



Water and Waste Department • Service des eaux et des déchets

September 4, 2015

Melanie Betsill
Office of Drinking Water
Manitoba Conservation and Water Stewardship
1007 Century Street
Winnipeg, Manitoba
R3H 0W4

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

Dear Ms. Betsill:

**RE: AUGUST 2015 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 2015. There are no corrective action reports to be submitted for August.

The August 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 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 UV submission includes the summary report for August 2015 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met in August.

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.

Yours sincerely,

Original signed by:

R. Grosselle
Manager of Environmental Standards
Attachments

c:(e-mail)

Dr. L. Richards, Winnipeg Regional Health Authority
Dr. H. Chang, Winnipeg Regional Health Authority
Dr. S. Roberecki, Manitoba Health
D.P. Sacher, P.Eng.
G. Patton, P.Eng.
T. Shanks, P.Eng.
A. J. Weremy, P.Eng.
C. Diduck

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CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

August 2015 Turbidity (NTU)		Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
Date	Raw Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/08/2015	2.06	0.03	0.06	0.04	0.06	0.07	0.10	0.02	0.05	0.04	0.08	0.05	0.06	0.04	0.08	0.01	0.01
2/08/2015	2.14	0.04	0.05	0.04	0.07	0.07	0.13	0.03	0.05	0.05	0.08	0.06	0.09	0.05	0.06	0.01	0.04
3/08/2015	2.52	0.03	0.08	0.04	0.05	0.06	0.14	0.03	0.07	0.05	0.07	0.05	0.10	0.06	0.10	0.01	0.01
4/08/2015	2.23	0.04	0.05	0.04	0.09	0.08	0.10	0.03	0.07	0.05	0.09	0.06	0.08	0.05	0.08	0.01	0.01
5/08/2015	2.39	0.04	0.08	0.04	0.07	0.06	0.14	0.03	0.05	0.04	0.08	0.05	0.23	0.05	0.06	0.01	0.01
6/08/2015	2.26	0.03	0.08	0.04	0.07	0.07	0.09	0.03	0.06	0.05	0.07	0.05	0.09	0.05	0.09	0.01	0.01
7/08/2015	2.42	0.04	0.05	0.05	0.08	0.07	0.14	0.03	0.04	0.04	0.07	0.07	0.09	0.04	0.09	0.01	0.05
8/08/2015	2.45	0.04	0.08	0.05	0.13	0.06	0.17	0.04	0.08	0.03	0.06	0.07	0.12	0.05	0.07	0.01	0.01
9/08/2015	2.34	0.03	0.09	0.06	0.08	0.06	0.19	0.03	0.09	0.05	0.11	0.06	0.23	0.04	0.11	0.01	0.19
10/08/2015	2.32	0.03	0.09	0.06	0.13	0.08	0.11	0.03	0.08	0.04	0.11	0.07	0.10	0.04	0.12	0.01	0.11
11/08/2015	2.26	0.05	0.09	0.05	0.14	0.06	0.20	0.04	0.05	0.04	0.11	0.08	0.15	0.04	0.06	0.01	0.11
12/08/2015	2.16	0.04	0.10	0.05	0.08	0.06	0.21	0.04	0.08	0.05	0.07	0.07	0.17	0.06	0.13	0.02	0.03
13/08/2015	2.28	0.03	0.12	0.07	0.15	0.09	0.12	0.03	0.11	0.05	0.12	0.07	0.11	0.04	0.14	0.01	0.10
14/08/2015	2.25	0.05	0.07	0.04	0.14	0.07	0.22	0.05	0.06	0.04	0.12	0.08	0.15	0.05	0.07	0.01	0.12
15/08/2015	2.23	0.04	0.10	0.05	0.14	0.06	0.20	0.04	0.10	0.04	0.07	0.06	0.16	0.06	0.13	0.02	0.04
16/08/2015	2.38	0.04	0.10	0.06	0.08	0.06	0.10	0.04	0.10	0.05	0.10	0.06	0.14	0.05	0.13	0.01	0.10
17/08/2015	2.50	0.04	0.07	0.07	0.16	0.11	0.24	0.04	0.12	0.04	0.11	0.06	0.09	0.04	0.12	0.01	0.10
18/08/2015	2.56	0.07	0.12	0.06	0.18	0.08	0.25	0.07	0.09	0.04	0.23	0.06	0.14	0.05	0.09	0.01	0.04
19/08/2015	2.65	0.07	0.13	0.07	0.13	0.09	0.19	0.06	0.13	0.05	0.07	0.06	0.10	0.06	0.10	0.01	0.02
20/08/2015	2.64	0.06	0.08	0.09	0.14	0.11	0.13	0.05	0.13	0.04	0.08	0.07	0.08	0.04	0.09	0.01	0.06
21/08/2015	2.82	0.07	0.14	0.07	0.15	0.08	0.21	0.07	0.09	0.04	0.07	0.06	0.11	0.05	0.06	0.01	0.01
22/08/2015	2.77	0.06	0.13	0.08	0.09	0.09	0.10	0.05	0.12	0.04	0.06	0.05	0.10	0.04	0.09	0.01	0.05
23/08/2015	2.80	0.07	0.08	0.07	0.13	0.09	0.17	0.05	0.10	0.03	0.06	0.06	0.07	0.04	0.08	0.01	0.04
24/08/2015	2.96	0.06	0.11	0.06	0.11	0.08	0.16	0.06	0.08	0.03	0.06	0.05	0.09	0.05	0.06	0.01	0.01
25/08/2015	2.92	0.06	0.11	0.07	0.09	0.07	0.10	0.05	0.10	0.04	0.05	0.05	0.08	0.04	0.08	0.01	0.03
26/08/2015	2.76	0.07	0.08	0.06	0.12	0.09	0.16	0.04	0.06	0.03	0.05	0.06	0.07	0.04	0.08	0.01	0.03
27/08/2015	2.53	0.07	0.12	0.06	0.13	0.07	0.16	0.06	0.10	0.03	0.05	0.05	0.10	0.05	0.06	0.01	0.01
28/08/2015	2.51	0.06	0.14	0.08	0.11	0.09	0.12	0.05	0.12	0.04	0.07	0.06	0.11	0.04	0.08	0.01	0.05
29/08/2015	2.42	0.09	0.11	0.07	0.13	0.08	0.16	0.06	0.07	0.03	0.09	0.05	0.10	0.05	0.06	0.01	0.01
30/08/2015	2.33	0.07	0.13	0.07	0.08	0.07	0.10	0.05	0.09	0.04	0.05	0.05	0.09	0.04	0.07	0.01	0.04
31/08/2015	2.38	0.10	0.14	0.07	0.14	0.09	0.16	0.05	0.09	0.03	0.07	0.07	0.15	0.04	0.07	0.01	0.23

Total Number of Measurements Taken, A:	15849	13569	14529	13109	16314	16285	15006	15887
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:	15849	13569	14529	13109	16314	16285	15006	15887
Compliance with Turbidity Standard, C = B/A X 100%:	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\201508-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)																		
Licence No. PWS-09-412 AA																				
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-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
03-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
04-Aug-2015	1.75	2.24	0.08	0.03	0.10	0.06	0.11	0.07	0.09	<0.02	0.09	0.05	0.09	0.05	0.10	0.04	0.09	<0.02		
05-Aug-2015	1.62	2.30	0.08	0.04	0.07	0.04	0.13	0.09	0.08	0.02	0.07	0.05	0.10	0.07	0.09	0.05	0.08	<0.02		
06-Aug-2015	1.89	2.17	0.06	0.02	0.07	0.05	0.08	<0.02	0.08	0.05	0.08	0.05	0.07	0.05	0.09	0.06	0.08	<0.02		
07-Aug-2015	1.84	2.31	0.10	0.03	0.11	0.06	0.11	0.07	0.09	<0.02	0.10	0.05	0.09	0.05	0.08	0.04	0.09	<0.02		
08-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
09-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
10-Aug-2015	1.95	2.17	0.06	0.03	0.06	0.07	0.08	0.07	0.06	<0.02	0.08	0.05	0.08	0.08	0.12	0.11	0.09	0.03		
11-Aug-2015	2.13	2.24	0.08	0.04	0.10	0.09	0.12	0.08	0.07	0.02	0.07	0.04	0.09	0.08	0.08	0.04	0.07	0.02		
12-Aug-2015	2.00	2.11	0.12	0.06	0.08	0.08	0.09	0.07	0.10	0.04	0.08	0.05	0.11	0.09	0.09	0.06	0.10	0.02		
13-Aug-2015	1.91	2.20	0.09	0.04	0.09	0.09	0.11	0.08	0.09	0.02	0.09	0.07	0.10	0.09	0.13	0.08	0.11	0.04		
14-Aug-2015	2.05	2.31	0.09	0.04	0.12	0.08	0.21	0.19	0.09	0.04	0.08	0.04	0.10	0.08	0.10	0.05	0.09	0.03		
15-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
16-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
17-Aug-2015	1.82	2.45	0.10	0.05	0.11	0.09	0.12	0.09	0.08	0.03	0.08	0.05	0.09	0.06	0.08	0.04	0.10	0.03		
18-Aug-2015	1.98	2.49	0.12	0.06	0.17	0.10	0.18	0.14	0.17	0.06	0.08	0.05	0.10	0.07	0.12	0.05	0.12	0.02		
19-Aug-2015	2.10	2.54	0.13	0.08	0.10	0.08	0.11	0.08	0.16	0.06	0.11	0.04	0.09	0.06	0.09	0.05	0.08	0.02		
20-Aug-2015	1.90	2.81	0.13	0.06	0.14	0.10	0.16	0.09	0.12	0.04	0.11	0.05	0.10	0.06	0.09	0.04	0.12	0.03		
21-Aug-2015	2.30	2.78	0.12	0.07	0.09	0.08	0.17	0.11	0.11	0.06	0.07	0.03	0.09	0.07	0.07	0.05	0.07	0.02		
22-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
23-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
24-Aug-2015	2.23	2.79	0.09	0.06	0.08	0.07	0.12	0.08	0.09	0.03	0.06	0.02	0.08	0.06	0.07	0.04	0.08	<0.02		
25-Aug-2015	2.15	2.84	0.09	0.05	0.10	0.07	0.11	0.07	0.13	0.06	0.07	0.03	0.07	0.05	0.09	0.05	0.07	<0.02		
26-Aug-2015	2.30	2.71	0.08	0.06	0.09	0.08	0.11	0.07	0.07	0.03	0.08	0.03	0.06	0.05	0.05	0.04	<0.05	<0.02		
27-Aug-2015	2.01	2.46	0.10	0.07	0.07	0.08	0.09	0.06	0.09	0.04	0.08	0.03	0.09	0.06	0.06	0.04	0.06	<0.02		
28-Aug-2015	2.17	2.49	0.09	0.07	0.10	0.08	0.12	0.07	0.09	0.03	0.08	0.03	0.14	0.05	0.08	0.06	0.11	0.02		
29-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
30-Aug-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
31-Aug-2015	2.14	2.26	0.09	0.08	0.10	0.09	0.10	0.08	0.07	0.03	0.08	0.05	0.05	0.05	0.05	0.03	0.08	<0.02		
Total number of measurements taken, A:			20			20			20			20			20			20		
Turbidity Standard for Monitoring Location (NTU):			0.30			0.30			0.30			0.30			0.30			0.30		
Number of measurements meeting standard, B:			20			20			20			20			20			20		
Compliance with Turbidity Standard, C= B/A X 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: 4-Sep-15



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

Water System Code: **252.00**
Licence Number: **PWS-09-412 AA**
Report Created: **01 September 2015**

Report Period: August 2015

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
1/08/2015	1.17	1.10	1.08	1.01
2/08/2015	1.13	1.05	1.05	0.95
3/08/2015	1.11	1.03	1.01	0.88
4/08/2015	1.15	0.83	1.08	0.80
5/08/2015	1.12	0.90	1.06	0.83
6/08/2015	1.14	0.83	1.05	0.81
7/08/2015	1.20	1.05	1.12	1.01
8/08/2015	1.14	1.00	1.06	0.94
9/08/2015	1.09	0.99	1.05	0.97
10/08/2015	1.13	0.99	1.09	1.00
11/08/2015	1.15	1.05	1.12	1.00
12/08/2015	1.22	1.10	1.15	0.97
13/08/2015	1.13	1.02	1.01	0.87
14/08/2015	1.15	1.02	1.03	0.95
15/08/2015	1.14	1.02	1.08	0.94
16/08/2015	1.18	0.96	1.10	0.88
17/08/2015	1.04	0.91	0.89	0.81
18/08/2015	1.09	0.98	0.95	0.83
19/08/2015	1.14	0.96	1.02	0.90
20/08/2015	1.16	1.04	1.12	0.98
21/08/2015	1.11	0.99	1.13	1.03
22/08/2015	1.15	1.09	1.08	0.98
23/08/2015	1.14	1.07	1.10	0.97
24/08/2015	1.12	1.01	1.11	1.00
25/08/2015	1.06	0.97	1.12	1.02
26/08/2015	1.08	0.94	1.16	1.03
27/08/2015	1.06	0.99	1.02	0.95
28/08/2015	1.05	0.97	1.05	0.93
29/08/2015	1.08	0.94	1.10	0.96
30/08/2015	1.08	1.01	1.05	0.96
31/08/2015	1.01	0.74	1.03	0.74

Total Number of Measurements, A:	21587	21592
Minimum Free Chlorine Standard:	0.50	0.50
Number of Measurements Meeting Standard, B:	21587	21592
COMPLIANCE, C = B/A X 100%:	100	100

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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 Licence No. PWS-09-412 AA	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-Aug-2015	NS	NS	NS	NS	NS	NS
02-Aug-2015	NS	NS	NS	NS	NS	NS
03-Aug-2015	NS	NS	NS	NS	NS	NS
04-Aug-2015	0.87	1.16	1.35	0.86	1.03	1.23
05-Aug-2015	1.17	1.19	1.37	1.04	1.07	1.22
06-Aug-2015	1.11	1.20	1.40	1.04	1.12	1.28
07-Aug-2015	1.20	1.26	1.43	1.15	1.10	1.26
08-Aug-2015	NS	NS	NS	NS	NS	NS
09-Aug-2015	NS	NS	NS	NS	NS	NS
10-Aug-2015	1.46	1.25	1.40	1.06	1.14	1.28
11-Aug-2015	1.19	1.19	1.35	1.16	1.15	1.27
12-Aug-2015	1.28	1.30	1.45	1.22	1.17	1.33
13-Aug-2015	1.14	1.12	1.28	1.02	1.10	1.24
14-Aug-2015	1.14	1.19	1.42	1.02	1.16	1.34
15-Aug-2015	NS	NS	NS	NS	NS	NS
16-Aug-2015	NS	NS	NS	NS	NS	NS
17-Aug-2015	1.08	1.14	1.29	0.93	1.07	1.24
18-Aug-2015	1.10	1.21	1.40	0.91	1.05	1.24
19-Aug-2015	1.04	1.13	1.30	0.94	1.07	1.23
20-Aug-2015	1.22	1.24	1.41	1.12	1.20	1.40
21-Aug-2015	1.12	1.19	1.35	1.12	1.15	1.34
22-Aug-2015	NS	NS	NS	NS	NS	NS
23-Aug-2015	NS	NS	NS	NS	NS	NS
24-Aug-2015	1.15	1.20	1.34	1.05	1.11	1.28
25-Aug-2015	1.08	1.18	1.31	1.13	1.23	1.34
26-Aug-2015	1.09	1.17	1.37	1.20	1.24	1.42
27-Aug-2015	1.09	1.18	1.35	1.03	1.12	1.31
28-Aug-2015	1.06	1.06	1.22	1.08	1.08	1.28
29-Aug-2015	NS	NS	NS	NS	NS	NS
30-Aug-2015	NS	NS	NS	NS	NS	NS
31-Aug-2015	0.96	1.03	1.17	1.01	1.01	1.17
Total number of measurements taken, A:		20			20	
Chlorine Standard for Monitoring Location (mg/L):		0.50			0.50	
Number of measurements meeting standard, B:		20			20	
Compliance with Chlorine Standard, C= B/A X 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: 4-Sep-15



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT UV REPORT

Report Period: **August 2015**

Report Created: **Tuesday, September 01, 2015**

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	
01/08/2015	96.14	0.00	0.00	70.16	70.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	76.47	76.58	0.00	0.00	0.00	0.00	0.00	0.19	68.10	68.29	0.00	0.30	214.73	215.03	99.86
02/08/2015	95.98	0.00	0.00	67.42	67.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.75	72.75	0.00	0.00	0.00	0.00	0.00	0.00	65.76	65.76	0.00	0.00	205.93	205.93	100.00
03/08/2015	96.00	0.00	0.00	63.06	63.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.02	69.02	0.00	0.00	0.00	0.00	0.00	0.00	62.60	62.60	0.00	0.00	194.69	194.69	100.00
04/08/2015	95.96	0.00	0.00	67.93	67.93	0.00	0.00	0.00	0.00	0.55	0.55	29.38	30.48	0.00	0.03	35.46	35.48	0.02	0.02	6.05	6.09	0.00	0.20	58.15	58.35	0.58	0.81	196.96	198.34	99.30
05/08/2015	96.09	0.00	0.00	67.99	67.99	0.00	0.00	0.00	0.00	0.00	0.00	48.43	48.43	0.00	0.00	27.34	27.34	0.00	0.00	16.55	16.55	0.00	0.14	44.16	44.30	0.00	0.14	204.47	204.61	99.93
06/08/2015	96.11	0.00	0.00	66.55	66.55	0.00	0.00	0.00	0.00	0.00	0.00	19.26	19.26	0.17	0.17	53.84	54.18	0.00	0.00	0.00	0.00	0.00	0.00	66.08	66.08	0.17	0.17	205.73	206.07	99.84
07/08/2015	96.10	0.00	0.00	67.27	67.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.82	72.82	0.00	0.00	0.00	0.00	0.00	0.00	64.97	64.97	0.00	0.00	205.06	205.06	100.00
08/08/2015	96.12	0.00	0.00	66.23	66.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.58	71.58	0.00	0.00	0.00	0.00	0.00	0.00	64.21	64.21	0.00	0.00	202.02	202.02	100.00
09/08/2015	95.99	0.00	0.00	65.67	65.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.43	71.43	0.00	0.00	0.00	0.00	0.00	0.00	64.17	64.17	0.00	0.00	201.26	201.26	100.00
10/08/2015	95.91	0.00	0.00	64.92	64.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.81	70.81	0.00	0.00	0.00	0.00	0.00	0.00	63.79	63.79	0.00	0.00	199.51	199.51	100.00
11/08/2015	95.78	0.00	0.00	67.36	67.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.01	73.01	0.00	0.00	0.00	0.00	0.00	0.00	65.27	65.27	0.00	0.00	205.65	205.65	100.00
12/08/2015	95.68	0.00	0.00	67.34	67.34	0.00	0.00	0.00	0.00	0.00	0.00	12.42	12.42	0.00	0.31	60.81	61.11	0.00	0.00	0.00	0.00	0.00	0.00	66.11	66.11	0.00	0.31	206.68	206.98	99.85
13/08/2015	95.53	0.00	0.00	64.45	64.45	0.00	0.00	0.00	0.00	0.00	0.00	73.25	73.25	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.05	68.96	69.01	0.00	0.05	206.92	206.97	99.97
14/08/2015	95.51	0.00	0.00	66.35	66.35	0.00	0.00	0.00	0.00	0.00	0.00	75.52	75.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.89	70.89	0.00	0.00	212.77	212.77	100.00
15/08/2015	95.61	0.00	0.00	64.77	64.77	0.00	0.00	0.00	0.00	0.00	0.00	73.94	73.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	70.36	70.46	0.00	0.10	209.06	209.16	99.95
16/08/2015	95.46	0.00	0.00	64.57	64.57	0.00	0.00	0.00	0.00	0.00	0.00	73.38	73.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.05	69.05	0.00	0.00	207.00	207.00	100.00
17/08/2015	95.58	0.10	0.10	68.94	69.14	0.00	0.00	0.00	0.00	0.00	0.00	67.32	67.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	70.49	70.54	0.10	0.14	206.76	207.00	99.88
18/08/2015	95.57	0.00	0.00	81.09	81.09	0.00	0.00	0.00	0.00	0.00	0.00	54.83	54.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.84	71.84	0.00	0.00	207.76	207.76	100.00
19/08/2015	95.67	0.00	0.00	55.43	55.43	0.00	0.00	0.00	0.00	0.00	0.00	63.06	63.06	0.00	0.00	0.00	0.00	0.00	0.00	43.26	43.26	0.00	0.05	48.17	48.22	0.00	0.05	209.91	209.96	99.98
20/08/2015	95.75	0.00	1.13	63.04	64.17	0.00	0.00	0.00	0.00	0.00	0.00	63.93	63.93	0.00	0.00	24.43	24.43	0.00	0.00	59.51	59.51	0.00	0.00	0.00	0.00	0.00	1.13	210.90	212.04	99.47
21/08/2015	95.82	0.00	0.13	20.03	20.15	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	62.51	62.51	0.00	0.00	55.79	55.79	0.00	0.13	214.88	215.01	99.94
22/08/2015	95.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.71	81.71	0.00	0.00	1.44	1.44	0.00	0.06	67.27	67.33	0.00	0.05	61.95	62.00	0.00	0.11	212.36	212.47	99.95
23/08/2015	95.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.61	82.61	0.00	0.00	0.00	0.00	0.00	0.00	79.24	79.24	0.00	0.00	45.00	45.00	0.00	0.00	206.85	206.85	100.00
24/08/2015	96.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.18	71.18	0.00	0.00	20.23	20.23	0.00	0.00	78.83	78.83	0.00	0.00	29.77	29.77	0.00	0.00	200.01	200.01	100.00
25/08/2015	96.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.12	55.12	0.00	0.00	59.74	59.74	0.00	0.00	85.13	85.13	0.00	0.00	0.00	0.00	0.00	0.00	199.99	199.99	100.00
26/08/2015	96.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.31	54.31	0.00	0.00	61.42	61.42	0.64	0.64	49.89	51.16	0.00	0.00	33.18	33.18	0.64	0.64	198.80	200.07	99.36
27/08/2015	96.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.42	55.42	0.00	0.00	70.65	70.65	0.00	0.00	0.00	0.00	0.00	0.16	73.75	73.91	0.00	0.16	199.83	199.98	99.92
28/08/2015	96.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.94	55.94	0.00	0.00	71.01	71.01	0.00	0.00	0.00	0.00	0.00	0.00	73.02	73.02	0.00	0.00	199.96	199.96	100.00
29/08/2015	96.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.20	56.20	0.00	0.00	70.85	70.85	0.00	0.00	0.00	0.00	0.00	0.00	73.01	73.01	0.00	0.00	200.07	200.07	100.00
30/08/2015	96.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.14	56.14	0.00	0.00	70.43	70.43	0.00	0.00	0.00	0.00	0.00	0.00	73.04	73.04	0.00	0.00	199.61	199.61	100.00
31/08/2015	95.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	54.82	54.86	0.01	0.01	66.40	66.43	0.00	0.00	0.00	0.00	0.02	0.07	70.21	70.29	0.06	0.11	191.43	191.59	99.91
		0.10	1.35	1350.58	1352.03	0.00	0.00	0.00	0.00	0.58	0.58	1354.71	1355.87	0.18	0.63	1272.18	1272.99	0.66	0.72	548.23	549.61	0.02	1.06	1811.84	1812.93	1.53	4.34	6337.56	6343.43	

Water Volume [%]:
 Untreated: 0.02 %
 Below Dose: 0.07 %
 To Dose: 99.91 %

Note: UVR-D200A offline, pending mechanical upgrades

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew