



Water and Waste Department • Service des eaux et des déchets

November 7, 2014

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

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

Dear Ms. Betsill:

**RE: OCTOBER 2014 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 October 2014. There are no corrective action reports to be submitted for October 2014.

The October 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 on-line turbidity report shows that there were two turbidity exceedences above 0.3 NTU on October 2. The cause for the high values was due to the air saturator not starting immediately upon plant startup after the plant shutdown. These results were for a short period of time and did not exceed the normal operating turbidity for more than 12 consecutive hours. There are no on-line turbidity results for raw water on October 1, 2 and 3 because the meter was not working properly due to a maintenance issue. The meter was cleaned and serviced on October 3 and the issue appears to have been resolved.

The October 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 have met the licence requirements.

The UV submission includes the summary report for October 2014 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met for October.

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.

Thanks for your ongoing cooperation and understanding in this matter.

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
 ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT

Water System Code: 252.00 Licence No. PWS-09-412 A	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				
01-Oct-2014	1.47	1.68	1.47	1.75
02-Oct-2014	1.22	1.34	1.15	1.25
03-Oct-2014	1.48	1.63	1.47	1.74
04-Oct-2014	NS	NS	NS	NS
05-Oct-2014	NS	NS	NS	NS
06-Oct-2014	1.59	1.73	1.51	1.67
07-Oct-2014	1.61	1.76	1.70	1.82
08-Oct-2014	1.42	1.56	1.50	1.67
09-Oct-2014	1.32	1.50	1.45	1.63
10-Oct-2014	1.43	1.55	1.62	1.75
11-Oct-2014	NS	NS	NS	NS
12-Oct-2014	NS	NS	NS	NS
13-Oct-2014	1.43	1.60	1.33	1.54
14-Oct-2014	1.50	1.70	1.44	1.68
15-Oct-2014	1.19	1.33	1.29	1.52
16-Oct-2014	1.09	1.27	1.11	1.25
17-Oct-2014	1.25	1.44	1.20	1.41
18-Oct-2014	NS	NS	NS	NS
19-Oct-2014	NS	NS	NS	NS
20-Oct-2014	1.37	1.51	1.33	1.56
21-Oct-2014	1.43	1.61	1.24	1.36
22-Oct-2014	1.12	1.28	1.28	1.48
23-Oct-2014	1.29	1.46	1.18	1.27
24-Oct-2014	1.07	1.21	1.16	1.38
25-Oct-2014	NS	NS	NS	NS
26-Oct-2014	NS	NS	NS	NS
27-Oct-2014	1.36	1.53	1.33	1.55
28-Oct-2014	1.20	1.44	1.16	1.40
29-Oct-2014	1.25	1.42	1.23	1.49
30-Oct-2014	1.53	1.68	1.46	1.70
31-Oct-2014	1.44	1.63	1.44	1.55
Total number of measurements taken, A:	23		23	
Chlorine Standard for Monitoring Location (mg/L):	0.50		0.50	
Number of measurements meeting standard, B:	23		23	
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/ A.Vanderstel



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 A	Turbidity (NTU)								
Date	Raw Water	Filter 1	Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7	Filter 8
01-Oct-2014	2.04	0.13	0.08	0.10	0.10	0.11	0.10	0.10	0.09
02-Oct-2014	1.44	0.09	0.06	0.12	0.07	0.09	0.10	0.07	0.08
03-Oct-2014	1.93	0.15	0.06	0.15	0.11	0.06	0.07	0.06	0.12
04-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
05-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
06-Oct-2014	1.90	0.10	0.09	0.12	0.11	0.08	0.09	0.08	0.11
07-Oct-2014	1.52	0.10	0.17	0.10	0.09	0.09	0.11	0.13	0.11
08-Oct-2014	1.85	0.05	0.12	0.07	0.06	0.05	0.10	0.06	0.10
09-Oct-2014	1.78	0.17	0.16	0.08	0.26	0.19	0.20	0.22	0.22
10-Oct-2014	1.35	0.11	0.09	0.06	0.06	0.09	0.06	0.10	<0.05
11-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
12-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
13-Oct-2014	2.09	0.26	0.20	0.11	0.15	0.12	0.13	0.15	0.11
14-Oct-2014	1.66	0.16	0.15	0.19	0.17	0.13	0.15	0.16	0.18
15-Oct-2014	1.69	0.16	0.11	0.13	0.15	0.10	0.10	0.11	0.14
16-Oct-2014	1.72	OL	0.12	0.12	0.18	0.14	0.14	0.15	0.13
17-Oct-2014	1.71	0.10	0.09	0.14	0.11	0.12	0.15	0.09	0.11
18-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
19-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Oct-2014	1.37	0.20	0.14	0.16	0.14	0.15	0.12	0.10	0.13
21-Oct-2014	1.51	0.14	0.13	0.12	0.17	0.17	0.13	0.13	0.14
22-Oct-2014	1.58	0.09	0.09	0.10	0.07	0.10	0.10	0.10	0.09
23-Oct-2014	1.58	0.08	0.08	0.14	0.09	0.10	0.13	0.16	0.16
24-Oct-2014	1.62	0.15	0.10	0.12	0.12	0.08	0.11	0.11	0.14
25-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Oct-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Oct-2014	1.81	0.17	0.14	0.13	0.18	0.14	0.12	0.14	0.20
28-Oct-2014	1.74	0.12	OL	0.18	0.26	0.14	0.20	0.26	0.11
29-Oct-2014	1.54	0.17	0.10	0.20	0.21	0.17	0.14	0.14	0.18
30-Oct-2014	1.35	0.15	0.12	0.12	0.15	0.22	0.12	0.15	0.14
31-Oct-2014	1.41	0.10	0.09	0.14	0.12	0.15	0.13	0.17	0.12
Total number of measurements taken, A:	22	22	23	23	23	23	23	23	23
Turbidity Standard for Monitoring Location (NTU):	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Number of measurements meeting standard, B:	22	22	23	23	23	23	23	23	23
Compliance with Turbidity Standard, C= B/A X 100%:	100%	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/ A.Vanderstel

Date Approved: 4-Nov-14



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

October 2014 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
1/10/2014	NR	0.03	0.12	0.01	0.09	0.03	0.10	0.04	0.16	0.05	0.07	0.06	0.15	0.06	0.16	0.01	0.08
2/10/2014	NR	0.04	0.35	0.01	0.29	0.05	0.31	0.05	0.13	0.03	0.14	0.03	0.12	0.04	0.15	0.01	0.02
3/10/2014	NR	0.02	0.04	0.00	0.00	0.03	0.14	0.04	0.14	0.02	0.12	0.03	0.06	0.06	0.08	0.01	0.08
4/10/2014	2.37	0.02	0.10	0.00	0.06	0.03	0.05	0.03	0.13	0.03	0.05	0.04	0.09	0.06	0.14	0.00	0.01
5/10/2014	2.41	0.01	0.09	0.00	0.00	0.04	0.12	0.05	0.07	0.02	0.11	0.03	0.11	0.05	0.14	0.01	0.08
6/10/2014	2.32	0.04	0.09	0.00	0.06	0.04	0.15	0.05	0.16	0.02	0.07	0.04	0.06	0.09	0.10	0.01	0.09
7/10/2014	2.23	0.01	0.08	0.00	0.03	0.04	0.06	0.05	0.27	0.03	0.05	0.04	0.10	0.06	0.11	0.00	0.02
8/10/2014	2.16	0.01	0.03	0.00	0.03	0.03	0.11	0.05	0.07	0.01	0.07	0.03	0.09	0.06	0.14	0.01	0.02
9/10/2014	2.08	0.02	0.23	0.00	0.00	0.03	0.10	0.04	0.16	0.01	0.08	0.02	0.05	0.08	0.10	0.00	0.03
10/10/2014	1.97	0.02	0.07	0.00	0.02	0.03	0.05	0.04	0.12	0.02	0.04	0.04	0.09	0.08	0.16	0.00	0.07
11/10/2014	1.86	0.02	0.04	0.00	0.03	0.04	0.11	0.07	0.09	0.02	0.09	0.03	0.11	0.07	0.18	0.01	0.03
12/10/2014	2.04	0.04	0.09	0.00	0.01	0.04	0.13	0.07	0.16	0.02	0.11	0.04	0.06	0.12	0.14	0.02	0.09
13/10/2014	1.81	0.05	0.14	0.01	0.08	0.08	0.09	0.08	0.22	0.06	0.08	0.08	0.14	0.07	0.24	0.02	0.04
14/10/2014	1.66	0.06	0.10	0.01	0.03	0.07	0.21	0.12	0.17	0.04	0.14	0.05	0.17	0.05	0.18	0.03	0.15
15/10/2014	1.70	0.05	0.14	0.01	0.08	0.05	0.17	0.06	0.18	0.03	0.13	0.05	0.08	0.08	0.10	0.01	0.12
16/10/2014	1.75	0.04	0.16	0.01	0.09	0.06	0.09	0.06	0.19	0.05	0.08	0.06	0.15	0.06	0.16	0.01	0.02
17/10/2014	1.88	0.04	0.07	0.00	0.05	0.06	0.15	0.08	0.11	0.03	0.13	0.04	0.16	0.05	0.18	0.02	0.10
18/10/2014	1.81	0.05	0.10	0.00	0.06	0.05	0.16	0.06	0.18	0.03	0.12	0.04	0.07	0.07	0.09	0.01	0.11
19/10/2014	1.87	0.04	0.12	0.01	0.08	0.06	0.09	0.06	0.18	0.05	0.07	0.07	0.15	0.07	0.18	0.01	0.03
20/10/2014	1.84	0.04	0.06	0.00	0.07	0.06	0.16	0.08	0.11	0.03	0.13	0.05	0.16	0.05	0.18	0.02	0.12
21/10/2014	1.80	0.04	0.14	0.01	0.03	0.04	0.13	0.05	0.13	0.02	0.09	0.04	0.08	0.07	0.10	0.01	0.12
22/10/2014	1.89	0.02	0.10	0.00	0.05	0.04	0.05	0.04	0.15	0.02	0.03	0.04	0.12	0.05	0.15	0.00	0.01
23/10/2014	1.86	0.03	0.05	0.00	0.00	0.05	0.12	0.07	0.08	0.02	0.10	0.04	0.14	0.04	0.16	0.01	0.07
24/10/2014	1.81	0.04	0.11	0.00	0.06	0.04	0.14	0.05	0.17	0.02	0.04	0.05	0.07	0.07	0.09	0.01	0.09
25/10/2014	1.94	0.03	0.13	0.00	0.07	0.06	0.08	0.05	0.08	0.04	0.11	0.06	0.15	0.05	0.17	0.01	0.02
26/10/2014	1.78	0.04	0.06	0.00	0.00	0.04	0.16	0.09	0.18	0.03	0.08	0.05	0.16	0.05	0.08	0.02	0.11
27/10/2014	1.81	0.04	0.15	0.01	0.08	0.05	0.14	0.06	0.20	0.04	0.06	0.08	0.10	0.10	0.18	0.01	0.15
28/10/2014	1.86	0.03	0.06	0.00	0.05	0.08	0.11	0.08	0.10	0.04	0.12	0.06	0.16	0.05	0.19	0.02	0.03
29/10/2014	1.88	0.05	0.13	0.00	0.02	0.05	0.16	0.07	0.18	0.03	0.14	0.05	0.08	0.08	0.11	0.02	0.11
30/10/2014	1.73	0.04	0.14	0.01	0.08	0.06	0.09	0.07	0.19	0.05	0.06	0.08	0.19	0.08	0.19	0.01	0.13
31/10/2014	1.75	0.03	0.12	0.00	0.06	0.07	0.17	0.09	0.11	0.03	0.13	0.05	0.18	0.07	0.20	0.03	0.06

Total Number of Measurements Taken, A:	13830	10928	14213	11169	14577	14480	13045	14421
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:	13815	10928	14207	11169	14577	14480	13045	14421
Compliance with Turbidity Standard, C = B/A X 100%:	99.89%	100.00%	99.96%	100.00%	100.00%	100.00%	100.00%	100.00%

NR: No result due to analyser maintenance requirements

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2014\10-October

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT UV REPORT

Report Period: **October 2014**

Report Created: **Saturday, November 01, 2014**

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	
1/10/2014	96.51	0.00	0.18	66.90	67.08	0.00	0.00	38.65	38.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.86	64.86	0.00	0.00	34.75	34.75	0.00	0.18	205.16	205.33	99.91	
2/10/2014	96.53	0.00	0.00	69.22	69.22	0.00	0.00	13.74	13.74	0.00	0.00	0.00	0.00	0.00	0.00	11.17	11.17	0.00	0.00	47.34	47.34	0.00	0.00	53.03	53.03	0.00	0.00	194.49	194.49	100.00
3/10/2014	96.87	0.00	0.00	15.85	15.85	0.00	0.00	63.58	63.58	0.02	0.02	29.46	29.49	0.00	0.00	23.00	23.00	0.00	0.00	68.07	68.07	0.00	0.00	0.00	0.00	0.02	0.02	199.96	199.99	99.98
4/10/2014	97.27	0.00	0.00	13.61	13.61	0.00	0.00	27.67	27.67	0.00	0.00	50.95	50.95	0.00	0.00	32.80	32.80	0.00	0.00	72.20	72.20	0.00	0.00	0.00	0.00	0.00	0.00	197.24	197.24	100.00
5/10/2014	97.26	0.00	0.00	32.32	32.32	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00	54.57	54.57	0.00	0.00	58.97	58.97	0.00	0.00	0.00	0.00	0.00	0.00	195.87	195.87	100.00
6/10/2014	96.89	0.03	0.03	27.78	27.84	0.01	0.01	19.29	19.30	0.00	0.09	38.93	39.02	0.00	0.47	49.48	49.95	0.00	0.06	41.55	41.60	0.00	0.39	23.32	23.70	0.04	1.05	200.34	201.42	99.46
7/10/2014	97.09	0.00	0.00	0.00	0.00	0.00	0.00	30.81	30.81	0.00	0.67	63.07	63.75	0.00	0.31	43.29	43.60	0.00	0.00	63.89	63.89	0.00	0.10	2.03	2.12	0.00	1.08	203.08	204.16	99.47
8/10/2014	97.51	0.00	0.08	22.37	22.45	0.00	0.05	70.16	70.21	0.00	0.21	34.65	34.86	0.00	0.00	0.00	0.00	0.00	0.00	77.45	77.45	0.00	0.00	0.00	0.00	0.00	0.34	204.63	204.97	99.83
9/10/2014	97.50	0.00	0.28	54.58	54.85	0.00	0.00	34.65	34.65	0.00	0.04	31.19	31.23	0.00	0.00	12.68	12.68	0.00	0.00	73.77	73.77	0.00	0.00	0.00	0.00	0.00	0.32	206.86	207.18	99.85
10/10/2014	97.26	0.00	5.74	2.79	8.53	0.00	0.00	0.00	0.00	0.17	0.21	47.94	48.32	0.00	0.14	51.47	51.61	0.00	0.00	72.23	72.23	0.03	0.03	20.59	20.65	0.21	6.12	195.02	201.34	96.86
11/10/2014	97.06	0.00	0.00	24.60	24.60	0.00	0.00	30.50	30.50	0.00	0.00	26.73	26.73	0.00	0.07	26.70	26.77	0.00	0.00	65.07	65.07	0.00	0.00	31.12	31.12	0.00	0.07	204.71	204.78	99.96
12/10/2014	96.67	0.00	0.29	39.84	40.13	0.00	3.42	26.14	29.56	0.00	0.01	26.73	26.74	0.00	0.99	16.15	17.14	0.00	0.00	42.41	42.41	0.00	5.80	41.34	47.14	0.00	10.51	192.61	203.13	94.82
13/10/2014	95.88	0.00	1.23	51.62	52.85	0.00	0.00	0.00	0.00	0.00	0.00	38.57	38.57	0.00	0.05	42.75	42.80	0.00	0.00	33.50	33.50	0.00	0.00	28.17	28.17	0.00	1.28	194.60	195.88	99.35
14/10/2014	95.37	0.00	0.32	61.22	61.54	0.00	0.00	0.00	0.00	0.00	0.00	34.00	34.00	0.00	0.05	61.61	61.67	0.00	0.01	30.41	30.42	0.00	0.04	12.13	12.17	0.00	0.42	199.37	199.80	99.79
15/10/2014	95.89	0.00	0.14	35.48	35.63	0.00	0.00	0.00	0.00	0.00	0.00	27.25	27.25	0.00	0.30	51.22	51.52	0.00	0.00	51.75	51.75	0.00	0.04	33.75	33.79	0.00	0.48	199.46	199.94	99.76
16/10/2014	95.76	0.00	0.05	64.46	64.50	0.00	0.00	0.00	0.00	0.01	0.04	16.85	16.90	0.00	0.00	38.62	38.62	0.00	0.00	27.19	27.19	0.00	0.20	55.74	55.94	0.01	0.29	202.86	203.16	99.85
17/10/2014	96.10	0.00	6.26	26.46	32.72	0.00	0.00	0.00	0.00	0.00	0.00	34.05	34.05	0.26	0.42	57.23	57.91	0.00	12.90	21.29	34.20	0.00	1.49	47.11	48.60	0.26	21.07	186.15	207.48	89.72
18/10/2014	96.25	0.04	0.04	32.06	32.13	0.00	0.00	0.00	0.00	0.08	0.08	29.56	29.71	0.00	0.00	50.10	50.10	0.00	0.00	69.45	69.45	0.00	1.80	24.68	26.48	0.11	1.91	205.85	207.88	99.02
19/10/2014	96.17	0.01	0.06	45.31	45.37	0.00	0.00	0.00	0.00	0.00	0.00	22.42	22.42	0.00	0.00	51.35	51.35	0.00	3.42	55.74	59.15	0.00	0.01	21.04	21.06	0.01	3.49	195.85	199.35	98.25
20/10/2014	96.10	0.00	0.00	65.41	65.41	0.00	0.00	0.00	0.00	0.01	0.01	25.53	25.54	0.00	0.00	33.75	33.75	0.00	0.04	43.69	43.73	0.00	0.10	26.50	26.60	0.01	0.15	194.87	195.03	99.92
21/10/2014	96.40	0.00	0.19	30.26	30.44	0.00	0.00	0.00	0.00	0.00	0.00	38.11	38.11	0.00	0.00	43.23	43.23	0.00	0.00	47.69	47.69	0.00	0.00	35.54	35.54	0.00	0.19	194.82	195.01	99.90
22/10/2014	96.99	0.00	0.04	30.64	30.68	0.00	0.00	0.00	0.00	0.01	0.04	33.10	33.15	0.00	0.13	55.40	55.53	0.00	0.00	37.52	37.52	0.00	0.00	38.98	38.98	0.01	0.21	195.63	195.85	99.89
23/10/2014	96.64	0.00	0.13	53.31	53.44	0.00	0.00	0.00	0.00	0.00	0.04	56.67	56.71	0.00	0.00	12.39	12.39	0.00	0.00	33.80	33.80	0.00	3.82	34.45	38.28	0.00	4.00	190.62	194.61	97.95
24/10/2014	96.60	0.00	0.08	53.71	53.79	0.00	0.00	0.00	0.00	0.00	0.10	21.28	21.38	0.00	0.00	48.29	48.29	0.00	0.00	9.50	9.50	0.00	0.00	57.75	57.75	0.00	0.18	190.52	190.70	99.91
25/10/2014	96.48	0.00	1.68	34.52	36.20	0.00	0.00	0.00	0.00	0.00	0.00	42.57	42.57	0.00	0.29	27.06	27.35	0.00	0.00	25.25	25.25	0.00	0.26	58.33	58.60	0.00	2.24	187.73	189.97	98.82
26/10/2014	96.34	0.00	0.00	48.74	48.74	0.00	0.00	0.00	0.00	0.00	3.77	32.79	36.55	0.00	0.00	18.65	18.65	0.00	0.00	30.61	30.61	0.00	0.69	54.79	55.48	0.00	4.46	185.58	190.04	97.66
27/10/2014	95.91	0.00	0.08	28.28	28.36	0.00	0.00	0.00	0.00	0.00	0.04	37.68	37.73	0.00	0.00	31.56	31.56	0.00	0.00	43.34	43.34	0.00	0.29	51.86	52.16	0.00	0.41	192.73	193.14	99.79
28/10/2014	96.06	0.00	0.00	42.40	42.40	0.00	0.00	0.00	0.00	0.00	0.00	24.73	24.73	0.00	0.04	30.41	30.45	0.00	0.00	53.06	53.06	0.00	0.00	48.81	48.81	0.00	0.04	199.40	199.44	99.98
29/10/2014	95.95	0.48	1.23	23.40	25.11	0.00	0.00	0.00	0.00	0.00	0.00	34.04	34.04	0.00	0.00	60.39	60.39	0.00	0.05	63.53	63.59	0.00	0.06	16.79	16.85	0.48	1.34	198.14	199.97	99.09
30/10/2014	95.71	0.00	0.04	41.21	41.25	0.00	0.00	0.00	0.00	0.00	0.00	57.92	57.92	0.00	0.00	20.85	20.85	0.00	0.00	48.38	48.38	0.00	0.00	31.50	31.50	0.00	0.05	199.86	199.91	99.98
31/10/2014	95.79	0.00	0.00	65.44	65.44	0.00	0.00	0.00	0.00	0.00	0.00	61.15	61.15	0.00	0.00	0.00	0.00	0.00	0.00	13.17	13.17	0.00	0.00	60.21	60.21	0.00	0.00	199.98	199.98	100.00
		0.56	18.16	1203.78	1222.49	0.01	3.48	355.17	358.66	0.30	5.38	1067.91	1073.58	0.26	3.26	1056.17	1059.69	0.00	16.48	1486.67	1503.16	0.04	15.13	944.31	959.48	1.16	61.89	6114.00	6177.05	

Water Volume [%]:
 Untreated: 0.02 %
 Below Dose: 1.00 %
 To Dose: 98.98 %

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew