



**Water and Waste Department • Service des eaux et des déchets**

*Environmental Standards Division • Division des Normes Environnementales*

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September 7, 2018

Derek Clarke  
Office of Drinking Water  
Manitoba Sustainable Development  
Box 6000  
Gimli, Manitoba R0C 1B0

Our File: 040-18-18-55-00

Dear Mr. Clarke:

**RE: AUGUST 2018 WATER QUALITY COMPLIANCE  
SUBMISSION FOR THE CITY OF WINNIPEG WATER SUPPLY SYSTEM**

Please find attached on-line and grab turbidity summary reports, on-line and grab chlorine summary reports and the UV summary report for the Water Treatment Plant for August 2018. There are no corrective action reports to be submitted for August 2018.

The August on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. Please note that the maximum turbidities for Filter 3 were greater than 0.3 NTU on August 3 and 23; the elevated turbidities occurred for a short period of time which did not exceed 12 consecutive hours. The turbidity results for the effluent from the filters met the licence requirements.

The August on-line and grab sampling chlorine reports include results obtained for the Deacon Booster Pumping Station at the Water Treatment Plant. The free chlorine results at the Water Treatment Plant met the licence requirements.

The August UV summary report includes results obtained for the six UV reactors at the Water Treatment Plant. The UV disinfection results met the licence requirements.

Please let me know of any concerns or questions respecting this submission. I can be reached by telephone at 204-986-8359 or by e-mail at [rgrosselle@winnipeg.ca](mailto:rgrosselle@winnipeg.ca).

Yours sincerely,

*Original signed by:*

R. Grosselle  
Manager of Environmental Standards

Enclosures

cc: Dr. L. Richards, Winnipeg Regional Health Authority (email)  
Dr. H. Chang, Winnipeg Regional Health Authority (email)  
Dr. S. Roberecki, Manitoba Health, Seniors and Active Living (email)  
M. L. Geer, CPA, CA (email)  
G. Patton, P.Eng. (email)  
T. Shanks, P.Eng. (email)  
M. Szmon, P.Eng. (email)  
C. Diduck (email)



**CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
WATER SERVICES

Water System Code: **252.00**  
Licence Number: **PWS-09-412-01**

**WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT**

August 2018 Turbidity (NTU)

Date	Raw		Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
	Avg	Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/08/2018	2.52	0.06	0.10		0.09	0.14	0.09	0.14	0.04	0.09	0.03	0.04	0.03	0.07	0.03	0.06	0.01	0.01
2/08/2018	2.62	0.05	0.11		0.09	0.14	0.08	0.14	0.05	0.07	0.03	0.05	0.04	0.06	0.03	0.06	0.01	0.01
3/08/2018	2.63	0.06	0.09		0.08	0.13	0.08	0.47	0.05	0.09	0.02	0.05	0.04	0.07	0.03	0.05	0.01	0.01
4/08/2018	3.91	0.06	0.11		0.10	0.14	0.08	0.11	0.04	0.09	0.02	0.05	0.04	0.10	0.02	0.05	0.01	0.01
5/08/2018	2.28	0.05	0.09		0.09	0.15	0.09	0.14	0.04	0.07	0.03	0.05	0.04	0.09	0.02	0.05	0.01	0.01
6/08/2018	2.29	0.05	0.10		0.08	0.15	0.08	0.14	0.05	0.11	0.03	0.06	0.06	0.07	0.03	0.05	0.01	0.01
7/08/2018	2.32	0.06	0.09		0.09	0.13	0.08	0.12	0.04	0.09	0.03	0.06	0.06	0.08	0.03	0.05	0.01	0.02
8/08/2018	2.07	0.05	0.10		0.09	0.13	0.07	0.10	0.04	0.09	0.03	0.08	0.07	0.12	0.04	0.08	0.01	0.01
9/08/2018	1.88	0.06	0.11		0.10	0.16	0.10	0.15	0.05	0.08	0.05	0.08	0.09	0.16	0.06	0.12	0.01	0.06
10/08/2018	2.23	0.05	0.09		0.08	0.15	0.08	0.13	0.04	0.07	0.03	0.07	0.09	0.10	0.04	0.08	0.01	0.04
11/08/2018	2.16	0.07	0.10		0.09	0.15	0.09	0.16	0.04	0.09	0.04	0.08	0.10	0.19	0.07	0.11	0.01	0.05
12/08/2018	2.11	0.06	0.11		0.11	0.14	0.08	0.14	0.04	0.09	0.04	0.09	0.10	0.18	0.06	0.11	0.01	0.02
13/08/2018	2.16	0.06	0.13		0.10	0.17	0.11	0.15	0.04	0.11	0.05	0.07	0.10	0.19	0.06	0.12	0.01	0.05
14/08/2018	2.31	0.07	0.14		0.10	0.17	0.09	0.15	0.05	0.17	0.04	0.09	0.12	0.17	0.06	0.10	0.01	0.07
15/08/2018	2.90	0.06	0.08		0.09	0.14	0.07	0.13	0.03	0.08	0.03	0.06	0.11	0.16	0.05	0.07	0.01	0.02
16/08/2018	2.69	0.07	0.11		0.10	0.12	0.07	0.11	0.03	0.11	0.03	0.07	0.11	0.17	0.04	0.08	0.01	0.01
17/08/2018	2.51	0.06	0.10		0.11	0.14	0.06	0.10	0.02	0.05	0.02	0.04	0.11	0.16	0.03	0.07	0.01	0.01
18/08/2018	2.27	0.05	0.08		0.12	0.18	0.08	0.09	0.02	0.05	0.02	0.04	0.12	0.18	0.03	0.09	0.01	0.01
19/08/2018	2.44	0.05	0.09		0.13	0.18	0.07	0.11	0.02	0.06	0.02	0.05	0.15	0.15	0.04	0.05	0.01	0.02
20/08/2018	2.34	0.06	0.07		0.09	0.17	0.06	0.11	0.02	0.05	0.02	0.05	0.08	0.19	0.04	0.08	0.01	0.02
21/08/2018	2.19	0.05	0.09		0.05	0.08	0.07	0.08	0.02	0.10	0.02	0.04	0.05	0.11	0.04	0.09	0.01	0.01
22/08/2018	2.15	0.05	0.09		0.05	0.09	0.07	0.11	0.02	0.04	0.03	0.05	0.06	0.08	0.04	0.09	0.01	0.01
23/08/2018	2.15	0.05	0.09		0.05	0.08	0.07	0.39	0.02	0.05	0.03	0.05	0.08	0.10	0.04	0.06	0.01	0.01
24/08/2018	2.12	0.07	0.09		0.05	0.10	0.07	0.12	0.03	0.07	0.03	0.06	0.08	0.11	0.05	0.07	0.01	0.01
25/08/2018	2.15	0.08	0.11		0.07	0.09	0.08	0.13	0.03	0.15	0.03	0.08	0.09	0.14	0.05	0.09	0.01	0.01
26/08/2018	2.19	0.08	0.13		0.07	0.10	0.09	0.14	0.03	0.06	0.03	0.05	0.09	0.13	0.04	0.08	0.01	0.01
27/08/2018	1.70	0.08	0.12		0.06	0.11	0.09	0.14	0.03	0.06	0.03	0.05	0.09	0.16	0.04	0.08	0.01	0.01
28/08/2018	2.31	0.07	0.10		0.05	0.10	0.08	0.13	0.03	0.07	0.02	0.05	0.13	0.14	0.05	0.06	0.01	0.01
29/08/2018	2.54	0.09	0.11		0.06	0.08	0.08	0.13	0.03	0.08	0.02	0.05	0.12	0.18	0.05	0.08	0.01	0.01
30/08/2018	2.71	0.07	0.11		0.05	0.09	0.09	0.12	0.02	0.07	0.03	0.04	0.08	0.16	0.05	0.08	0.01	0.01
31/08/2018	2.67	0.07	0.11		0.05	0.09	0.08	0.14	0.03	0.12	0.03	0.06	0.04	0.05	0.06	0.07	0.01	0.01

Total Number of Measurements Taken, A: 16454      14536      16593      15197      17350      15923      15843      16412  
Turbidity Standard for Monitoring Location (NTU): 0.3      0.3      0.3      0.3      0.3      0.3      0.3      0.3  
Number of Measurements Meeting Standard, B: 16454      14536      16587      15197      17350      15923      15843      16412  
Compliance with Turbidity Standard, C = B/A X 100%: 100.000%      100.000%      99.964%      100.000%      100.000%      100.000%      100.000%      100.000%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2018\08-August

Submitted By (Print): D. Merredew

Signature: Original Signed by D. Merredew



CITY OF WINNIPEG  
WATER AND WASTE DEPARTMENT  
ENVIRONMENTAL STANDARDS DIVISION

**WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT**

Water System Code: 252.00	Turbidity (NTU)																	
	Raw Water		Filter 1		Filter 2		Filter 3		Filter 4		Filter 5		Filter 6		Filter 7		Filter 8	
Date	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser
01-Aug-2018	1.84	2.38	OL	OL	0.12	0.12	0.12	0.09	0.11	0.05	0.08	0.02	0.08	0.06	0.09	0.02	0.09	<0.02
02-Aug-2018	2.44	2.59	0.10	0.04	0.10	0.10	0.14	0.11	0.11	0.05	0.07	0.02	0.07	0.05	0.08	0.02	OL	OL
03-Aug-2018	2.20	2.97	0.10	0.04	0.10	0.09	0.10	0.07	0.13	0.06	OL	OL	0.11	0.05	0.11	0.02	0.11	<0.02
04-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
05-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
06-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
07-Aug-2018	2.26	2.51	0.10	0.04	0.10	0.09	0.10	0.07	0.11	0.06	OL	OL	0.11	0.08	0.09	0.03	0.10	0.03
08-Aug-2018	1.94	2.07	0.10	0.05	0.10	0.10	0.10	0.08	0.09	0.04	0.09	0.02	OL	OL	0.12	0.05	0.11	<0.02
09-Aug-2018	2.38	1.73	0.12	0.07	0.19	0.13	0.14	0.10	0.17	0.07	0.16	0.04	0.20	0.10	0.22	0.05	0.19	0.03
10-Aug-2018	2.51	2.17	0.10	0.04	0.09	0.09	0.13	0.11	0.12	0.04	0.13	0.03	0.14	0.10	0.13	0.04	OL	OL
11-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13-Aug-2018	2.48	2.53	OL	OL	0.16	0.15	0.15	0.12	0.14	0.07	0.14	0.06	0.14	0.13	0.13	0.07	0.12	0.05
14-Aug-2018	2.42	2.59	0.12	0.06	0.12	0.11	0.18	0.12	0.14	0.06	0.12	0.05	0.13	0.14	0.14	0.06	OL	OL
15-Aug-2018	2.72	1.39	0.09	0.06	0.09	0.11	0.10	0.08	0.12	0.05	OL	OL	0.11	0.13	0.10	0.04	0.09	<0.02
16-Aug-2018	2.82	2.80	0.09	0.06	0.09	0.11	0.09	0.07	0.08	0.03	0.08	0.02	0.14	0.16	0.10	0.04	0.09	<0.02
17-Aug-2018	2.72	2.65	0.09	0.06	0.08	0.11	0.10	0.07	0.09	0.02	0.08	<0.02	0.09	0.12	0.14	0.06	0.10	<0.02
18-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
19-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20-Aug-2018	2.60	2.29	0.09	0.05	0.11	0.06	0.10	0.07	0.13	0.04	OL	OL	0.12	0.07	0.11	0.04	0.12	<0.02
21-Aug-2018	2.37	2.22	0.10	0.06	0.09	0.05	0.09	0.07	0.09	0.02	0.08	0.02	0.09	0.07	OL	OL	0.10	<0.02
22-Aug-2018	2.36	1.97	0.08	0.05	OL	OL	0.10	0.08	0.09	0.02	0.08	0.02	0.09	0.08	0.09	0.04	0.11	<0.02
23-Aug-2018	2.48	2.32	0.08	0.05	0.09	0.06	OL	OL	0.09	0.02	0.09	0.03	0.09	0.08	0.10	0.04	0.10	<0.02
24-Aug-2018	2.26	2.33	0.09	0.05	0.08	0.06	0.09	0.07	0.11	0.04	OL	OL	0.09	0.10	0.10	0.05	0.09	<0.02
25-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
26-Aug-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
27-Aug-2018	2.39	1.36	OL	OL	0.11	0.08	0.10	0.09	0.10	0.04	0.07	0.02	0.08	0.12	0.07	0.04	0.07	<0.02
28-Aug-2018	1.97	1.88	0.08	0.07	0.09	0.06	OL	OL	0.10	0.04	0.07	0.02	0.09	0.14	0.08	0.04	0.07	<0.02
29-Aug-2018	2.20	2.59	0.09	0.07	0.09	0.06	0.11	0.09	OL	OL	0.08	<0.02	OL	OL	0.09	<0.02	0.09	<0.02
30-Aug-2018	2.19	2.52	OL	OL	0.10	0.07	0.09	0.09	0.08	0.03	0.08	0.02	0.07	0.05	0.07	0.05	0.07	<0.02
31-Aug-2018	2.11	2.76	0.09	0.07	0.09	0.06	0.13	0.13	0.09	0.04	0.08	0.03	0.08	0.05	0.08	0.06	OL	OL
Total number of measurements taken, A:				18		21		20		21		17		20		21		18
Turbidity Standard for Monitoring Location (NTU):				0.30		0.30		0.30		0.30		0.30		0.30		0.30		0.30
Number of measurements meeting standard, B:				18		21		20		21		17		20		21		18
Compliance with Turbidity Standard, C= B/A X 100%:				100%		100%		100%		100%		100%		100%		100%		100%

NS: No Sample NA: Not Analyzed OL: Off-Line

Comments:

Report Compiled By: H.Demchenko

Authorized in Sample Manager By: C.Diduck

Date Authorized: 6-Sep-18



**City Of Winnipeg**

Water and Waste Department

Water Services

**WATER TREATMENT PLANT FREE CHLORINE ON-LINE MONITORING REPORT**  
Deacon Booster Pumping Station

Water System Code: **252.00**

Licence Number: **PWS-09-412-01**

Report Created: 01 September 2018

Report Period: August 2018

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/08/2018	1.31	1.12	1.35	1.27
02/08/2018	1.34	1.17	1.31	1.21
03/08/2018	1.34	1.15	1.33	1.23
04/08/2018	1.19	0.93	1.29	1.20
05/08/2018	1.42	1.03	1.29	1.05
06/08/2018	1.55	1.24	1.31	1.24
07/08/2018	1.47	1.11	1.29	1.22
08/08/2018	1.31	1.08	1.30	1.19
09/08/2018	1.30	1.00	1.27	1.13
10/08/2018	1.38	1.28	1.28	1.20
11/08/2018	1.28	1.18	1.26	1.17
12/08/2018	1.34	1.22	1.31	1.23
13/08/2018	1.31	1.15	1.27	1.18
14/08/2018	1.26	1.11	1.22	1.11
15/08/2018	1.29	1.19	1.30	1.20
16/08/2018	1.30	1.09	1.31	1.25
17/08/2018	1.38	1.26	1.29	1.21
18/08/2018	1.35	1.20	1.28	1.13
19/08/2018	1.37	1.22	1.27	1.14
20/08/2018	1.37	1.25	1.28	1.19
21/08/2018	1.32	1.22	1.29	1.19
22/08/2018	1.30	1.12	1.26	1.09
23/08/2018	1.50	1.34	1.38	1.28
24/08/2018	1.47	1.34	1.39	1.28
25/08/2018	1.46	1.35	1.39	1.29
26/08/2018	1.44	1.33	1.37	1.28
27/08/2018	1.42	1.23	1.38	1.21
28/08/2018	1.33	1.17	1.35	1.23
29/08/2018	1.39	1.29	1.32	1.26
30/08/2018	1.45	1.34	1.40	1.27
31/08/2018	1.31	1.19	1.34	1.23

Total Number of Measurements, A: 21601 21601

Minimum Free Chlorine Standard: 0.5 0.5

Number of Measurements Meeting Standard, B: 21601 21601

COMPLIANCE, C = B/A X 100%: 100.00 100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2018\08-August

Submitted By (Print): D. Merredew

Signature: Original Signed by D. Merredew



**CITY OF WINNIPEG  
WATER AND WASTE DEPARTMENT  
ENVIRONMENTAL STANDARDS DIVISION**

**WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT**

Water System Code: 252.00		Deacon Booster Pumping Station Branch 1			Deacon Booster Pumping Station Branch 2		
Licence No. PWS-09-412-01		Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)
Date		Analyser	Grab	Grab	Analyser	Grab	Grab
01-Aug-2018		1.22	1.41	1.59	1.32	1.34	1.54
02-Aug-2018		1.52	1.43	1.61	1.38	1.30	1.55
03-Aug-2018		1.37	1.36	1.61	1.36	1.26	1.54
04-Aug-2018		NA	NA	NA	NA	NA	NA
05-Aug-2018		NA	NA	NA	NA	NA	NA
06-Aug-2018		NA	NA	NA	NA	NA	NA
07-Aug-2018		1.46	1.43	1.53	1.30	1.30	1.48
08-Aug-2018		1.34	1.40	1.55	1.31	1.33	1.61
09-Aug-2018		1.33	1.32	1.49	1.28	1.26	1.49
10-Aug-2018		1.38	1.41	1.67	1.30	1.32	1.52
11-Aug-2018		NA	NA	NA	NA	NA	NA
12-Aug-2018		NA	NA	NA	NA	NA	NA
13-Aug-2018		1.23	1.30	1.53	1.24	1.34	1.58
14-Aug-2018		1.30	1.37	1.61	1.23	1.29	1.47
15-Aug-2018		1.26	1.41	1.61	1.29	1.38	1.57
16-Aug-2018		1.29	1.50	1.73	1.33	1.48	1.62
17-Aug-2018		1.43	1.50	1.71	1.39	1.42	1.56
18-Aug-2018		NA	NA	NA	NA	NA	NA
19-Aug-2018		NA	NA	NA	NA	NA	NA
20-Aug-2018		1.36	1.41	1.67	1.28	1.31	1.47
21-Aug-2018		1.36	1.39	1.59	1.26	1.33	1.56
22-Aug-2018		1.19	1.26	1.42	1.20	1.28	1.42
23-Aug-2018		1.44	1.47	1.60	1.33	1.41	1.66
24-Aug-2018		1.52	1.54	1.75	1.41	1.41	1.66
25-Aug-2018		NA	NA	NA	NA	NA	NA
26-Aug-2018		NA	NA	NA	NA	NA	NA
27-Aug-2018		1.49	1.58	1.75	1.41	1.36	1.67
28-Aug-2018		1.19	1.36	1.57	1.34	1.49	1.69
29-Aug-2018		1.43	1.57	1.81	1.40	1.54	1.66
30-Aug-2018		1.44	1.61	1.82	1.44	1.65	1.78
31-Aug-2018		1.35	1.46	1.69	1.42	1.46	1.63
<b>Total number of measurements taken, A:</b>		22			22		
<b>Chlorine Standard for Monitoring Location (mg/L):</b>		0.50			0.50		
<b>Number of measurements meeting standard, B:</b>		22			22		
<b>Compliance with Chlorine Standard, C= B/A X 100%:</b>		100%			100%		

NS: No Sample    NA: Not Analyzed    OL: Off-Line

Comments: \_\_\_\_\_ Report Compiled By: \_\_\_\_\_ H.Demchenko

Authorized in Sample Manager By: \_\_\_\_\_ C.Diduck

Date Authorized: \_\_\_\_\_ 6-Sep-18



**CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
WATER SERVICES

Water System Code: 252.00  
Licence Number: PWS-09-412-01

WATER TREATMENT PLANT UV REPORT

Report Period: August 2018

Report Created: Saturday, September 01, 2018

Date	Transmittance %	UVR-D100A				UVR-D200A				UVR-D300A				UVR-D400A				UVR-D500A				UVR-D600A				Total Water Volume [ML]				% Volume Treated To Dose
		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]		Water Volume [ML]				
		Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	
01/08/2018	95.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.04	65.04	0.00	0.00	84.96	84.96	0.00	0.00	0.00	0.00	0.00	0.00	79.98	79.98	0.00	0.00	229.97	229.97	100.00		
02/08/2018	95.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.01	65.01	0.00	0.00	84.99	84.99	0.00	0.00	0.00	0.00	0.00	0.00	80.03	80.03	0.00	0.00	230.04	230.04	100.00		
03/08/2018	95.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.99	64.99	0.00	0.00	85.02	85.02	0.00	0.00	0.00	0.00	0.00	0.00	79.98	79.98	0.00	0.00	229.99	229.99	100.00		
04/08/2018	95.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.01	65.01	0.00	0.00	85.00	85.00	0.00	0.00	0.00	0.00	0.00	0.00	79.99	79.99	0.00	0.00	229.99	229.99	100.00		
05/08/2018	95.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.99	64.99	0.00	0.00	84.99	84.99	0.00	0.00	0.00	0.00	0.00	0.00	80.01	80.01	0.00	0.00	229.99	229.99	100.00		
06/08/2018	95.24	0.00	0.00	41.04	41.04	0.00	0.00	0.00	0.00	28.50	28.50	0.00	0.00	80.45	80.45	0.00	0.00	0.00	0.00	0.00	0.00	80.02	80.02	0.00	0.00	229.99	229.99	100.00		
07/08/2018	95.16	0.00	0.00	69.90	69.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.69	72.69	0.00	0.00	0.00	0.00	0.00	0.00	79.45	79.45	0.00	0.00	222.04	222.04	100.00		
08/08/2018	95.10	0.00	0.00	70.62	70.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.41	73.41	0.00	0.00	0.00	0.00	0.00	0.00	80.27	80.27	0.00	0.00	224.30	224.30	100.00		
09/08/2018	94.72	0.00	0.00	72.54	72.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.56	76.56	0.00	0.00	0.00	0.00	0.00	0.00	74.90	74.90	0.00	0.00	224.00	224.00	100.00		
10/08/2018	95.14	0.00	0.00	75.71	75.71	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	81.49	81.49	0.00	0.00	0.00	0.00	0.00	0.05	72.68	72.74	0.00	0.05	229.99	230.04	99.98		
11/08/2018	95.04	0.00	0.00	75.87	75.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.04	82.04	0.00	0.00	0.00	0.00	0.00	0.05	73.39	73.44	0.00	0.05	231.30	231.35	99.98		
12/08/2018	94.91	0.00	0.00	76.11	76.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.57	82.57	0.00	0.00	0.00	0.00	0.00	0.00	76.29	76.29	0.00	0.00	234.98	234.98	100.00		
13/08/2018	94.83	0.00	0.00	76.06	76.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.86	82.86	0.00	0.00	0.00	0.00	0.00	0.00	76.09	76.09	0.00	0.00	235.01	235.01	100.00		
14/08/2018	94.82	0.00	0.00	76.28	76.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.13	83.13	0.00	0.00	0.00	0.00	0.00	0.00	76.28	76.28	0.00	0.00	235.69	235.69	100.00		
15/08/2018	95.30	0.00	0.00	76.73	76.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.22	83.22	0.00	0.00	0.00	0.00	0.00	0.00	77.10	77.10	0.00	0.00	237.05	237.05	100.00		
16/08/2018	95.33	0.00	0.00	66.53	66.53	0.00	0.00	13.76	13.76	0.00	0.00	0.00	0.00	78.80	78.80	0.00	0.00	11.47	11.47	0.00	0.00	72.41	72.41	0.00	0.00	242.96	242.96	100.00		
17/08/2018	95.47	0.00	0.00	70.00	70.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.98	69.98	0.00	0.00	39.14	39.14	0.00	0.00	67.60	67.60	0.00	0.00	246.72	246.72	100.00		
18/08/2018	95.44	0.00	0.00	70.00	70.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.01	70.01	0.00	0.00	36.77	36.77	0.00	0.00	63.62	63.62	0.00	0.00	240.40	240.40	100.00		
19/08/2018	95.48	0.00	0.00	68.20	68.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.00	70.00	0.00	0.00	30.87	30.87	0.00	0.00	55.48	55.48	0.00	0.00	224.56	224.56	100.00		
20/08/2018	95.51	0.00	0.00	67.65	67.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.00	70.00	0.00	0.00	29.03	29.03	0.00	0.00	53.32	53.32	0.00	0.00	220.00	220.00	100.00		
21/08/2018	95.52	0.00	0.00	64.62	64.62	0.00	0.00	0.00	0.00	21.55	21.55	0.00	0.00	63.96	63.96	0.00	0.00	47.82	47.82	0.00	0.04	22.00	22.03	0.00	0.04	219.95	219.99	99.98		
22/08/2018	95.56	0.00	0.00	63.08	63.08	0.00	0.00	0.00	0.00	37.45	37.45	0.00	0.00	60.34	60.34	0.00	0.00	61.64	61.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	222.51	222.51	100.00
23/08/2018	95.53	0.00	0.00	67.66	67.66	0.00	0.00	0.00	0.00	41.34	41.34	0.00	0.00	66.34	66.34	0.00	0.00	69.33	69.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	244.67	244.67	100.00
24/08/2018	95.41	0.00	0.00	69.60	69.60	0.00	0.00	0.00	0.00	43.63	43.63	0.00	0.00	68.71	68.71	0.00	0.00	72.01	72.01	0.00	0.00	2.41	2.41	0.00	0.00	256.36	256.36	100.00		
25/08/2018	95.39	0.00	0.00	70.02	70.02	0.00	0.00	0.00	0.00	44.53	44.53	0.00	0.00	70.03	70.03	0.00	0.00	75.43	75.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	260.01	260.01	100.00
26/08/2018	95.39	0.00	0.00	69.42	69.42	0.00	0.00	0.00	0.00	42.75	42.75	0.00	0.00	67.95	67.95	0.00	0.00	72.52	72.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	252.64	252.64	100.00
27/08/2018	95.49	0.00	0.00	66.87	66.87	0.00	0.00	13.06	13.06	0.00	0.00	48.72	48.72	0.00	0.00	70.92	70.92	0.00	0.24	31.94	32.18	0.03	0.03	10.01	10.07	0.03	0.27	241.52	241.82	99.87
28/08/2018	95.63	0.00	0.00	67.17	67.17	0.00	0.04	18.32	18.37	0.00	0.00	28.47	28.47	0.00	0.00	81.87	81.87	0.00	0.00	0.10	0.10	0.00	0.00	35.49	35.49	0.00	0.04	231.42	231.47	99.98
29/08/2018	95.61	0.00	0.00	71.09	71.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.31	77.31	0.00	0.00	0.00	0.00	0.00	0.00	69.80	69.80	0.00	0.00	218.20	218.20	100.00		
30/08/2018	95.63	0.00	0.00	68.21	68.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.35	74.35	0.00	0.00	42.84	42.84	0.00	0.00	24.58	24.59	0.00	0.00	209.99	210.00	100.00		
31/08/2018	95.62	0.00	0.00	68.38	68.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.25	74.25	0.00	0.00	67.37	67.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	209.99	209.99	100.00
<b>Total [ML]:</b>		0.00	0.00	1799.35	1799.35	0.00	0.04	45.14	45.18	0.00	0.00	662.07	662.07	0.00	0.00	2358.23	2358.23	0.00	0.24	688.27	688.52	0.03	0.17	1643.19	1643.39	0.03	0.46	7196.24	7196.74	

Submitted By (Print): D. Merredew

Signature: Original Signed by D. Merredew

Water Volume [%]:

Untreated: