



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

*Environmental Standards Division • Division des Normes Environnementales*

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March 6, 2017

Marc Balcaen  
Office of Drinking Water  
Manitoba Sustainable Development  
1007 Century Street  
Winnipeg, Manitoba R3H 0W4

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

Dear Mr. Balcaen:

**RE: FEBRUARY 2017 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 February 2017. There are no corrective action reports to be submitted for February 2017.

The February on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The turbidity results for the effluent from the filters met the licence requirements.

The February 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 February 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 may 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**

February 2017 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
1/02/2017	0.56	0.02	0.06	0.03	0.07	0.00	0.02	0.02	0.02	0.01	0.04	0.01	0.03	0.01	0.03	0.00	0.01
2/02/2017	0.55	0.02	0.04	0.01	0.06	0.00	0.01	0.01	0.01	0.05	0.00	0.01	0.05	0.01	0.01	0.01	0.01
3/02/2017	0.54	0.02	0.04	0.02	0.03	0.00	0.00	0.01	0.02	0.01	0.02	0.01	0.01	0.00	0.02	0.00	0.01
4/02/2017	0.54	0.01	0.05	0.02	0.05	0.00	0.00	0.02	0.02	0.00	0.02	0.01	0.03	0.00	0.01	0.01	0.01
5/02/2017	0.54	0.03	0.04	0.02	0.06	0.00	0.01	0.00	0.03	0.00	0.01	0.01	0.04	0.01	0.02	0.00	0.01
6/02/2017	0.53	0.03	0.05	0.02	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.04	0.01	0.03	0.01	0.01
7/02/2017	0.53	0.02	0.05	0.03	0.06	0.00	0.01	0.00	0.00	0.01	0.03	0.01	0.02	0.01	0.03	0.01	0.01
8/02/2017	0.52	0.02	0.03	0.02	0.06	0.00	0.00	0.00	0.04	0.00	0.03	0.01	0.02	0.01	0.01	0.01	0.01
9/02/2017	0.53	0.01	0.03	0.01	0.03	0.00	0.00	0.01	0.02	0.00	0.01	0.00	0.03	0.00	0.01	0.00	0.01
10/02/2017	0.53	0.01	0.04	0.02	0.03	0.00	0.00	0.01	0.02	0.00	0.02	0.01	0.01	0.00	0.02	0.01	0.01
11/02/2017	0.53	0.02	0.03	0.01	0.05	0.00	0.00	0.01	0.04	0.00	0.01	0.01	0.03	0.01	0.01	0.01	0.01
12/02/2017	0.52	0.02	0.05	0.01	0.03	0.00	0.00	0.02	0.02	0.01	0.03	0.01	0.07	0.01	0.04	0.00	0.01
13/02/2017	0.53	0.02	0.06	0.03	0.07	0.00	0.03	0.01	0.05	0.01	0.04	0.02	0.04	0.00	0.01	0.01	0.01
14/02/2017	0.52	0.03	0.05	0.02	0.08	0.00	0.00	0.01	0.02	0.01	0.02	0.01	0.08	0.01	0.05	0.00	0.02
15/02/2017	0.52	0.03	0.06	0.03	0.06	0.00	0.03	0.00	0.07	0.01	0.04	0.01	0.02	0.01	0.05	0.01	0.01
16/02/2017	0.53	0.02	0.05	0.02	0.08	0.00	0.03	0.00	0.00	0.01	0.04	0.02	0.06	0.01	0.07	0.01	0.01
17/02/2017	0.53	0.04	0.08	0.03	0.10	0.00	0.00	0.00	0.00	0.01	0.04	0.02	0.06	0.02	0.08	0.01	0.04
18/02/2017	0.54	0.04	0.08	0.04	0.07	0.00	0.07	0.02	0.12	0.01	0.06	0.02	0.04	0.01	0.06	0.00	0.03
19/02/2017	0.55	0.02	0.06	0.02	0.08	0.00	0.03	0.01	0.05	0.00	0.03	0.01	0.10	0.01	0.03	0.01	0.01
20/02/2017	0.55	0.04	0.11	0.02	0.08	0.00	0.07	0.01	0.05	0.01	0.05	0.01	0.07	0.01	0.04	0.01	0.07
21/02/2017	0.56	0.03	0.07	0.03	0.08	0.00	0.02	0.02	0.06	0.01	0.03	0.01	0.02	0.01	0.05	0.00	0.02
22/02/2017	0.56	0.03	0.05	0.03	0.09	0.00	0.07	0.01	0.08	0.01	0.04	0.02	0.09	0.01	0.02	0.01	0.01
23/02/2017	0.56	0.02	0.05	0.01	0.03	0.00	0.06	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.00	0.01
24/02/2017	0.55	0.01	0.04	0.00	0.01	0.02	0.09	0.01	0.02	0.02	0.08	0.01	0.03	0.02	0.08	0.00	0.01
25/02/2017	0.55	0.01	0.02	0.00	0.04	0.02	0.11	0.01	0.05	0.02	0.09	0.02	0.10	0.03	0.05	0.01	0.01
26/02/2017	0.57	0.01	0.05	0.00	0.05	0.01	0.03	0.01	0.02	0.04	0.08	0.02	0.10	0.03	0.09	0.00	0.01
27/02/2017	0.58	0.01	0.05	0.00	0.01	0.03	0.14	0.01	0.06	0.03	0.08	0.02	0.03	0.03	0.09	0.01	0.01
28/02/2017	0.58	0.01	0.01	0.00	0.06	0.02	0.12	0.01	0.05	0.02	0.08	0.02	0.10	0.03	0.04	0.01	0.01

Total Number of Measurements Taken, A:	12910	8316	8333	6762	13501	13736	12137	13403
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:	12910	8316	8333	6762	13501	13736	12137	13403
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2017\02-February

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)																	
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-Feb-2017	0.49	0.55	OL	OL	0.08	0.04	0.11	<0.02	0.07	<0.02	0.10	<0.02	0.08	<0.02	0.07	<0.02	0.07	<0.02	
02-Feb-2017	0.51	0.52	0.06	<0.02	OL	OL	0.07	<0.02	0.08	<0.02	0.06	<0.02	0.08	<0.02	0.06	<0.02	0.06	<0.02	
03-Feb-2017	0.53	0.52	0.06	<0.02	0.07	0.02	0.06	<0.02	0.06	<0.02	0.06	<0.02	0.06	<0.02	OL	OL	OL	OL	
04-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
06-Feb-2017	0.50	0.50	0.07	0.02	0.08	0.02	0.07	<0.02	OL	OL	0.07	<0.02	0.07	<0.02	0.07	<0.02	OL	OL	
07-Feb-2017	0.47	0.50	OL	OL	0.06	0.03	0.07	<0.02	OL	OL	0.08	<0.02	0.07	<0.02	0.06	<0.02	0.08	<0.02	
08-Feb-2017	0.50	0.49	0.06	<0.02	OL	OL	0.06	<0.02	0.09	0.02	0.06	<0.02	0.08	<0.02	0.06	<0.02	0.06	<0.02	
09-Feb-2017	0.50	0.50	0.06	<0.02	0.05	0.02	0.06	<0.02	0.05	<0.02	0.06	<0.02	0.06	<0.02	0.07	<0.02	OL	OL	
10-Feb-2017	0.49	0.51	0.05	<0.02	0.06	0.02	0.06	<0.02	0.07	<0.02	0.07	<0.02	0.06	<0.02	0.06	<0.02	<0.05	<0.02	
11-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
13-Feb-2017	0.48	0.52	0.08	<0.02	0.08	0.03	0.10	<0.02	0.09	<0.02	OL	OL	0.11	<0.02	0.09	<0.02	0.08	<0.02	
14-Feb-2017	0.47	0.51	0.09	0.02	OL	OL	0.09	<0.02	0.08	<0.02	0.08	<0.02	0.11	0.03	0.10	<0.02	0.12	0.02	
15-Feb-2017	0.48	0.50	0.09	0.03	0.08	0.03	0.10	<0.02	0.12	<0.02	0.11	0.02	0.09	<0.02	0.07	<0.02	0.07	<0.02	
16-Feb-2017	0.56	0.52	0.12	0.03	0.18	0.08	0.14	<0.02	OL	OL	0.12	<0.02	0.06	<0.02	0.11	<0.02	0.10	<0.02	
17-Feb-2017	0.48	0.50	0.09	0.03	0.08	0.02	0.09	<0.02	OL	OL	0.10	<0.02	0.09	<0.02	0.16	<0.02	0.15	0.04	
18-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
19-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
20-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
21-Feb-2017	0.50	0.56	0.11	0.03	0.09	0.03	0.08	0.03	0.10	<0.02	0.09	<0.02	0.07	<0.02	OL	OL	0.06	<0.02	
22-Feb-2017	0.54	0.55	0.09	0.03	0.12	0.06	0.10	<0.02	OL	OL	0.09	<0.02	0.11	0.02	0.09	<0.02	0.08	<0.02	
23-Feb-2017	0.48	0.56	0.06	<0.02	0.06	<0.02	0.06	<0.02	0.06	<0.02	0.06	<0.02	OL	OL	0.07	<0.02	0.07	<0.02	
24-Feb-2017	0.50	0.53	0.12	0.02	0.08	<0.02	0.09	<0.02	0.09	<0.02	0.11	0.04	0.08	<0.02	0.07	<0.02	0.07	<0.02	
25-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
26-Feb-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
27-Feb-2017	0.52	0.55	0.12	0.02	0.10	<0.02	0.10	0.02	0.10	<0.02	0.10	0.04	0.11	<0.02	OL	OL	0.08	<0.02	
28-Feb-2017	0.50	0.56	0.08	<0.02	0.11	<0.02	0.16	0.10	OL	OL	0.09	0.02	0.09	0.02	0.09	<0.02	0.08	<0.02	
<b>Total number of measurements taken, A:</b>			17		16		19		13		18		18		16		15		
<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>			17		16		19		13		18		18		16		15		
<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-Mar-17



**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 March 2017

Report Period: February 2017

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/02/2017	1.17	1.08	1.25	1.07
02/02/2017	1.17	1.08	1.24	1.10
03/02/2017	1.20	1.15	1.26	1.12
04/02/2017	1.21	1.12	1.26	1.11
05/02/2017	1.22	1.14	1.26	1.12
06/02/2017	1.25	1.17	1.34	1.20
07/02/2017	1.23	1.11	1.28	1.10
08/02/2017	1.26	1.15	1.23	1.13
09/02/2017	1.28	1.19	1.25	1.13
10/02/2017	1.20	1.11	1.19	1.04
11/02/2017	1.19	1.13	1.16	1.04
12/02/2017	1.14	1.09	1.15	1.05
13/02/2017	1.07	0.99	1.11	0.94
14/02/2017	1.13	0.95	1.18	0.99
15/02/2017	1.22	1.17	1.18	1.00
16/02/2017	1.22	1.22	1.17	1.12
17/02/2017	1.27	1.22	1.14	1.04
18/02/2017	1.35	1.24	1.20	1.09
19/02/2017	1.25	1.15	1.18	1.12
20/02/2017	1.14	1.10	1.10	1.05
21/02/2017	1.15	1.07	1.11	1.06
22/02/2017	1.19	1.08	1.15	1.10
23/02/2017	1.21	1.15	1.13	1.05
24/02/2017	1.14	1.10	1.04	1.00
25/02/2017	1.21	1.12	1.09	1.04
26/02/2017	1.23	1.13	1.11	1.04
27/02/2017	1.18	1.09	1.12	1.02
28/02/2017	1.19	1.16	1.18	1.13

Total Number of Measurements, A:	19443	19441
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	19443	19441
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2017\02-February

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							
Date	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)	
	Analyser	Grab	Grab	Analyser	Grab	Grab	
01-Feb-2017	1.15	1.18	1.42	1.24	1.29	1.54	
02-Feb-2017	1.16	1.27	1.41	1.23	1.28	1.53	
03-Feb-2017	1.19	1.31	1.46	1.27	1.33	1.56	
04-Feb-2017	NS	NS	NS	NS	NS	NS	
05-Feb-2017	NS	NS	NS	NS	NS	NS	
06-Feb-2017	1.28	1.33	1.54	1.41	1.42	1.65	
07-Feb-2017	1.25	1.17	1.40	1.23	1.21	1.43	
08-Feb-2017	1.23	1.32	1.43	1.21	1.24	1.43	
09-Feb-2017	1.33	1.32	1.48	1.28	1.30	1.48	
10-Feb-2017	1.22	1.26	1.50	1.22	1.27	1.49	
11-Feb-2017	NS	NS	NS	NS	NS	NS	
12-Feb-2017	NS	NS	NS	NS	NS	NS	
13-Feb-2017	1.06	1.12	1.36	1.09	1.16	1.37	
14-Feb-2017	1.20	1.17	1.32	1.20	1.21	1.38	
15-Feb-2017	1.23	1.31	1.47	1.07	1.15	1.31	
16-Feb-2017	OL	OL	OL	1.24	1.34	1.50	
17-Feb-2017	1.27	1.33	1.51	1.11	1.19	1.47	
18-Feb-2017	NS	NS	NS	NS	NS	NS	
19-Feb-2017	NS	NS	NS	NS	NS	NS	
20-Feb-2017	NS	NS	NS	NS	NS	NS	
21-Feb-2017	1.15	1.30	1.50	1.09	1.23	1.41	
22-Feb-2017	1.20	1.35	1.50	1.12	1.24	1.43	
23-Feb-2017	1.21	1.37	1.50	1.12	1.26	1.44	
24-Feb-2017	1.14	1.27	1.43	1.04	1.11	1.32	
25-Feb-2017	NS	NS	NS	NS	NS	NS	
26-Feb-2017	NS	NS	NS	NS	NS	NS	
27-Feb-2017	1.17	1.33	1.49	1.10	1.24	1.43	
28-Feb-2017	1.20	1.37	1.51	1.18	1.25	1.44	
<b>Total number of measurements taken, A:</b>		18		19			
<b>Chlorine Standard for Monitoring Location (mg/L):</b>		0.50		0.50			
<b>Number of measurements meeting standard, B:</b>		18		19			
<b>Compliance with Chlorine Standard, C= B/A X 100%:</b>		100%		100%			

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

**Comments:**

On February 16th, DBPS 1 was offline at the time of sampling.

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 6-Mar-17



**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: **February 2017**

Report Created: **Wednesday, March 01, 2017**

Date	Transmittance %			UVR-D100A			UVR-D200A			UVR-D300A			UVR-D400A			UVR-D500A			UVR-D600A			Total			% Volume Treated To Dose	
	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total	Untreated	Below	Total		
01/02/2017	92.88	0.00	46.53	46.53	0.00	62.91	62.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.58	68.58	0.00	0.00	0.00	0.00	0.00	178.02	178.02	100.00
02/02/2017	93.09	0.00	46.51	46.51	0.00	62.93	62.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.56	68.56	0.00	0.00	0.00	0.00	0.00	178.01	178.01	100.00
03/02/2017	93.39	0.00	46.53	46.53	0.00	62.89	62.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.59	68.59	0.00	0.00	0.00	0.00	0.00	178.01	178.01	100.00
04/02/2017	93.12	0.00	46.76	46.76	0.00	62.60	62.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.64	68.64	0.00	0.00	0.00	0.00	0.00	177.99	177.99	100.00
05/02/2017	92.87	0.00	46.77	46.77	0.00	62.55	62.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.68	68.68	0.00	0.00	0.00	0.00	0.00	178.00	178.00	100.00
06/02/2017	92.76	0.00	46.75	46.75	0.00	62.43	62.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.82	68.82	0.00	0.00	0.00	0.00	0.00	178.00	178.00	100.00
07/02/2017	92.67	0.00	50.10	50.10	0.00	30.99	30.99	0.00	0.04	31.63	31.67	0.00	0.00	65.12	65.12	0.00	61.08	61.08	0.00	0.00	0.00	0.00	0.00	177.83	177.83	99.98
08/02/2017	92.51	0.00	54.11	54.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.80	60.80	0.00	0.00	0.00	0.00	0.00	178.00	178.00	100.00
09/02/2017	93.22	0.00	54.57	54.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.22	60.22	0.00	0.00	0.00	0.00	0.00	178.02	178.02	100.00
10/02/2017	93.08	0.00	53.87	53.87	0.00	0.00	0.00	0.00	0.00	0.00	61.97	61.97	0.00	0.00	60.10	60.10	0.00	60.10	60.10	0.00	0.00	0.00	0.00	176.06	176.06	100.00
11/02/2017	92.94	0.00	53.83	53.83	0.00	0.00	0.00	0.00	0.00	0.00	62.07	62.07	0.00	0.00	60.10	60.10	0.00	60.10	60.10	0.00	0.00	0.00	0.00	176.00	176.00	100.00
12/02/2017	92.88	0.00	53.87	53.87	0.00	0.00	0.00	0.00	0.00	0.00	61.95	61.95	0.00	0.00	60.18	60.18	0.00	60.18	60.18	0.00	0.00	0.00	0.00	176.00	176.00	100.00
13/02/2017	92.78	0.00	31.67	31.67	0.00	21.68	21.68	0.00	0.00	0.00	62.60	62.60	0.00	0.28	0.00	0.29	37.29	37.29	0.00	0.00	20.44	20.44	0.00	173.68	173.68	99.84
14/02/2017	92.65	0.00	0.00	0.00	0.00	56.13	56.13	0.00	0.00	0.00	56.75	56.75	0.00	0.00	0.00	0.00	36.38	36.38	0.00	0.00	17.20	17.20	0.00	166.41	166.41	99.98
15/02/2017	92.53	0.00	0.00	0.00	0.00	17.81	17.81	0.00	0.00	0.00	66.28	66.28	0.00	0.00	0.00	0.00	39.16	39.16	0.00	0.00	41.20	41.20	0.00	164.45	164.45	100.00
16/02/2017	92.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.69	73.69	0.00	0.00	0.00	0.00	36.95	36.95	0.00	0.00	64.54	64.54	0.00	175.19	175.19	100.00
17/02/2017	91.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.39	79.39	0.00	0.00	0.00	0.00	38.09	38.09	0.00	0.00	63.00	63.00	0.00	180.48	180.48	100.00
18/02/2017	91.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.03	85.03	0.00	0.00	0.00	0.00	39.86	39.86	0.00	0.00	63.15	63.15	0.00	188.04	188.04	100.00
19/02/2017	92.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.01	85.01	0.00	0.00	0.00	0.00	39.51	39.51	0.00	0.00	63.48	63.48	0.00	188.00	188.00	100.00
20/02/2017	91.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.79	83.79	0.00	0.00	0.00	0.00	37.94	37.94	0.00	0.00	62.81	62.81	0.00	184.53	184.53	100.00
21/02/2017	92.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.18	81.18	0.00	0.00	0.00	0.00	35.94	35.94	0.00	0.00	61.53	61.53	0.00	178.65	178.65	100.00
22/02/2017	92.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.07	80.07	0.00	0.00	0.00	0.00	34.82	34.82	0.00	0.00	61.42	61.42	0.00	176.32	176.32	100.00
23/02/2017	93.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.65	79.65	0.00	0.00	0.00	0.00	34.16	34.16	0.00	0.00	62.17	62.17	0.00	175.98	175.98	100.00
24/02/2017	93.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.56	79.56	0.00	0.00	0.00	0.00	34.17	34.17	0.00	0.00	62.29	62.29	0.00	176.02	176.02	100.00
25/02/2017	94.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.30	81.30	0.00	0.00	0.00	0.00	35.46	35.46	0.00	0.00	62.50	62.50	0.00	179.26	179.26	100.00
26/02/2017	93.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.16	80.16	0.00	0.00	0.00	0.00	35.24	35.24	0.00	0.00	61.15	61.15	0.00	176.55	176.55	100.00
27/02/2017	93.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.83	77.83	0.00	0.00	0.00	0.00	33.65	33.65	0.00	0.00	60.49	60.49	0.00	171.97	171.97	100.00
28/02/2017	93.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.70	77.70	0.00	0.00	0.00	0.00	33.41	33.41	0.00	0.00	60.89	60.89	0.00	171.99	171.99	100.00
<b>Total [ML]:</b>	<b>0.00</b>	<b>0.00</b>	<b>631.87</b>	<b>631.87</b>	<b>0.00</b>	<b>502.91</b>	<b>502.91</b>	<b>0.00</b>	<b>0.04</b>	<b>1573.05</b>	<b>1573.10</b>	<b>0.00</b>	<b>0.28</b>	<b>0.00</b>	<b>0.29</b>	<b>0.00</b>	<b>1361.37</b>	<b>1361.41</b>	<b>0.00</b>	<b>0.04</b>	<b>888.26</b>	<b>888.26</b>	<b>0.00</b>	<b>4957.47</b>	<b>4957.83</b>	<b>0.00</b>

**Water Volume [%]:**  
Untreated: 0.00 %  
Below Dose: 0.01 %  
To Dose: 99.99 %

Submitted By (Print): D. Merredew

Signature: Original Signed by D. Merredew