



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

*Environmental Standards Division • Division des Normes Environnementales*

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July 6, 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: JUNE 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 June 2018. There are no corrective action reports to be submitted for June 2018.

The June 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 4 on June 5 and Filter 6 on June 20 were greater than 0.3 NTU after completion of scheduled plant maintenance shutdowns; the elevated turbidity 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 June 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 June 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**

June 2018 Turbidity (NTU)

Date	Raw	Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
	Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/06/2018	1.02	0.08	0.13	0.03	0.06	0.09	0.15	0.06	0.06	0.01	0.01	0.03	0.04	0.01	0.04	0.01	0.01
2/06/2018	0.95	0.07	0.10	0.03	0.07	0.10	0.12	0.05	0.12	0.00	0.03	0.05	0.08	0.01	0.02	0.01	0.01
3/06/2018	0.65	0.10	0.14	0.03	0.05	0.08	0.16	0.05	0.10	0.00	0.03	0.04	0.09	0.01	0.04	0.01	0.01
4/06/2018	0.68	0.08	0.14	0.03	0.07	0.08	0.11	0.07	0.08	0.01	0.02	0.06	0.07	0.01	0.04	0.01	0.01
5/06/2018	0.79	0.05	0.16	0.02	0.11	0.05	0.18	0.03	0.33	0.00	0.01	0.03	0.22	0.02	0.14	0.01	0.08
6/06/2018	1.02	0.07	0.12	0.02	0.04	0.07	0.12	0.07	0.30	0.04	0.26	0.10	0.21	0.04	0.20	0.03	0.11
7/06/2018	0.84	0.05	0.11	0.01	0.05	0.05	0.10	0.06	0.20	0.02	0.05	0.06	0.08	0.01	0.06	0.01	0.03
8/06/2018	0.79	0.02	0.07	0.01	0.06	0.04	0.06	0.03	0.06	0.02	0.06	0.05	0.10	0.02	0.03	0.01	0.03
9/06/2018	0.83	0.03	0.05	0.01	0.04	0.04	0.08	0.03	0.05	0.02	0.04	0.05	0.08	0.02	0.05	0.01	0.01
10/06/2018	0.93	0.03	0.05	0.01	0.03	0.04	0.07	0.03	0.09	0.02	0.03	0.05	0.08	0.02	0.04	0.01	0.01
11/06/2018	0.92	0.03	0.05	0.01	0.03	0.04	0.08	0.04	0.05	0.03	0.05	0.06	0.09	0.02	0.04	0.01	0.01
12/06/2018	0.89	0.03	0.06	0.01	0.05	0.05	0.06	0.04	0.07	0.02	0.04	0.07	0.09	0.02	0.03	0.01	0.01
13/06/2018	0.91	0.04	0.05	0.01	0.04	0.04	0.09	0.05	0.08	0.03	0.05	0.07	0.11	0.02	0.04	0.01	0.01
14/06/2018	1.07	0.04	0.07	0.02	0.04	0.04	0.09	0.05	0.09	0.02	0.04	0.07	0.12	0.02	0.05	0.01	0.01
15/06/2018	1.09	0.04	0.09	0.02	0.06	0.05	0.08	0.08	0.10	0.03	0.05	0.09	0.11	0.02	0.04	0.01	0.02
16/06/2018	1.02	0.04	0.05	0.01	0.05	0.05	0.06	0.08	0.11	0.03	0.08	0.11	0.13	0.02	0.02	0.01	0.01
17/06/2018	1.02	0.06	0.07	0.02	0.03	0.04	0.07	0.08	0.14	0.03	0.04	0.11	0.16	0.02	0.04	0.01	0.01
18/06/2018	1.13	0.05	0.09	0.01	0.04	0.04	0.06	0.12	0.15	0.04	0.05	0.15	0.16	0.02	0.04	0.01	0.02
19/06/2018	1.16	0.06	0.07	0.01	0.04	0.06	0.10	0.05	0.16	0.03	0.05	0.07	0.19	0.02	0.03	0.01	0.02
20/06/2018	1.25	0.07	0.14	0.02	0.07	0.04	0.10	0.02	0.06	0.04	0.08	0.03	0.38	0.02	0.08	0.01	0.04
21/06/2018	1.24	0.07	0.10	0.01	0.05	0.05	0.08	0.01	0.04	0.03	0.06	0.04	0.06	0.02	0.04	0.01	0.01
22/06/2018	1.26	0.08	0.12	0.01	0.05	0.05	0.07	0.01	0.03	0.03	0.10	0.04	0.09	0.02	0.06	0.01	0.01
23/06/2018	1.32	0.11	0.12	0.01	0.06	0.05	0.08	0.01	0.03	0.04	0.07	0.03	0.06	0.02	0.03	0.01	0.01
24/06/2018	1.35	0.12	0.15	0.03	0.05	0.06	0.11	0.02	0.05	0.04	0.07	0.04	0.08	0.03	0.05	0.01	0.01
25/06/2018	1.25	0.13	0.18	0.03	0.06	0.07	0.08	0.02	0.05	0.05	0.07	0.04	0.08	0.03	0.05	0.01	0.02
26/06/2018	1.21	0.11	0.17	0.03	0.08	0.08	0.11	0.03	0.04	0.05	0.09	0.04	0.08	0.03	0.06	0.01	0.01
27/06/2018	1.32	0.04	0.08	0.03	0.06	0.07	0.13	0.03	0.07	0.06	0.09	0.05	0.08	0.03	0.05	0.01	0.03
28/06/2018	1.87	0.04	0.07	0.03	0.06	0.07	0.12	0.02	0.10	0.05	0.09	0.04	0.08	0.03	0.07	0.01	0.01
29/06/2018	2.21	0.04	0.07	0.03	0.06	0.07	0.13	0.02	0.06	0.07	0.08	0.04	0.07	0.03	0.06	0.01	0.01
30/06/2018	1.83	0.04	0.08	0.04	0.08	0.10	0.12	0.03	0.05	0.08	0.11	0.04	0.07	0.04	0.06	0.01	0.02

Total Number of Measurements Taken, A:	15207	13491	15325	13810	16016	14589	14628	15359
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:	15207	13491	15325	13795	16016	14588	14628	15359
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	100.000%	100.000%	99.891%	100.000%	99.993%	100.000%	100.000%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2018\06-June

Submitted By (Print): M.Szmon

Signature: Original signed by M. Szmon



CITY OF WINNIPEG  
WATER AND WASTE DEPARTMENT  
ENVIRONMENTAL STANDARDS DIVISION

**WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT**

Water System Code: 252.00		Turbidity (NTU)																	
Licence No. PWS-09-412-01																			
Date	Raw Water		Filter 1		Filter 2		Filter 3		Filter 4		Filter 5		Filter 6		Filter 7		Filter 8		
	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	
01-Jun-2018	0.81	1.03	OL	OL	0.09	0.05	0.09	0.10	0.09	0.06	0.08	<0.02	0.09	0.04	0.09	<0.02	0.08	<0.02	
02-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
03-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
04-Jun-2018	0.71	0.32	OL	OL	0.09	0.05	0.07	0.10	0.07	0.08	0.07	<0.02	0.07	0.06	0.06	<0.02	0.07	<0.02	
05-Jun-2018	0.70	0.64	0.07	0.09	0.08	0.03	0.10	0.10	OL	OL	OL	OL	0.10	0.08	0.07	<0.02	0.07	<0.02	
06-Jun-2018	0.65	0.79	OL	OL	0.07	0.03	0.07	0.08	0.07	0.09	0.12	0.05	0.13	0.15	OL	OL	0.14	0.06	
07-Jun-2018	0.58	0.87	0.09	0.03	OL	OL	0.07	0.03	0.09	0.03	0.07	0.03	0.08	0.07	0.07	<0.02	0.08	<0.02	
08-Jun-2018	0.64	0.73	0.07	0.02	0.07	<0.02	0.08	0.04	0.08	0.04	OL	OL	0.08	0.08	0.07	0.02	OL	OL	
09-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Jun-2018	0.76	0.94	OL	OL	0.09	0.03	0.07	0.05	0.08	0.05	0.08	0.03	0.08	0.07	0.07	<0.02	0.08	<0.02	
12-Jun-2018	0.72	0.80	0.08	0.02	0.08	0.02	0.08	0.05	0.07	0.06	0.08	0.03	0.08	0.08	0.08	<0.02	OL	OL	
13-Jun-2018	0.71	0.88	0.07	0.02	0.07	0.02	0.08	0.05	OL	OL	0.07	0.02	0.09	0.10	0.07	<0.02	0.06	<0.02	
14-Jun-2018	0.75	1.33	0.10	0.04	0.10	0.02	OL	OL	0.07	0.06	0.08	0.02	0.07	0.09	0.09	0.02	0.09	<0.02	
15-Jun-2018	0.79	0.98	OL	OL	0.08	0.04	0.08	0.06	0.08	0.09	0.07	0.03	0.07	0.11	0.07	<0.02	0.07	<0.02	
16-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
17-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
18-Jun-2018	0.92	1.14	OL	OL	0.09	0.03	0.08	0.05	0.08	0.12	0.08	0.03	0.07	0.15	0.09	<0.02	0.08	<0.02	
19-Jun-2018	0.95	1.09	0.08	0.05	0.08	0.02	0.08	0.05	0.09	0.16	OL	OL	0.08	0.18	0.08	<0.02	0.07	<0.02	
20-Jun-2018	1.08	1.23	0.07	0.08	0.08	0.04	0.08	0.06	0.08	0.03	0.07	0.03	0.09	0.05	0.08	0.03	0.10	0.02	
21-Jun-2018	1.02	1.22	0.07	0.08	OL	OL	0.07	0.06	0.08	0.03	0.08	0.04	0.09	0.06	0.08	0.02	0.08	0.02	
22-Jun-2018	1.03	1.20	0.07	0.08	0.07	0.02	0.07	0.05	0.09	0.03	0.15	0.09	0.14	0.10	0.14	0.05	OL	OL	
23-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
24-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
25-Jun-2018	1.08	1.11	0.10	0.16	0.09	0.05	0.09	0.08	0.07	0.02	0.06	0.04	0.07	0.05	OL	OL	0.07	<0.02	
26-Jun-2018	0.95	1.12	0.09	0.15	OL	OL	0.11	0.08	0.11	0.03	0.10	0.06	0.10	0.06	0.09	0.02	0.12	0.03	
27-Jun-2018	1.17	1.34	0.08	0.04	0.08	0.03	0.13	0.11	0.10	0.04	OL	OL	0.09	0.06	0.08	0.03	0.07	<0.02	
28-Jun-2018	0.92	1.26	0.08	<0.02	0.08	0.03	0.07	0.07	OL	OL	0.08	0.05	0.09	0.05	0.10	0.02	0.10	<0.02	
29-Jun-2018	1.04	1.24	0.10	0.03	0.08	0.04	0.07	0.08	0.09	0.04	0.07	0.06	OL	OL	0.08	0.04	0.07	<0.02	
30-Jun-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total number of measurements taken, A:</b>			15		18		20		18		17		20		19		18		
<b>Turbidity Standard for Monitoring Location (NTU):</b>			0.30		0.30		0.30		0.30		0.30		0.30		0.30		0.30		
<b>Number of measurements meeting standard, B:</b>			15		18		20		18		17		20		19		18		
<b>Compliance with Turbidity Standard, C= B/A X 100%:</b>			100%		100%		100%		100%		100%		100%		100%		100%		

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

Comments:

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 6-Jul-18



**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 July 2018**

Report Period: June 2018

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/06/2018	1.18	0.98	1.12	0.93
02/06/2018	1.05	0.92	1.00	0.83
03/06/2018	0.96	0.79	0.90	0.77
04/06/2018	1.01	0.82	0.98	0.88
05/06/2018	1.05	0.79	1.00	0.74
06/06/2018	1.28	0.82	1.07	0.73
07/06/2018	1.16	1.02	1.13	1.03
08/06/2018	1.09	0.87	1.00	0.80
09/06/2018	1.15	0.86	1.14	0.79
10/06/2018	1.20	1.08	1.15	1.02
11/06/2018	1.09	0.97	1.01	0.90
12/06/2018	0.99	0.64	1.00	0.74
13/06/2018	0.97	0.67	0.98	0.86
14/06/2018	1.13	1.05	1.05	0.95
15/06/2018	1.24	1.11	1.20	1.03
16/06/2018	1.09	0.97	1.09	1.03
17/06/2018	1.09	0.93	1.14	1.02
18/06/2018	1.12	1.02	1.14	1.09
19/06/2018	1.10	0.99	1.16	1.07
20/06/2018	1.03	0.63	1.17	0.70
21/06/2018	1.22	0.97	1.36	1.13
22/06/2018	1.25	1.02	1.30	1.10
23/06/2018	1.35	1.10	1.28	1.09
24/06/2018	1.27	1.13	1.22	1.08
25/06/2018	1.20	1.05	1.14	1.06
26/06/2018	1.18	1.06	1.14	1.04
27/06/2018	1.19	1.07	1.16	1.07
28/06/2018	1.17	1.05	1.15	1.07
29/06/2018	1.09	0.93	1.03	0.89
30/06/2018	1.08	0.97	1.03	0.93

Total Number of Measurements, A:	20879	20880
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	20879	20880
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2018\06-June

Submitted By (Print):  M.Szmon

Signature:  Original signed by M.Szmon



CITY OF WINNIPEG  
 WATER AND WASTE DEPARTMENT  
 ENVIRONMENTAL STANDARDS DIVISION

**WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT**

Water System Code: 252.00 Licence No. PWS-09-412-01	Deacon Booster Pumping Station Branch 1			Deacon Booster Pumping Station Branch 2		
	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)
Date	Analyser	Grab	Grab	Analyser	Grab	Grab
01-Jun-2018	1.12	1.15	1.34	1.10	1.12	1.32
02-Jun-2018	NA	NA	NA	NA	NA	NA
03-Jun-2018	NA	NA	NA	NA	NA	NA
04-Jun-2018	0.94	0.95	1.23	0.89	1.01	1.15
05-Jun-2018	1.07	1.14	1.30	1.04	1.11	1.31
06-Jun-2018	0.82	1.12	1.43	0.90	1.12	1.34
07-Jun-2018	1.15	1.31	1.56	1.16	1.21	1.43
08-Jun-2018	1.11	1.16	1.33	1.06	1.13	1.29
09-Jun-2018	NA	NA	NA	NA	NA	NA
10-Jun-2018	NA	NA	NA	NA	NA	NA
11-Jun-2018	1.23	1.23	1.42	1.11	1.13	1.31
12-Jun-2018	0.99	1.12	1.32	1.04	1.08	1.26
13-Jun-2018	0.87	1.11	1.30	0.97	1.15	1.28
14-Jun-2018	1.15	1.19	1.36	1.03	1.17	1.39
15-Jun-2018	1.18	1.29	1.49	1.12	1.24	1.46
16-Jun-2018	NA	NA	NA	NA	NA	NA
17-Jun-2018	NA	NA	NA	NA	NA	NA
18-Jun-2018	1.21	1.21	1.42	1.14	1.18	1.42
19-Jun-2018	1.06	1.14	1.30	1.16	1.22	1.39
20-Jun-2018	0.95	1.10	1.25	1.10	1.17	1.36
21-Jun-2018	1.02	1.25	1.35	1.16	1.26	1.50
22-Jun-2018	1.29	1.29	1.48	1.33	1.33	1.51
23-Jun-2018	NA	NA	NA	NA	NA	NA
24-Jun-2018	NA	NA	NA	NA	NA	NA
25-Jun-2018	1.17	1.18	1.36	1.14	1.13	1.33
26-Jun-2018	1.20	1.20	1.33	1.17	1.14	1.32
27-Jun-2018	1.08	1.19	1.39	1.10	1.19	1.33
28-Jun-2018	1.25	1.23	1.45	1.23	1.27	1.45
29-Jun-2018	1.16	1.09	1.31	1.09	1.11	1.28
30-Jun-2018	NA	NA	NA	NA	NA	NA
<b>Total number of measurements taken, A:</b>		21			21	
<b>Chlorine Standard for Monitoring Location (mg/L):</b>		0.50			0.50	
<b>Number of measurements meeting standard, B:</b>		21			21	
<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

Approved in LIMS By: C.Diduck

Date Approved: 6-Jul-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: **June 2018**

Report Created: **Sunday, July 01, 2018**

Date	Transmittance %	UVR-D100A Water Volume [ML]				UVR-D200A Water Volume [ML]				UVR-D300A Water Volume [ML]				UVR-D400A Water Volume [ML]				UVR-D500A Water Volume [ML]				UVR-D600A Water Volume [ML]				Total Water Volume [ML]				% Volume Treated To Dose
		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	
		01/06/2018	97.27	0.00	0.00	47.97	47.97	0.00	0.00	0.00	0.00	0.00	0.00	61.84	61.84	0.00	0.00	0.00	0.00	0.00	0.00	57.78	57.78	0.00	0.00	33.03	33.03	0.00	0.00	
02/06/2018	96.82	0.00	0.00	42.05	42.05	0.00	0.00	0.00	0.00	0.00	0.00	54.76	54.76	0.00	0.00	0.00	0.00	0.00	0.00	54.97	54.97	0.00	0.00	30.90	30.90	0.00	0.00	182.68	182.68	100.00
03/06/2018	95.65	0.00	0.00	41.11	41.11	0.00	0.00	0.00	0.00	0.00	0.00	53.63	53.63	0.00	0.00	0.00	0.00	0.00	0.00	54.56	54.56	0.00	0.00	30.71	30.71	0.00	0.00	180.02	180.02	100.00
04/06/2018	95.68	0.00	0.00	49.25	49.25	0.00	0.00	23.24	23.24	0.00	0.08	22.37	22.44	0.00	0.70	17.11	17.81	0.00	0.00	23.77	23.77	0.00	0.00	45.14	45.14	0.00	0.77	180.89	181.66	99.57
05/06/2018	95.08	0.09	0.09	33.91	34.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	32.02	32.18	0.01	0.01	0.53	0.56	0.00	0.03	31.09	31.12	0.18	0.21	97.55	97.95	99.60
06/06/2018	93.47	0.00	0.00	59.17	59.17	0.00	0.00	0.00	0.00	0.00	0.00	34.29	34.29	0.22	0.22	41.47	41.91	0.00	0.00	1.48	1.48	0.00	0.11	70.36	70.47	0.22	0.33	206.76	207.31	99.73
07/06/2018	95.62	0.00	0.05	70.01	70.05	0.00	0.00	0.00	0.00	0.00	0.00	46.27	46.27	0.00	0.00	34.15	34.15	0.00	0.00	0.00	0.00	0.00	0.00	70.16	70.16	0.00	0.05	220.60	220.65	99.98
08/06/2018	95.52	0.00	0.00	83.03	83.03	0.00	0.00	1.38	1.38	0.00	0.00	0.00	0.00	0.01	0.01	33.55	33.57	0.05	0.05	26.13	26.23	0.09	0.09	75.27	75.44	0.14	0.14	219.35	219.64	99.87
09/06/2018	95.50	0.00	0.00	82.16	82.16	0.00	0.00	0.00	0.00	0.00	0.00	47.68	47.68	0.00	0.00	0.00	0.00	0.00	0.00	10.04	10.04	0.00	0.00	72.67	72.67	0.00	0.00	212.55	212.55	100.00
10/06/2018	95.51	0.00	0.00	80.28	80.28	0.00	0.00	0.00	0.00	0.00	0.12	37.28	37.41	0.00	0.00	31.85	31.85	0.00	0.00	0.00	0.00	0.00	0.00	80.01	80.01	0.00	0.12	229.42	229.54	99.95
11/06/2018	95.50	0.00	0.00	73.69	73.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.31	76.31	0.00	0.00	0.00	0.00	0.00	0.00	79.98	79.98	0.00	0.00	229.98	229.98	100.00
12/06/2018	95.58	0.01	0.01	65.50	65.52	0.00	0.07	14.79	14.86	0.00	0.00	7.78	7.78	0.00	0.00	72.19	72.19	0.00	0.06	25.77	25.83	0.06	0.06	37.46	37.57	0.06	0.19	223.48	223.74	99.89
13/06/2018	95.69	0.00	0.00	80.55	80.55	0.00	0.15	1.79	1.94	0.00	0.00	31.70	31.70	0.00	0.00	39.13	39.13	0.00	0.00	30.08	30.08	0.00	0.00	49.19	49.19	0.00	0.15	232.43	232.59	99.93
14/06/2018	95.69	0.00	0.00	81.69	81.69	0.00	0.00	0.00	0.00	0.00	0.00	49.37	49.37	0.00	0.00	18.11	18.11	0.00	0.00	0.19	0.19	0.00	0.00	82.45	82.45	0.00	0.00	231.80	231.80	100.00
15/06/2018	94.52	0.00	0.00	81.11	81.11	0.00	0.00	0.00	0.00	0.00	0.00	50.30	50.30	0.00	0.00	0.00	0.00	0.00	0.00	10.52	10.52	0.00	0.00	80.49	80.49	0.00	0.00	222.42	222.42	100.00
16/06/2018	95.80	0.18	0.18	36.35	36.72	0.00	0.00	0.00	0.00	0.00	0.00	56.01	56.01	0.00	0.00	35.18	35.18	0.00	0.00	0.00	0.00	0.00	0.00	80.00	80.00	0.18	0.18	207.54	207.90	99.83
17/06/2018	95.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.54	55.54	0.00	0.00	60.49	60.49	0.00	0.00	0.00	0.00	0.00	0.00	79.99	79.99	0.00	0.00	196.02	196.02	100.00
18/06/2018	95.82	0.00	0.00	0.00	0.00	0.00	0.00	27.20	27.20	0.00	0.00	35.43	35.43	0.00	0.00	55.32	55.32	0.00	0.00	0.00	0.00	0.00	0.00	76.98	76.98	0.00	0.00	194.92	194.92	100.00
19/06/2018	95.90	0.00	0.00	0.00	0.00	0.00	0.00	51.11	51.11	0.00	0.00	47.24	47.24	0.00	0.00	21.17	21.17	0.00	0.00	0.00	0.00	0.00	0.00	77.30	77.30	0.00	0.00	196.81	196.81	100.00
20/06/2018	94.90	0.00	0.00	0.00	0.00	0.00	0.00	58.99	58.99	0.00	0.00	56.90	56.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.13	69.13	0.00	0.00	185.02	185.02	100.00
21/06/2018	95.39	0.00	0.00	30.87	30.87	0.00	0.00	32.77	32.77	0.00	0.00	49.11	49.11	0.00	0.00	0.00	0.00	0.00	0.00	39.55	39.55	0.00	0.00	79.96	79.96	0.00	0.00	232.26	232.26	100.00
22/06/2018	95.74	0.00	0.00	75.08	75.08	0.00	0.00	0.30	0.30	0.00	0.00	32.71	32.71	0.00	0.00	0.00	0.00	0.00	0.00	60.93	60.93	0.00	0.00	77.24	77.24	0.00	0.00	246.26	246.26	100.00
23/06/2018	95.73	0.00	0.00	67.12	67.12	0.00	0.00	0.00	0.00	0.00	0.00	69.83	69.83	0.00	0.00	0.00	0.00	0.00	0.00	36.80	36.80	0.00	0.00	65.98	65.98	0.00	0.00	239.73	239.73	100.00
24/06/2018	95.65	0.00	0.00	67.57	67.57	0.00	0.00	0.00	0.00	0.00	0.00	64.99	64.99	0.00	0.00	0.00	0.00	0.00	0.00	36.82	36.82	0.00	0.00	67.64	67.64	0.00	0.00	237.01	237.01	100.00
25/06/2018	95.63	0.00	0.00	67.59	67.59	0.00	0.00	0.00	0.00	0.00	0.00	65.04	65.04	0.00	0.00	0.00	0.00	0.00	0.00	36.94	36.94	0.00	0.00	67.48	67.48	0.00	0.00	237.05	237.05	100.00
26/06/2018	95.64	0.00	0.00	67.61	67.61	0.00	0.00	0.00	0.00	0.00	0.00	65.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	37.05	37.05	0.00	0.00	67.39	67.39	0.00	0.00	237.05	237.05	100.00
27/06/2018	95.61	0.00	0.00	67.64	67.64	0.00	0.00	0.00	0.00	0.00	0.00	65.02	65.02	0.00	0.00	0.00	0.00	0.00	0.00	37.01	37.01	0.00	0.00	67.33	67.33	0.00	0.00	237.01	237.01	100.00
28/06/2018	95.64	0.00	0.00	79.94	79.94	0.00	0.00	0.00	0.00	0.00	0.00	18.81	18.81	0.00	0.00	0.00	0.00	0.00	0.00	51.04	51.04	0.00	0.00	79.95	79.95	0.00	0.00	229.74	229.74	100.00
29/06/2018	95.80	0.00	0.00	85.00	85.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.67	45.67	0.00	0.00	83.40	83.40	0.00	0.00	214.07	214.07	100.00
30/06/2018	95.64	0.00	0.00	84.98	84.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.33	41.33	0.00	0.00	76.66	76.66	0.00	0.00	202.97	202.97	100.00
<b>Total [ML]:</b>		0.27	0.32	1701.24	1701.84	0.00	0.23	211.56	211.79	0.00	0.20	1178.89	1179.09	0.31	1.01	568.07	569.38	0.07	0.13	718.96	719.15	0.14	0.28	1985.29	1985.72	0.79	2.16	6364.01	6366.96	

**Water Volume [%]:**  
 Untreated: 0.01 %  
 Below Dose: 0.03 %  
 To Dose: 99.95 %

Submitted By: M.Szmon

Signature: Original Signed by M.Szmon