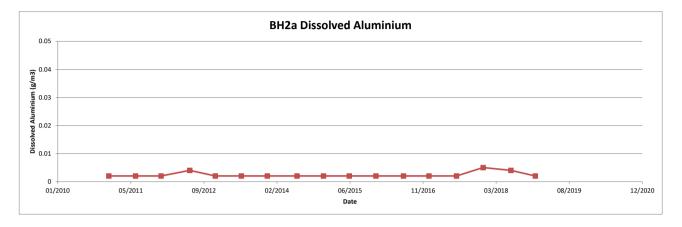


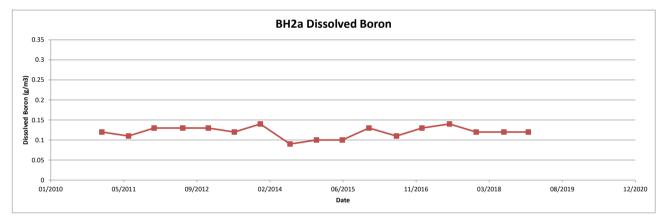


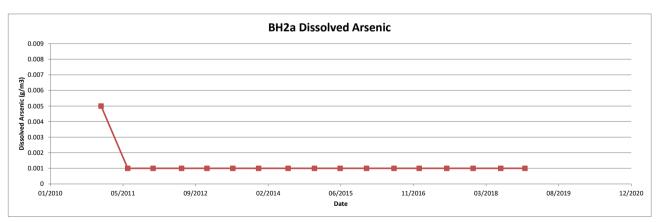




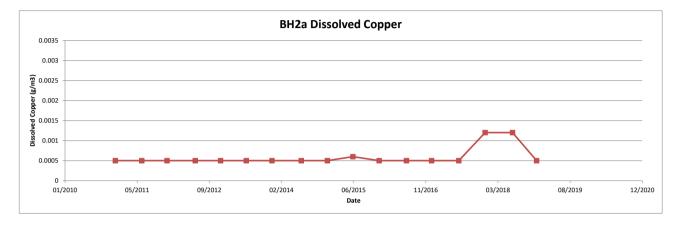


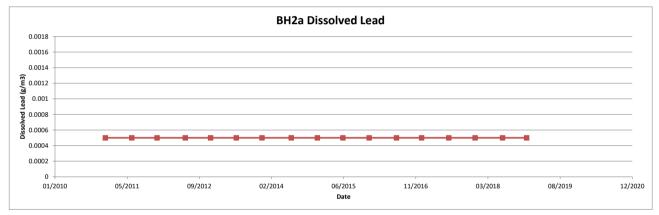


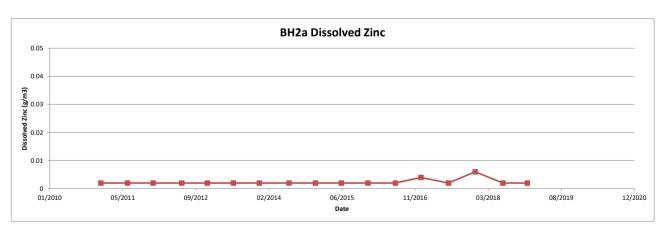




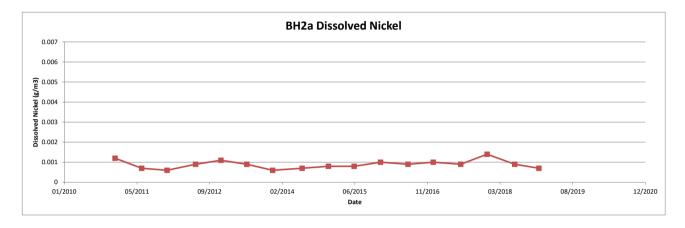


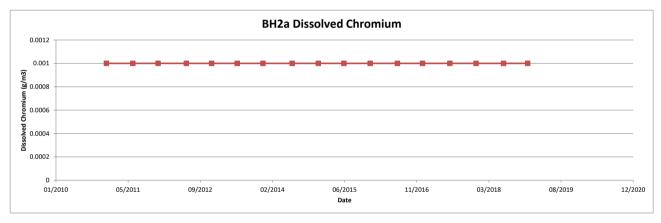


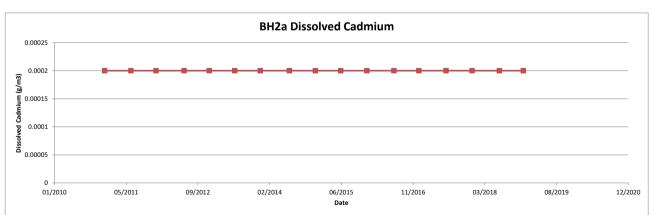




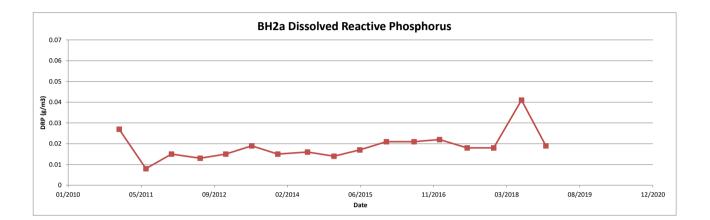




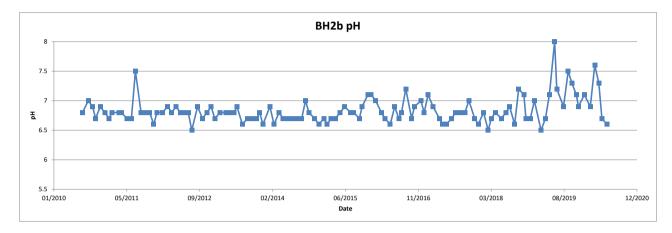


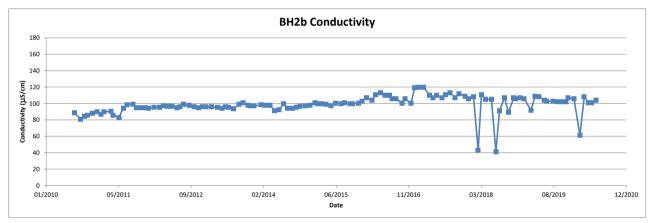


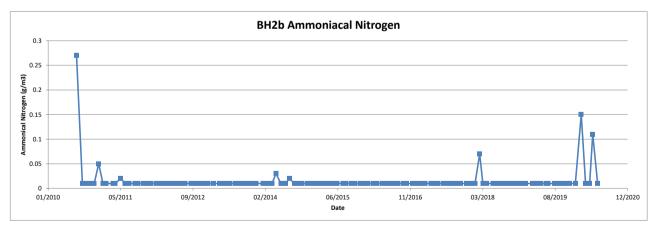




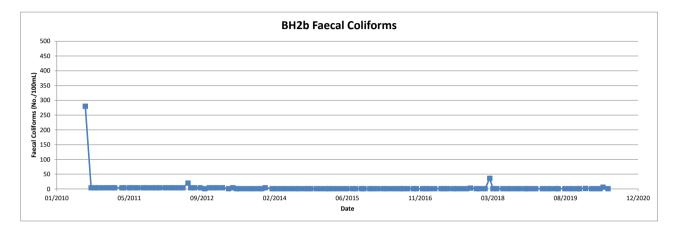


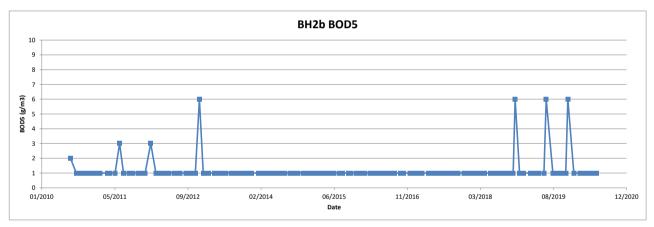


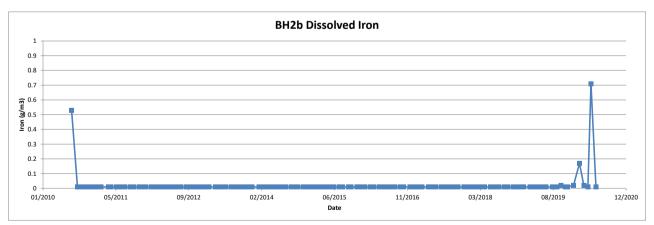




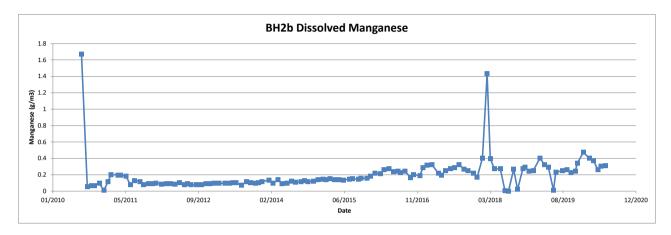


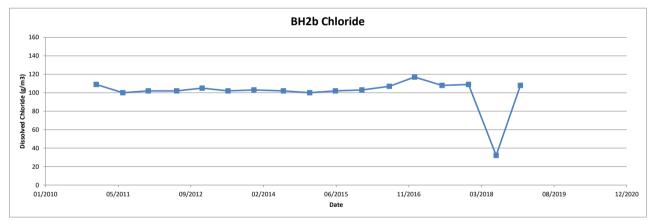


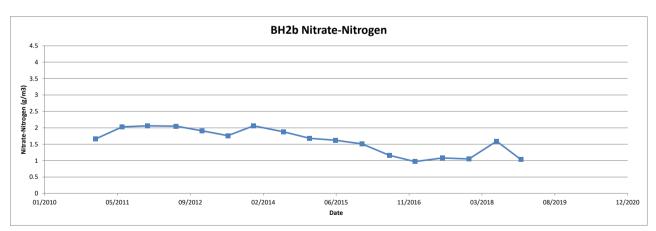




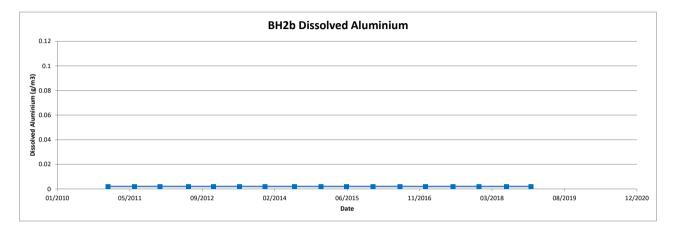


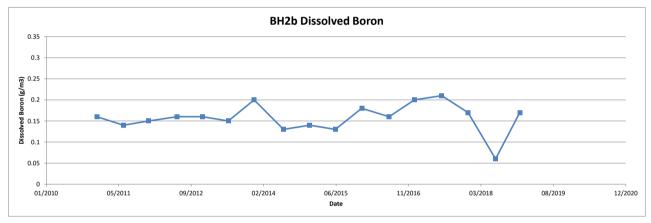


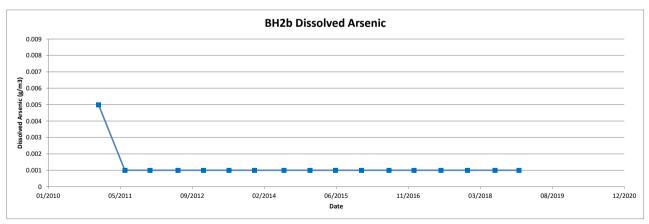




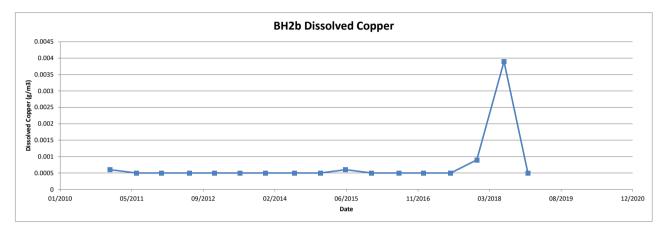


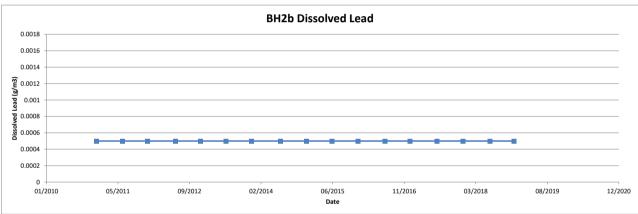


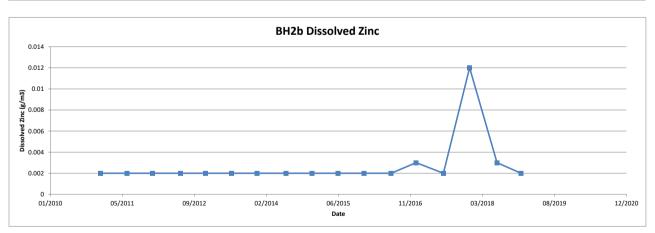




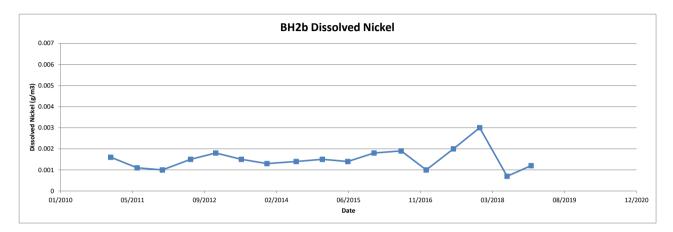


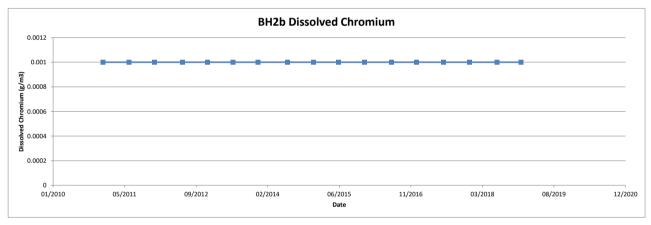


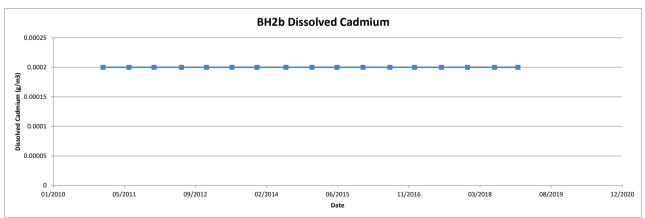




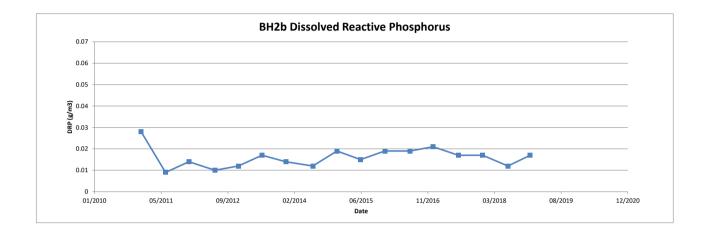




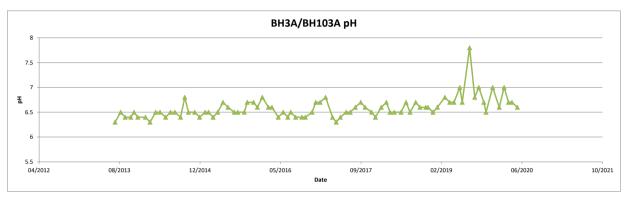




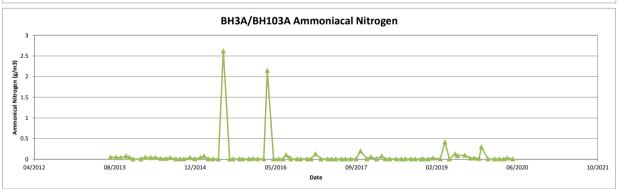




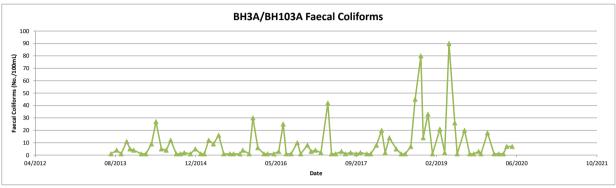


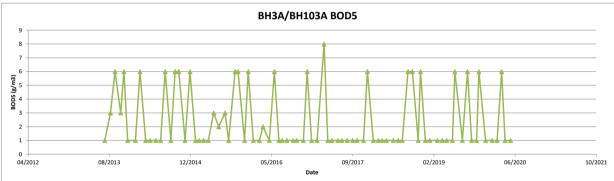


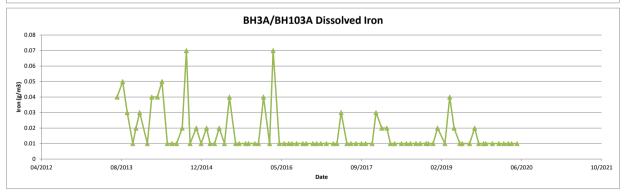




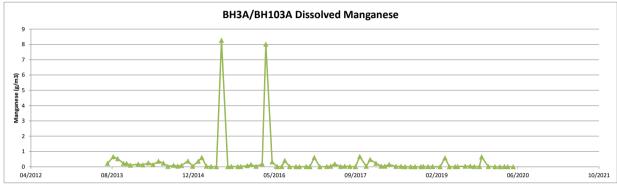


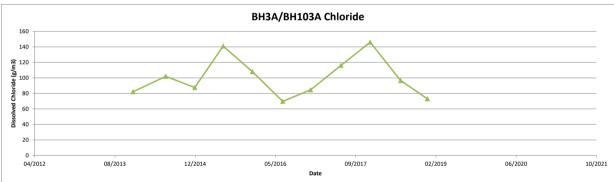


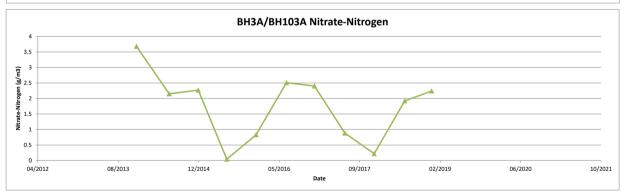




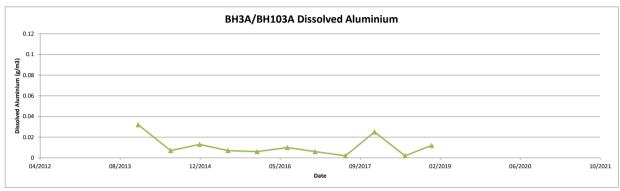




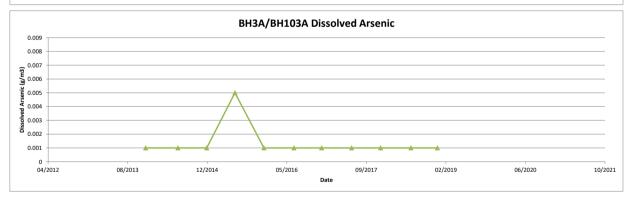




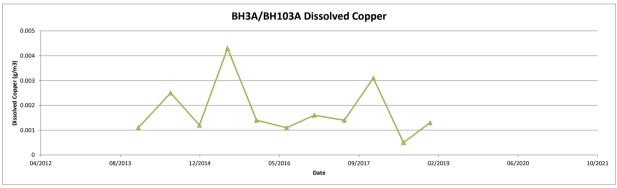


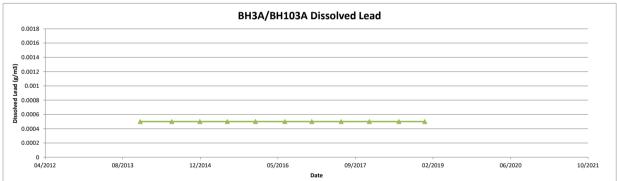


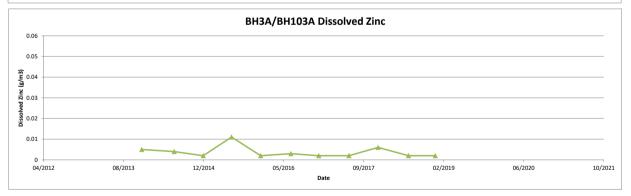




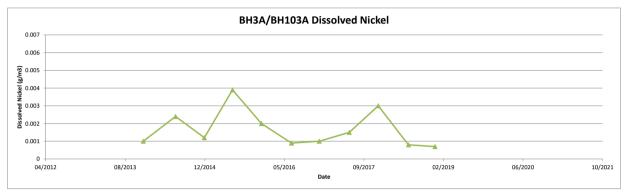


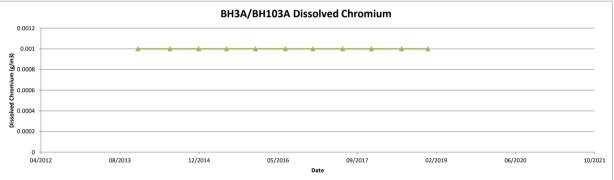


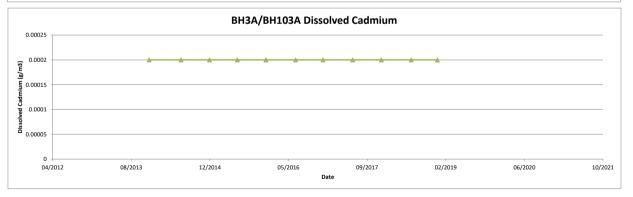




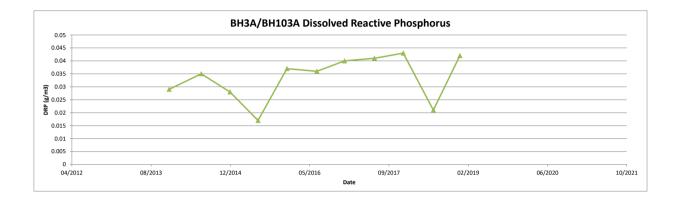




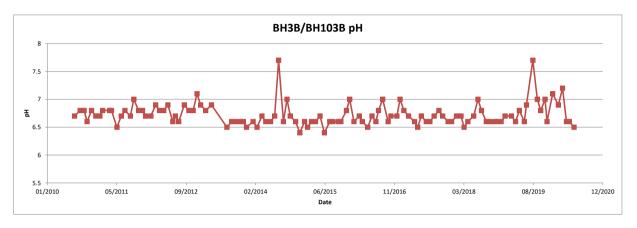


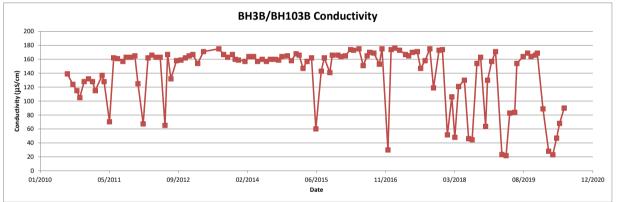


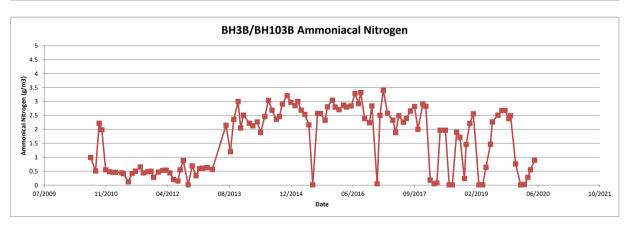




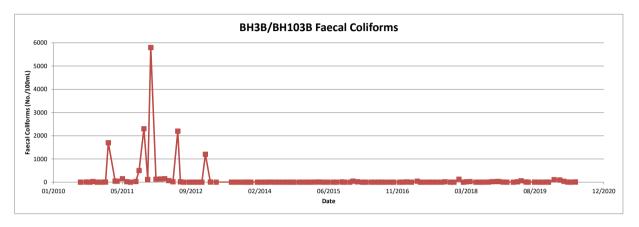


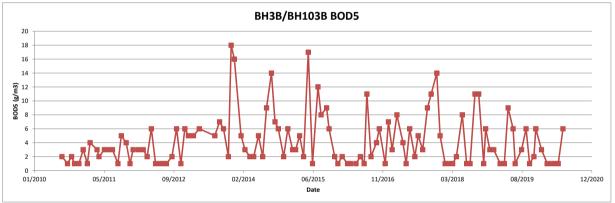


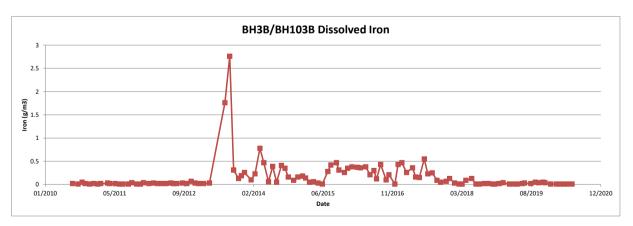




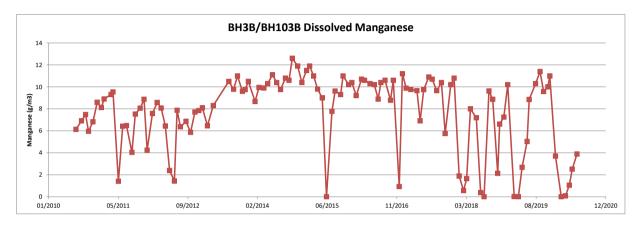


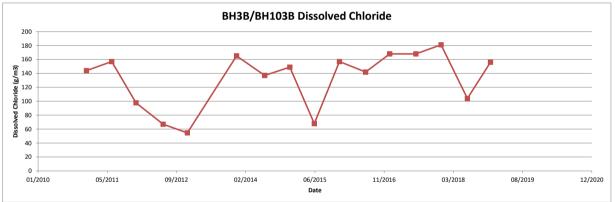


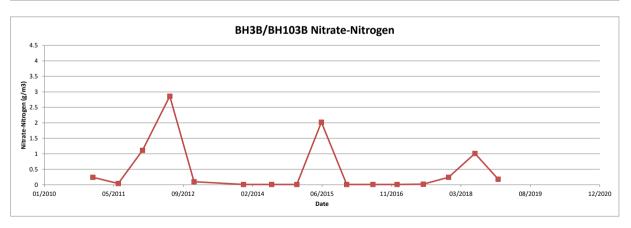




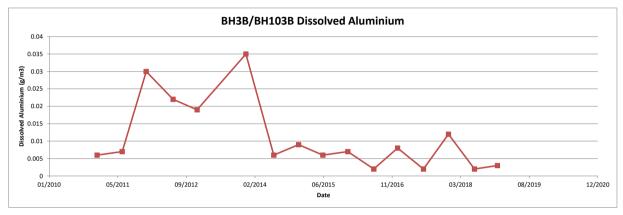


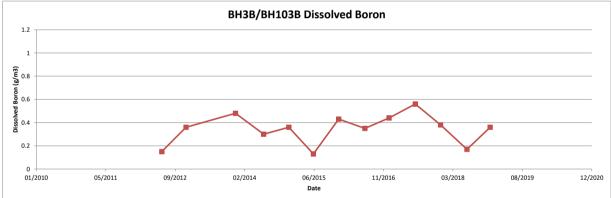


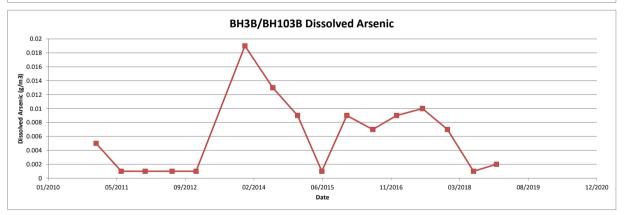




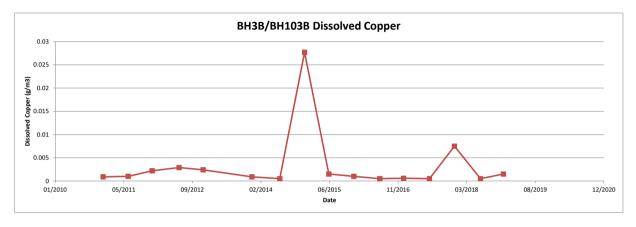


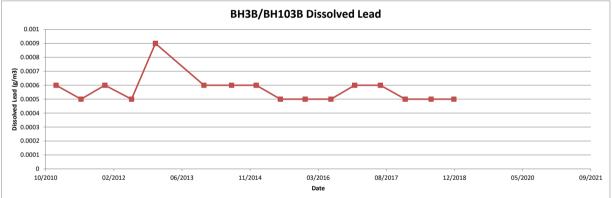


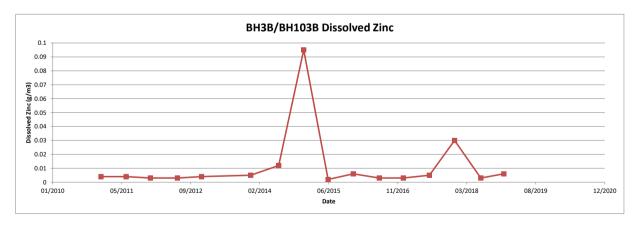




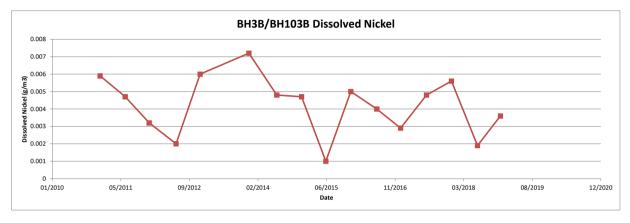


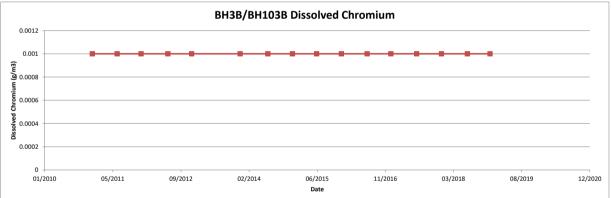


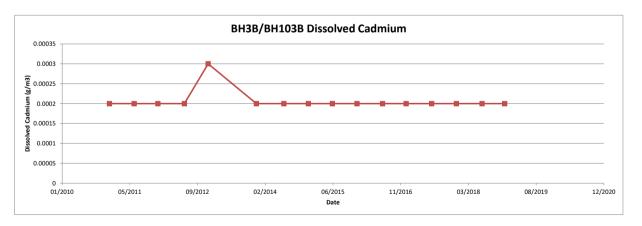




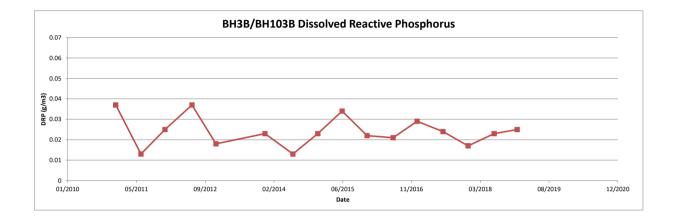




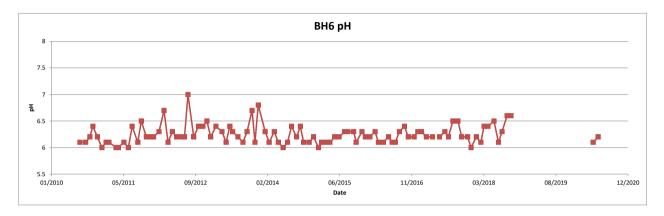


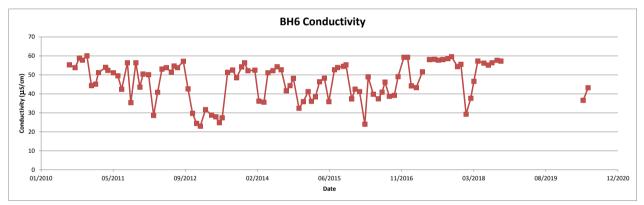


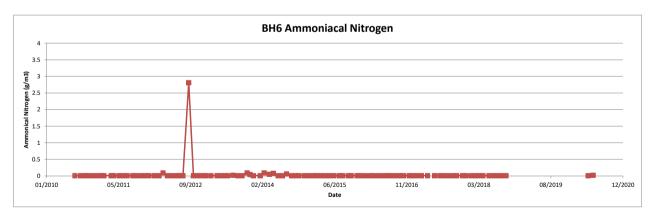




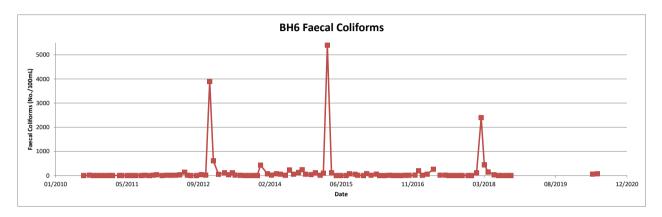


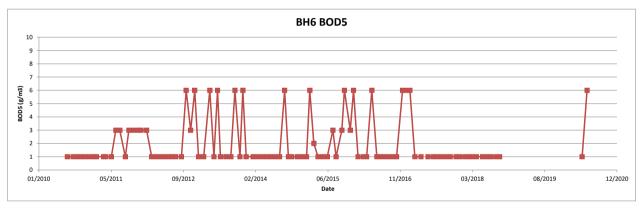


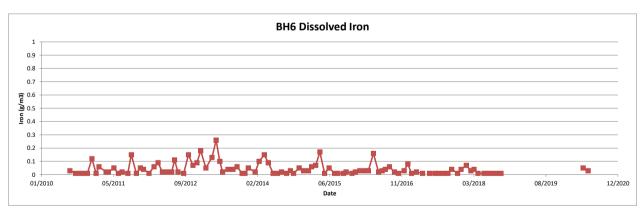




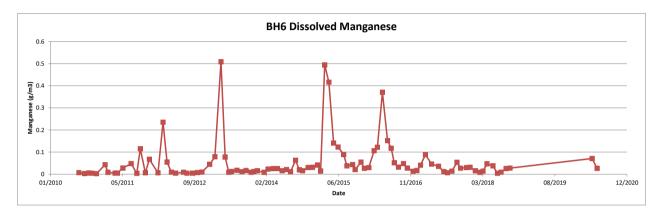


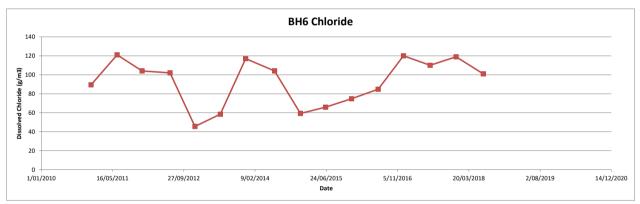


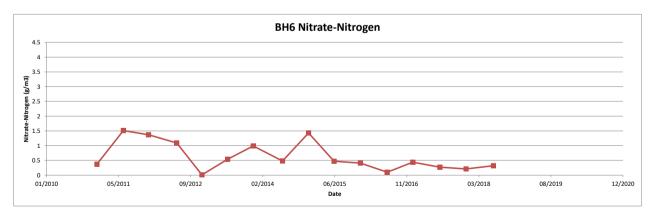




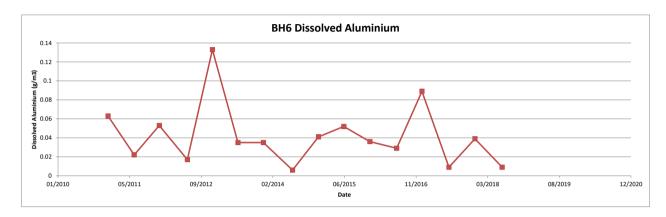


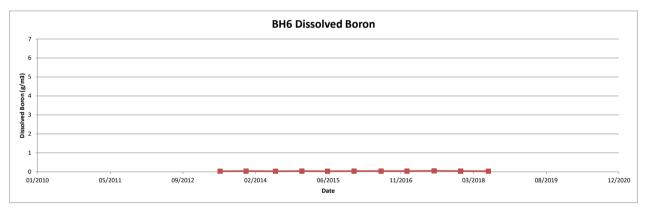


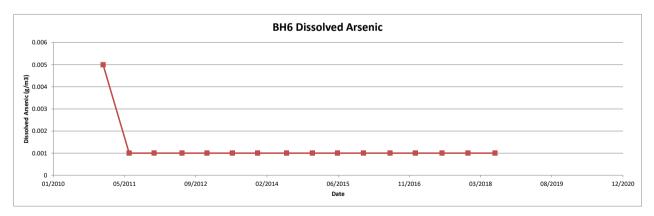




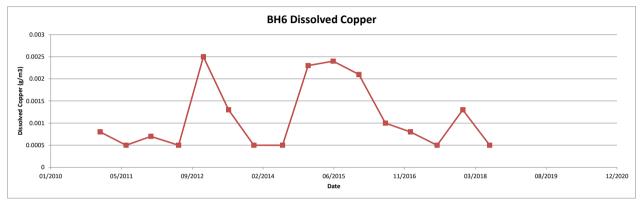


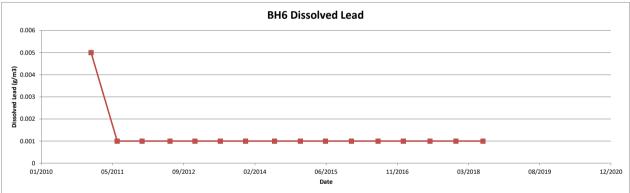


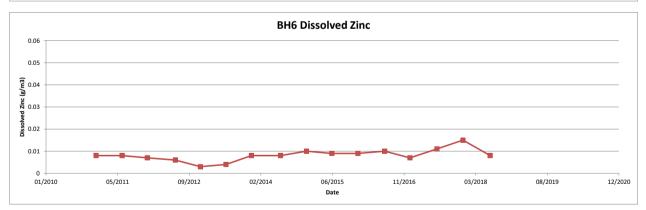




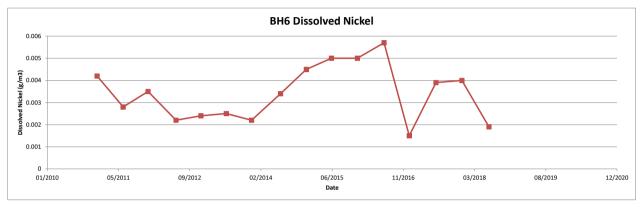


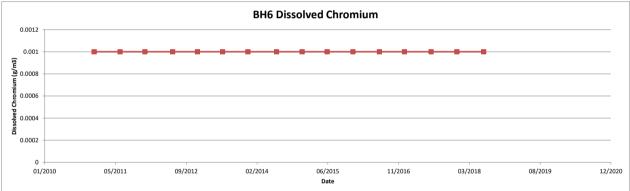


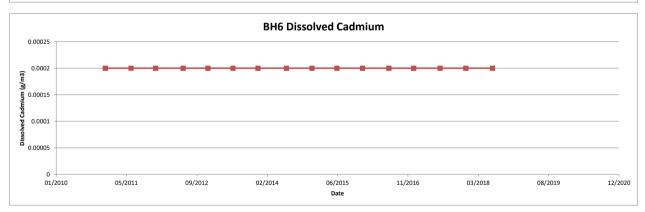




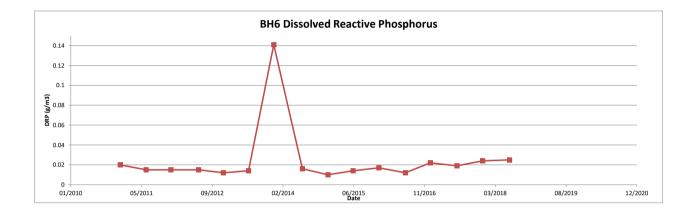




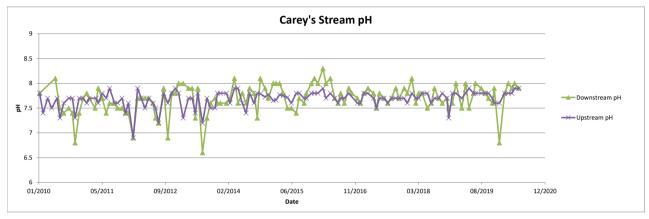


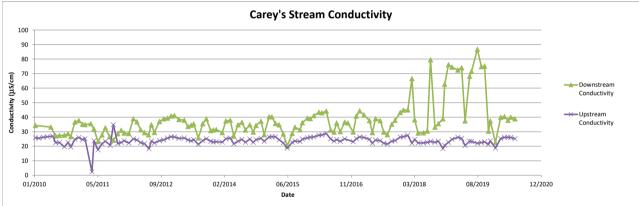


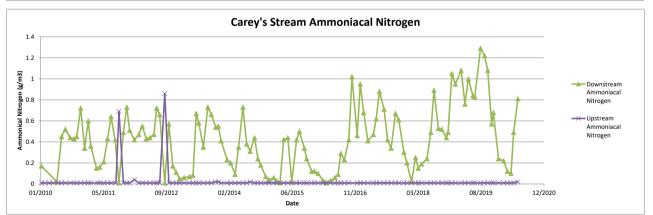




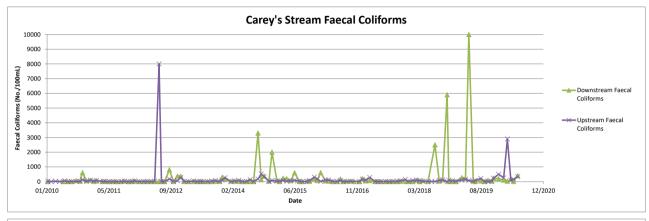


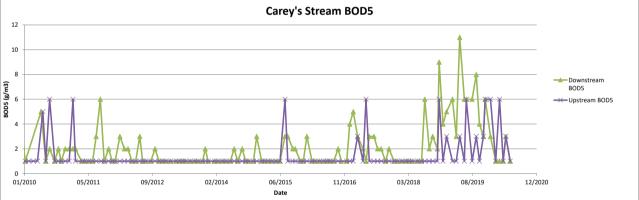


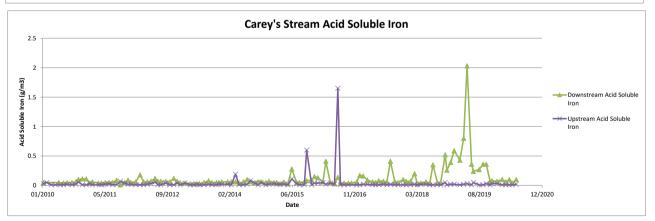




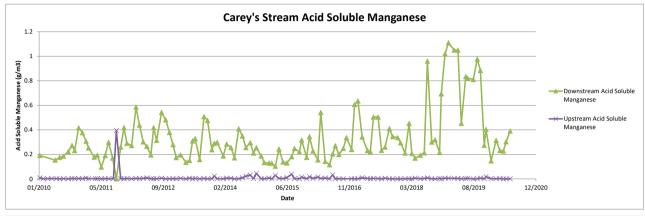


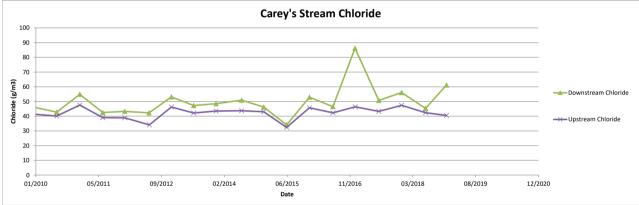


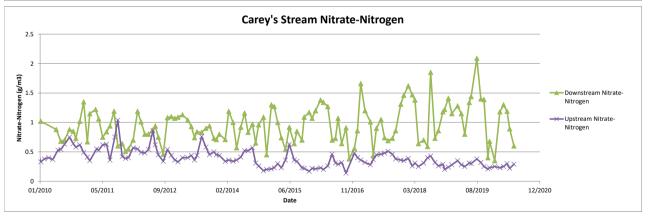




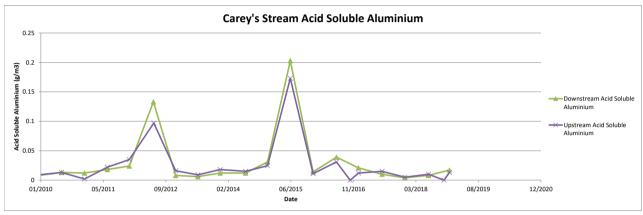


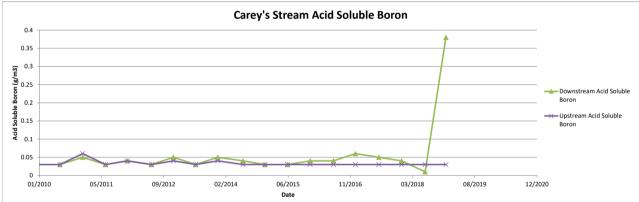


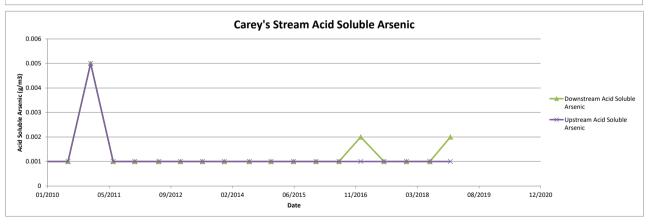




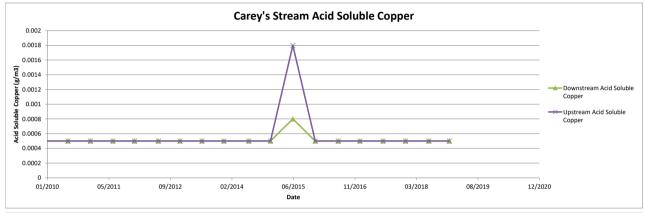


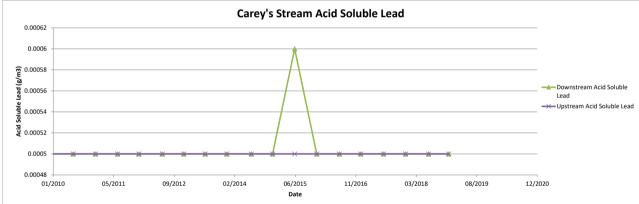


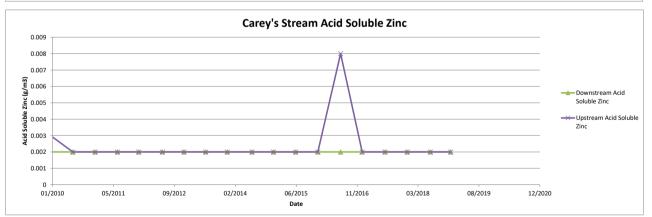




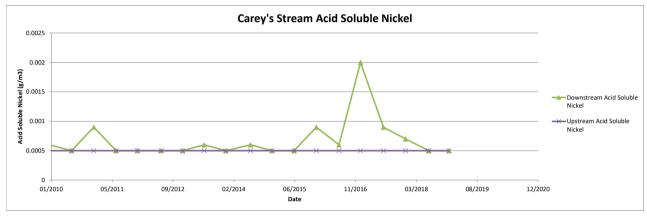


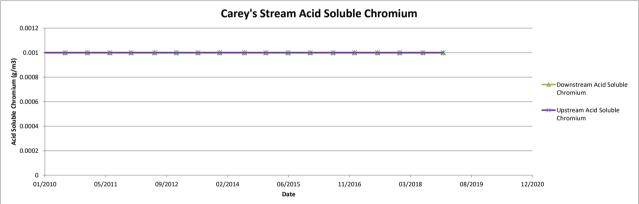


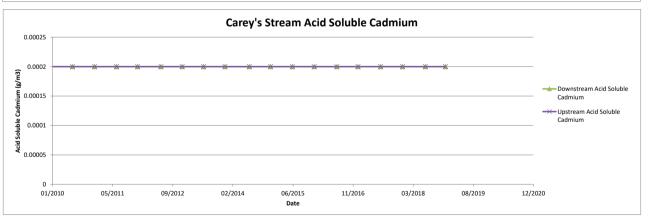






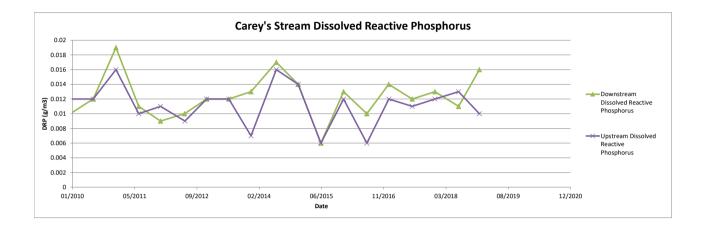




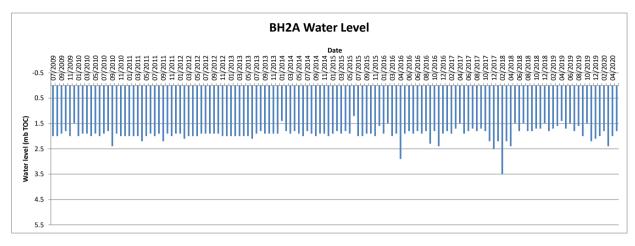


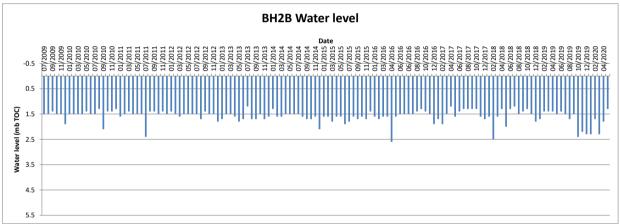


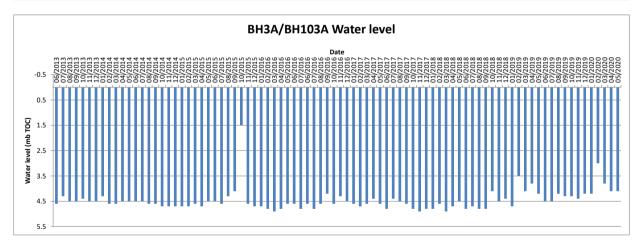
# SOUTHERN LANDFILL -CAREY'S STREAM UPSTREAM AND DOWNSTREAM



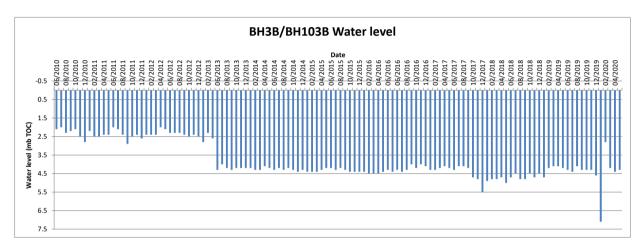


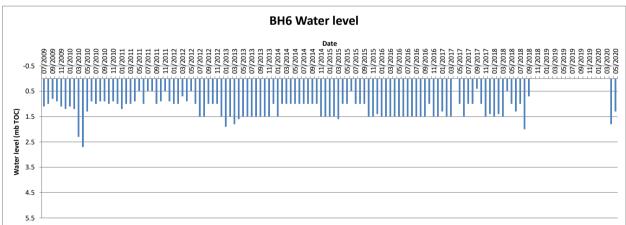


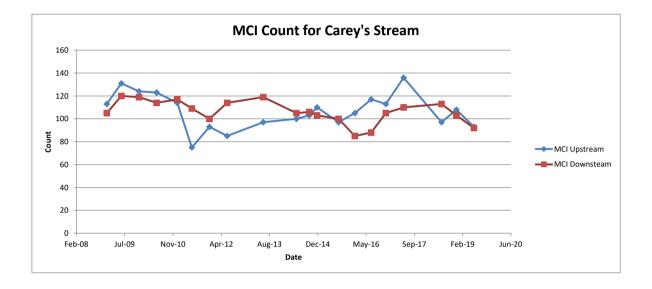












# Appendix D

Mann-Kendall Statistical Analysis Appendix D Mann-Kendall Statistical Analysis

# **GSI MANN-KENDALL TOOLKIT**

for Constituent Trend Analysis

	Southern L	_andfill ew Zealand Limit	ed	Job ID: 60629483  Constituent: Faecal Coliform  Concentration Units: cfu/100ml							
Sampling Point ID:		2a	2b	3a	3b	Upstream	Downstream				
Sampling Event	Sampling Date	FAECAL COLIFORM CONCENTRATION (cfu/100ml)									
1	14-Feb-17	1	1	2	3	280	69				
2	29-Mar-17	1	1	42	44	8	12				
3	21-Apr-17	1	1	1	1	4	4				
4	16-May-17	1	1	1	1	4	4				
5	22-Jun-17	1	1	3	1	8	4				
6	17-Jul-17	1	1	1	1	4	4				
7	18-Aug-17	1	1	2	1	12	4				
8	21-Sep-17	1	1	1	1	32	8				
9	18-Oct-17	1	3	2	15	58	20				
10	27-Nov-17	1	1	1	1	150	20				
11	21-Dec-17	1	1	1	1	12	4				
12	26-Jan-18	1	1	8	130	84	4				
13	27-Feb-18	18	36	20	4	96	96				
14	21-Mar-18	1	1	2	17	77	4				
15	17-Apr-18	1	1	14	26	20	65				
16	29-May-18	1	1	5	2	28	12				
17	29-Jun-18	1	1	1	1	4					
18	24-Jul-18	1	1	1	1	4	2500				
19	28-Aug-18	1	1	7	7	84	35				
20	28-Sep-18	4	1	45	22	120	120				
21	30-Oct-18	3	1	80	29	4	5900				
22	13-Nov-18	1	1	14	28	88	8				
23	13-Dec-18	1	1	33	6	65	4				
24	10-Jan-19	1	1	1	1	36	4				
25	25-Feb-19	1	1	21	1	110	270				
26	27-Mar-19	96	1	2	17	150	230				
27	23-Apr-19	12	1	90	62	80	10000				
28	29-May-19	1	1	26	11	20	58				
29	13-Jun-19	1	1	1	4	73	4				
30	29-Jul-19	1	1	20	6	220	48				
31	30-Aug-19	1	1	1	2	4	16				
32	24-Sep-19	1	1	1	2	16	80				
33	25-Oct-19	1	1	3	7	24	38				
34	8-Nov-19	1	1	1	3	230	230				
		<u> </u>	<u> </u>								

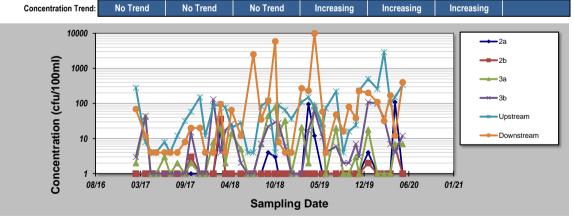
 40
 21-May-20
 1
 1
 7
 12

 Coefficient of Variation:
 3.23
 2.68
 1.67
 1.69

 Mann-Kendall Statistic (S):
 79
 28
 30
 192

 Confidence Factor:
 81.7%
 62.3%
 63.1%
 98.7%

 Concentration Trend:
 No Trend
 No Trend
 No Trend
 Increasing



37

2900

100

110

170

3.47

99.8%

### Notes:

36

38

39

28-Feb-20

27-Mar-20

17-Apr-20

110

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- 2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- 3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Ground Water, 41(3):355-367, 2003.

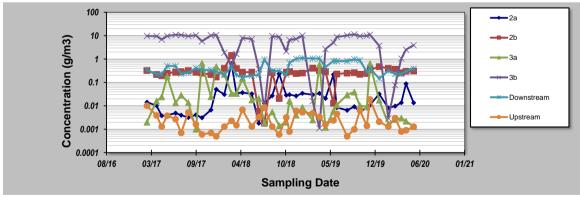
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# **GSI MANN-KENDALL TOOLKIT**

for Constituent Trend Analysis

Evaluation Date	2-Jun-20			Job ID: 60629483							
Facility Name: Southern Landfill				Constituent: Manganese							
Conducted By: AECOM New Zealand Limited				C	Concentration Units: g/m3						
			2b	3a	3b	Downstream	Upstream				
Sampling	Sampling			MANICANIE	OF CONOFNEDA						
Event	Date	MANGANESE CONCENTRATION (g/m3)									
1	14-Feb-17	0.0144	0.324	0.002	9.77	0.342	0.0102				
2	29-Mar-17	0.0103	0.219	0.0159	9.66	0.232	0.0039				
3	21-Apr-17	0.0038	0.195	0.0242	6.91	0.223	0.0013				
4	16-May-17	0.0039	0.252	0.187	9.75	0.505	0.0038				
5	22-Jun-17	0.0049	0.273	0.0134	10.9	0.505	0.0027				
6	17-Jul-17	0.004	0.287	0.0287	10.7	0.233	0.0007				
7	18-Aug-17	0.0032	0.323	0.0136	9.66	0.259	0.0052				
8	21-Sep-17	0.0041	0.271	0.001	10.4	0.41	0.0016				
9	18-Oct-17	0.0031	0.252	0.662	5.76	0.345	0.0006				
10	27-Nov-17	0.0067	0.217	0.0246	10.2	0.337	0.0007				
11	21-Dec-17	0.0508	0.171	0.473	10.8	0.294	0.0005				
12	26-Jan-18	0.0308	0.403	0.224	1.89	0.211	0.0013				
13	27-Feb-18	0.645	1.43	0.0337	0.564	0.453	0.0023				
14	21-Mar-18	0.034	0.398	0.0338	1.65	0.208	0.0015				
15	17-Apr-18	0.0371	0.275	0.147	8	0.169	0.0068				
16	29-May-18	0.0328	0.273	0.0179	7.19	0.193	0.0013				
17	29-Jun-18	0.0018	0.0059	0.0207	0.38	0.213	0.0033				
18	24-Jul-18	0.0128	0.0018	0.0019	0.0068	0.961	0.0086				
19	28-Aug-18	0.0271	0.266	0.0055	9.63	0.3	0.0013				
20	28-Sep-18	0.235	0.0208	0.0014	8.87	0.319	0.0006				
21	30-Oct-18	0.0287	0.272	0.002	2.13	0.215	0.0032				
22	13-Nov-18	0.03	0.293	0.0163	6.61	0.694	0.0008				
23	13-Dec-18	0.0267	0.244	0.004	7.25	1.02	0.0061				
24	10-Jan-19	0.0342	0.253	0.0086	10.2	1.11	0.0053				
25	25-Feb-19	0.0299	0.404	0.0025	0.0158	1.05	0.0048				
26	27-Mar-19	0.0345	0.322	0.579	0.0011	1.05	0.0034				
27	23-Apr-19	0.0207	0.293	0.0012	2.68	0.453	0.0016				
28	29-May-19	0.219	0.0129	0.0061	5.04	0.835	0.0024				
29	13-Jun-19	0.0085	0.231	0.0109	8.86	0.822	0.0045				
30	29-Jul-19	0.0065	0.251	0.0294	10.3	0.811	0.0005				
31	30-Aug-19	0.0093	0.26	0.0388	11.4	0.977	0.001				
32	24-Sep-19	0.0058	0.224	0.0103	9.58	0.885	0.0065				
33	25-Oct-19	0.0081	0.243	0.0094	10	0.274	0.0014				
34	8-Nov-19	0.0108	0.341	0.643	11	0.404	0.0187				
35	19-Dec-19	0.0322	0.473	0.0174	3.7	0.147	0.0021				
36	29-Jan-20	0.0081	0.403	0.0017	0.0029	0.314	0.0013				
37	28-Feb-20	0.0097	0.37	0.0026	0.077	0.232	0.003				
38	27-Mar-20	0.0137	0.262	0.003	1.05	0.227	0.0008				
39	17-Apr-20	0.0884	0.302	0.0022	2.52	0.303	0.0009				
40	21-May-20	0.0135	0.309	0.0013	3.89	0.39	0.0013				
Coefficient of Variation:		2.41	0.73	2.16	0.66	0.64	1.08				
Mann-Kendall Statistic (S):		99	84	-163	-160	78	-38				
Confidence Factor:		87.3%	83.2%	97.1%	96.8%	81.4%	66.6%				



Decreasing

Decreasing

No Trend

No Trend

### Notes

Concentration Trend:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.

No Trend

No Trend

- 2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- 3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Ground Water, 41(3):355-367, 2003.

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