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**Service Provider No. 488**



## **Drinking Water Quality Management Plan**

### **Annual Report**

**1 July 2017 – 30 June 2018**

**December 2018**

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## **GLOSSARY OF TERMS**

<b>ADWG</b>	Australian Drinking Water Guidelines (2011). Published by the National Health and Medical Research Council of Australia
<b>CFU/100mL</b>	Colony forming units per 100 millilitres
<b>DWQMP</b>	Drinking Water Quality Management Plan
<b><i>E. coli</i></b>	<i>Escherichia coli</i> , a bacterium which is considered to indicate the presence of faecal contamination and therefore potential health risk
<b>LRC</b>	Longreach Regional Council
<b>mg/L</b>	Milligrams per litre
<b>NTU</b>	Nephelometric Turbidity Unit

## **1. Introduction**

This report documents the performance of Longreach Regional Council's drinking water service with respect to water quality and performance in implementing the actions detailed in the Drinking Water Quality Management Plan (DWQMP) as required under the Water Supply (Safety and Reliability) Act 2008 (the Act).

The report assists the Regulator to determine whether the approved DWQMP and any approval conditions have been complied with and provides a mechanism for providers to report publicly on their performance in managing drinking water quality.

## **2. Overview of Operations**

Refer to the Drinking Water Management Plan for an overview of operations.

## **3. Actions Taken to Implement The DWQMP**

Risk management improvements are being implemented according to prioritisation based on risk and available budget. The risk management improvement list is in the process of being extended to include additional risks identified by a third-party consultant, appointed by the service provider.

### **3.1 Progress in Implementing the Risk Management Improvement Program**

Refer to Appendix B for a summary of progress in implementing each of the Improvement Program actions. Progress is ongoing but is largely dependent on available budget. Risk management items with low cost and high risk are generally being attended to first, while expensive risk management items are generally still in progress. The latter require detailed investigation to ensure the solution will be suitable and cost effective.

### **3.2 Revisions to the Operational Monitoring Program to Maintaining Compliance with Approved DWQMP**

#### **3.2.1 Review of Operations**

The verification testing regime has been brought into line with the approved DWQMP. Water treatment plant operators have been issued with a comprehensive list of all the verification testing they are required to complete for each year.

### **3.3 Amendments Made to the DWQMP**

#### **3.3.1 2017 DWQMP Review**

A formal review undertaken at the beginning of December 2017 identified a number of changes are required to bring the DWQMP into line with best practices. A number of investigation undertaken by the Outback Regional Water Alliance and results from the recent DWQMP Audit were used to form the outcome of the formal review. A complete summary of the review has been issued to the regulator.

## **4. Compliance with Water Quality Criteria for Drinking Water**

Table 1 in Appendix A summarises the compliance test results for the four (4) schemes in 2017-2018.

The verification monitoring program as stated in the DWQMP, in most part has been carried out at all schemes for coliforms and E. coli. Only partial verification testing was conducted for pH, chlorine, and turbidity. Deficiencies in the verification testing and recording process have been identified and addressed with significant improvement anticipated for the next financial year.

## **5. Notifications to the Regulator Under Sections 102 And 102a of the Act**

This financial year there were no instances where the Regulator was notified under sections 102 or 102A of the Act.

## **6. Customer Complaints Related to Water Quality**

Longreach Regional Council is required to report on the number of complaints, general details of complaints, and the responses undertaken.

Throughout the 2017/18 reporting year there were no recorded complaint about water quality, including water taste, odour, colour and suspected illnesses.

## **7. Findings and Recommendations of the DWQMP Auditor**

A DWQMP Audit was undertaken by Bligh Tanner in October 2017. The Audit identified three (3) non-compliances and made several recommendations for opportunities for improvement. These issues have been addressed during the Formal Review process with updates and improvements to the DWQMP recommended.

The regular review of the DWQMP was conducted in early December 2017. A complete overview of the formal review has been provided to the Regulator.

New DWQMP has now been submitted to the regulator for review/approval.

**Appendix A – Summary of Compliance with Water Quality Criteria**

The results from the verification monitoring program have been compared against the levels of the water quality criteria specified by the Regulator in the *Water Quality and Reporting Guideline for a Drinking Water Service*.

The reported statistics do not include results derived from repeat samples, or from emergency or investigative samples undertaken in response to an elevated result.

Verification monitoring was generally conducted as per the program set out in the approved DWQMP.

**Table 1 - Verification Monitoring Results**

Scheme name	Scheme component	Parameter	Units	Frequency of sampling	Total No. samples collected	No. of samples in which parameter was detected	No. of samples exceeding water quality criteria	Min	Max	Average (Mean)	Limit of reporting	Laboratory name
Longreach	Test Point 1	Coliforms	mg/L	Weekly	49	0	0	0	0	0	0	QHFS
	Test Point 1	E. coli	mg/L	Weekly	49	0	0	0	0	0	0	QHFS
	Test Point 1	PH	-	Weekly	35	1	1	0.00	8.0	7.03	6.5 – 8.5	QHFS
	Test Point 1	Chlorine	mg/L	Weekly	37	0	0	0.38	2.1	1.18	5	QHFS
	Test Point 1	Turbidity	NTU	Weekly	37	1	1	0.23	1.98	0.51	5	QHFS
	Reticulation	Coliforms	mg/L	Monthly	30	0	0	0	0	0	0	QHFS
	Reticulation	E. coli	mg/L	Monthly	30	0	0	0	0	0	0	QHFS
	Reticulation	PH	-	Monthly	24	2	2	7.00	8.00	7.382	6.5 – 8.5	QHFS
	Reticulation	Chlorine	mg/L	Monthly	29	0	0	0.38	2.1	1.18	5	QHFS
	Reticulation	Turbidity	NTU	Monthly	29	0	0	0.23	1.98	0.51	5	QHFS
Ilfracombe	Reticulation	Coliforms	mg/L	Monthly	31	0	0	0	0	0	0	QHFS
	Reticulation	E. coli	mg/L	Monthly	31	0	0	0	0	0	0	QHFS
	Reticulation	PH	-	Monthly	28	0	0	7.00	8.00	7.76	6.5 – 8.5	QHFS
	Reticulation	Chlorine	mg/L	Monthly	28	1	1	0.00	2.00	0.85	5	QHFS
	Reticulation	Turbidity	NTU	Monthly	28	0	0	0.00	1.00	0.35	5	QHFS
Isisford	Reticulation	Coliforms	mg/L	Monthly	37	0	0	0	0	0	0	QHFS
	Reticulation	E. coli	mg/L	Monthly	37	0	0	0	0	0	0	QHFS
	Reticulation	PH	-	Monthly	36	0	0	7.0	8.0	7.62	6.5 – 8.5	QHFS
	Reticulation	Chlorine	mg/L	Monthly	36	1	1	0.00	2.00	1.01	5	QHFS
	Reticulation	Turbidity	NTU	Monthly	36	0	0	0.00	2.00	1.11	5	QHFS
Yaraka	Reticulation	Coliforms	mg/L	Monthly	16	0	0	0	0	0	0	QHFS
	Reticulation	E. coli	mg/L	Monthly	16	0	0	0	0	0	0	QHFS
	Reticulation	PH	-	Monthly	12	0	0	7.00	8.00	7.6	6.5 – 8.5	QHFS
	Reticulation	Chlorine	mg/L	Monthly	12	1	1	1.00	2.00	1.55	5	QHFS
	Reticulation	Turbidity	NTU	Monthly	12	0	0	1.00	1.00	0.65	5	QHFS

**Table 2 – Longreach Reticulation E. coli Verification Monitoring*****Escherichia coli health compliance:  
Calculation of 12 month 'rolling' annual value***

**Department of Environment and Resource Management**  
Conserving and managing Queensland's environment and natural resources

Drinking water scheme: Longreach

Year	2017 to 2018											
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	7	8	4	8	7	7	3	6	7	7	8	7
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	88	88	85	86	85	85	80	79	79	79	79	79
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

**CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE**

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Table 3 – Ilfracombe Reticulation E. coli Verification Monitoring**

**Escherichia coli health compliance:**  
*Calculation of 12 month 'rolling' annual value*

Department of Environment and Resource Management  
 Conserving and managing Queensland's environment and natural resources

Drinking water scheme: Ilfracombe

Year	2017 to 2018											
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	4	4	1	1	1	4	4	4	4	4	0	0
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	17	21	22	23	22	22	26	30	34	38	31	31
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Table 4 – Isisford Reticulation E. coli Verification Monitoring**

**Escherichia coli health compliance:**  
*Calculation of 12 month 'rolling' annual value*

Department of Environment and Resource Management  
 Conserving and managing Queensland's environment and natural resources

Drinking water scheme: Isisford

Year	2017 to 2018											
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	4	1	4	4	4	4	4	4	4	4	0	0
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	48	45	45	45	45	45	45	45	45	45	41	37
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The Public Health Regulation 2005 (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Table 5 – Yaraka Reticulation E. coli Verification Monitoring**

**Escherichia coli health compliance:**  
*Calculation of 12 month 'rolling' annual value*

Department of Environment and Resource Management  
 Conserving and managing Queensland's environment and natural resources

Drinking water scheme: Yaraka

Year	2017 to 2018											
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	2	0	2	0	2	2	2	2	2	2	0	0
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	24	22	22	20	20	20	20	20	20	20	18	16
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The Public Health Regulation 2005 (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

## Appendix B – Implementation of the DWQMP Risk Management Improvement Program

Abbreviations: **A**ll, **I**Ilfracombe, **L**ongreach, **I**Sisford, **Y**araka

**Table 6 – Progress Against the Risk Management Improvement Program in the Approved DWQMP**

Ref	Sch	Hazard / Hazardous Event	Actions	Priority	Target date	Status as at 23-11-2017	Implications on the DWQMP
1	FSY	Ineffective treatment, disinfection	Investigate purchase and installation of on-line monitors for treated turbidity, free chlorine and pH with alarms and history at each plant.	Medium	June 2020	In Progress	Relying on manual monitoring while investigating options. Budget item 2018/19 – currently reviewing SCADA programs for all sites
2	A	Animals in off-stream storages (in the water or inside the fence).	Formal reporting currently in TPO diaries. QA procedures to be updated to incorporate.	high	30-Jun-18	In Progress	Inspections carried out as before, while developing formal procedures Developing Procedures Ilfracombe Dams have Exclusion Fencing Installed. Isisford and Yaraka Dama – Exclusion fencing put back to 2019/20 budget
3	LS	Minimise use of water from the first run of the river to minimise crypto exposure.	Establish operating procedures to utilise off-stream storage. Minimise use of first run in the river. JD to implement formally.	high	30-Jun-18	In Progress	Procedure to be documented. Developing Procedures On going and Protocol tested at Isisford and worked well
4	SL	Pollution from camping / recreation areas beside weirs (Longreach and Isisford).	Appropriate signage to be erected. Regular inspections to be carried out.	medium	N/A	Complete	Developing Procedures Ongoing and working well
5	FSY	Blue-green algae in off-stream storages	Program scope established. Routine testing taking place each two months in winter and monthly in summer or as pH > 9.	high	N/A	On going	Procedure to be documented. Signage to be ordered
6	FSY	Bench top turbidity meters have 1 NTU resolution	Completed	medium	N/A	Completed	Completed in 2014/15 F/Y
7	S	Turbidity at Isisford ranges up to 5 NTU (now maximum 2.5)	Engage contractor to manage installation of new filters.	high	30-Jun-18	In Progress	Tender to be called by 15 Dec 2017 Installed and now ongoing compliance management
8	SLY	Turbidity typically now 0.5 NTU. And always below 1.0	Nil	low	N/A	Completed	Monitoring ongoing
9	S	Fluctuating chlorine levels in supply to Isisford apparently caused by depletion of	Monitor free chlorine in high level tank and GLR separately, dose point to be relocated for direct injection in line after filter. Clean out Elevated Tank,	high	N/A	Completed	Procedure to be documented. Ongoing monitoring following minor operational changes

Ref	Sch	Hazard / Hazardous Event	Actions	Priority	Target date	Status as at 23-11-2017	Implications on the DWQMP
		chlorine in high level tank	GLR has been cleaned.				
10	S	The town supply flow meter is indicating unrealistic drops in wet weather	Digital meter has been installed. Continue monitoring. Temporarily shut down raw water reticulation to check for cross-connections.	high	N/A	Completed	Completed June 2016 – Ongoing monitoring, following elimination of 2 cross connection's on domestic services
11	A	Effect of power failure on treatment and supply	Longreach – Complete Ilfracombe – Hire generator available. Funding options to be investigated for portable generator to run at Shannon Dam Isisford – Complete Yaraka - Complete	high	N/A	Completed	Ilfracombe gen set installed Shannon Dam Oct 2017 – Completed
12	Y	Various cross-connections between systems at Yaraka	Review water usage, eliminate cross connections, JD to replace water tank.	high	N/A	Completed	New Raw Water Tank
13	Y	Stoppage of dam pump at Yaraka - WTP may continue to operate and receive "mud" from the header tank	New pump installed.	high	N/A	Completed	New type of pumps installed
14	A	Security of service reservoirs	Inspections carried out weekly and recorded in TPO diaries.	medium	N/A	Ongoing	Developing Procedures – Ongoing and Reservoir Maintenance program underway
15	A	Reticulation renewals / repairs	JD to implement appropriate training.	high	N/A	Ongoing	Staff training – P Mosse. Procedures in LRC-SMS
16	L	Failure of alarms/monitoring equipment (Longreach)	'Blue I' installed to monitor turbidity pH, free and total chlorine.	medium	May-18	In Progress	Quotes for new Blue I in progress – procurement by end 1 <sup>st</sup> Q 2018
17	A	Loss of key operating staff	Review WTP O&M manuals to ensure that provide adequate current information.	high	N/A	On going	Ongoing – current staffing and operational review underway – not likely to be completed before June 2018.
18	Y	Lack of water quality data for Yaraka	KL now carries out routine testing of water and records results.	high	N/A	Complete	Carries out routine testing and monthly reporting to SWIM.
19	A	Sodium hypochlorite breakdown to chlorate	GT to look at current technical information and report if practical to manage hypo in this way.	medium	30-Jun-18	In Progress	More investigation work required. ORWA – currently reviewing disinfection options
19a	A	Sodium hypo chloride breakdown to chlorate	Sampling to take place. May look at switch to gas chlorine to eliminate problem.	medium	31-Dec-17	In Progress	More investigation work required ORWA – currently reviewing disinfection options
20	A	Incorrect reticulation operational practices	Investigate Review LGAQ manuals WAT004, WAT005 and WAT010 and distribute to operations staff.	medium	1-Jul-17	In Progress	Under Review – Staff training.
21	L	Contamination from return water from sludge dams	JD to carry out sampling for E Coli and turbidity for two months and results to be reviewed.	medium	N/A	Completed	This is an additional item to the DWQMP. This is under investigation and review as part as Risk management process to pump back into the front of the plant.

## Appendix C – 2017/2018 LRC Verification Monitoring Data

Longreach Regional Council  
2017 - 18 Verification Monitoring Results

Township: Longreach

Date	Test Point 1					Test Point 2					Test Point 3					Test Point 4					External Tests Required								
	Location	Coliforms (mg/L)	E. coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Location	Coliforms (mg/L)	E. coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Location	Coliforms (mg/L)	E. coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)											
4/07/2017	Wren St	0	0	7.4	0.65	0.39																							
11/07/2017	PCYC	0	0	8	1.01	0.52																							
18/07/2017	Edkins Park	0	0	7.40	1.00	0.55																							
25/07/2017	Gull St	0	0	8	0.65	0.38	DPI	0	0	8	0.43	0.33	GLR	0	0	8	1.21	0.30	Wren St	0	0	8	0.98	0.33	External Test Required				
1/08/2017	DPI	0	0	8	0.41	0.50																							
8/08/2017	GLR	0	0	8	1.56	0.29																							
15/08/2017	Wren St	0	0	8	1.25	0.30																							
22/08/2017	PCYC	0	0	8	1.09	0.30																							
29/08/2017	Edkins Park	0	0		1.20		0.23	Gull St	0	0		0.51	0.46	DPI	0	0		0.61	0.30	GLR	0	0							
5/09/2017	Gull St	0	0		0.60		0.41																						
12/09/2017	DPI	0	0		8		0.80																						
19/09/2017	GLR	0	0																										
26/09/2017	Wren St	0	0					PCYC						Edkins Park						Gull St									
3/10/2017	PCYC	0	0																										
10/10/2017	Edkins Park	0	0		8		1.25																						
17/10/2017	Gull St	0	0																										
24/10/2017	DPI	0	0																										
31/10/2017	GLR	0	0		8		1.38																						
7/11/2017	Wren St	0	0					0.27	Wren St	0	0		0		1.01	0.35	PCYC	0	0		1.26	0.31	Edkins Park	0	0		1.31	0.38	
14/11/2017	PCYC	0	0																										
21/11/2017	Edkins Park	0	0																										
28/11/2017	Gull St	0	0		7		0.61																			External Test Required			
5/12/2017	DPI	0	0																										
12/12/2017	GLR	0	0		7		1.41																						
19/12/2017	Wren St	0	0		7		1.50																						
26/12/2017	PCYC	0	0		7		1.70																						
2/01/2018	Edkins Park																												
9/01/2018	Gull St																												
16/01/2018	DPI	0	0																										
23/01/2018	GLR	0	0		7		2.10																						
30/01/2018	Wren St	0	0					PCYC						Edkins Park						Gull St									
6/02/2018	PCYC																												
13/02/2018	Edkins Park	0	0		7		1.56																						
20/02/2018	Gull St	0	0		7		1.48																						
27/02/2018	DPI	0	0		7		1.01																						
6/03/2018	GLR	0	0		7																								
13/03/2018	Wren St	0	0		7		1.91																						
20/03/2018	PCYC	0	0		7		1.02																						
27/03/2018	Edkins Park	0	0		7		1.33																			External Test Required			
3/04/2018	Gull St	0	0		7		1.48																						
10/04/2018	DPI	0	0		7		0.98																						
17/04/2018	GLR	0	0		7		1.48																						
24/04/2018	Wren St	0	0		7.41		1.20																						
1/05/2018	PCYC	0	0		7.5		1.13																						
8/05/2018	Edkins Park	0	0		8		0.84																						
15/05/2018	Gull St	0	0		8		1.52																						
22/05/2018	DPI	0	0		8		1.15																						
29/05/2018	GLR	0	0		8		1.34																						
5/06/2018	Wren St	0	0		8		1.29																						
12/06/2018	PCYC	0	0		7		1.20																						
19/06/2018	Edkins Park	0	0		8		1.55																						
26/06/2018	Gull St	0	0		8		1.65																						

TEMPLATE Doc ID: 152923  
2017-18 Results Database Doc ID:

	Coliforms (mg/L)	E. coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)
Samples Collected	79	79	62	66	66
Min	0	0	0	0.38	0.23
Max	0	0	8	2.1	1.98
Average	0	0	7.0343548	1.1843539	0.5106061

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Samples Collected	7	8	4	8	7	7	3	6	7	7	8	7
E. coli detected	0	0	0	0	0	0	0	0	0	0	0	0

Longreach Regional Council  
2017 - 18 Verification Monitoring Results

Township: Ilfracombe

TEMPLATE Doc ID: 152923  
2017-18 Results Database Doc ID:

Date	Rec Centre					Memorial Park					Mitchell Street					WTP					External Tests Required
	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	
6/07/2017	0	0	7.62	0.54	0.41	0	0	7.5	0.95	0.34	0	0	7.45	0.79	0.45	0	0	7.34	1.34	0.22	
5/08/2017	0	0	8.04	0.45	0.29	0	0	8.06	0.5	0.21	0	0	8.05	0.41	0.19	0	0	8.1	0.8	0.24	
4/09/2017	0	0																			External Test Required
4/10/2017	0	0																			
3/11/2017	0	0																			
3/12/2017	0	0	7.67	1.18	0.17	0	0	7.59	0.57	0.3	0	0	7.63	0.72	0.19	0	0	7.57	1.18	0.17	External Test: SSP0057848
2/01/2018	0	0	7.85	0.32	0.26	0	0	7.67	0.68	0.76	0	0	7.65	0.87	0.31	0	0	7.75	1.48	0.28	External Test Required
1/02/2018	0	0	7.69	0.58	0.31	0	0	7.67	0.84	0.29	0	0	7.68	0.89	0.26	0	0	7.75	1.87	0.28	
3/03/2018	0	0	7.96	0.6	0.54	0	0	7.97	0.61	0.46	0	0	7.97	0.64	0.69	0	0	7.9	1.25	0.22	
2/04/2018	0	0	7.78	0.81	0.69	0	0	7.76	0.51	0.37	0	0	7.73	0.55	0.38	0	0	7.8	1.1	0.43	
2/05/2018																					External Test Required
1/06/2018																					

	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)
Samples Collected	31	31	28	28	28
Min	0	0	7	0	0
Max	0	0	8	2	1
Average	0	0	7.7607143	0.8535714	0.3467857

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Samples Collected	4	4	1	1	1	4	4	4	4	4	0	0
E.coli detected	0	0	0	0	0	0	0	0	0	0	0	0

Longreach Regional Council  
2017 - 18 Verification Monitoring Results

Township: Isisford

TEMPLATE Doc ID: 152923  
2017-18 Results Database Doc ID:

Date	WTP					Council Office					Depot Office					Town Park or Depot Lunch Room					External Tests Required	
	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Location	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	
6/07/2017	0.0	0	6.9	1.08	0.52	0	0	6.9	0.9	0.48	0	0	6.95	1.01	0.6	DEPOT	0	0	6.95	1.05	0.6	
5/08/2017	0	0																				
4/09/2017	0	0	7.62	1.17	1	0	0	7.6	1	1.7	0	0	7.6	1.15	1.2	DEPOT	0	0	7.63	1.21	1.12	
4/10/2017	0	0	7.65	1.07	0.9	0	0	7.6	1.05	1.77	0	0	7.66	1.38	1.09	ROOM	0	0	7.66	1.44	1.03	External Test Required
3/11/2017	0	0	7.9	0.87	1	0	0	7.81	0.38	1.69	0	0	7.81	0.64	1.01	ROOM	0	0	7.85	0.77	1.38	
3/12/2017	0	0	7.79	1.56	0.85	0	0	7.83	1.48	1.67	0	0	7.82	1.58	0.83	LUNCH ROOM	0	0	7.82	1.57	1.49	
2/01/2018	0	0	7.97	0.87	0.69	0	0	7.94	0.4	0.78	0	0	7.95	0.8	0.75	LUNCH ROOM	0	0	7.95	0.89	0.77	
1/02/2018	0	0	7.86	0.94	0.95	0	0	7.9	0.59	1.04	0	0	7.87	0.85	0.75	LUNCH ROOM	0	0	7.87	0.89	0.76	External Test Required
3/03/2018	0	0	7.57	1.26	1.57	0	0	7.63	0.73	0.89	0	0	7.6	1.11	1.44	LUNCH ROOM	0	0	7.62	1.17	1.89	
2/04/2018	0	0	7.28	1.2	1.62	0	0	7.38	0.78	0.92	0	0	7.3	1.1	1.37	LUNCH ROOM	0	0	7.33	1.12	1.77	
2/05/2018																						
1/06/2018																					External Test Required	

	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)
Samples Collected	37	37	36	36	36
Min	0	0	7	0	0
Max	2	4	8	2	2
Average	0.292162162	0.925	5.2741026	1.00599239	1.1080556

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Samples Collected	4	1	4	4	4	4	4	4	4	4	0	0
E.coli detected	0	0	0	0	0	0	0	0	0	0	0	0

Longreach Regional Council  
2017 - 18 Verification Monitoring Results  
Township: Yaraka

TEMPLATE  
2017-18 Results Database

Doc ID: 152923  
Doc ID:

Date	WTP					Bob & Kathy Long Residence					External Tests Required
	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)	
6/07/2017	0	0				0	0				External Test Required
2/08/2016											
6/09/2016	0	0				0	0				
4/10/2016											
1/11/2016	0	0	7.4	1.32	0.49	0	0	7.4	1.31	0.5	External Test Required
6/12/2016	0	0	7.57	1.24	0.55	0	0	7.57	1.19	0.57	
3/01/2017	0	0	7.77	2.2	0.58	0	0	7.76	2.2	0.62	
7/02/2017	0	0	7.68	1.45	0.4	0	0	7.68	1.38	0.61	
7/03/2017	0	0	7.6	1.25	0.69	0	0	7.6	1.2	0.61	External Test Required
4/04/2017	0	0	7.51	1.93	1.1	0	0	7.53	1.9	1.14	
2/05/2017											
6/06/2017											

	Coliforms (mg/L)	E.coli (mg/L)	pH	Free Chlorine (mg/L)	Turbidity (NTU)
Samples Collected	16	16	12	12	12
Min	0	0	7	1	0
Max	0	0	8	2	1
Average	0	0	7.5891667	1.5475	0.655

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Samples Collected	2	0	2	0	2	2	2	2	2	2	0	0
E.coli detected	0	0	0	0	0	0	0	0	0	0	0	0

**Longreach Regional Council****2017 - 18 Verification Monitoring - External Testing Results**

Month	Date	Town	Sample Points	Coliforms(mg/L)	E.coli(mg/L)	pH	Free Chlorine(mg/L)	Turbidity (NTU)	Certificate No.	URL Link to Microbiology Results - FSSQHS
7	6/07/2017	Yaraka	WTP	0	0				SSP0055938	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D215217">https://lrc.infoxpert.edrms/docs/~D215217</a>
			Bob & Kathy Long Residence	0	0					
8	25/07/2017	Longreach	Gull St	0	0				SSP0056127	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D215227">https://lrc.infoxpert.edrms/docs/~D215227</a>
			DPI	0	0					
			GLR	0	0					
9	4/09/2017	Ilfracombe	Wren St	0	0				SSP0056325	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D215200">https://lrc.infoxpert.edrms/docs/~D215200</a>
			Rec Centre	0	0	8.04	0.05	0.27		
			Memorial Park	0	0	8.06	0.5	0.21		
			Mitchell Street	0	0	8.058	0.41	0.19		
10	4/10/2017	Isisford	WTP	0	0	8.1	0.8	0.24	SSP0056774	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D215218">https://lrc.infoxpert.edrms/docs/~D215218</a>
			WTP	0	0					
			Council Office	0	0					
			Depot Office	0	0					
11	1/11/2016	Yaraka	Town Park or Depot Lunch Room	0	0				SSP0056774	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D215218">https://lrc.infoxpert.edrms/docs/~D215218</a>
			WTP	0	0					
			Bob & Kathy Long Residence	0	0					
12	28/11/2017	Longreach	Gull St	0	0				SSP0057759	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D214110">https://lrc.infoxpert.edrms/docs/~D214110</a>
			DPI	0	0					
			GLR	0	0					
			Wren St	0	0					
1	2/01/2018	Ilfracombe	Rec Centre	0	0	7.71	0.83	0.18	SSP0057848	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D214655">https://lrc.infoxpert.edrms/docs/~D214655</a>
			Memorial Park	0	0	7.59	0.57	0.3		
			Mitchell Street	0	0	7.63	0.72	0.19		
			WTP	0	0	7.67	1.18	0.17		
2	1/02/2018	Isisford	WTP	0	0	7.68	0.94		SSP0058655	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D222187">https://lrc.infoxpert.edrms/docs/~D222187</a>
			Council Office	0	0	7.9	0.59			
			Depot Office	0	0	7.87	0.85			
			Town Park or Depot Lunch Room	0	0	7.87	0.89			
3	7/03/2017	Yaraka	WTP							COA Microbiology Results URL Link:
			Bob & Kathy Long Residence							
4	27/03/2018	Longreach	Edkins Park	0	0				SSP0059259	COA Microbiology Results URL Link: <a href="https://lrc.infoxpert.edrms/docs/~D227667">https://lrc.infoxpert.edrms/docs/~D227667</a>
			Gull St	0	0					
			DPI	0	0					
			GLR	0	0					
5	2/05/2018	Ilfracombe	Rec Centre							COA Microbiology Results URL Link:
			Memorial Park							
			Mitchell Street							
			WTP							
6	1/06/2018	Isisford	WTP							COA Microbiology Results URL Link:
			Council Office							
			Depot Office							
			Town Park or Depot Lunch Room							

## Appendix D – 2017/2018 LRC Swim Exported Data – Verification Monitoring

### 2017-18 Water Treatment Plant Consumption Data - Longreach

N/A	Raw Water Pump 1 Hours Run	Raw Water Pump 2 Hours Run	Flash Mixer 1 Hours Run	Flash Mixer 2 Hours Run	Floc Mixer Hours Run	Clarifier 1 Hours Run	Clarifier 2 Hours Run	Filter Backwash Pump 1 Hours Run	Filter Backwash Pump 2 Hours Run	Sodium Hypo Dose Pump B 2 Hours Run	Raw Water Flowmeter Total	Raw Water Flowmeter Total (ML)	Backwash Flowmeter Total	Backwash Flowmeter Total (ML)	Plant Outlet Flowmeter Total	Plant Outlet Flowmeter Total (ML)
01/07/2017	0	8.6	8.6	8.6	8.6	8.4	24	0.1	0.2	8.6	3390	3.39	189	0.189	3485	3.485
02/07/2017	0	13.2	13.2	13.2	13.2	0	24	0.3	0.3	13.2	5292	5.292	379	0.379	3751	3.751
03/07/2017	0	9.3	9.3	9.3	9.3	0	24	0	0	9.3	3750	3.75	0	0	3873	3.873
04/07/2017	0	7.3	7.3	7.3	7.3	0	24	0.2	0.1	7.3	2939	2.939	190	0.19	3496	3.496
05/07/2017	0	9.4	9.4	9.4	9.4	0	24	0	0	9.4	3780	3.78	0	0	3434	3.434
06/07/2017	0	3.8	3.8	3.8	3.8	0	24	0.1	0.2	3.8	1542	1.542	189	0.189	3076	3.076
07/07/2017	10.1	0	10.1	10.1	10.1	0	24	0	0	10.1	4014	4.014	0	0	2313	2.313
08/07/2017	0	8.7	8.6	8.6	8.6	0	15.2	0.2	0.1	8.6	3472	3.472	190	0.19	2400	2.4
09/07/2017	4.5	0	4.5	4.5	4.5	0	0	0	0	4.5	1769	1.769	0	0	2736	2.736
10/07/2017	10.8	0	10.7	10.7	10.7	11.3	11.4	0	0	10.7	4274	4.274	0	0	3110	3.11
11/07/2017	7.6	0	7.6	7.6	7.6	24	24	0.1	0.2	7.6	3034	3.034	190	0.19	3305	3.305
12/07/2017	7.5	0	7.5	7.5	7.5	24	24	0	0	7.5	3004	3.004	0	0	3555	3.555
13/07/2017	10.4	0	10.4	10.4	10.4	24	24	0.2	0.1	10.4	4125	4.125	190	0.19	3648	3.648
14/07/2017	7.8	0	7.8	7.8	7.8	24	24	0	0	7.8	3113	3.113	0	0	3379	3.379
15/07/2017	11.7	0	11.7	11.7	11.7	24	24	0.1	0.2	11.7	4671	4.671	191	0.191	3483	3.483
16/07/2017	6.6	0	6.6	6.6	6.6	24	24	0	0	6.6	2629	2.629	0	0	3730	3.73
17/07/2017	7.2	2.1	9.2	9.2	9.2	24	24	0	0	9.2	3690	3.69	0	0	3713	3.713
18/07/2017	0	8.4	8.4	8.4	8.4	24	24	0.2	0.1	8.4	3382	3.382	189	0.189	3491	3.491
19/07/2017	0	9.6	9.6	9.6	9.6	24	24	0	0	9.6	3864	3.864	0	0	3554	3.554
20/07/2017	0	8	8	8	8	24	24	0	0.1	8	3164	3.164	63	0.063	3421	3.421
21/07/2017	0	12	12	12	12	24	24	0.1	0.1	12	4695	4.695	125	0.125	3521	3.521
22/07/2017	0	8.7	8.7	8.7	8.7	24	24	0.2	0.1	8.7	3472	3.472	190	0.19	3600	3.6
23/07/2017	0	7.2	7.2	7.2	7.2	24	24	0	0	7.2	2896	2.896	0	0	3793	3.793

24/07/2017	0	12.5	12.5	12.5	12.5	24	24	0.1	0.2	12.5	5044	5.044	190	0.19	3744	3.744
25/07/2017	0	10.7	10.7	10.7	10.7	24	24	0.2	0.1	10.7	4297	4.297	189	0.189	3499	3.499
26/07/2017	0	3.1	3.1	3.1	3.1	24	24	0	0	3.1	1241	1.241	0	0	3639	3.639
27/07/2017	16.6	0	16.6	16.6	16.6	24	24	0.3	0.3	16.6	6626	6.626	377	0.377	3833	3.833
28/07/2017	7.3	0	7.3	7.3	7.3	24	24	0	0	7.3	2921	2.921	0	0	3740	3.74
29/07/2017	0	8.7	8.6	8.6	8.6	24	24	0.1	0.2	8.6	3479	3.479	189	0.189	3790	3.79
30/07/2017	7	5.8	12.8	12.8	12.8	24	24	0.2	0.1	12.8	5104	5.104	189	0.189	4088	4.088
31/07/2017	9.2	0	9.2	9.2	9.2	24	24	0.1	0.2	9.2	3665	3.665	189	0.189	4071	4.071
01/08/2017	3.6	8	11.5	11.5	11.5	24	24	0.1	0	11.5	4603	4.603	130	0.13	3919	3.919
02/08/2017	0	6.6	6.6	6.6	6.6	24	24	0.2	0.1	6.6	2647	2.647	233	0.233	3987	3.987
03/08/2017	3.6	11.6	15.2	15.2	15.2	24	24	0.6	0.1	15.2	6075	6.075	494	0.494	3860	3.86
04/08/2017	0	6.4	6.4	6.4	6.4	24	24	0.2	0.2	6.4	2564	2.564	253	0.253	3680	3.68
05/08/2017	0	14	14	14	14	24	24	0	0	14	5279	5.279	0	0	3733	3.733
06/08/2017	0	4.2	4.2	4.2	4.2	24	24	0	0	4.2	1589	1.589	0	0	3975	3.975
07/08/2017	15.8	0	15.8	15.8	15.8	24	24	0.2	0.2	15.8	6326	6.326	252	0.252	4008	4.008
08/08/2017	9.5	0	9.5	9.5	9.5	24	24	0.2	0.2	9.5	3778	3.778	251	0.251	3812	3.812
09/08/2017	10.5	0	10.5	10.5	10.5	24	24	0.2	0.2	10.5	4161	4.161	253	0.253	3957	3.957
10/08/2017	9.7	0	9.7	9.7	9.7	24	24	0	0	9.7	3837	3.837	0	0	4046	4.046
11/08/2017	0	9.9	9.8	9.8	9.8	24	24	0	0	9.8	3789	3.789	0	0	4063	4.063
12/08/2017	0	12.2	12.2	12.2	12.2	24	24	0.2	0.2	12.2	4774	4.774	254	0.254	3926	3.926
13/08/2017	0	7.4	7.4	7.4	7.4	24	24	0.1	0.1	7.4	2956	2.956	126	0.126	4306	4.306
14/08/2017	0	10.6	10.6	10.6	10.6	24	24	0.2	0.2	10.6	4211	4.211	252	0.252	4482	4.482
15/08/2017	0	11.3	11.3	11.3	11.3	24	24	0	0	11.3	4494	4.494	0	0	4281	4.281
16/08/2017	0	16.2	16.2	16.2	16.2	24	24	0.2	0.2	16.2	6432	6.432	252	0.252	4391	4.391
17/08/2017	0	8.9	8.9	8.9	8.9	24	24	0	0	8.9	3540	3.54	0	0	4338	4.338
18/08/2017	0	13.7	13.7	13.7	13.7	24	24	0.2	0.1	13.7	5471	5.471	206	0.206	4453	4.453
19/08/2017	0	6.3	6.3	6.3	6.3	24	24	0.1	0.1	6.3	2546	2.546	126	0.126	3564	3.564
20/08/2017	0	12.6	12.6	12.6	12.6	24	24	0.1	0.1	12.6	5061	5.061	126	0.126	4079	4.079
21/08/2017	0	7.6	7.6	7.6	7.6	24	24	0	0	7.6	3044	3.044	0	0	4248	4.248

22/08/2017	12.1	0	12.1	12.1	12.1	24	24	0.2	0.2	12.1	4800	4.8	251	0.251	4280	4.28
23/08/2017	15.8	0	15.8	15.8	15.8	24	24	0.1	0.2	15.8	6240	6.24	189	0.189	4488	4.488
24/08/2017	13.4	0	13.4	13.4	13.4	24	24	0.2	0.1	13.4	5313	5.313	189	0.189	4175	4.175
25/08/2017	12.8	0	12.8	12.8	12.8	24	24	0.2	0.2	12.8	5066	5.066	253	0.253	4034	4.034
26/08/2017	13	0	13	13	13	24	24	0	0.1	13	5148	5.148	63	0.063	3945	3.945
27/08/2017	9.9	0	9.9	9.9	9.9	24	24	0.2	0.1	9.9	3912	3.912	190	0.19	4301	4.301
28/08/2017	9.2	0	9.2	9.2	9.2	24	24	0	0	9.2	3656	3.656	0	0	4644	4.644
29/08/2017	16.9	0	16.9	16.9	16.9	24	24	0.2	0.2	16.9	6715	6.715	251	0.251	4634	4.634
30/08/2017	13.7	0	13.5	13.5	13.5	24	24	0	0	13.5	5018	5.018	0	0	4753	4.753
31/08/2017	3.2	15.6	3.2	3.2	3.2	24	24	0.1	0.1	3.2	1116	1.116	126	0.126	4852	4.852
01/09/2017	17.5	6.3	17.5	17.5	17.5	24	24	0.1	0.1	17.5	6259	6.259	125	0.125	4787	4.787
02/09/2017	13.3	8.7	13.3	13.3	13.3	24	24	0.2	0.2	13.3	4731	4.731	252	0.252	4541	4.541
03/09/2017	15.8	8.1	15.7	15.7	15.7	24	24	0	0	15.7	5538	5.538	0	0	4680	4.68
04/09/2017	17.8	4.7	17.8	17.8	17.8	24	24	0.2	0.2	17.8	6184	6.184	252	0.252	4317	4.317
05/09/2017	12.3	4.7	12.3	12.3	12.3	24	24	0.2	0.2	12.3	4290	4.29	252	0.252	3944	3.944
06/09/2017	4.8	0	4.8	4.8	4.8	24	24	0	0	4.8	1717	1.717	0	0	4220	4.22
07/09/2017	18.3	0	18.3	18.3	18.3	24	24	0.2	0.2	18.3	6675	6.675	251	0.251	4298	4.298
08/09/2017	5.7	2.9	8.6	8.6	8.6	24	24	0.2	0.2	8.6	3332	3.332	253	0.253	4469	4.469
09/09/2017	0	14.1	14.1	14.1	14.1	24	24	0.2	0.2	14.1	5601	5.601	253	0.253	3993	3.993
10/09/2017	0	12.7	12.7	12.7	12.7	24	24	0	0	12.7	5053	5.053	0	0	4787	4.787
11/09/2017	0	11.4	11.4	11.4	11.4	24	24	0.2	0.2	11.4	4547	4.547	251	0.251	4731	4.731
12/09/2017	0	12.1	12.1	12.1	12.1	24	24	0	0	12.1	4827	4.827	0	0	4658	4.658
13/09/2017	0	13.5	13.5	13.5	13.5	24	24	0.2	0.2	13.5	5400	5.4	251	0.251	5221	5.221
14/09/2017	0	11.4	11.4	11.4	11.4	24	24	0.1	0.1	11.4	4558	4.558	127	0.127	4617	4.617
15/09/2017	0	9.1	9.1	9.1	9.1	24	24	0.1	0.1	9.1	3636	3.636	126	0.126	4418	4.418
16/09/2017	0	15.1	15.1	15.1	15.1	24	24	0.1	0.2	15.1	5694	5.694	190	0.19	4638	4.638
17/09/2017	0	12.1	12.1	12.1	12.1	24	24	0.1	0	12.1	4465	4.465	63	0.063	4826	4.826
18/09/2017	0	12.8	12.8	12.8	12.8	24	24	0.2	0.2	12.8	5094	5.094	252	0.252	4896	4.896
19/09/2017	0	12.6	12.6	12.6	12.6	24	24	0	0	12.6	5018	5.018	0	0	4811	4.811

20/09/2017	12.5	1	13.5	13.5	13.5	24	24	0.3	0.3	13.5	5326	5.326	378	0.378	5030	5.03
21/09/2017	14.7	0	14.7	14.7	14.7	24	24	0.2	0.2	14.7	5820	5.82	253	0.253	5362	5.362
22/09/2017	8.8	3.9	12.6	12.6	12.6	24	24	0.1	0.1	12.6	4990	4.99	126	0.126	5631	5.631
23/09/2017	0	13.2	13.2	13.2	13.2	24	24	0.1	0.1	13.2	5276	5.276	126	0.126	4996	4.996
24/09/2017	0	16.3	16.3	16.3	16.3	24	24	0.3	0.3	16.3	6204	6.204	504	0.504	5402	5.402
25/09/2017	9.4	1.1	10.4	10.4	10.4	24	24	0	0	10.4	4085	4.085	0	0	5729	5.729
26/09/2017	8.7	9.7	18.5	18.5	18.5	24	24	0.2	0.2	18.5	7348	7.348	253	0.253	5815	5.815
27/09/2017	0	14.4	14.4	14.4	14.4	24	24	0.2	0.2	14.4	5770	5.77	252	0.252	6108	6.108
28/09/2017	0	17.5	17.5	17.5	17.5	24	24	0	0	17.5	6754	6.754	0	0	6051	6.051
29/09/2017	2.7	11.3	14	14	14	24	24	0.2	0.2	14	5520	5.52	252	0.252	5788	5.788
30/09/2017	0	8.7	8.7	8.7	8.7	24	24	0	0	8.7	3467	3.467	0	0	5312	5.312
01/10/2017	0	12.9	12.9	12.9	12.9	24	24	0.2	0.2	12.9	5157	5.157	252	0.252	4133	4.133
02/10/2017	16.9	0	16.9	16.9	16.9	24	24	0.2	0.2	16.9	6721	6.721	252	0.252	5541	5.541
03/10/2017	4.8	11.2	16	16	16	24	24	0.2	0.2	16	6399	6.399	252	0.252	5322	5.322
04/10/2017	0	11.9	11.8	11.8	11.8	24	24	0	0	11.8	4753	4.753	0	0	5260	5.26
05/10/2017	0	14.7	14.7	14.7	14.7	24	24	0.2	0.2	14.7	5907	5.907	252	0.252	5609	5.609
06/10/2017	0	14.6	14.6	14.6	14.6	24	24	0.2	0.2	14.6	5890	5.89	252	0.252	5848	5.848
07/10/2017	0	13.3	13.4	13.4	13.4	24	24	0	0	13.4	5360	5.36	0	0	5142	5.142
08/10/2017	0	16.1	16.1	16.1	16.1	24	24	0.2	0.2	16.1	6470	6.47	253	0.253	5554	5.554
09/10/2017	14.3	0.5	14.8	14.8	14.8	24	24	0	0	14.8	5866	5.866	0	0	6055	6.055
10/10/2017	14.3	0	14.3	14.3	14.3	24	24	0.2	0.2	14.3	5665	5.665	252	0.252	6053	6.053
11/10/2017	16.8	0	16.8	16.8	16.8	24	24	0.2	0.2	16.8	6657	6.657	252	0.252	6064	6.064
12/10/2017	16.6	0	16.6	16.6	16.6	24	24	0	0.1	16.6	6601	6.601	63	0.063	6038	6.038
13/10/2017	9.6	0	9.6	9.6	9.6	24	24	0.2	0.1	9.6	3795	3.795	189	0.189	4466	4.466
14/10/2017	0	12.8	12.8	12.8	12.8	24	24	0	0.1	12.8	5120	5.12	63	0.063	4365	4.365
15/10/2017	0	8.4	8.4	8.4	8.4	21.3	21.3	0.2	0.1	8.4	3350	3.35	188	0.188	4712	4.712
16/10/2017	0	11.3	11.3	11.3	11.3	24	24	0	0.1	11.3	4520	4.52	63	0.063	4092	4.092
17/10/2017	3.2	7.2	10.4	10.4	10.4	24	24	0.2	0.1	10.4	4149	4.149	190	0.19	3802	3.802
18/10/2017	8.9	3.2	12.1	12.1	12.1	24	24	0	0	12.1	4799	4.799	0	0	3580	3.58

19/10/2017	0	8	8	8	8	24	24	0	0.1	8	3188	3.188	63	0.063	4108	4.108
20/10/2017	3.5	5.5	8.9	8.9	8.9	24.4	24.4	0.2	0.1	8.9	3542	3.542	190	0.19	3413	3.413
21/10/2017	0	5.8	5.8	5.8	5.8	24	24	0	0	5.8	2329	2.329	0	0	2570	2.57
22/10/2017	0	11.4	11.4	11.4	11.4	24	24	0	0.1	11.4	4557	4.557	63	0.063	3007	3.007
23/10/2017	0	8	7.9	7.9	7.9	24	24	0.2	0.1	0	3174	3.174	189	0.189	3751	3.751
24/10/2017	0	10.4	10.4	10.4	10.4	23	23	0	0.1	0	4141	4.141	63	0.063	4446	4.446
25/10/2017	0	14.1	14.1	14.1	14.1	24	24	0.2	0.1	7.7	5585	5.585	189	0.189	4869	4.869
26/10/2017	11.4	2.5	13.9	13.9	13.9	24	24	0	0.1	13.9	5508	5.508	63	0.063	5473	5.473
27/10/2017	14	0	14	14	14	24	24	0.2	0.1	14	5426	5.426	189	0.189	5816	5.816
28/10/2017	5.7	4.8	10.5	10.5	10.5	24	24	0	0.1	10.5	4101	4.101	63	0.063	4644	4.644
29/10/2017	0	16.8	16.8	16.8	16.8	24	24	0.2	0.1	16.8	6681	6.681	190	0.19	5284	5.284
30/10/2017	0	13.1	13.1	13.1	13.1	23.5	23.5	0.2	0.2	13.1	5213	5.213	252	0.252	5325	5.325
31/10/2017	11.3	5	16.3	16.3	16.3	24	24	0	0.1	16.3	6463	6.463	63	0.063	5670	5.67
01/11/2017	14.2	0	14.2	14.2	14.2	24	24	0.2	0.1	14.2	5630	5.63	189	0.189	5503	5.503
02/11/2017	15.7	0	15.7	15.7	15.7	24	24	0	0.1	15.7	6207	6.207	63	0.063	5780	5.78
03/11/2017	0	10.8	10.8	10.8	10.8	24	24	0.2	0.1	10.8	4315	4.315	188	0.188	5956	5.956
04/11/2017	9.7	9.9	19.6	19.6	19.6	24	24	0.2	0.2	19.6	7593	7.593	252	0.252	5397	5.397
05/11/2017	13.7	0	13.7	13.7	13.7	24	24	0	0.1	13.7	5408	5.408	63	0.063	5624	5.624
06/11/2017	16.1	0	16	16	16	24	24	0.2	0.1	16	6315	6.315	190	0.19	5759	5.759
07/11/2017	7.2	0	7.2	7.2	7.2	24	24	0	0.1	7.2	2849	2.849	63	0.063	4512	4.512
08/11/2017	17.9	0	17.9	17.9	17.9	24	24	0.2	0.1	17.9	7060	7.06	188	0.188	5502	5.502
09/11/2017	9.2	0	9.3	9.3	9.3	24	24	0	0.1	9.3	3659	3.659	63	0.063	4758	4.758
10/11/2017	17.5	0	17.5	17.5	17.5	24	24	0.2	0.1	17.5	6911	6.911	189	0.189	5338	5.338
11/11/2017	2.9	9.5	12.4	12.4	12.4	24	24	0.2	0.2	12.4	4948	4.948	252	0.252	5708	5.708
12/11/2017	0	16.7	16.7	16.7	16.7	24	24	0	0.1	16.7	6661	6.661	63	0.063	5602	5.602
13/11/2017	13.4	2.3	15.7	15.7	15.7	24	24	0.2	0.1	15.7	6220	6.22	190	0.19	5771	5.771
14/11/2017	13.5	0	13.5	13.5	13.5	24	24	0.3	0.3	13.5	5333	5.333	503	0.503	5108	5.108
15/11/2017	4	7.6	11.6	11.6	11.6	24	24	0	0	11.6	4585	4.585	0	0	3898	3.898
16/11/2017	0	10.8	10.8	10.8	10.8	24	24	0.2	0.2	10.8	4291	4.291	254	0.254	4274	4.274

17/11/2017	0	9.7	9.7	9.7	9.7	24	24	0	0	9.7	3845	3.845	0	0	4639	4.639
18/11/2017	0	14	14	14	14	24	24	0.2	0.2	14	5555	5.555	252	0.252	5425	5.425
19/11/2017	0	14.2	14.2	14.2	14.2	24	24	0	0	14.2	5648	5.648	0	0	5483	5.483
20/11/2017	0	14.6	14.6	14.6	14.6	24	24	0.2	0.2	14.6	5794	5.794	252	0.252	4740	4.74
21/11/2017	0	6.1	6.1	6.1	6.1	24	24	0	0	6.1	2409	2.409	0	0	2769	2.769
22/11/2017	0	5.4	5.4	5.4	5.4	24	24	0	0	5.4	2122	2.122	0	0	3361	3.361
23/11/2017	2.6	7.7	10.3	10.3	10.3	24	24	0.2	0.2	10.3	4048	4.048	252	0.252	3862	3.862
24/11/2017	5.5	9.6	15.1	15.1	15.1	24	24	0	0	15.1	5895	5.895	0	0	4520	4.52
25/11/2017	12	0.2	12.2	12.2	12.2	24	24	0.2	0.2	12.2	4870	4.87	253	0.253	4484	4.484
26/11/2017	13.4	0	13.4	13.4	13.4	24	24	0	0.1	13.4	4779	4.779	63	0.063	5885	5.885
27/11/2017	13.2	0	13.2	13.2	13.2	24	24	0.2	0.1	13.2	4707	4.707	189	0.189	5664	5.664
28/11/2017	19	0	19	19	19	23.5	23.5	0.3	0.3	19	6757	6.757	377	0.377	5458	5.458
29/11/2017	19.7	0	19.6	19.6	19.6	24	24	0.3	0.3	19.6	7018	7.018	379	0.379	5735	5.735
30/11/2017	11	5.9	16.9	16.9	16.9	24	24	0.2	0.2	16.9	6073	6.073	253	0.253	6000	6
01/12/2017	9.3	7.8	17.1	17.1	17.1	24	24	0.2	0.2	17.1	6133	6.133	253	0.253	5841	5.841
02/12/2017	14.2	0	14.2	14.2	14.2	23.7	23.7	0.2	0.2	14.1	5043	5.043	253	0.253	5238	5.238
03/12/2017	16.8	0	16.7	16.7	16.7	24	24	0.2	0.2	16.7	5971	5.971	252	0.252	5642	5.642
04/12/2017	16.4	0	16.4	16.4	16.4	24	24	0.2	0.2	16.4	5838	5.838	252	0.252	5650	5.65
05/12/2017	15.7	0	15.7	15.7	15.7	24	24	0.2	0.2	15.7	5589	5.589	252	0.252	5819	5.819
06/12/2017	19.8	0	19.8	19.8	19.8	24	24	0.2	0.3	19.8	7056	7.056	315	0.315	5971	5.971
07/12/2017	17.1	0	17.1	17.1	17.1	24	24	0.2	0.1	17.1	6055	6.055	189	0.189	6048	6.048
08/12/2017	18.2	0	18.2	18.2	18.2	24	24	0.2	0.2	18.2	6440	6.44	252	0.252	5948	5.948
09/12/2017	10.7	0	10.7	10.7	10.7	23.7	23.7	0.1	0.1	10.7	3763	3.763	126	0.126	5583	5.583
10/12/2017	20.2	0	20.2	20.2	20.2	24	24	0.2	0.2	20.2	7139	7.139	253	0.253	5848	5.848
11/12/2017	15.9	0	15.8	15.8	15.8	24	24	0.2	0.2	15.8	5594	5.594	252	0.252	6003	6.003
12/12/2017	18.8	0	18.8	18.8	18.8	24	24	0.2	0.2	18.8	6645	6.645	252	0.252	5256	5.256
13/12/2017	5.3	14.6	19.9	19.9	19.9	24	24	0.2	0.2	19.9	6818	6.818	252	0.252	6733	6.733
14/12/2017	0	18.9	18.8	18.8	18.8	24	24	0.2	0.2	18.8	6350	6.35	253	0.253	6273	6.273
15/12/2017	0	22.2	22.2	22.2	22.2	24	24	0.2	0.3	22.2	7475	7.475	315	0.315	6319	6.319

16/12/2017	0	15.2	15.2	15.2	15.2	24	24	0.2	0.2	15.2	5088	5.088	252	0.252	6201	6.201
17/12/2017	0	21.5	21.5	21.5	21.5	24	24	0.2	0.2	21.5	7230	7.23	252	0.252	6263	6.263
18/12/2017	0	21.1	21.1	21.1	21.1	24	24	0.2	0.2	21.1	7094	7.094	253	0.253	7157	7.157
19/12/2017	0	15.2	15.2	15.2	15.2	24	24	0.2	0.2	15.2	5109	5.109	252	0.252	7260	7.26
20/12/2017	0	24	24	24	24	24	24	0.2	0.2	24	8067	8.067	251	0.251	7250	7.25
21/12/2017	0	24	24	24	24	24	24	0.3	0.2	24	8070	8.07	314	0.314	6807	6.807
22/12/2017	0	24	24	24	24	24	24	0.2	0.3	14	8062	8.062	316	0.316	6443	6.443
23/12/2017	0	20.4	20.4	20.4	20.4	24	24	0.2	0.2	0	6860	6.86	252	0.252	5996	5.996
24/12/2017	0	13.7	13.7	13.7	13.7	24	24	0.2	0.2	0	4577	4.577	251	0.251	5980	5.98
25/12/2017	0	24	24	24	24	24	24	0.2	0.2	0	8054	8.054	252	0.252	5825	5.825
26/12/2017	0	16.3	16.3	16.3	16.3	24	24	0.2	0.1	0	5454	5.454	189	0.189	6906	6.906
27/12/2017	0	24	24	24	24	24	24	0.1	0.2	0	8022	8.022	190	0.19	6705	6.705
28/12/2017	0	18.9	18.9	18.9	18.9	24	24	0.2	0.1	0	6290	6.29	189	0.189	6460	6.46
29/12/2017	0	23.9	23.9	23.9	23.9	24	24	0.1	0.2	0	7980	7.98	190	0.19	7327	7.327
30/12/2017	0	19.6	19.6	19.6	19.6	24	24	0.2	0.2	0	6538	6.538	253	0.253	5847	5.847
31/12/2017	0	17.6	17.6	17.6	17.6	24	24	0.1	0.1	0	5870	5.87	126	0.126	5623	5.623
01/01/2018	0	9.2	9.2	9.2	9.2	24	24	0.2	0.1	8	3065	3.065	190	0.19	5082	5.082
02/01/2018	17.9	0.1	18	18	18	24	24	0.1	0.2	18	6524	6.524	189	0.189	6330	6.33
03/01/2018	24	0	24	24	24	24	24	0.2	0.2	24	8824	8.824	253	0.253	7411	7.411
04/01/2018	19.3	0	19.3	19.3	19.3	24	24	0.2	0.1	19.3	7051	7.051	190	0.19	6352	6.352
05/01/2018	6.3	13.4	19.7	19.7	19.7	24	24	0.2	0.2	19.7	7125	7.125	252	0.252	6759	6.759
06/01/2018	0	18	18	18	18	24	24	0.2	0.2	18	6543	6.543	253	0.253	6358	6.358
07/01/2018	0	19.9	19.9	19.9	19.9	24	24	0.2	0.2	19.9	7212	7.212	253	0.253	6376	6.376
08/01/2018	0	16.1	16.1	16.1	16.1	24	24	0	0	16.1	5817	5.817	0	0	6753	6.753
09/01/2018	0	17	17	17	17	23.4	24	0.2	0.3	17	6136	6.136	316	0.316	6950	6.95
10/01/2018	13.8	10.2	24	24	24	24	24	0.2	0.1	24	9034	9.034	189	0.189	6940	6.94
11/01/2018	11.1	5.6	16.6	16.6	16.6	24	24	0.2	0.2	16.6	6424	6.424	252	0.252	6988	6.988
12/01/2018	0	21.8	21.8	21.8	21.8	24	24	0	0.1	21.8	8463	8.463	63	0.063	7295	7.295
13/01/2018	0	19.9	19.9	19.9	19.9	24	24	0.2	0.2	19.9	7766	7.766	253	0.253	6904	6.904

14/01/2018	0	18.6	18.6	18.6	18.6	24	24	0.2	0.1	18.6	7267	7.267	189	0.189	7118	7.118
15/01/2018	7.8	3.8	11.6	11.6	11.6	24	24	0.1	0.1	11.6	4534	4.534	126	0.126	7535	7.535
16/01/2018	14.1	2	16.1	16.1	16.1	24	24	0.1	0.2	16.1	6216	6.216	188	0.188	7190	7.19
17/01/2018	24	0	24	24	24	24	24	0.2	0.2	24	9348	9.348	252	0.252	7036	7.036
18/01/2018	22.5	0	22.5	22.5	22.5	24	24	0.2	0.1	22.5	8741	8.741	190	0.19	6880	6.88
19/01/2018	18.4	0	18.4	18.4	18.4	24	24	0.2	0.2	18.4	6907	6.907	252	0.252	7067	7.067
20/01/2018	5.6	13.4	19	19	19	24	24	0.2	0.2	19	6878	6.878	252	0.252	6155	6.155
21/01/2018	12.1	4.7	16.8	16.8	16.8	24	24	0	0.1	16.8	6060	6.06	63	0.063	6684	6.684
22/01/2018	19.6	0	19.6	19.6	19.6	24	24	0.2	0.1	19.6	7390	7.39	219	0.219	7077	7.077
23/01/2018	14.6	6.2	20.9	9.4	20.9	24	24	0.2	0.2	20.9	8109	8.109	286	0.286	6902	6.902
24/01/2018	10.1	9.1	19.1	0	19.1	24	24	0.3	0.2	19.1	7423	7.423	315	0.315	7127	7.127
25/01/2018	17.4	0	17.4	0	17.4	24	24	0.2	0.2	17.4	6749	6.749	253	0.253	6792	6.792
26/01/2018	7.3	11.6	18.9	0	18.9	24	24	0	0.1	18.9	7344	7.344	63	0.063	6996	6.996
27/01/2018	0	16.4	16.4	0	16.4	24	24	0.2	0.2	16.4	6397	6.397	251	0.251	6766	6.766
28/01/2018	12.7	6.6	19.3	0	19.3	24	24	0.2	0.2	19.3	7517	7.517	252	0.252	7083	7.083
29/01/2018	14.1	0	14.1	0	14.1	24	24	0.2	0.2	14.1	5479	5.479	252	0.252	5669	5.669
30/01/2018	18.9	0	18.9	15.2	18.9	24	24	0	0	18.9	7103	7.103	0	0	5901	5.901
31/01/2018	2.4	12.4	14.8	14.8	14.8	24	24	0.2	0.2	14.8	5797	5.797	252	0.252	6962	6.962
01/02/2018	0	20	20	20	20	24	24	0.2	0.2	20	7825	7.825	253	0.253	6631	6.631
02/02/2018	0	15.1	15.1	15.1	15.1	24	24	0.2	0.2	15.1	5888	5.888	252	0.252	5212	5.212
03/02/2018	0	4.8	4.8	4.8	4.8	24	24	0	0	4.8	1850	1.85	0	0	3535	3.535
04/02/2018	0	13.1	13	13	13	24	24	0	0	13	5088	5.088	0	0	3339	3.339
05/02/2018	0	9.9	9.8	9.8	9.8	24	24	0.2	0.2	9.8	3846	3.846	252	0.252	3306	3.306
06/02/2018	0	9.7	9.7	9.7	9.7	24	24	0	0	9.7	3776	3.776	0	0	3979	3.979
07/02/2018	0	12	12	12	12	24	24	0.2	0.2	12	4670	4.67	252	0.252	4497	4.497
08/02/2018	0	13	13	13	13	24	24	0.2	0.2	13	5113	5.113	252	0.252	5176	5.176
09/02/2018	0	12.2	12.2	12.2	12.2	24	24	0	0	12.2	4465	4.465	0	0	5314	5.314
10/02/2018	0	17.9	17.9	17.9	17.9	24	24	0.2	0.2	17.9	6433	6.433	252	0.252	5384	5.384
11/02/2018	0	15.1	15.1	15.1	15.1	24	24	0.1	0	15.1	5440	5.44	63	0.063	6181	6.181

12/02/2018	0	18	18	18	18	24	24	0.2	0.3	18	6863	6.863	315	0.315	6515	6.515
13/02/2018	0	17.5	17.5	17.5	17.5	24	24	0.1	0.1	17.5	6855	6.855	126	0.126	6720	6.72
14/02/2018	0	20	20	20	20	24	24	0.2	0.2	20	7866	7.866	252	0.252	7124	7.124
15/02/2018	0	17.1	17.1	17.1	17.1	24	24	0.2	0.2	17.1	6722	6.722	253	0.253	6678	6.678
16/02/2018	0	18.7	18.7	18.7	18.7	24	24	0.2	0.2	18.7	7339	7.339	252	0.252	6990	6.99
17/02/2018	0	16.8	16.8	16.8	16.8	24	24	0.2	0.2	16.8	6605	6.605	252	0.252	6432	6.432
18/02/2018	5.9	10.1	16	16	16	24	24	0.2	0.2	16	6256	6.256	252	0.252	6534	6.534
19/02/2018	4.3	12.6	16.8	16.8	16.8	24	24	0	0	16.8	6578	6.578	0	0	6976	6.976
20/02/2018	0	16	16	16	16	23.6	23.6	0.2	0.2	16	6261	6.261	253	0.253	6167	6.167
21/02/2018	0	17.9	17.9	17.9	17.9	24	24	0.2	0.2	17.9	6995	6.995	253	0.253	5841	5.841
22/02/2018	0	14.5	14.5	14.5	14.5	24	24	0	0	14.5	5658	5.658	0	0	6071	6.071
23/02/2018	0	16.4	16.5	16.5	16.5	24	24	0.2	0.2	16.5	6427	6.427	253	0.253	6136	6.136
24/02/2018	0	11.1	11	11	11	23.9	23.9	0	0	11	4304	4.304	0	0	4202	4.202
25/02/2018	0	9.7	9.6	9.6	9.6	24	24	0.2	0.2	9.6	3755	3.755	253	0.253	3428	3.428
26/02/2018	0	7.4	7.3	7.3	7.3	24	24	0	0	7.3	2859	2.859	0	0	3300	3.3
27/02/2018	0	8.3	8.3	8.3	8.3	24	24	0	0	8.3	3236	3.236	0	0	3550	3.55
28/02/2018	0	13.4	13.4	13.4	13.4	23.1	23.1	0.2	0.2	13.4	5235	5.235	254	0.254	4453	4.453
01/03/2018	0	12.4	12.3	12.3	12.3	24	24	0.1	0.1	12.3	4852	4.852	126	0.126	4713	4.713
02/03/2018	0	10	10	10	10	24	24	0.1	0.1	10	3941	3.941	127	0.127	3724	3.724
03/03/2018	0	7.9	7.9	7.9	7.9	24	24	0	0	7.9	3093	3.093	0	0	3209	3.209
04/03/2018	0	4.3	4.2	4.2	4.2	24	24	0	0	4.2	1544	1.544	0	0	2425	2.425
05/03/2018	0	9.3	9.2	9.2	9.2	24	24	0.2	0.2	9.2	3351	3.351	252	0.252	2236	2.236
06/03/2018	0	2.8	2.7	2.7	2.7	24	24	0	0	2.8	989	0.989	0	0	2337	2.337
07/03/2018	0	5.9	5.8	5.8	5.8	24	24	0	0	5.8	2066	2.066	0	0	2093	2.093
08/03/2018	0	7.6	7.6	7.6	7.6	24	24	0	0	7.6	2704	2.704	0	0	2190	2.19
09/03/2018	0	8	8	8	8	24	24	0.2	0.2	8	2903	2.903	252	0.252	2502	2.502
10/03/2018	0	5.1	5.1	5.1	5.1	24	24	0	0	5.1	1869	1.869	0	0	2536	2.536
11/03/2018	0	8.2	8.2	8.2	8.2	24	24	0	0	8.2	3058	3.058	0	0	3274	3.274
12/03/2018	0	11.5	11.5	11.5	11.5	24	24	0.2	0.1	11.5	4286	4.286	190	0.19	3566	3.566

13/03/2018	0	11.2	11.1	11.1	11.1	24	24	0	0	11.1	4149	4.149	0	0	3585	3.585
14/03/2018	0	11.8	11.8	11.8	11.8	24	24	0.1	0.2	11.8	4366	4.366	189	0.189	3925	3.925
15/03/2018	0	10.8	10.8	10.8	10.8	24	24	0	0	10.8	3983	3.983	0	0	4133	4.133
16/03/2018	0	12	12	12	12	24	24	0.2	0.2	12	4396	4.396	252	0.252	4068	4.068
17/03/2018	0	11.4	11.3	11.3	11.3	24	24	0	0	11.3	4152	4.152	0	0	4222	4.222
18/03/2018	0	12.6	12.5	12.5	12.5	24	24	0.2	0.2	12.5	4563	4.563	252	0.252	4595	4.595
19/03/2018	0	14	14	14	14	24	24	0	0	14	5068	5.068	0	0	4754	4.754
20/03/2018	0	13	13	13	13	24	24	0.2	0.2	13	4708	4.708	252	0.252	4748	4.748
21/03/2018	0	13.3	13.3	13.3	13.3	24	24	0.1	0.1	13.3	4734	4.734	126	0.126	4895	4.895
22/03/2018	0	13.5	13.5	13.5	13.5	24	24	0.1	0.1	13.5	4792	4.792	127	0.127	4473	4.473
23/03/2018	0	10.7	10.7	10.7	10.7	24	24	0.1	0	10.7	3808	3.808	63	0.063	4115	4.115
24/03/2018	0	13.1	13.1	13.1	13.1	24	24	0.1	0.1	13.1	4656	4.656	126	0.126	4391	4.391
25/03/2018	0	13.6	13.6	13.6	13.6	24	24	0.1	0.2	13.6	4825	4.825	190	0.19	5159	5.159
26/03/2018	0	15.8	15.8	15.8	15.8	24	24	0.1	0	15.8	5619	5.619	63	0.063	5282	5.282
27/03/2018	0	13.5	13.5	13.5	13.5	24	24	0.1	0.2	13.5	4798	4.798	190	0.19	4804	4.804
28/03/2018	0	14.8	14.8	14.8	14.8	24	24	0.1	0	14.8	5262	5.262	63	0.063	5018	5.018
29/03/2018	0	14.9	14.9	14.9	14.9	24	24	0.2	0.2	14.9	5313	5.313	252	0.252	5057	5.057
30/03/2018	0	13.1	13.1	13.1	13.1	24	24	0.1	0.2	13.1	4651	4.651	189	0.189	4912	4.912
31/03/2018	0	13	13	13	13	24	24	0.1	0	13	4617	4.617	63	0.063	4711	4.711
01/04/2018	0	13.9	13.8	13.8	13.8	24	24	0.1	0.2	13.8	4920	4.92	189	0.189	4711	4.711
02/04/2018	0	15	15	15	15	24	24	0.1	0	15	5304	5.304	63	0.063	5512	5.512
03/04/2018	0	15.2	15.2	15.2	15.2	24	24	0.2	0.2	15.2	5393	5.393	252	0.252	5111	5.111
04/04/2018	0	14.3	14.3	14.3	14.3	24	24	0	0	14.3	5082	5.082	0	0	5213	5.213
05/04/2018	0	14.6	14.6	14.6	14.6	24	24	0.2	0.2	14.6	5197	5.197	253	0.253	5397	5.397
06/04/2018	0	15.1	15.1	15.1	15.1	24	24	0.1	0.2	15.1	5382	5.382	189	0.189	5443	5.443
07/04/2018	0	16.3	16.3	16.3	16.3	24	24	0.1	0	16.3	5791	5.791	63	0.063	5273	5.273
08/04/2018	0	16.2	16.2	16.2	16.2	24	24	0.2	0.2	16.2	5774	5.774	252	0.252	5333	5.333
09/04/2018	0	16	16	16	16	24	24	0.2	0.2	16	5694	5.694	252	0.252	5655	5.655
10/04/2018	0	19	19	19	19	24	24	0.2	0.2	19	6758	6.758	252	0.252	5450	5.45

11/04/2018	0	13.6	13.6	13.6	13.6	24	24	0	0	13.6	4816	4.816	0	0	5267	5.267
12/04/2018	0	15.7	15.7	15.7	15.7	24	24	0.2	0.2	15.7	5560	5.56	252	0.252	4888	4.888
13/04/2018	0	11.8	11.8	11.8	11.8	24	24	0	0	11.8	4414	4.414	0	0	4250	4.25
14/04/2018	0	12.1	12.1	12.1	12.1	24	24	0.2	0.2	12.1	4750	4.75	253	0.253	4432	4.432
15/04/2018	0	12.9	13	13	13	24	24	0	0	13	5078	5.078	0	0	5021	5.021
16/04/2018	0	12.9	12.9	12.9	12.9	24	24	0.2	0.2	12.9	5061	5.061	253	0.253	5381	5.381
17/04/2018	0	13.3	13.3	13.3	13.3	24	24	0	0	13.3	5223	5.223	0	0	5041	5.041
18/04/2018	0	13.4	13.4	13.4	13.4	24	24	0.2	0.2	13.4	5256	5.256	251	0.251	5381	5.381
19/04/2018	0	12	12	12	12	24	24	0	0	12	4674	4.674	0	0	5013	5.013
20/04/2018	0	13.6	13.6	13.6	13.6	24	24	0.2	0.2	13.6	5310	5.31	252	0.252	4962	4.962
21/04/2018	0	11.7	11.7	11.7	11.7	24	24	0	0	11.7	4592	4.592	22	0.022	4723	4.723
22/04/2018	0.1	12.1	12.2	12.2	12.2	23.6	23.6	0.2	0.1	12.3	4822	4.822	230	0.23	4966	4.966
23/04/2018	0	13.9	13.9	13.9	13.9	24	24	0.2	0.2	13.9	5460	5.46	253	0.253	5190	5.19
24/04/2018	0	11.3	11.3	11.3	11.3	24	24	0	0	11.3	4434	4.434	0	0	4490	4.49
25/04/2018	0	13.1	13	13	13	24	24	0.2	0.2	13	5129	5.129	252	0.252	5080	5.08
26/04/2018	0	13.2	13.2	13.2	13.2	24	24	0.2	0.2	13.2	5213	5.213	253	0.253	5330	5.33
27/04/2018	0	11.8	11.8	11.8	11.8	24	24	0	0	11.8	4639	4.639	0	0	4710	4.71
28/04/2018	0	12.3	12.3	12.3	12.3	24	24	0.2	0.3	12.3	4856	4.856	315	0.315	4584	4.584
29/04/2018	0	13.8	13.8	13.8	13.8	24	24	0	0	13.8	5424	5.424	0	0	5102	5.102
30/04/2018	0	13.5	13.4	13.4	13.4	24	24	0.2	0.2	13.4	5288	5.288	252	0.252	5243	5.243
01/05/2018	0	11.6	11.6	11.6	11.6	24	24	0.2	0.2	11.6	4551	4.551	252	0.252	4797	4.797
02/05/2018	0	13.8	13.8	13.8	13.8	24	24	0.2	0.2	13.8	5453	5.453	252	0.252	5357	5.357
03/05/2018	0	12.3	12.2	12.2	12.2	24	24	0	0	12.2	4821	4.821	0	0	5044	5.044
04/05/2018	0	13.8	13.8	13.8	13.8	24	24	0.2	0.2	13.8	5435	5.435	253	0.253	4924	4.924
05/05/2018	0	13.1	13.1	13.1	13.1	24	24	0.2	0.2	13.1	5163	5.163	252	0.252	4622	4.622
06/05/2018	0	13.3	13.2	13.2	13.2	24	24	0.2	0.2	13.2	5221	5.221	253	0.253	4958	4.958
07/05/2018	0	15.2	15.1	15.1	15.1	24	24	0.2	0.2	15.1	5970	5.97	253	0.253	5447	5.447
08/05/2018	0	11.1	11.1	11.1	11.1	24	24	0	0	11.1	4340	4.34	0	0	4740	4.74
09/05/2018	0	13.4	13.4	13.4	13.4	24	24	0.2	0.2	13.4	5295	5.295	252	0.252	5181	5.181

10/05/2018	0	11.3	11.3	11.3	11.3	24	24	0.2	0.2	11.3	4466	4.466	253	0.253	4907	4.907
11/05/2018	0	7.9	7.8	7.8	7.8	24	24	0	0	7.8	3097	3.097	0	0	4455	4.455
12/05/2018	0	13.7	13.7	13.7	13.7	24	24	0.2	0.2	13.7	5403	5.403	251	0.251	3862	3.862
13/05/2018	0	10.7	10.7	10.7	10.7	24	24	0.2	0.2	10.7	4216	4.216	252	0.252	4463	4.463
14/05/2018	0	11.9	11.9	11.9	11.9	24	24	0	0	11.9	4692	4.692	0	0	4589	4.589
15/05/2018	0	12.6	12.6	12.6	12.6	24	24	0.2	0.2	12.6	4997	4.997	252	0.252	4527	4.527
16/05/2018	0	12.7	12.6	12.6	12.6	24	24	0.3	0.2	12.6	5021	5.021	315	0.315	4620	4.62
17/05/2018	0	12.5	12.5	12.5	12.5	24	24	0.2	0.2	12.5	4954	4.954	252	0.252	4521	4.521
18/05/2018	0	9.1	9.1	9.1	9.1	24	24	0	0	9.1	3604	3.604	0	0	4465	4.465
19/05/2018	0	11.1	11.1	11.1	11.1	24	24	0.2	0.2	11.1	4401	4.401	252	0.252	3901	3.901
20/05/2018	0	10.3	10.3	10.3	10.3	24	24	0	0	10.3	4071	4.071	0	0	4172	4.172
21/05/2018	0	9.9	9.8	9.8	9.8	24	24	0	0	9.8	3904	3.904	0	0	4392	4.392
22/05/2018	0	11.8	11.8	11.8	11.8	24	24	0.4	0.1	11.8	4673	4.673	389	0.389	4245	4.245
23/05/2018	0	13.7	13.7	13.7	13.7	24	24	0.3	0.3	13.7	5459	5.459	379	0.379	4542	4.542
24/05/2018	0	9	9	9	9	24	24	0	0	9	3583	3.583	0	0	4179	4.179
25/05/2018	0	12.2	12.1	12.1	12.1	24	24	0.1	0.2	12.1	4826	4.826	189	0.189	4452	4.452
26/05/2018	0	10.4	10.4	10.4	10.4	24	24	0.2	0.1	10.4	4115	4.115	189	0.189	4157	4.157
27/05/2018	0	11.2	11.2	11.2	11.2	22.2	22.2	0	0.1	11.2	4442	4.442	63	0.063	4457	4.457
28/05/2018	0	10	10	10	10	24	24	0.1	0.1	10	3982	3.982	126	0.126	4832	4.832
29/05/2018	0	13	13	13	13	24	24	0.2	0.1	13	5164	5.164	190	0.19	4046	4.046
30/05/2018	0	9.2	9.2	9.2	9.2	24	24	0	0	9.2	3651	3.651	0	0	4209	4.209
31/05/2018	2.6	8.9	11.5	11.5	11.5	24	24	0.1	0.2	11.5	4545	4.545	189	0.189	3749	3.749
01/06/2018	0	9.6	9.6	9.6	9.6	24	24	0.2	0.1	9.6	3821	3.821	189	0.189	3898	3.898
02/06/2018	0	8.8	8.8	8.8	8.8	24	24	0	0	8.8	3471	3.471	0	0	3840	3.84
03/06/2018	0	11	11.1	11.1	11.1	24	24	0.1	0.2	11.1	4393	4.393	190	0.19	3868	3.868
04/06/2018	0	9.5	9.5	9.5	9.5	24	24	0.2	0.1	9.5	3819	3.819	189	0.189	3834	3.834
05/06/2018	0	10.3	10.3	10.3	10.3	24	24	0.1	0.2	10.3	4091	4.091	190	0.19	3559	3.559
06/06/2018	4.9	4	9	9	9	24	24	0.1	0.1	9	3581	3.581	125	0.125	4067	4.067
07/06/2018	0	11.2	11.2	11.2	11.2	24	24	0.2	0.1	11.2	4447	4.447	190	0.19	4108	4.108

08/06/2018	0	11.1	11.1	11.1	11.1	24	24	0	0	11.1	4420	4.42	0	0	4256	4.256
09/06/2018	0	9.9	9.9	9.9	9.9	24	24	0.1	0.2	9.9	3978	3.978	190	0.19	4195	4.195
10/06/2018	0	9.3	9.3	9.3	9.3	24	24	0	0	9.3	3719	3.719	0	0	4091	4.091
11/06/2018	0	10.8	10.8	10.8	10.8	24	24	0.2	0.1	10.8	4291	4.291	189	0.189	4227	4.227
12/06/2018	3.8	7.4	11.2	11.2	11.2	24	24	0	0	11.2	4451	4.451	0	0	4468	4.468
13/06/2018	0	7.5	7.5	7.5	7.5	24	24	0	0	7.5	2991	2.991	0	0	3180	3.18
14/06/2018	0	7.6	7.6	7.6	7.6	24	24	0.1	0.2	7.6	3123	3.123	188	0.188	2863	2.863
15/06/2018	0	6.1	6.1	6.1	6.1	24	24	0	0	6.1	2449	2.449	0	0	3156	3.156
16/06/2018	0	8.5	8.5	8.5	8.5	24	24	0	0	8.5	3382	3.382	0	0	3040	3.04
17/06/2018	0	9.8	9.9	9.9	9.9	24	24	0.2	0.1	9.9	3925	3.925	189	0.189	3249	3.249
18/06/2018	0	8.5	8.6	8.6	8.6	24	24	0	0	8.7	3441	3.441	0	0	3456	3.456
19/06/2018	0	9.5	9.5	9.5	9.5	24	24	0	0.1	9.5	3763	3.763	63	0.063	3837	3.837
20/06/2018	0	11.1	11.1	11.1	11.1	24	24	0.1	0.1	11.1	4411	4.411	126	0.126	3553	3.553
21/06/2018	0	9.2	9.2	9.2	9.2	24	24	0	0	9.2	3668	3.668	0	0	3928	3.928
22/06/2018	0	10.2	10.2	10.2	10.2	24	24	0.2	0.1	10.2	4075	4.075	190	0.19	3903	3.903
23/06/2018	0	7.7	7.7	7.7	7.7	24	24	0	0	7.7	3100	3.1	0	0	3875	3.875
24/06/2018	0	11.3	11.2	11.2	11.2	24	24	0.1	0.2	11.2	4483	4.483	189	0.189	3933	3.933
25/06/2018	0	10.1	10.1	10.1	10.1	24	24	0.1	0.1	10.1	4039	4.039	126	0.126	3905	3.905
26/06/2018	0	9.8	9.8	9.8	9.8	24	24	0.1	0	9.8	3893	3.893	64	0.064	3909	3.909
27/06/2018	0	11.4	11.4	11.4	11.4	24	24	0.1	0.2	11.4	4538	4.538	189	0.189	3900	3.9
28/06/2018	0	10.1	10.1	10.1	10.1	24	24	0	0	10.2	4063	4.063	0	0	3903	3.903
29/06/2018	0	9.4	9.4	9.4	9.4	24	24	0.2	0.1	9.4	3777	3.777	189	0.189	3941	3.941
30/06/2018	0	7.9	7.9	7.9	7.9	24	24	0	0	7.9	3140	3.14	0	0	3786	3.786
<b>TOTALS:</b>	<b>1396</b>	<b>3431</b>	<b>4776</b>	<b>4655</b>	<b>4776</b>	<b>8531</b>	<b>8706</b>	<b>46</b>	<b>44</b>	<b>4562</b>	<b>1820663</b>	<b>1820.7</b>	<b>57265.0</b>	<b>57.3</b>	<b>1767763.0</b>	<b>1767.8</b>

**LOSS:**  
(Raw Water - Plant Outlet - Back Wash Total)

<b>LOSS:</b>	<b>52900 KL</b>
<b>4365 KL</b>	<b>4.365 ML</b>

## 2017-18 Sewer Treatment Plant Consumption Data - Longreach

N/A	PS1 PUMP 1 RUNTIME (HOURS)	PS1 PUMP 2 RUNTIME (HOURS)	PS1 TOTAL FLOW (KL)	PS1 TOTAL FLOW (ML)	PS1 OVERFLOW EVENTS	PS2 TOTAL FLOW (LITERS)	PS2 TOTAL FLOW (ML)	PS2 OVERFLOW EVENTS	PS3 TOTAL FLOW (LITERS)	PS3 TOTAL FLOW (ML)	PS3 OVERFLOW EVENTS	PS4 TOTAL FLOW (LITERS)	PS4 TOTAL FLOW (ML)	PS4 OVERFLOW EVENTS
01/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
02/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
03/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
04/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
05/07/2017	1.05	1.60	58.80	0.06	0.00	13.96	0.01	0.00	0.30	0.00	0.00	5.92	0.01	0.00
06/07/2017	1.05	1.60	91.10	0.09	0.00	23.27	0.02	0.00	23.27	0.02	0.00	10.25	0.01	0.00
07/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
08/07/2017	1.05	1.60	91.10	0.09	0.00	23.27	0.02	0.00	23.27	0.02	0.00	10.25	0.01	0.00
09/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
10/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
11/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
12/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
13/07/2017	1.05	1.60	149.90	0.15	0.00	37.23	0.04	0.00	23.57	0.02	0.00	16.17	0.02	0.00
14/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
15/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
16/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
17/07/2017	1.05	1.60	91.10	0.09	0.00	23.27	0.02	0.00	23.27	0.02	0.00	10.25	0.01	0.00
18/07/2017	1.05	1.60	696.02	0.70	0.00	18.63	0.02	0.00	9.05	0.01	0.00	12.32	0.01	0.00
19/07/2017	1.05	1.60	182.19	0.18	0.00	46.54	0.05	0.00	46.54	0.05	0.00	20.51	0.02	0.00
20/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
21/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
22/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
23/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
24/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
25/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
26/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00

27/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
28/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
29/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
30/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
31/07/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
01/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
02/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
03/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
04/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
05/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
06/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
07/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
08/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
09/08/2017	1.05	1.60	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
10/08/2017	1.05	1.60	149.90	0.15	0.00	55.86	0.06	0.00	46.84	0.05	0.00	26.42	0.03	0.00
11/08/2017	0.28	2.28	360.89	0.36	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.40	0.01	0.00
12/08/2017	0.00	2.32	730.30	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.18	0.02	0.00
13/08/2017	0.00	2.35	799.57	0.80	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.51	0.01	0.00
14/08/2017	0.97	1.23	728.53	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.41	0.02	0.00
15/08/2017	2.52	0.00	731.14	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.13	0.02	0.00
16/08/2017	2.40	0.00	728.85	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.39	0.02	0.00
17/08/2017	2.52	0.00	798.78	0.80	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.35	0.01	0.00
18/08/2017	2.22	0.00	748.03	0.75	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.69	0.02	0.00
19/08/2017	2.32	0.00	687.92	0.69	0.00	182.70	0.18	0.00	9.05	0.01	0.00	14.71	0.01	0.00
20/08/2017	2.30	0.00	698.46	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	9.68	0.01	0.00
21/08/2017	2.63	0.00	801.59	0.80	0.00	182.70	0.18	0.00	0.01	0.00	0.00	8.14	0.01	0.00
22/08/2017	2.35	0.00	818.61	0.82	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.76	0.02	0.00
23/08/2017	2.37	0.00	697.59	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.23	0.01	0.00
24/08/2017	2.43	0.00	688.63	0.69	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.24	0.01	0.00
25/08/2017	2.43	0.00	553.38	0.55	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.11	0.01	0.00

26/08/2017	2.50	0.00	336.14	0.34	0.00	23.27	0.02	0.00	23.27	0.02	0.00	8.13	0.01	0.00
27/08/2017	2.65	0.00	802.21	0.80	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.17	0.01	0.00
28/08/2017	2.58	0.00	731.78	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.55	0.01	0.00
29/08/2017	2.55	0.00	797.90	0.80	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.17	0.02	0.00
30/08/2017	2.35	0.00	730.64	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	15.88	0.02	0.00
31/08/2017	2.40	0.00	729.06	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	9.08	0.01	0.00
01/09/2017	2.42	0.00	727.04	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.10	0.02	0.00
02/09/2017	2.22	0.00	728.88	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.29	0.00	0.00
03/09/2017	2.47	0.00	730.66	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.12	0.01	0.00
04/09/2017	2.50	0.00	778.77	0.78	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.55	0.02	0.00
05/09/2017	2.42	0.00	720.17	0.72	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.30	0.02	0.00
06/09/2017	2.35	0.00	758.59	0.76	0.00	182.70	0.18	0.00	9.05	0.01	0.00	24.31	0.02	0.00
07/09/2017	2.50	0.00	730.86	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.51	0.02	0.00
08/09/2017	2.35	0.00	727.81	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.54	0.01	0.00
09/09/2017	2.52	0.00	730.82	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.10	0.02	0.00
10/09/2017	2.50	0.00	789.33	0.79	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.28	0.01	0.00
11/09/2017	2.43	0.00	739.85	0.74	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.37	0.01	0.00
12/09/2017	2.28	0.00	665.03	0.67	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.40	0.01	0.00
13/09/2017	2.35	0.00	719.87	0.72	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.16	0.02	0.00
14/09/2017	2.30	0.00	782.86	0.78	0.00	182.70	0.18	0.00	0.31	0.00	0.00	12.35	0.01	0.00
15/09/2017	2.23	0.00	725.97	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.08	0.02	0.00
16/09/2017	2.43	0.00	729.68	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.32	0.00	0.00
17/09/2017	2.60	0.00	821.02	0.82	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.35	0.02	0.00
18/09/2017	2.40	0.00	730.11	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.20	0.01	0.00
19/09/2017	2.48	0.00	798.59	0.80	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.43	0.01	0.00
20/09/2017	2.43	0.00	911.30	0.91	0.00	46.54	0.05	0.00	46.54	0.05	0.00	36.87	0.04	0.00
21/09/2017	2.47	0.00	673.52	0.67	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.33	0.02	0.00
22/09/2017	2.57	0.00	856.28	0.86	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.33	0.01	0.00
23/09/2017	2.57	0.00	315.14	0.32	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.15	0.01	0.00
24/09/2017	2.57	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00

25/09/2017	2.57	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
26/09/2017	2.57	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
27/09/2017	2.57	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
28/09/2017	2.57	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
29/09/2017	1.55	3.22	1381.53	1.38	0.00	23.27	0.02	0.00	23.27	0.02	0.00	26.61	0.03	0.00
30/09/2017	0.00	2.38	784.33	0.78	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.17	0.01	0.00
01/10/2017	0.00	2.28	674.87	0.67	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.46	0.01	0.00
02/10/2017	0.00	2.32	799.23	0.80	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.20	0.01	0.00
03/10/2017	0.00	2.07	675.55	0.68	0.00	182.70	0.18	0.00	9.05	0.01	0.00	15.99	0.02	0.00
04/10/2017	0.00	2.17	709.94	0.71	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.32	0.01	0.00
05/10/2017	0.00	2.27	782.41	0.78	0.00	23.27	0.02	0.00	9.05	0.01	0.00	8.46	0.01	0.00
06/10/2017	0.00	2.10	621.78	0.62	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.15	0.02	0.00
07/10/2017	0.00	2.18	745.65	0.75	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.22	0.01	0.00
08/10/2017	0.00	2.30	783.35	0.78	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.14	0.01	0.00
09/10/2017	0.00	2.32	819.69	0.82	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.70	0.02	0.00
10/10/2017	0.00	2.30	727.70	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.14	0.01	0.00
11/10/2017	0.00	1.72	657.76	0.66	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.26	0.01	0.00
12/10/2017	0.00	1.72	675.48	0.68	0.00	9.32	0.01	0.00	0.31	0.00	0.00	16.22	0.02	0.00
13/10/2017	0.00	2.22	728.64	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.33	0.01	0.00
14/10/2017	0.00	2.32	799.83	0.80	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.10	0.01	0.00
15/10/2017	0.98	1.93	891.12	0.89	0.00	46.54	0.05	0.00	46.55	0.05	0.00	28.61	0.03	0.00
16/10/2017	0.00	2.20	729.28	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.42	0.00	0.00
17/10/2017	0.00	2.10	658.68	0.66	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.09	0.01	0.00
18/10/2017	0.00	2.10	596.66	0.60	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.39	0.02	0.00
19/10/2017	0.00	2.10	696.02	0.70	0.00	23.27	0.02	0.00	23.27	0.02	0.00	10.25	0.01	0.00
20/10/2017	0.00	2.10	267.88	0.27	0.00	27.97	0.03	0.00	0.94	0.00	0.00	18.05	0.02	0.00
21/10/2017	0.78	1.92	748.19	0.75	0.00	182.70	0.18	0.00	9.05	0.01	0.00	14.56	0.01	0.00
22/10/2017	0.00	2.37	822.27	0.82	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.38	0.02	0.00
23/10/2017	0.00	2.05	725.99	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.24	0.01	0.00
24/10/2017	0.00	2.08	749.21	0.75	0.00	23.27	0.02	0.00	23.27	0.02	0.00	26.59	0.03	0.00

25/10/2017	0.00	2.08	298.91	0.30	0.00	46.54	0.05	0.00	46.54	0.05	0.00	20.61	0.02	0.00
26/10/2017	1.52	0.80	458.68	0.46	0.00	46.54	0.05	0.00	46.54	0.05	0.00	24.57	0.02	0.00
27/10/2017	1.52	0.80	158.48	0.16	0.00	182.70	0.18	0.00	9.05	0.01	0.00	7.07	0.01	0.00
28/10/2017	0.75	1.55	658.23	0.66	0.00	23.27	0.02	0.00	23.27	0.02	0.00	27.72	0.03	0.00
29/10/2017	0.00	1.87	794.00	0.79	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.13	0.01	0.00
30/10/2017	0.00	2.22	818.67	0.82	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.71	0.02	0.00
31/10/2017	0.00	2.12	657.70	0.66	0.00	182.70	0.18	0.00	9.05	0.01	0.00	15.97	0.02	0.00
01/11/2017	0.00	2.22	727.69	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.25	0.01	0.00
02/11/2017	0.00	2.28	658.07	0.66	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.21	0.01	0.00
03/11/2017	0.00	2.22	794.51	0.79	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.52	0.02	0.00
04/11/2017	0.00	2.03	680.78	0.68	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.41	0.00	0.00
05/11/2017	0.00	2.12	728.15	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	7.97	0.01	0.00
06/11/2017	0.00	2.25	728.55	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.31	0.02	0.00
07/11/2017	0.00	2.15	727.88	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.21	0.01	0.00
08/11/2017	0.00	1.73	693.57	0.69	0.00	182.70	0.18	0.00	9.05	0.01	0.00	9.35	0.01	0.00
09/11/2017	0.08	1.95	697.08	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	15.20	0.02	0.00
10/11/2017	0.00	2.10	721.52	0.72	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.34	0.01	0.00
11/11/2017	0.00	2.03	729.84	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.31	0.00	0.00
12/11/2017	0.00	2.25	731.62	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.06	0.02	0.00
13/11/2017	0.00	2.13	819.44	0.82	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.54	0.02	0.00
14/11/2017	0.00	2.07	727.06	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.39	0.01	0.00
15/11/2017	0.00	2.40	729.72	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.36	0.01	0.00
16/11/2017	0.00	2.15	730.17	0.73	0.00	9.32	0.01	0.00	0.31	0.00	0.00	8.21	0.01	0.00
17/11/2017	0.00	2.02	727.38	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.09	0.01	0.00
18/11/2017	0.00	2.15	786.91	0.79	0.00	182.70	0.18	0.00	9.05	0.01	0.00	16.25	0.02	0.00
19/11/2017	0.00	2.33	833.94	0.83	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.30	0.00	0.00
20/11/2017	0.00	2.22	730.22	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.18	0.01	0.00
21/11/2017	0.00	2.57	872.68	0.87	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.21	0.01	0.00
22/11/2017	0.00	2.22	820.64	0.82	0.00	46.54	0.05	0.00	46.54	0.05	0.00	28.81	0.03	0.00
23/11/2017	0.00	2.20	799.31	0.80	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.42	0.02	0.00

24/11/2017	0.00	2.27	677.17	0.68	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.06	0.01	0.00
25/11/2017	0.00	2.47	728.62	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.19	0.00	0.00
26/11/2017	0.00	2.35	737.00	0.74	0.00	182.70	0.18	0.00	9.05	0.01	0.00	7.95	0.01	0.00
27/11/2017	0.00	2.27	720.45	0.72	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.16	0.01	0.00
28/11/2017	0.00	2.25	910.50	0.91	0.00	46.54	0.05	0.00	46.54	0.05	0.00	28.58	0.03	0.00
29/11/2017	0.00	2.32	729.71	0.73	0.00	182.70	0.18	0.00	9.05	0.01	0.00	0.31	0.00	0.00
30/11/2017	0.00	2.33	819.02	0.82	0.00	23.27	0.02	0.00	23.27	0.02	0.00	18.44	0.02	0.00
01/12/2017	0.00	2.40	712.99	0.71	0.00	182.70	0.18	0.00	9.05	0.01	0.00	8.16	0.01	0.00
02/12/2017	0.00	2.53	928.48	0.93	0.00	139.79	0.14	0.00	46.54	0.05	0.00	20.70	0.02	0.00
03/12/2017	0.00	2.22	732.45	0.73	0.00	191.56	0.19	0.00	9.05	0.01	0.00	7.93	0.01	0.00
04/12/2017	0.00	2.07	723.97	0.72	0.00	180.34	0.18	0.00	9.05	0.01	0.00	16.74	0.02	0.00
05/12/2017	0.00	2.42	727.29	0.73	0.00	204.57	0.20	0.00	9.05	0.01	0.00	8.07	0.01	0.00
06/12/2017	0.00	2.13	657.33	0.66	0.00	186.20	0.19	0.00	9.05	0.01	0.00	8.23	0.01	0.00
07/12/2017	0.00	2.13	656.75	0.66	0.00	168.73	0.17	0.00	9.05	0.01	0.00	8.09	0.01	0.00
08/12/2017	0.00	2.27	656.69	0.66	0.00	185.13	0.19	0.00	9.05	0.01	0.00	8.12	0.01	0.00
09/12/2017	0.00	2.43	818.50	0.82	0.00	209.09	0.21	0.00	23.27	0.02	0.00	18.40	0.02	0.00
10/12/2017	0.00	2.52	857.45	0.86	0.00	186.58	0.19	0.00	46.54	0.05	0.00	20.91	0.02	0.00
11/12/2017	0.00	2.18	782.63	0.78	0.00	208.98	0.21	0.00	23.28	0.02	0.00	18.30	0.02	0.00
12/12/2017	0.00	2.37	727.17	0.73	0.00	168.05	0.17	0.00	9.05	0.01	0.00	8.03	0.01	0.00
13/12/2017	0.00	2.12	721.28	0.72	0.00	205.06	0.21	0.00	9.05	0.01	0.00	0.39	0.00	0.00
14/12/2017	0.00	2.05	701.82	0.70	0.00	208.62	0.21	0.00	0.32	0.00	0.00	10.22	0.01	0.00
15/12/2017	0.00	2.22	655.38	0.66	0.00	167.86	0.17	0.00	9.05	0.01	0.00	7.95	0.01	0.00
16/12/2017	0.00	2.27	656.67	0.66	0.00	185.64	0.19	0.00	9.05	0.01	0.00	0.18	0.00	0.00
17/12/2017	0.00	0.00	660.14	0.66	0.00	186.34	0.19	0.00	9.05	0.01	0.00	7.92	0.01	0.00
18/12/2017	0.00	2.13	785.87	0.79	0.00	214.62	0.21	0.00	46.54	0.05	0.00	20.76	0.02	0.00
19/12/2017	0.25	1.88	685.74	0.69	0.00	191.02	0.19	0.00	23.27	0.02	0.00	18.21	0.02	0.00
20/12/2017	0.00	2.07	656.65	0.66	0.00	193.22	0.19	0.00	9.05	0.01	0.00	0.17	0.00	0.00
21/12/2017	0.00	2.27	655.80	0.66	0.00	189.30	0.19	0.00	9.05	0.01	0.00	0.26	0.00	0.00
22/12/2017	0.00	2.13	656.20	0.66	0.00	193.77	0.19	0.00	9.05	0.01	0.00	8.07	0.01	0.00
23/12/2017	0.00	1.90	625.83	0.63	0.00	181.18	0.18	0.00	9.05	0.01	0.00	7.95	0.01	0.00

24/12/2017	0.00	1.77	611.50	0.61	0.00	178.71	0.18	0.00	9.05	0.01	0.00	0.31	0.00	0.00
25/12/2017	0.82	0.90	509.64	0.51	0.00	143.51	0.14	0.00	9.05	0.01	0.00	7.99	0.01	0.00
26/12/2017	1.30	0.53	582.83	0.58	0.00	185.26	0.19	0.00	9.05	0.01	0.00	0.30	0.00	0.00
27/12/2017	0.43	1.45	514.00	0.51	0.00	167.83	0.17	0.00	9.05	0.01	0.00	8.04	0.01	0.00
28/12/2017	0.00	1.77	583.05	0.58	0.00	157.85	0.16	0.00	9.05	0.01	0.00	8.00	0.01	0.00
29/12/2017	0.00	1.85	583.01	0.58	0.00	195.67	0.20	0.00	23.27	0.02	0.00	10.57	0.01	0.00
30/12/2017	0.00	1.72	581.70	0.58	0.00	154.20	0.15	0.00	9.05	0.01	0.00	8.02	0.01	0.00
31/12/2017	0.00	1.72	582.61	0.58	0.00	167.38	0.17	0.00	9.05	0.01	0.00	8.13	0.01	0.00
01/01/2018	0.00	1.83	641.97	0.64	0.00	167.76	0.17	0.00	9.05	0.01	0.00	8.13	0.01	0.00
02/01/2018	0.00	1.97	594.84	0.59	0.00	181.03	0.18	0.00	9.05	0.01	0.00	0.24	0.00	0.00
03/01/2018	0.00	1.70	583.81	0.58	0.00	154.16	0.15	0.00	9.05	0.01	0.00	8.19	0.01	0.00
04/01/2018	0.72	1.32	584.97	0.58	0.00	185.45	0.19	0.00	9.05	0.01	0.00	8.13	0.01	0.00
05/01/2018	0.32	1.87	653.98	0.65	0.00	167.77	0.17	0.00	9.05	0.01	0.00	0.35	0.00	0.00
06/01/2018	0.00	2.08	655.65	0.66	0.00	185.94	0.19	0.00	9.05	0.01	0.00	8.17	0.01	0.00
07/01/2018	0.00	2.08	362.03	0.36	0.00	93.69	0.09	0.00	9.05	0.01	0.00	7.91	0.01	0.00
08/01/2018	0.00	1.88	724.17	0.72	0.00	167.62	0.17	0.00	23.27	0.02	0.00	18.48	0.02	0.00
09/01/2018	0.00	1.92	628.67	0.63	0.00	184.47	0.18	0.00	9.05	0.01	0.00	8.09	0.01	0.00
10/01/2018	0.00	1.92	216.80	0.22	0.00	45.39	0.05	0.00	9.05	0.01	0.00	0.14	0.00	0.00
11/01/2018	0.00	2.00	385.40	0.39	0.00	105.14	0.11	0.00	9.05	0.01	0.00	8.40	0.01	0.00
12/01/2018	0.00	2.13	654.48	0.65	0.00	186.29	0.19	0.00	9.05	0.01	0.00	8.03	0.01	0.00
13/01/2018	0.00	2.13	657.11	0.66	0.00	203.85	0.20	0.00	9.05	0.01	0.00	8.10	0.01	0.00
14/01/2018	0.00	2.25	725.94	0.73	0.00	186.87	0.19	0.00	9.05	0.01	0.00	0.17	0.00	0.00
15/01/2018	0.00	1.93	657.64	0.66	0.00	186.36	0.19	0.00	9.05	0.01	0.00	8.17	0.01	0.00
16/01/2018	0.00	2.23	656.67	0.66	0.00	186.08	0.19	0.00	9.05	0.01	0.00	8.09	0.01	0.00
17/01/2018	0.00	2.28	725.72	0.73	0.00	204.01	0.20	0.00	9.05	0.01	0.00	0.31	0.00	0.00
18/01/2018	0.00	2.18	748.99	0.75	0.00	209.69	0.21	0.00	23.27	0.02	0.00	18.19	0.02	0.00
19/01/2018	0.00	2.33	666.63	0.67	0.00	186.56	0.19	0.00	9.05	0.01	0.00	0.23	0.00	0.00
20/01/2018	0.00	2.52	718.57	0.72	0.00	204.44	0.20	0.00	9.05	0.01	0.00	0.13	0.00	0.00
21/01/2018	0.00	2.67	744.10	0.74	0.00	217.96	0.22	0.00	9.05	0.01	0.00	7.93	0.01	0.00
22/01/2018	0.00	2.25	713.96	0.71	0.00	192.03	0.19	0.00	9.05	0.01	0.00	8.01	0.01	0.00

23/01/2018	0.00	2.42	727.17	0.73	0.00	204.06	0.20	0.00	9.05	0.01	0.00	8.48	0.01	0.00
24/01/2018	0.00	2.38	728.04	0.73	0.00	186.43	0.19	0.00	9.05	0.01	0.00	8.25	0.01	0.00
25/01/2018	0.00	2.42	704.89	0.70	0.00	219.38	0.22	0.00	9.05	0.01	0.00	8.25	0.01	0.00
26/01/2018	0.00	2.25	752.65	0.75	0.00	227.29	0.23	0.00	9.05	0.01	0.00	8.24	0.01	0.00
27/01/2018	0.00	2.13	727.79	0.73	0.00	205.09	0.21	0.00	9.05	0.01	0.00	8.24	0.01	0.00
28/01/2018	0.00	2.45	659.22	0.66	0.00	204.67	0.20	0.00	9.05	0.01	0.00	8.08	0.01	0.00
29/01/2018	0.00	1.85	728.45	0.73	0.00	204.40	0.20	0.00	9.05	0.01	0.00	32.69	0.03	0.00
30/01/2018	0.00	1.85	575.98	0.58	0.00	149.23	0.15	0.00	9.05	0.01	0.00	8.09	0.01	0.00
31/01/2018	0.00	1.83	679.18	0.68	0.00	195.38	0.20	0.00	9.05	0.01	0.00	8.24	0.01	0.00
01/02/2018	0.00	2.05	675.09	0.68	0.00	204.31	0.20	0.00	9.05	0.01	0.00	8.47	0.01	0.00
02/02/2018	0.00	2.60	729.84	0.73	0.00	112.33	0.11	0.00	9.05	0.01	0.00	16.19	0.02	0.00
03/02/2018	1.85	3.85	1527.12	1.53	0.00	259.95	0.26	0.00	9.05	0.01	0.00	32.73	0.03	0.00
04/02/2018	0.00	2.73	803.58	0.80	0.00	223.28	0.22	0.00	9.05	0.01	0.00	12.32	0.01	0.00
05/02/2018	0.00	2.20	729.97	0.73	0.00	205.53	0.21	0.00	9.05	0.01	0.00	12.32	0.01	0.00
06/02/2018	0.00	2.27	729.48	0.73	0.00	222.86	0.22	0.00	9.05	0.01	0.00	12.32	0.01	0.00
07/02/2018	0.00	2.40	728.61	0.73	0.00	205.51	0.21	0.00	9.05	0.01	0.00	12.32	0.01	0.00
08/02/2018	1.85	0.38	727.54	0.73	0.00	222.80	0.22	0.00	9.05	0.01	0.00	12.32	0.01	0.00
09/02/2018	1.85	0.38	508.40	0.51	0.00	148.67	0.15	0.00	9.05	0.01	0.00	12.32	0.01	0.00
10/02/2018	2.35	0.00	103.08	0.10	0.00	20.35	0.02	0.00	9.05	0.01	0.00	12.70	0.01	0.00
11/02/2018	2.50	0.00	372.12	0.37	0.00	106.69	0.11	0.00	9.05	0.01	0.00	11.98	0.01	0.00
12/02/2018	2.47	0.00	273.27	0.27	0.00	101.84	0.10	0.00	9.05	0.01	0.00	18.54	0.02	0.00
13/02/2018	2.47	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
14/02/2018	2.35	0.00	763.11	0.76	0.00	204.32	0.20	0.00	9.05	0.01	0.00	41.08	0.04	0.00
15/02/2018	2.35	0.00	366.34	0.37	0.00	112.06	0.11	0.00	9.05	0.01	0.00	8.30	0.01	0.00
16/02/2018	2.27	0.00	365.06	0.37	0.00	111.70	0.11	0.00	9.05	0.01	0.00	24.48	0.02	0.00
17/02/2018	2.27	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
18/02/2018	2.27	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
19/02/2018	2.27	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
20/02/2018	2.27	0.00	182.19	0.18	0.00	46.54	0.05	0.00	46.54	0.05	0.00	20.51	0.02	0.00
21/02/2018	1.42	0.00	264.55	0.26	0.00	55.12	0.06	0.00	23.27	0.02	0.00	8.33	0.01	0.00

22/02/2018	1.42	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
23/02/2018	1.42	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
24/02/2018	1.42	0.00	91.10	0.09	0.00	23.27	0.02	0.00	23.27	0.02	0.00	10.25	0.01	0.00
25/02/2018	0.20	2.88	391.83	0.39	0.00	84.18	0.08	0.00	9.05	0.01	0.00	22.58	0.02	0.00
26/02/2018	0.00	2.43	924.75	0.92	0.00	265.46	0.27	0.00	23.27	0.02	0.00	34.69	0.03	0.00
27/02/2018	0.00	2.43	332.87	0.33	0.00	124.61	0.12	0.00	9.05	0.01	0.00	8.43	0.01	0.00
28/02/2018	0.00	2.33	528.19	0.53	0.00	154.88	0.15	0.00	46.54	0.05	0.00	35.03	0.04	0.00
01/03/2018	0.00	2.33	498.27	0.50	0.00	167.37	0.17	0.00	9.05	0.01	0.00	16.20	0.02	0.00
02/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
03/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
04/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
05/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
06/03/2018	0.00	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
07/03/2018	0.00	2.33	154.79	0.15	0.00	46.54	0.05	0.00	46.54	0.05	0.00	20.51	0.02	0.00
08/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
09/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
10/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
11/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
12/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
13/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
14/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
15/03/2018	0.00	2.33	63.70	0.06	0.00	9.44	0.01	0.00	0.32	0.00	0.00	7.98	0.01	0.00
16/03/2018	0.00	2.33	91.10	0.09	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
17/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
18/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
19/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
20/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
21/03/2018	0.00	2.33	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
22/03/2018	0.00	2.33	91.10	0.09	0.00	46.54	0.05	0.00	46.54	0.05	0.00	20.51	0.02	0.00
23/03/2018	2.43	0.00	193.36	0.19	0.00	50.77	0.05	0.00	23.27	0.02	0.00	18.53	0.02	0.00

24/03/2018	2.43	0.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
25/03/2018	0.12	2.47	347.08	0.35	0.00	96.55	0.10	0.00	9.05	0.01	0.00	30.94	0.03	0.00
26/03/2018	0.12	2.47	508.32	0.51	0.00	146.57	0.15	0.00	23.27	0.02	0.00	51.03	0.05	0.00
27/03/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
28/03/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
29/03/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
30/03/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
31/03/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
01/04/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
02/04/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
03/04/2018	0.12	2.47	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
04/04/2018	0.97	1.25	510.77	0.51	0.00	120.41	0.12	0.00	23.27	0.02	0.00	22.85	0.02	0.00
05/04/2018	1.03	1.33	799.47	0.80	0.00	199.86	0.20	0.00	9.05	0.01	0.00	24.59	0.02	0.00
06/04/2018	1.00	1.13	729.64	0.73	0.00	204.26	0.20	0.00	9.05	0.01	0.00	24.72	0.02	0.00
07/04/2018	1.05	1.15	731.44	0.73	0.00	204.84	0.20	0.00	9.05	0.01	0.00	24.35	0.02	0.00
08/04/2018	1.00	1.30	709.80	0.71	0.00	181.70	0.18	0.00	23.27	0.02	0.00	34.89	0.03	0.00
09/04/2018	1.00	1.30	656.76	0.66	0.00	171.20	0.17	0.00	9.05	0.01	0.00	24.82	0.02	0.00
10/04/2018	0.25	1.90	507.08	0.51	0.00	196.05	0.20	0.00	9.05	0.01	0.00	24.40	0.02	0.00
11/04/2018	1.13	1.12	731.15	0.73	0.00	186.85	0.19	0.00	9.05	0.01	0.00	24.83	0.02	0.00
12/04/2018	1.25	1.13	803.10	0.80	0.00	223.04	0.22	0.00	0.32	0.00	0.00	32.88	0.03	0.00
13/04/2018	0.90	1.37	728.95	0.73	0.00	204.76	0.20	0.00	9.05	0.01	0.00	8.52	0.01	0.00
14/04/2018	1.47	1.00	801.99	0.80	0.00	205.08	0.21	0.00	9.05	0.01	0.00	32.43	0.03	0.00
15/04/2018	1.22	1.00	813.34	0.81	0.00	222.83	0.22	0.00	9.05	0.01	0.00	26.72	0.03	0.00
16/04/2018	1.27	1.10	698.59	0.70	0.00	163.48	0.16	0.00	9.05	0.01	0.00	43.33	0.04	0.00
17/04/2018	1.02	1.33	802.48	0.80	0.00	204.35	0.20	0.00	9.05	0.01	0.00	32.63	0.03	0.00
18/04/2018	0.87	1.58	871.94	0.87	0.00	204.47	0.20	0.00	9.05	0.01	0.00	32.88	0.03	0.00
19/04/2018	1.33	1.00	822.29	0.82	0.00	209.70	0.21	0.00	23.27	0.02	0.00	34.98	0.03	0.00
20/04/2018	1.35	1.05	820.43	0.82	0.00	209.24	0.21	0.00	23.27	0.02	0.00	26.65	0.03	0.00
21/04/2018	1.48	1.03	799.83	0.80	0.00	204.56	0.20	0.00	9.05	0.01	0.00	16.30	0.02	0.00
22/04/2018	1.48	1.03	528.67	0.53	0.00	131.77	0.13	0.00	23.27	0.02	0.00	10.67	0.01	0.00

23/04/2018	1.28	1.25	511.48	0.51	0.00	110.76	0.11	0.00	9.05	0.01	0.00	16.38	0.02	0.00
24/04/2018	1.25	1.02	635.17	0.64	0.00	185.81	0.19	0.00	9.05	0.01	0.00	16.39	0.02	0.00
25/04/2018	1.20	1.00	800.97	0.80	0.00	223.37	0.22	0.00	9.05	0.01	0.00	14.38	0.01	0.00
26/04/2018	1.20	1.00	438.67	0.44	0.00	130.54	0.13	0.00	9.05	0.01	0.00	10.28	0.01	0.00
27/04/2018	1.20	1.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
28/04/2018	1.20	1.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
29/04/2018	1.20	1.00	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
30/04/2018	1.30	1.05	490.18	0.49	0.00	164.43	0.16	0.00	9.05	0.01	0.00	32.47	0.03	0.00
01/05/2018	1.30	1.05	477.28	0.48	0.00	155.73	0.16	0.00	9.05	0.01	0.00	24.98	0.02	0.00
02/05/2018	1.02	1.30	37.54	0.04	0.00	5.03	0.01	0.00	9.05	0.01	0.00	7.46	0.01	0.00
03/05/2018	1.27	1.02	245.31	0.25	0.00	70.33	0.07	0.00	9.05	0.01	0.00	10.94	0.01	0.00
04/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
05/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
06/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
07/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
08/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
09/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
10/05/2018	1.27	1.02	30.87	0.03	0.00	23.08	0.02	0.00	0.32	0.00	0.00	6.07	0.01	0.00
11/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
12/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
13/05/2018	1.27	1.02	30.87	0.03	0.00	23.08	0.02	0.00	0.32	0.00	0.00	6.07	0.01	0.00
14/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
15/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
16/05/2018	1.27	1.02	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
17/05/2018	1.27	1.02	0.00	0.00	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
18/05/2018	1.27	1.02	0.00	0.00	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
19/05/2018	1.27	1.02	0.00	0.00	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
20/05/2018	1.27	1.02	0.00	0.00	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
21/05/2018	2.03	2.75	1319.03	1.32	0.00	167.84	0.17	0.00	23.27	0.02	0.00	42.81	0.04	0.00
22/05/2018	2.03	2.75	509.35	0.51	0.00	129.82	0.13	0.00	9.05	0.01	0.00	16.55	0.02	0.00

23/05/2018	1.12	1.02	655.56	0.66	0.00	172.49	0.17	0.00	9.05	0.01	0.00	43.33	0.04	0.00
24/05/2018	1.10	1.02	723.31	0.72	0.00	209.42	0.21	0.00	23.27	0.02	0.00	42.93	0.04	0.00
25/05/2018	1.05	1.02	733.25	0.73	0.00	204.45	0.20	0.00	9.05	0.01	0.00	24.44	0.02	0.00
26/05/2018	1.12	1.00	730.38	0.73	0.00	186.62	0.19	0.00	9.05	0.01	0.00	24.66	0.02	0.00
27/05/2018	1.30	1.08	802.34	0.80	0.00	221.78	0.22	0.00	23.27	0.02	0.00	51.41	0.05	0.00
28/05/2018	1.00	1.22	729.97	0.73	0.00	187.09	0.19	0.00	9.05	0.01	0.00	32.70	0.03	0.00
29/05/2018	1.00	1.22	508.68	0.51	0.00	112.38	0.11	0.00	9.05	0.01	0.00	11.72	0.01	0.00
30/05/2018	1.02	1.12	546.07	0.55	0.00	139.46	0.14	0.00	23.27	0.02	0.00	39.80	0.04	0.00
31/05/2018	1.02	1.08	656.23	0.66	0.00	167.62	0.17	0.00	9.05	0.01	0.00	34.70	0.03	0.00
01/06/2018	1.02	1.08	511.65	0.51	0.00	147.00	0.15	0.00	9.05	0.01	0.00	24.66	0.02	0.00
02/06/2018	1.02	1.05	163.06	0.16	0.00	54.04	0.05	0.00	9.05	0.01	0.00	8.32	0.01	0.00
03/06/2018	1.05	1.03	401.66	0.40	0.00	92.36	0.09	0.00	9.05	0.01	0.00	14.49	0.01	0.00
04/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
05/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
06/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
07/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
08/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
09/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
10/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
11/06/2018	1.05	1.03	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
12/06/2018	0.00	2.18	599.20	0.60	0.00	149.00	0.15	0.00	9.05	0.01	0.00	24.21	0.02	0.00
13/06/2018	1.00	1.15	819.42	0.82	0.00	208.71	0.21	0.00	9.05	0.01	0.00	32.86	0.03	0.00
14/06/2018	1.00	1.15	762.49	0.76	0.00	185.88	0.19	0.00	0.32	0.00	0.00	20.71	0.02	0.00
15/06/2018	1.33	1.35	786.22	0.79	0.00	200.39	0.20	0.00	9.05	0.01	0.00	16.38	0.02	0.00
16/06/2018	1.00	1.50	835.68	0.84	0.00	209.90	0.21	0.00	23.27	0.02	0.00	42.98	0.04	0.00
17/06/2018	1.00	1.50	436.83	0.44	0.00	112.24	0.11	0.00	9.05	0.01	0.00	16.33	0.02	0.00
18/06/2018	1.45	1.18	255.39	0.26	0.00	59.63	0.06	0.00	9.05	0.01	0.00	12.39	0.01	0.00
19/06/2018	1.08	1.55	728.87	0.73	0.00	204.77	0.20	0.00	9.05	0.01	0.00	30.64	0.03	0.00
20/06/2018	0.98	1.48	826.83	0.83	0.00	209.86	0.21	0.00	23.27	0.02	0.00	34.80	0.03	0.00
21/06/2018	1.22	1.15	794.25	0.79	0.00	186.21	0.19	0.00	9.05	0.01	0.00	32.83	0.03	0.00

22/06/2018	1.22	1.15	387.65	0.39	0.00	116.41	0.12	0.00	23.27	0.02	0.00	18.65	0.02	0.00
23/06/2018	1.02	1.13	474.50	0.47	0.00	134.99	0.13	0.00	9.05	0.01	0.00	22.47	0.02	0.00
24/06/2018	1.28	1.28	759.17	0.76	0.00	227.29	0.23	0.00	9.05	0.01	0.00	33.04	0.03	0.00
25/06/2018	1.47	1.05	822.03	0.82	0.00	209.55	0.21	0.00	23.27	0.02	0.00	26.75	0.03	0.00
26/06/2018	1.47	1.05	507.63	0.51	0.00	111.89	0.11	0.00	9.05	0.01	0.00	32.65	0.03	0.00
27/06/2018	1.47	1.05	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
28/06/2018	1.47	1.05	182.19	0.18	0.00	46.54	0.05	0.00	46.54	0.05	0.00	20.51	0.02	0.00
29/06/2018	1.47	1.05	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
30/06/2018	1.47	1.05	696.02	0.70	0.00	182.70	0.18	0.00	9.05	0.01	0.00	12.32	0.01	0.00
<b>TOTALS:</b>	<b>313</b>	<b>539</b>	<b>236419</b>	<b>236</b>	<b>0</b>	<b>58596</b>	<b>59</b>	<b>0</b>	<b>4425</b>	<b>4</b>	<b>0</b>	<b>5236</b>	<b>5</b>	<b>0</b>

**TOTALS: 304.676**

## 2017-18 SWIM Export – Daily Testing Data Sheets - Longreach

Date	Turb Raw	Turb Clar	Turb Filt	Turb GLR	Chlor Total GLR	Chlor Free GLR	Chlor Free Filt	Flow Rate	Colour	pH treated	pH Raw
06/11/2017 12:00 AM	243	8.83	0.19	0.28	1.5	1.35	2.73	12.0		7.59	
07/11/2017 12:00 AM	246	7.9	0.25	0.3	1.0	0.7	2.75	12.0		7.58	
08/11/2017 12:00 AM	244	6.88	0.19	0.35	191.0	1.64	2.75	12.0		7.45	
09/11/2017 12:00 AM	238	8.25	0.28	0.3	2.15	2.03	2.75	12.0		7.55	
10/11/2017 12:00 AM	241	7.91	0.41	0.37	1.83	1.65	2.75	12.0		7.52	
11/11/2017 12:00 AM	245	7.86	0.38	0.32	1.75	1.49	2.75	12.0		7.46	
12/11/2017 12:00 AM	241	7.02	0.35	0.35	1.25	1.47	2.75	12.0		7.53	
13/11/2017 12:00 AM	255	8.14	0.56	0.4	1.3	1.21	2.75	12.0		7.51	7.37
14/11/2017 12:00 AM	253	13.45	0.6	0.38	1.45	1.3	2.75	12.0		7.56	
15/11/2017 12:00 AM	251	8.01	0.41	0.34	1.5	1.35	2.75	12.0		7.63	
16/11/2017 12:00 AM	249	7.09	0.4	0.33	1.64	1.35	2.75	12.0		7.49	
17/11/2017 12:00 AM	264	6.85	0.35	0.29	1.85	1.57	2.75	12.0		7.56	
18/11/2017 12:00 AM	258	6.73	0.41	0.6	2.19	1.82	2.75	12.0		7.54	
19/11/2017 12:00 AM	252	6.98	0.37	0.37	2.11	1.89	2.75	12.0		7.57	
20/11/2017 12:00 AM	260	7.64	0.43	0.39	2.0	1.74	2.75	12.0		7.56	7.34
21/11/2017 12:00 AM	270	7.82	0.4	0.36	1.97	1.54	2.75	12.0		7.54	
22/11/2017 12:00 AM	258	7.76	0.41	0.33	1.65	1.43	2.75	12.0		7.55	
23/11/2017 12:00 AM	261	8.03	0.39	0.3	1.54	1.36	2.75	12.0		7.55	
24/11/2017 12:00 AM	264	5.01	0.33	0.27	1.71	1.43	2.75	12.0		7.55	
25/11/2017 12:00 AM	260	14.01	0.39	0.3	1.98	1.79	2.75	14.0		7.68	
26/11/2017 12:00 AM	610	8.2	0.6	0.49	2.35	2.01	2.4	37.0		7.4	7.02
27/11/2017 12:00 AM	7	5.82	0.9	0.61	1.81	1.61	2.75	37.0		7.22	6.83
28/11/2017 12:00 AM	1,254	11.01	0.31	0.42	1.75	1.6	2.75	34.0		7.14	6.72
29/11/2017 12:00 AM	1,289	6.11	0.68	0.74	1.28	1.0	2.75	32.0		7.1	
30/11/2017 12:00 AM	1,352	7.05	0.41	0.59	2.37	2.0	2.75	32.0		7.13	
01/12/2017 12:00 AM	1,461	8.1	0.33	0.41	2.0	1.83	2.75	32.0		7.12	
02/12/2017 12:00 AM	1,340	9.13	0.4	0.4	2.45	2.31	0.0	32.0		6.91	
03/12/2017 12:00 AM	1,278	8.01	0.57	0.41	1.51	1.49	2.75	32.0		6.95	
04/12/2017 12:00 AM	1,200	5.81	0.56	0.86	2.06	1.71	2.75	32.0		6.81	6.54
05/12/2017 12:00 AM	1,086	7.05	0.66	0.74	1.9	1.82	0.0	29.0		6.63	
06/12/2017 12:00 AM	1,023	9.87	0.46	0.38	1.51	1.35	2.75	28.0		6.53	6.45
07/12/2017 12:00 AM	1,105	5.83	0.29	0.66	2.37	2.0	2.75	28.0		6.57	
08/12/2017 12:00 AM	1,077	9.1	0.6	0.58	0.8	0.56	3.0	28.0		6.54	
09/12/2017 12:00 AM	1,012	11.0	0.71	1.0	1.0	0.8	3.21	28.0		6.54	
10/12/2017 12:00 AM	1,040	8.49	0.49	0.56	1.7	1.41	3.0	28.0		6.61	
11/12/2017 12:00 AM	1,018	4.49	0.39	0.53	2.11	2.0	2.75	28.0		6.6	
12/12/2017 12:00 AM	1,040	8.89	0.4	0.44	1.58	1.41	2.75	28.0		6.54	
13/12/2017 12:00 AM	1,008	7.61	0.38	0.47	1.71	1.56	2.75	26.0		6.5	
14/12/2017 12:00 AM	1,021	8.1	0.29	0.38	1.62	1.4	2.75	26.0		6.49	
15/12/2017 12:00 AM	1,000	4.8	0.3	0.5	1.99	1.81	2.75	26.0		6.51	
16/12/2017 12:00 AM	1,005	8.0	0.61	0.99	1.83	1.66	2.75	26.0		6.82	
17/12/2017 12:00 AM	998	6.1	0.55	0.8	2.0	2.0	2.75	26.0		6.8	
18/12/2017 12:00 AM	1,011	7.75	0.51	0.68	2.0	1.83	2.75	26.0		6.89	
19/12/2017 12:00 AM	1,206	10.0	0.81	1.1	2.13	1.88	2.75	26.0		6.85	
20/12/2017 12:00 AM	1,000	6.95	0.49		2.08	1.98	2.75	26.0		6.8	

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21/12/2017 12:00 AM	993	5.05	0.88	0.9	1.0	0.75	2.75	26.0		6.74	
22/12/2017 12:00 AM	1,001	7.58	0.49	0.86	1.53	1.35	2.75	24.0		6.8	
23/12/2017 12:00 AM	1,005	3.78	1.24	0.84	0.3	0.25	2.75	24.0		6.74	
24/12/2017 12:00 AM	1,002	4.71	1.2	1.21	3.0	3.0		24.0		6.6	
25/12/2017 12:00 AM	1,000	4.18	1.29	1.4	2.23	1.98	2.25	25.0		6.68	
26/12/2017 12:00 AM	998	7.0	0.26	0.49	1.0	1.4	2.75	26.0		6.6	
27/12/2017 12:00 AM	886	8.01	0.33	0.5	1.7	1.4	2.85	24.0		6.61	
28/12/2017 12:00 AM	900	8.13	0.49	0.51	1.48	1.3	2.85	24.0		6.65	
29/12/2017 12:00 AM	989	3.4	0.48	0.52	1.51	1.23	2.85	25.0		6.66	
30/12/2017 12:00 AM	992	4.15	0.4	0.58	1.65	1.41	2.85	34.0		6.67	
31/12/2017 12:00 AM	960	10.0	0.49	0.5	1.55	1.14	3.0	24.0		6.59	
01/01/2018 12:00 AM	940	7.7	0.43	0.6	2.55	2.2	2.75	26.0		6.46	6.14
02/01/2018 12:00 AM	979	10.01	0.37	0.69	2.0	2.0		26.0		6.69	
03/01/2018 12:00 AM	983	6.01	0.39	1.53	1.48	1.37	2.75	26.0		6.6	
04/01/2018 12:00 AM	910	6.64	0.25	1.5	2.0	2.0		26.0		6.63	
05/01/2018 12:00 AM	915		0.37	1.12	2.05	1.75		26.0		6.75	
06/01/2018 12:00 AM	891	8.28	0.37	0.82	1.54	1.37	2.75	26.0		6.76	
07/01/2018 12:00 AM	899	9.66	0.26	0.91	1.29	1.04	2.75	26.0		6.7	
08/01/2018 12:00 AM	868	8.03	0.29	0.45	1.34	1.11	2.75	26.0		6.56	6.47
09/01/2018 12:00 AM			0.46	0.54	1.4	1.03	2.75	26.0		6.84	
10/01/2018 12:00 AM	815	4,029.0	0.53	0.46	1.86	1.51	2.75	28.0		6.95	
11/01/2018 12:00 AM	820	4.89	0.39	0.7	1.92	1.82	2.75	24.0		7.01	
12/01/2018 12:00 AM	831	6.47	0.54	0.55	2.16	1.24	2.75	24.0		7.16	
13/01/2018 12:00 AM	811	7.25	0.5	0.58	2.24	1.91	2.75	24.0		7.0	
14/01/2018 12:00 AM	792	6.89	0.48	0.46	1.88	1.71	2.75	24.0		6.9	
15/01/2018 12:00 AM	720	5.66	0.36	0.49	1.63	1.48	2.75	24.0		7.1	6.96
16/01/2018 12:00 AM	728	7.01	0.29	0.51	1.3	1.01	2.75	24.0		7.03	
17/01/2018 12:00 AM	703	6.12	0.27	0.59	1.76	1.5	2.75	24.0		7.25	
18/01/2018 12:00 AM	671	5.03	1.18	0.58	1.45	1.18	2.11	24.0		7.1	
19/01/2018 12:00 AM	694	6.55	0.45	0.64	1.37	1.33	2.75	18.0		7.09	
20/01/2018 12:00 AM	687	9.47	0.6	0.7	1.54	1.24	2.75	18.0		7.1	
21/01/2018 12:00 AM	692	5.4	0.48	0.61	1.51	1.38	2.75	20.0		7.05	
22/01/2018 12:00 AM	703	5.4	0.55	0.65	1.7	1.43	2.75	26.0		7.07	6.9
23/01/2018 12:00 AM	705	4.05	0.36	0.46	1.71	1.54	2.75	26.0		7.1	6.9
24/01/2018 12:00 AM	710	6.67	0.29	0.51	1.53	1.35	2.75	26.0		7.09	
25/01/2018 12:00 AM	706	7.01	0.33	0.42	1.68	1.4	2.75	26.0		7.11	
26/01/2018 12:00 AM	696	5.41	0.38	0.46	2.0	1.85	2.75	26.0		7.09	
27/01/2018 12:00 AM	682	6.06	0.29	0.48	1.69	1.35	2.75	26.0		7.04	
28/01/2018 12:00 AM	671	7.15	0.39	0.46	2.0	1.99	2.75	24.0		7.05	
29/01/2018 12:00 AM	672	7.01	0.44	0.61	2.31	2.11	2.75	24.0		7.05	6.81
30/01/2018 12:00 AM	664	7.01	0.62	0.6	2.02	1.78	2.75	24.0		7.02	6.81
31/01/2018 12:00 AM	682	2.0	0.49	0.32	1.46	1.15	2.75	26.0		6.94	
01/02/2018 12:00 AM	689	3.3	0.36	0.4	1.74	1.05	2.75	26.0		7.07	
02/02/2018 12:00 AM	681	4.3	0.33	0.36	1.75	1.55	2.75	26.0		6.91	
03/02/2018 12:00 AM	679	6.25	0.31	0.34	1.86	1.64	2.75	26.0		6.89	
04/02/2018 12:00 AM	686	9.25	0.4	0.51	1.73	1.5	2.75	26.0		6.95	
05/02/2018 12:00 AM	683	9.01	0.36	0.5	2.02	1.82	2.75	26.0		6.83	6.85
06/02/2018 12:00 AM	688	14.0	0.48	0.43	2.42	2.15	2.75	24.0		6.91	6.85

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07/02/2018 12:00 AM	683	10.0	0.31	0.54	2.34	1.99	2.75	24.0		6.86	
08/02/2018 12:00 AM	668	9.08	0.37	0.43	2.04	1.82	2.75	24.0		7.15	
09/02/2018 12:00 AM	717	12.02	0.4	0.54	1.82	1.54	2.75	26.0		7.4	
10/02/2018 12:00 AM	970	12.89	0.48	0.56	1.58	1.43	2.75	38.0		7.12	6.96
11/02/2018 12:00 AM	1,950	6.55	0.41	0.47	1.56	1.47	2.75	34.0		7.04	6.96
12/02/2018 12:00 AM	2,000	8.5	0.48	0.56	1.71	1.52	2.75	32.0		7.02	6.73
13/02/2018 12:00 AM	1,800	12.01	0.98	0.61	1.57	1.36	2.75	32.0		6.92	6.73
14/02/2018 12:00 AM	1,800	5.22	0.41	0.4	1.45	1.28	2.75	32.0		6.79	
15/02/2018 12:00 AM	1,780	8.34	0.45	0.5	1.4	1.31	2.75	30.0		6.82	
16/02/2018 12:00 AM	1,770	8.72	0.31	0.4	1.65	1.45	2.75	30.0		6.56	
17/02/2018 12:00 AM	1,700	8.16	0.32	0.36	1.79	1.58	2.75	30.0		6.92	
18/02/2018 12:00 AM	1,668	8.02	0.33	0.47	1.73	1.6	2.75	30.0		6.78	
19/02/2018 12:00 AM	1,650	7.92	0.51	0.54	1.99	1.78	2.75	30.0		6.72	6.59
20/02/2018 12:00 AM	1,580	7.98	0.31	0.34	1.83	1.57	2.75	30.0		6.82	6.59
21/02/2018 12:00 AM	1,320	4.68	0.3	0.31	1.98	1.66	2.75	30.0		6.75	
22/02/2018 12:00 AM	1,230	5.12	0.38	0.3	1.81	1.59	2.75	30.0		6.72	
23/02/2018 12:00 AM	1,200	8.01	0.35	0.32	2.02	1.83	2.75	30.0		6.83	
24/02/2018 12:00 AM	1,100	9.82	0.29	0.28	2.09	1.85	2.75	30.0		6.83	
25/02/2018 12:00 AM	1,160	10.08	0.34	0.3	1.96	1.64	2.75	30.0		6.81	
26/02/2018 12:00 AM	1,128	8.25	0.32	0.35	1.85	1.62	2.75	30.0		6.9	
27/02/2018 12:00 AM	1,120	9.0	0.38	0.4	1.72	1.52	2.75	30.0		6.95	
28/02/2018 12:00 AM	1,200	15.0	0.32	0.39	1.68	1.49	2.75	30.0		6.87	
01/03/2018 12:00 AM	1,166	10.9	0.36	0.47	1.72	1.48	2.75	28.0		6.79	
02/03/2018 12:00 AM	1,180	12.08	0.31	0.47	1.69	1.62	2.75	28.0		6.71	
03/03/2018 12:00 AM	1,066	15.0	0.45	0.34	1.7	1.52	2.75	28.0		6.87	
04/03/2018 12:00 AM	2,000	13.7	0.41	0.49	1.43	1.16	2.75	34.0		6.88	
05/03/2018 12:00 AM	1,860	17.0	1.0	0.42	1.67	1.39	2.31	36.0		6.96	6.84
06/03/2018 12:00 AM	2,250	10.0	0.48	0.51	1.7	1.53	2.65	36.0		6.93	6.84
07/03/2018 12:00 AM	2,019	15.0	0.99	0.59	1.68	1.49	2.75	36.0		6.9	
08/03/2018 12:00 AM	2,010	17.0	1.0	0.89	1.75	1.61	2.75	36.0		6.98	
09/03/2018 12:00 AM	2,403	17.0	0.73	0.9	1.83	1.67	2.75	36.0		6.9	
10/03/2018 12:00 AM	2,920	15.0	1.0	2.0	1.71	1.94	1.74	0.0		6.94	
11/03/2018 12:00 AM	2,892	17.8	3.58	1.91	1.68	1.51	2.29	0.0		7.19	
12/03/2018 12:00 AM	2,148	13.4	4.16	2.15	1.91	1.79	2.75	30.0		7.1	7.06
13/03/2018 12:00 AM	2,184	11.6	5.03	2.21	2.18	1.91	2.75	30.0		7.22	
14/03/2018 12:00 AM	1,800	9.04	0.49	2.11	2.31	1.84	2.75	30.0		7.34	
15/03/2018 12:00 AM	1,650	6.82	0.39	1.32	2.04	1.75	2.75	30.0		7.1	
16/03/2018 12:00 AM	1,200	6.01	0.41	1.08	2.28	1.94	2.75	30.0		6.9	
17/03/2018 12:00 AM	990	6.22	0.3	0.96	1.61	1.54	2.75	30.0		7.28	
18/03/2018 12:00 AM	819	7.24	0.28	0.61	1.38	1.21	2.75	30.0		7.24	
19/03/2018 12:00 AM	684	7.38	0.31	0.66	1.13	1.02	2.75	22.0		7.12	7.18
20/03/2018 12:00 AM	586	9.89	0.41	0.57	1.36	1.26	2.75	22.0		7.08	
21/03/2018 12:00 AM	542	10.12	0.38	0.47	1.26	1.16	2.75	22.0		7.24	
22/03/2018 12:00 AM	534	10.0	0.32	0.46	1.35	1.21	2.75	22.0		7.28	
23/03/2018 12:00 AM	531	9.13	0.36	0.42	1.36	1.29	2.75	22.0		7.16	
24/03/2018 12:00 AM	515	8.36	0.31	0.41	1.47	1.36	2.75	22.0		7.28	
25/03/2018 12:00 AM	508		0.29	0.44	1.76	1.44	2.75	22.0		7.31	
26/03/2018 12:00 AM	527	9.01	0.49	0.44	1.81	1.58	2.75	22.0		7.31	7.01

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27/03/2018 12:00 AM	499	8.68	0.4	0.33	1.73	1.33	2.75	22.0		7.27	
28/03/2018 12:00 AM	489	8.22	0.38	0.42	1.83	1.58	2.75	22.0		7.25	
29/03/2018 12:00 AM	511	6.21	0.32	0.32	1.67	1.45	2.75	22.0		7.27	
30/03/2018 12:00 AM	488	6.12	0.38	0.43	1.3	1.12	2.75	22.0		7.25	
31/03/2018 12:00 AM	474	6.05	0.41	0.46	1.73	1.43	2.75	22.0		7.19	
01/04/2018 12:00 AM	470	5.89	0.38	0.4	1.61	1.36	2.75	22.0		7.27	
02/04/2018 12:00 AM	476	5.52	0.38	0.4	1.86	0.76	2.75	22.0		7.26	7.13
03/04/2018 12:00 AM	466	5.89	0.41	0.44	1.97	1.75	2.75	22.0		7.07	
04/04/2018 12:00 AM	448	6.12	0.33	0.38	1.86	1.63	2.75	20.0		7.25	
05/04/2018 12:00 AM	440	6.08	0.38	0.4	1.3	1.13	2.75	20.0		7.31	
06/04/2018 12:00 AM	429	7.02	0.3	0.41	1.29	1.15	2.75	20.0		7.32	
07/04/2018 12:00 AM	445	5.9	0.29	0.42	1.39	1.27	2.75	20.0		7.37	
08/04/2018 12:00 AM	442	4.89	0.32	0.47	1.3	1.12	2.75	20.0		7.21	
09/04/2018 12:00 AM	467	4.82	0.37	0.57	1.38	1.24	2.75	20.0		7.06	7.11
10/04/2018 12:00 AM	460	5.07	0.41	0.43	1.43	1.22	2.75	20.0		7.2	
11/04/2018 12:00 AM	452	5.01	0.3	0.38	1.39	1.25	2.75	20.0		7.21	
12/04/2018 12:00 AM	447	4.89	0.33	0.44	1.39	1.18	2.75	20.0		7.36	
13/04/2018 12:00 AM	451	4.92	0.38	0.53	1.34	1.17	2.75	22.0		7.35	
14/04/2018 12:00 AM	444	5.78	0.4	0.37	1.52	1.23	2.75	22.0		7.32	
15/04/2018 12:00 AM	461	3.97	0.35	0.27	1.54	1.39	2.75	22.0		7.29	
16/04/2018 12:00 AM	447	4.72	0.29	0.38	1.63	1.51	2.75	22.0		7.32	7.3
17/04/2018 12:00 AM	442	3.89	0.32	0.29	1.57	1.48	2.75	22.0		7.27	
18/04/2018 12:00 AM	449	5.12	0.33	0.33	1.59	1.25	2.75	18.0		7.18	
19/04/2018 12:00 AM	440	6.12	0.23	0.29	1.49	1.41	2.75	18.0		7.44	
20/04/2018 12:00 AM	424	6.28	0.21	0.32	1.68	1.62	2.75	18.0		7.51	
21/04/2018 12:00 AM	416	6.02	0.32	0.29	1.75	1.59	2.75	18.0		7.46	
22/04/2018 12:00 AM	395	5.11	0.36	0.38	1.8	1.62	2.75	18.0		7.4	
23/04/2018 12:00 AM	400	8.92	0.29	0.34	1.82	1.57	2.75	18.0		7.43	6.98
24/04/2018 12:00 AM	407	9.02	0.34	0.42	1.98	1.71	2.75	18.0		7.41	
25/04/2018 12:00 AM	396	7.92	0.31	0.22	1.89	1.68	2.75	18.0		7.46	
26/04/2018 12:00 AM	396	8.11	0.35	0.32	1.67	1.46	2.75	18.0		7.43	
27/04/2018 12:00 AM	397	8.32	0.3	0.31	1.27	1.2	2.75	18.0		7.42	
28/04/2018 12:00 AM	404	9.07	0.32	0.24	1.27	1.11	2.75	18.0		7.44	
29/04/2018 12:00 AM	392	8.95	0.38	0.27	1.29	1.22	2.75	18.0		7.48	
30/04/2018 12:00 AM	402	7.86	0.37	0.28	1.84	1.59	2.75	18.0		7.47	7.05
01/05/2018 12:00 AM	394	7.45	0.34	0.27	1.68	1.52	2.75	18.0		7.49	
02/05/2018 12:00 AM	403	8.87	0.49	0.31	1.44	1.29	2.75	18.0		7.55	
03/05/2018 12:00 AM	401	10.8	0.55	0.33	1.46	1.36	2.75	18.0		7.52	
04/05/2018 12:00 AM	393	9.51	0.32	0.34	2.08	1.9	2.75	18.0		7.61	
05/05/2018 12:00 AM	394	9.6	0.32	0.28	1.8	1.64	2.75	18.0		7.62	
06/05/2018 12:00 AM	397	9.8	0.34	0.32	1.8	1.61	2.75	18.0		7.49	
07/05/2018 12:00 AM	393	9.12	0.45	0.36	1.42	1.31	2.75	18.0		7.49	7.09
08/05/2018 12:00 AM	391	10.3	0.54	0.32	1.72	1.44	2.75	18.0		7.5	
09/05/2018 12:00 AM	383	8.73	0.29	0.39	1.52	1.32	2.75	18.0		7.55	
10/05/2018 12:00 AM	381	7.03	0.36	0.28	1.27	1.2	2.75	18.0		7.51	
11/05/2018 12:00 AM	380	6.46	0.36	0.28	1.31	1.11	2.75	18.0		7.62	
12/05/2018 12:00 AM	382	7.18	0.38	0.31	1.14	1.05	2.75	18.0		7.58	
13/05/2018 12:00 AM	366	6.89	0.34	0.24	1.82	1.61	2.75	18.0		7.26	

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14/05/2018 12:00 AM	371	7.61	0.41	0.24	2.01	1.8	2.75	18.0		7.71	7.13
15/05/2018 12:00 AM	370	7.55	0.37	0.26	1.98	1.68	2.75	18.0		7.62	
16/05/2018 12:00 AM	371	6.25	0.43	0.35	1.63	1.57	2.75	18.0		7.61	
17/05/2018 12:00 AM	364	7.46	0.44	0.31	1.58	1.18	2.75	18.0		7.73	
18/05/2018 12:00 AM	360	7.12	0.38	0.32	1.61	1.19	2.75	18.0		7.53	
19/05/2018 12:00 AM	358	7.02	0.41	0.28	1.53	1.22	2.75	18.0		7.58	
20/05/2018 12:00 AM	364	6.89	0.36	0.33	1.25	0.98	2.75	18.0		7.66	
21/05/2018 12:00 AM	355	8.31	0.34	0.36	1.61	1.43	2.75	18.0		7.67	7.59
22/05/2018 12:00 AM	352	6.63	0.36	0.39	1.32	1.19	2.75	18.0		7.71	
23/05/2018 12:00 AM	353	7.52	0.34	0.33	1.76	1.53	2.75	18.0		7.7	
24/05/2018 12:00 AM	350	8.91	0.38	0.29	1.72	1.51	2.75	18.0		7.71	
25/05/2018 12:00 AM	357	9.3	0.4	0.31	1.49	1.31	2.75	18.0		7.69	
26/05/2018 12:00 AM	355	8.75	0.37	0.32	1.52	1.44	2.75	18.0		7.71	
27/05/2018 12:00 AM	354	8.51	3.38	0.3	1.24	1.12	2.75	18.0		7.7	
28/05/2018 12:00 AM	364	7.67	0.32	0.35	1.44	1.23	2.75	18.0		7.71	7.61
29/05/2018 12:00 AM	368	8.19	0.41	0.33	1.51	1.34	2.75	18.0		7.7	
30/05/2018 12:00 AM	366	8.03	0.4	0.39	1.21	1.14	2.75	18.0		7.69	
31/05/2018 12:00 AM	369	9.61	0.39	0.38	1.56	1.2	2.75	18.0		7.67	
01/06/2018 12:00 AM	354	9.8	0.38	0.35	1.48	1.37	2.75	18.0		7.77	
02/06/2018 12:00 AM	355	9.65	0.36	0.34	1.83	1.47	2.75	18.0		7.78	
03/06/2018 12:00 AM	356	9.42	0.35	0.38	1.57	1.38	2.75	18.0		7.81	
04/06/2018 12:00 AM	352	10.61	0.38	0.29	1.47	1.39	2.75	18.0		7.65	7.58
05/06/2018 12:00 AM	354	9.82	0.37	0.32	1.35	1.328	2.75	18.0		7.77	
06/06/2018 12:00 AM	355	7.28	0.36	0.3	132.0	1.2	2.75	18.0		7.74	
07/06/2018 12:00 AM	356	8.41	0.33	0.27	1.31	1.19	2.75	18.0		7.74	
08/06/2018 12:00 AM	353	8.21	0.31	0.33	1.4	1.29	2.75	18.0		7.78	
09/06/2018 12:00 AM	344	7.92	0.38	0.3	1.38	1.19	2.75	18.0		7.84	
10/06/2018 12:00 AM	346	7.31	0.35	0.31	1.52	1.37	2.75	18.0		7.81	
11/06/2018 12:00 AM	345	7.21	0.38	0.31	1.27	1.11	2.75	18.0		7.78	7.59
12/06/2018 12:00 AM	340	7.32	0.34	0.31	1.31	1.24	2.75	18.0		7.67	
13/06/2018 12:00 AM	341	7.94	0.29	0.28	1.48	1.34	2.75	18.0		7.63	
14/06/2018 12:00 AM	344	7.24	0.32	0.29	1.52	1.37	2.75	18.0		7.68	
15/06/2018 12:00 AM	339	7.01	0.33	0.28	1.28	1.16	2.75	18.0		7.72	
16/06/2018 12:00 AM	342	7.92	0.34	0.3	1.45	1.09	2.75	18.0		7.83	
17/06/2018 12:00 AM	337	8.0	0.33	0.27	2.1	1.87	2.75	18.0		7.65	
18/06/2018 12:00 AM	322	7.09	0.25	0.21	2.19	1.98	2.75	18.0		7.62	7.6
19/06/2018 12:00 AM	318	6.93	0.26	0.25	1.95	1.79	2.75	18.0		7.75	
20/06/2018 12:00 AM	322	5.96	0.26	0.27	1.71	1.62	2.75	18.0		7.75	
21/06/2018 12:00 AM	322	6.6	0.32	0.4	1.65	1.51	2.75	18.0		7.86	
22/06/2018 12:00 AM	321	6.52	0.35	0.47	1.48	1.37	2.75	18.0		7.72	
23/06/2018 12:00 AM	322	6.58	0.32	0.39	1.31	1.15	2.75	18.0		7.78	
24/06/2018 12:00 AM	321	6.71	0.3	0.35	1.45	1.32	2.75	18.0		7.94	
25/06/2018 12:00 AM	320	7.76	0.34	0.36	1.46	1.32	2.75	18.0		7.71	7.8
26/06/2018 12:00 AM	321	7.51	0.29	0.3	1.71	1.57	2.75	18.0		7.88	
27/06/2018 12:00 AM	321	8.88	0.37	0.4	1.39	1.27	2.75	18.0		7.87	
28/06/2018 12:00 AM	322	9.42	0.36	0.37	1.54	1.39	2.75	18.0		7.83	
29/06/2018 12:00 AM	320	7.23	0.29	0.36	1.53	1.33	2.75	18.0		7.74	
30/06/2018 12:00 AM	325	7.51	0.39	0.44	1.22	1.0	2.75	18.0		7.78	

## **Appendix E – Record of complaints 2017/2018**

Nil for this reporting period