



Water and Waste Department • Service des eaux et des déchets

March 6, 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: FEBRUARY 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 February 2014. There are no corrective action reports to be submitted for February 2014.

The February on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. On February 4, filter #7 was taken out of service due to damage while taking samples from the bottom of the filter. There was no release of filter media into the finished water and no impact on water quality. The filter was repaired on February 8 but remains out of service pending the inspection of the underdrain and repair areas. We estimate that the filter will be back online by March 7. The turbidity results for the effluent from the filters are in compliance with 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 have met the licence requirements.

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

Please let me know of any concerns or questions respecting this submission. I may be reached by telephone at 204-986-4807 or by e-mail at kkjartanson@winnipeg.ca.

Thanks for your ongoing cooperation and understanding in this matter.

Yours sincerely,

Original signed by:

K.J.T. Kjartanson, P.Eng.
Manager of Environmental Standards
KJTK:rg
Attachments

c:(e-mail)

Dr. L. Richards, Winnipeg Regional Health Authority
D.P. Sacher, P.Eng.
A. J. Weremy, P.Eng.

G. Patton, P.Eng.
S. Fletcher

Dr. S. Roberecki, Manitoba Health
T. Josephson, P.Eng.

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CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT

Water System Code: 252.00 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-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
03-Feb-2014	0.68	0.11	0.15	0.09	0.11	0.09	0.09	0.09	0.09	0.09
04-Feb-2014	0.71	0.11	0.18	0.13	0.10	0.12	0.13	OL	0.11	0.11
05-Feb-2014	0.59	0.12	0.11	0.13	0.08	0.11	0.13	OL	0.09	0.09
06-Feb-2014	0.73	0.12	0.08	0.07	0.08	0.10	0.07	OL	0.10	0.10
07-Feb-2014	0.64	0.06	0.06	0.09	0.05	0.09	0.08	OL	0.08	0.08
08-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
09-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10-Feb-2014	0.46	0.08	0.15	0.08	0.05	0.20	0.07	OL	0.19	0.19
11-Feb-2014	0.47	0.07	0.05	0.12	0.08	0.23	0.05	OL	0.07	0.07
12-Feb-2014	0.44	0.08	0.06	0.08	0.07	0.06	0.07	OL	0.11	0.11
13-Feb-2014	0.46	0.07	0.10	0.08	0.06	0.06	0.08	OL	0.10	0.10
14-Feb-2014	0.60	0.06	0.05	0.09	0.06	0.06	0.07	OL	0.15	0.15
15-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
16-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
17-Feb-2014	0.35	0.09	0.12	0.12	0.11	0.06	0.09	OL	0.18	0.18
18-Feb-2014	0.44	0.10	0.06	OL	0.09	0.12	0.08	OL	0.10	0.10
19-Feb-2014	0.36	0.07	0.06	0.10	0.07	0.06	0.06	OL	0.11	0.11
20-Feb-2014	0.39	0.19	0.20	0.15	0.13	0.16	0.12	OL	0.11	0.11
21-Feb-2014	0.81	0.16	0.11	0.10	0.07	0.09	0.12	OL	0.11	0.11
22-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
23-Feb-2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
24-Feb-2014	0.33	0.07	0.07	0.08	0.10	0.09	0.07	OL	NR	NR
25-Feb-2014	0.31	0.15	0.09	0.16	0.15	0.09	0.09	OL	0.18	0.18
26-Feb-2014	0.28	0.11	0.09	0.10	0.10	0.15	0.08	OL	0.12	0.12
27-Feb-2014	0.58	0.18	0.11	0.17	0.13	0.16	0.17	OL	0.13	0.13
28-Feb-2014	0.36	0.19	0.16	0.26	0.10	0.14	0.10	OL	0.15	0.15
Total number of measurements taken, A:		20	20	19	20	20	20	20	1	19
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:		20	20	19	20	20	20	20	1	19
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 NR: No Results

Comments:

There was no result for filter 8 on February 24 due to a technician error.

Report Compiled By: K. Wazny

Approved in LIMS By: S. Fletcher/A. Vanderstel

Date Approved: 4-Mar-14



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES DIVISION

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

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

February 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
1/02/2014	0.71	0.05	0.15	0.05	0.14	0.02	0.04	0.04	0.15	0.05	0.08	0.08	0.15	0.05	0.11	0.01	0.03
2/02/2014	0.70	0.05	0.08	0.07	0.09	0.03	0.10	0.07	0.11	0.03	0.13	0.04	0.12	0.03	0.11	0.03	0.18
3/02/2014	0.69	0.06	0.13	0.07	0.15	0.01	0.14	0.03	0.11	0.02	0.04	0.05	0.09	0.02	0.03	0.01	0.14
4/02/2014	0.68	0.04	0.09	0.06	0.24	0.01	0.03	0.03	0.09	0.03	0.11	0.04	0.09	0.00	0.02	0.01	0.01
5/02/2014	0.68	0.03	0.05	0.07	0.08	0.01	0.05	0.04	0.07	0.02	0.07	0.03	0.08	OL	OL	0.01	0.07
6/02/2014	0.66	0.04	0.09	0.06	0.12	0.01	0.01	0.03	0.09	0.02	0.03	0.04	0.05	OL	OL	0.01	0.10
7/02/2014	0.64	0.03	0.06	0.05	0.10	0.01	0.02	0.02	0.05	0.02	0.04	0.03	0.05	OL	OL	0.01	0.01
8/02/2014	0.62	0.04	0.07	0.06	0.08	0.01	0.02	0.03	0.05	0.01	0.03	0.03	0.05	OL	OL	0.01	0.04
9/02/2014	0.60	0.05	0.11	0.06	0.08	0.03	0.13	0.03	0.06	0.01	0.04	0.03	0.04	OL	OL	0.01	0.03
10/02/2014	0.57	0.03	0.09	0.03	0.25	0.04	0.09	0.02	0.05	0.01	0.03	0.03	0.05	OL	OL	0.01	0.07
11/02/2014	0.54	0.03	0.06	0.00	0.02	0.04	0.13	0.02	0.04	0.01	0.04	0.01	0.04	OL	OL	0.01	0.03
12/02/2014	0.52	0.03	0.04	0.00	0.01	0.04	0.17	0.02	0.05	0.01	0.05	0.01	0.02	OL	OL	0.01	0.01
13/02/2014	0.49	0.03	0.06	0.01	0.11	0.05	0.16	0.02	0.04	0.01	0.02	0.02	0.04	OL	OL	0.01	0.04
14/02/2014	0.47	0.03	0.06	0.00	0.02	0.04	0.12	0.02	0.03	0.01	0.05	0.01	0.03	OL	OL	0.01	0.11
15/02/2014	0.44	0.03	0.04	0.01	0.01	0.04	0.07	0.02	0.05	0.01	0.04	0.01	0.05	OL	OL	0.01	0.05
16/02/2014	0.42	0.04	0.05	0.01	0.02	0.04	0.08	0.02	0.05	0.01	0.05	0.02	0.02	OL	OL	0.01	0.19
17/02/2014	0.41	0.03	0.07	0.02	0.05	0.07	0.27	0.02	0.08	0.02	0.03	0.02	0.05	OL	OL	0.01	0.01
18/02/2014	0.39	0.04	0.17	0.02	0.06	0.04	0.16	0.02	0.04	0.02	0.06	0.02	0.05	OL	OL	0.01	0.04
19/02/2014	0.38	0.06	0.28	0.02	0.05	0.03	0.25	0.02	0.17	0.02	0.05	0.02	0.03	OL	OL	0.01	0.04
20/02/2014	0.41	0.04	0.17	0.02	0.29	0.01	0.14	0.02	0.05	0.02	0.04	0.02	0.04	OL	OL	0.01	0.20
21/02/2014	0.35	0.03	0.07	0.01	0.03	0.01	0.07	0.02	0.05	0.01	0.02	0.01	0.04	OL	OL	0.01	0.03
22/02/2014	0.34	0.03	0.06	0.01	0.03	0.01	0.05	0.02	0.04	0.02	0.04	0.01	0.03	OL	OL	0.01	0.03
23/02/2014	0.33	0.03	0.06	0.01	0.02	0.01	0.03	0.02	0.05	0.02	0.04	0.01	0.04	OL	OL	0.01	0.03
24/02/2014	0.32	0.03	0.05	0.01	0.03	0.01	0.02	0.02	0.06	0.01	0.04	0.01	0.06	OL	OL	0.01	0.05
25/02/2014	0.31	0.03	0.06	0.01	0.03	0.01	0.09	0.02	0.05	0.01	0.03	0.01	0.03	OL	OL	0.02	0.11
26/02/2014	0.30	0.04	0.09	0.02	0.05	0.01	0.07	0.03	0.08	0.02	0.04	0.02	0.05	OL	OL	0.01	0.06
27/02/2014	0.30	0.06	0.15	0.03	0.11	0.04	0.12	0.06	0.19	0.03	0.04	0.02	0.08	OL	OL	0.01	0.14
28/02/2014	0.29	0.08	0.25	0.03	0.15	0.07	0.24	0.04	0.18	0.01	0.04	0.01	0.05	OL	OL	0.04	0.17

Total Number of Measurements Taken, A:	14397	13840	14446	11502	15035	14787	1338	14598
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:	14397	13840	14446	11502	15035	14787	1338	14598
Compliance with Turbidity Standard, C = B/A X 100%:	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

OL: Off Line

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2014\02-February

Submitted By (Print): D.Minor

Signature: Original signed by D.Minor



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-Feb-2014	NA	NA	NA	NA
02-Feb-2014	NA	NA	NA	NA
03-Feb-2014	1.13	1.24	1.15	1.27
04-Feb-2014	1.07	1.29	1.11	1.25
05-Feb-2014	1.10	1.24	1.08	1.25
06-Feb-2014	1.17	1.30	1.10	1.29
07-Feb-2014	1.23	1.44	1.24	1.39
08-Feb-2014	NA	NA	NA	NA
09-Feb-2014	NA	NA	NA	NA
10-Feb-2014	1.05	1.24	1.04	1.24
11-Feb-2014	1.13	1.25	1.13	1.33
12-Feb-2014	1.13	1.31	1.13	1.29
13-Feb-2014	1.00	1.18	1.04	1.16
14-Feb-2014	1.16	1.35	1.10	1.34
15-Feb-2014	NA	NA	NA	NA
16-Feb-2014	NA	NA	NA	NA
17-Feb-2014	1.02	1.13	1.02	1.13
18-Feb-2014	1.10	1.17	0.99	1.19
19-Feb-2014	1.14	1.31	1.04	1.18
20-Feb-2014	1.08	1.30	1.07	1.28
21-Feb-2014	1.07	1.22	1.09	1.30
22-Feb-2014	NA	NA	NA	NA
23-Feb-2014	NA	NA	NA	NA
24-Feb-2014	0.96	1.14	0.93	1.06
25-Feb-2014	1.05	1.23	1.15	1.27
26-Feb-2014	1.12	1.25	1.11	1.28
27-Feb-2014	1.04	1.24	1.11	1.28
28-Feb-2014	1.14	1.29	1.13	1.27
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: K. Wazny

Approved in LIMS By: S. Fletcher/A. Vanderstel



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

Water System Code: **252.00**
Licence Number: **PWS-09-412 A**
Report Created: **01 March 2014**

Report Period: **February 2014**

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/02/2014	1.21	1.01	1.26	1.07
02/02/2014	1.05	0.94	1.09	0.96
03/02/2014	1.01	0.91	1.05	1.01
04/02/2014	1.02	0.91	1.04	0.97
05/02/2014	1.07	0.97	1.06	0.97
06/02/2014	1.10	1.02	1.02	0.93
07/02/2014	1.21	1.03	1.17	0.92
08/02/2014	1.12	1.05	1.15	1.08
09/02/2014	1.11	1.03	1.08	0.96
10/02/2014	1.07	1.00	1.03	0.95
11/02/2014	1.04	0.95	1.06	0.89
12/02/2014	1.01	0.74	1.10	0.96
13/02/2014	1.03	0.66	1.02	0.93
14/02/2014	1.07	0.73	1.11	0.94
15/02/2014	1.24	0.87	1.03	0.81
16/02/2014	1.00	0.77	0.91	0.76
17/02/2014	1.03	0.93	0.95	0.82
18/02/2014	1.04	0.91	0.95	0.87
19/02/2014	1.06	0.86	0.93	0.84
20/02/2014	0.95	0.70	0.93	0.78
21/02/2014	1.08	0.84	1.04	0.90
22/02/2014	1.10	0.93	0.93	0.84
23/02/2014	1.06	0.85	0.93	0.82
24/02/2014	1.12	0.89	1.01	0.84
25/02/2014	1.20	1.03	1.17	1.08
26/02/2014	1.09	0.91	1.11	0.98
27/02/2014	1.13	0.97	1.17	1.04
28/02/2014	1.09	0.89	1.11	1.02

Total Number of Measurements, A:	19439	19439
Minimum Free Chlorine Standard:	0.50	0.50
Number of Measurements Meeting Standard, B:	19439	19439
COMPLIANCE, C = B/A X 100%:	100.0	100.0

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Submitted By (Print): D.Minor

Signature: Original signed by D.Minor



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES DIVISION

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

WATER TREATMENT PLANT UV REPORT

Report Period: **February 2014**

Report Created: **Saturday, March 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		
		1/02/2014	95.84	0.00	0.00	0.00	0.00	0.00	0.00	65.75	65.75	0.00	0.00	67.16	67.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.14	69.14	0.00	0.00		202.06
2/02/2014	95.93	0.00	0.00	0.00	0.00	0.00	0.00	64.96	64.96	0.00	0.00	66.41	66.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.63	68.63	0.00	0.00	200.00	200.00	100.00	
3/02/2014	96.40	0.00	0.00	0.00	0.00	0.00	0.00	65.11	65.11	0.00	0.00	67.44	67.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.09	68.09	0.00	0.00	200.64	200.64	100.00	
4/02/2014	96.25	0.00	0.00	0.00	0.00	0.00	0.00	66.73	66.73	0.00	0.00	70.80	70.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.43	67.43	0.00	0.00	204.97	204.97	100.00	
5/02/2014	96.39	0.00	0.00	0.00	0.00	0.00	0.00	66.04	66.04	0.00	0.00	70.19	70.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.60	66.60	0.00	0.00	202.83	202.83	100.00	
6/02/2014	95.88	0.00	0.00	0.00	0.00	0.00	0.00	65.73	65.73	0.00	0.00	69.87	69.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.41	66.41	0.00	0.00	202.01	202.01	100.00	
7/02/2014	95.14	0.00	0.00	14.51	14.51	0.00	0.00	65.08	65.08	0.00	0.14	48.82	48.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.23	70.23	0.00	0.14	198.64	198.78	99.93	
8/02/2014	95.12	0.00	0.00	56.09	56.09	0.00	0.00	32.53	32.53	0.00	0.00	0.00	0.00	0.00	0.00	33.30	33.30	0.00	0.00	0.00	0.00	0.00	0.00	72.13	72.13	0.00	0.00	194.05	194.05	100.00	
9/02/2014	94.98	0.00	0.00	62.00	62.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.80	65.80	0.00	0.00	0.00	0.00	0.00	0.00	64.56	64.56	0.00	0.00	192.35	192.35	100.00	
10/02/2014	95.05	0.00	0.00	62.16	62.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.04	66.04	0.00	0.00	0.00	0.00	0.00	0.00	65.79	65.79	0.00	0.00	193.98	193.98	100.00	
11/02/2014	95.05	0.00	0.00	40.25	40.25	0.00	0.04	41.36	41.40	0.00	0.00	0.00	0.00	0.00	0.00	51.47	51.47	0.00	0.07	0.00	0.07	0.00	0.00	60.33	60.33	0.00	0.11	193.41	193.52	99.94	
12/02/2014	95.05	0.00	0.00	71.52	71.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.70	47.70	0.00	0.00	0.00	0.00	0.00	0.10	74.04	74.14	0.00	0.10	193.26	193.37	99.95	
13/02/2014	95.04	0.00	0.00	66.54	66.54	0.00	0.00	0.00	0.00	0.00	0.00	29.72	29.72	0.00	0.00	26.57	26.57	0.00	0.00	0.00	0.00	0.00	0.05	71.08	71.13	0.00	0.05	193.92	193.96	99.98	
14/02/2014	95.09	0.00	0.00	61.92	61.92	0.03	0.03	0.03	0.08	0.00	0.00	68.48	68.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	68.49	68.58	0.03	0.12	198.92	199.07	99.92	
15/02/2014	94.99	0.00	0.05	63.15	63.19	0.00	0.00	0.00	0.00	0.00	0.00	71.41	71.41	0.00	0.03	0.07	0.09	0.01	0.01	0.00	0.02	0.00	0.30	70.56	70.87	0.01	0.38	205.18	205.57	99.81	
16/02/2014	94.93	0.00	0.00	62.30	62.30	0.00	0.00	0.00	0.00	0.00	0.00	69.71	69.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	65.86	65.91	0.00	0.05	197.87	197.92	99.98	
17/02/2014	94.73	0.00	0.00	66.37	66.37	0.00	0.00	0.00	0.00	0.00	0.00	58.05	58.05	0.00	0.00	31.21	31.21	0.00	0.04	0.00	0.04	0.00	6.40	32.90	39.31	0.00	6.44	188.53	194.97	96.70	
18/02/2014	94.88	0.00	0.00	74.74	74.74	0.00	0.00	0.90	0.90	0.00	0.00	42.58	42.58	0.00	0.00	76.78	76.78	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	195.01	195.03	99.99
19/02/2014	94.91	0.00	0.00	42.52	42.52	0.00	0.00	56.82	56.82	0.00	0.00	41.37	41.37	0.00	0.63	29.17	29.80	0.11	0.11	24.22	24.44	0.00	0.00	0.00	0.00	0.00	0.11	0.74	194.11	194.96	99.57
20/02/2014	94.91	0.00	0.00	34.38	34.38	0.00	0.43	43.70	44.13	0.00	0.00	50.86	50.86	0.00	0.00	4.22	4.22	0.00	0.00	56.57	56.57	0.00	0.00	0.00	0.00	0.00	0.00	0.43	189.73	190.16	99.77
21/02/2014	94.96	0.00	0.10	43.52	43.62	0.00	0.00	0.00	0.00	0.00	0.00	41.31	41.31	0.00	0.00	66.83	66.83	0.00	0.03	39.11	39.13	0.00	0.00	0.00	0.00	0.00	0.00	0.13	190.77	190.90	99.93
22/02/2014	95.02	0.00	0.00	76.42	76.42	0.00	0.00	0.00	0.00	0.00	0.00	66.75	66.75	0.00	0.04	50.80	50.84	0.00	0.04	0.49	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.08	194.45	194.54	99.96
23/02/2014	95.00	0.00	0.16	68.51	68.67	0.00	0.00	0.00	0.00	0.00	0.00	69.44	69.44	0.00	0.05	44.04	44.09	0.00	0.08	8.37	8.45	0.00	0.00	0.00	0.00	0.00	0.00	0.29	190.36	190.65	99.85
24/02/2014	94.97	0.00	0.12	73.92	74.03	0.00	0.04	0.04	0.09	0.00	0.00	70.79	70.79	0.00	0.00	26.05	26.05	0.00	0.00	32.01	32.01	0.00	0.00	0.00	0.00	0.00	0.00	0.16	202.81	202.97	99.92
25/02/2014	95.02	0.00	0.10	67.84	67.93	0.00	0.00	0.00	0.00	0.00	0.00	73.90	73.90	0.00	0.05	0.00	0.05	0.00	0.05	74.05	74.10	0.00	0.00	0.00	0.00	0.00	0.00	0.19	215.78	215.98	99.91
26/02/2014	94.57	0.00	0.05	62.63	62.68	0.04	1.19	5.74	6.98	0.00	0.00	49.03	49.03	0.00	0.54	41.60	42.14	0.00	0.21	52.21	52.42	0.00	0.99	0.56	1.55	0.04	2.99	211.75	214.78	98.59	
27/02/2014	93.88	0.00	0.00	49.25	49.25	0.01	0.01	24.72	24.74	0.00	0.00	55.18	55.18	0.00	0.00	20.30	20.30	0.00	0.05	67.50	67.55	0.00	0.00	0.00	0.00	0.00	0.01	0.05	216.95	217.01	99.97
28/02/2014	93.95	0.00	0.00	35.94	35.94	0.00	0.00	57.77	57.77	0.00	0.00	63.19	63.19	0.00	0.00	0.00	0.00	0.00	0.00	67.84	67.84	0.00	0.00	0.11	0.11	0.00	0.00	0.00	224.85	224.85	100.00
		0.00	0.58	1256.47	1257.05	0.08	1.74	723.03	724.85	0.00	0.14	1382.45	1382.59	0.00	1.33	681.95	683.28	0.12	0.71	422.36	423.19	0.00	8.00	1122.94	1130.93	0.20	12.50	5589.20	5601.89		

Water Volume [%]:
 Untreated: 0.00 %
 Below Dose: 0.22 %
 To Dose: 99.77 %

Submitted By (Print): D.Minor

Signature: Original signed by D.Minor