



Kale Black, Sr. Drinking Water Officer
Office of Drinking Water, Manitoba Conservation and Climate
309 – 25 Tupper Street North
Portage La Prairie, MB R1N 3K1

June 7, 2022

RE: MAY 2022 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 May 2022.

The May 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 filter effluent met the licence requirements.

The May 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 May 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.

Yours sincerely,

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 and Seniors Care (email)
T. Shanks, M. Eng., P. Eng. (e-mail)
M. Szmon, M. Eng. (e-mail)
C. Diduck (email)



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: 252.00
 Licence Number: PWS-09-412-02

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

May 2022 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
1/05/2022	0.74	0.05	0.10	0.08	0.14	0.05	0.08	0.04	0.09	OL	OL	0.04	0.09	0.06	0.09	0.04	0.07
2/05/2022	0.74	0.04	0.10	0.07	0.10	0.04	0.11	0.04	0.09	OL	OL	0.03	0.06	0.07	0.12	0.04	0.08
3/05/2022	0.75	0.04	0.09	0.08	0.13	0.04	0.10	0.04	0.06	OL	OL	0.03	0.07	0.06	0.11	0.03	0.08
4/05/2022	0.75	0.04	0.08	0.06	0.13	0.04	0.10	0.04	0.08	OL	OL	0.03	0.07	0.06	0.12	0.04	0.07
5/05/2022	0.77	0.05	0.06	0.05	0.11	0.03	0.07	0.03	0.08	0.00	0.18	0.03	0.06	0.05	0.11	0.04	0.08
6/05/2022	0.80	0.04	0.13	0.07	0.09	0.05	0.10	0.03	0.14	0.00	0.02	0.03	0.07	0.08	0.10	0.03	0.11
7/05/2022	0.83	0.03	0.13	0.06	0.13	0.03	0.13	0.04	0.07	0.01	0.04	0.02	0.07	0.05	0.13	0.04	0.10
8/05/2022	0.95	0.03	0.08	0.02	0.12	0.04	0.09	0.04	0.08	0.01	0.04	0.03	0.05	0.06	0.11	0.10	0.15
9/05/2022	0.91	0.05	0.10	0.09	0.11	0.03	0.05	0.03	0.09	0.01	0.04	0.03	0.07	0.04	0.12	0.08	0.19
10/05/2022	0.96	0.04	0.13	0.06	0.14	0.05	0.11	0.03	0.08	0.01	0.02	0.02	0.06	0.07	0.09	0.07	0.16
11/05/2022	0.98	0.03	0.11	0.09	0.13	0.03	0.11	0.05	0.08	0.02	0.16	0.01	0.06	0.05	0.14	0.08	0.12
12/05/2022	0.98	0.03	0.05	0.05	0.14	0.03	0.12	0.04	0.10	0.01	0.05	0.02	0.04	0.05	0.13	0.10	0.14
13/05/2022	1.05	0.03	0.11	0.06	0.28	0.06	0.08	0.04	0.13	0.01	0.02	0.01	0.05	0.04	0.05	0.07	0.15
14/05/2022	1.10	0.03	0.10	0.09	0.11	0.05	0.19	0.06	0.08	0.02	0.05	0.02	0.10	0.03	0.10	0.08	0.13
15/05/2022	1.11	0.03	0.05	0.07	0.16	0.04	0.11	0.06	0.11	0.02	0.05	0.02	0.05	0.03	0.09	0.12	0.15
16/05/2022	1.11	0.04	0.09	0.07	0.12	0.06	0.09	0.05	0.12	0.01	0.04	0.02	0.07	0.03	0.05	0.09	0.15
17/05/2022	1.36	0.03	0.08	0.06	0.11	0.06	0.11	0.06	0.12	0.02	0.08	0.02	0.05	0.05	0.08	0.10	0.16
18/05/2022	1.31	0.03	0.09	0.09	0.13	0.06	0.13	0.09	0.12	0.02	0.05	0.02	0.07	0.04	0.10	0.11	0.16
19/05/2022	1.26	0.04	0.06	0.04	0.10	0.04	0.10	0.05	0.14	0.01	0.03	0.03	0.10	0.04	0.10	0.06	0.20
20/05/2022	1.14	0.04	0.10	0.03	0.09	0.02	0.06	0.04	0.11	0.00	0.02	0.02	0.05	0.05	0.06	0.05	0.09
21/05/2022	1.02	0.04	0.09	0.06	0.09	0.02	0.06	0.06	0.08	0.00	0.04	0.01	0.10	0.04	0.09	0.05	0.08
22/05/2022	1.03	0.04	0.07	0.04	0.10	0.02	0.06	0.05	0.10	0.00	0.04	0.02	0.09	0.04	0.10	0.07	0.10
23/05/2022	1.04	0.05	0.09	0.04	0.10	0.03	0.04	0.06	0.09	0.00	0.04	0.02	0.07	0.04	0.07	0.04	0.11
24/05/2022	1.21	0.03	0.09	0.05	0.09	0.02	0.07	0.05	0.09	0.02	0.05	0.01	0.08	0.04	0.11	0.05	0.10
25/05/2022	1.07	0.03	0.07	0.05	0.08	0.02	0.06	0.05	0.08	0.03	0.08	0.00	0.05	0.03	0.07	0.07	0.09
26/05/2022	1.10	0.04	0.06	0.04	0.11	0.02	0.03	0.06	0.10	0.02	0.06	0.01	0.04	0.03	0.08	0.05	0.10
27/05/2022	1.24	0.04	0.11	0.04	0.07	0.03	0.09	0.05	0.13	0.02	0.04	0.01	0.04	0.04	0.05	0.05	0.12
28/05/2022	1.26	0.04	0.11	0.07	0.13	0.03	0.11	0.06	0.09	0.03	0.09	0.01	0.07	0.04	0.09	0.08	0.10
29/05/2022	1.31	0.04	0.06	0.05	0.14	0.03	0.11	0.08	0.13	0.02	0.09	0.01	0.03	0.04	0.10	0.08	0.13
30/05/2022	1.37	0.07	0.12	0.06	0.16	0.05	0.07	0.07	0.16	0.03	0.09	0.02	0.08	0.04	0.11	0.07	0.16
31/05/2022	1.49	0.05	0.13	0.05	0.14	0.04	0.14	0.06	0.15	0.03	0.05	0.01	0.07	0.05	0.12	0.07	0.15

Total Number of Measurements Taken, A:	12642	12445	13198	13367	10947	14122	14037	14671
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:	12642	12445	13198	13367	10947	14122	14037	14671
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%
OL= Offline								

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2022\05-May

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew

WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT

Water System Code: 252.00		Turbidity (NTU)																		
Licence No. PWS-09-412-02																				
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-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
02-May-2022	0.51	0.71	0.12	0.09	0.08	0.09	0.10	0.06	0.07	0.05	o/l	o/l	0.07	0.03	0.07	0.07	0.07	0.07	0.03	
03-May-2022	0.53	0.72	0.07	0.05	0.09	0.09	0.09	0.06	0.08	0.05	o/l	o/l	0.07	0.03	0.09	0.08	0.07	0.07	0.03	
04-May-2022	0.51	0.73	0.07	0.05	0.09	0.09	0.07	0.04	0.08	0.06	o/l	o/l	0.07	0.04	0.06	0.06	0.07	0.07	0.04	
05-May-2022	0.52	0.76	0.07	0.05	0.07	0.07	0.07	0.04	0.07	0.05	0.10	<0.02	0.08	0.04	0.06	0.06	0.08	0.08	0.05	
06-May-2022	0.53	0.75	0.10	0.07	0.09	0.08	0.09	0.06	0.07	0.05	0.06	<0.02	0.11	0.08	0.08	0.07	0.07	0.07	0.04	
07-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	0.07	0.03	ns	ns	ns	ns	ns	ns	
08-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
09-May-2022	0.55	0.87	0.08	0.05	0.07	0.10	0.07	0.05	0.08	0.05	0.10	0.02	0.08	0.04	0.07	0.06	0.10	0.12	0.12	
10-May-2022	0.53	0.92	0.08	0.06	0.06	0.09	0.08	0.06	0.07	0.04	0.06	<0.02	0.11	0.07	0.07	0.07	0.10	0.13	0.13	
11-May-2022	0.59	0.95	0.07	0.04	0.08	0.10	0.10	0.08	0.07	0.05	0.07	0.04	0.07	0.02	0.07	0.07	0.07	0.07	0.10	
12-May-2022	0.65	0.96	0.06	0.04	0.07	0.10	0.07	0.05	0.08	0.07	0.07	0.03	0.07	0.03	0.07	0.06	0.07	0.07	0.11	
13-May-2022	0.68	0.99	0.07	0.05	0.06	0.09	0.07	0.07	0.06	0.06	0.06	0.02	0.07	0.03	0.07	0.03	0.07	0.07	0.12	
14-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
15-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
16-May-2022	0.67	1.02	0.06	0.04	0.07	0.10	0.07	0.07	0.08	0.09	0.06	0.03	0.09	0.03	0.07	0.04	0.07	0.07	0.12	
17-May-2022	0.68	1.05	0.07	0.05	0.06	0.09	0.07	0.08	0.06	0.08	0.06	0.02	0.09	0.04	0.07	0.04	0.06	0.12	0.12	
18-May-2022	0.68	1.33	0.06	0.05	0.07	0.10	0.08	0.10	0.07	0.10	0.08	0.04	0.08	0.03	0.08	0.05	0.07	0.13	0.13	
19-May-2022	0.69	1.24	0.07	0.04	0.09	0.07	0.09	0.09	0.08	0.13	0.09	0.02	0.08	0.04	0.08	0.04	0.09	0.16	0.16	
20-May-2022	0.65	0.93	0.07	0.06	0.07	0.07	0.10	0.03	0.06	0.07	0.07	<0.02	0.09	0.03	0.08	0.04	0.10	0.07	0.07	
21-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
22-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
23-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
24-May-2022	0.67	1.06	0.07	0.05	0.08	0.07	0.09	0.04	0.08	0.08	0.08	<0.02	0.09	0.03	0.09	0.05	0.08	0.07	0.07	
25-May-2022	0.70	1.09	0.06	0.05	0.07	0.08	0.09	0.05	0.07	0.07	0.07	0.06	0.07	0.02	0.09	0.04	0.07	0.07	0.07	
26-May-2022	0.74	1.04	0.08	0.05	0.10	0.08	0.08	0.03	0.08	0.08	0.06	0.05	0.08	0.02	0.07	0.03	0.08	0.07	0.07	
27-May-2022	0.75	1.21	0.10	0.07	0.08	0.07	0.09	0.04	0.11	0.13	0.06	0.04	0.10	0.02	0.08	0.03	0.07	0.07	0.07	
28-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
29-May-2022	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
30-May-2022	0.75	1.33	0.11	0.08	0.10	0.09	0.11	0.06	0.12	0.12	0.08	0.04	0.11	0.03	0.09	0.04	0.11	0.12	0.12	
31-May-2022	0.78	1.53	0.12	0.08	0.09	0.08	0.10	0.06	0.11	0.12	0.07	0.05	0.11	0.04	0.09	0.04	0.08	0.08	0.09	
Total number of measurements taken, A:			21		21		21		21		19		21		21		21		21	
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:			21		21		21		21		19		21		21		21		21	
Compliance with Turbidity Standard, C= B/A X 100%:			100%		100%		100%		100%		100%		100%		100%		100%		100%	

na: not analyzed nr: no result ns: no sample o/l: offline im: instrument maintenance

Comments:

Filter 5 was offline for maintenance from March 25 at 6:36 PM to May 5 at 4:30 PM

Report Date: 7-Jun-2022

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

Water System Code: **252.00**
Licence Number: **PWS-09-412-02**
Report Created: **01 June 2022**

Report Period: May 2022

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/05/2022	1.20	1.12	1.20	1.16
02/05/2022	1.18	1.05	1.21	1.14
03/05/2022	1.15	1.09	1.20	1.13
04/05/2022	1.48	1.07	1.27	1.08
05/05/2022	1.16	1.09	1.18	1.13
06/05/2022	1.14	0.94	1.14	1.05
07/05/2022	1.07	0.95	1.06	1.01
08/05/2022	1.06	0.96	1.07	0.98
09/05/2022	1.13	1.08	1.09	1.01
10/05/2022	1.17	1.00	1.11	1.04
11/05/2022	1.13	1.02	1.10	1.02
12/05/2022	1.01	0.93	1.04	0.98
13/05/2022	1.18	0.99	1.11	1.02
14/05/2022	1.21	1.16	1.18	1.13
15/05/2022	1.16	1.02	1.19	1.14
16/05/2022	1.09	1.04	1.21	1.16
17/05/2022	1.18	1.05	1.23	1.13
18/05/2022	1.15	1.05	1.19	1.13
19/05/2022	1.20	1.09	1.23	1.11
20/05/2022	1.16	1.05	1.20	1.07
21/05/2022	1.25	1.14	1.23	1.11
22/05/2022	1.27	1.03	1.23	0.97
23/05/2022	1.29	1.19	1.29	1.22
24/05/2022	1.34	1.18	1.32	1.23
25/05/2022	1.35	1.19	1.34	1.23
26/05/2022	1.27	1.15	1.27	1.21
27/05/2022	1.30	1.18	1.24	1.16
28/05/2022	1.28	1.14	1.21	1.12
29/05/2022	1.30	1.14	1.25	1.16
30/05/2022	1.23	1.12	1.25	1.17
31/05/2022	1.15	1.02	1.22	1.03

Total Number of Measurements, A:	21600	21600
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	21600	21600
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2022\05-May

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew



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-09-412-02						
Date	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)
	Analyser	Grab	Grab	Analyser	Grab	Grab
01-May-2022	ns	ns	ns	ns	ns	ns
02-May-2022	1.27	1.09	1.29	1.18	1.21	1.37
03-May-2022	1.14	1.14	1.31	1.18	1.25	1.43
04-May-2022	1.12	1.10	1.28	1.14	1.19	1.36
05-May-2022	1.16	1.13	1.31	1.19	1.26	1.42
06-May-2022	1.16	1.10	1.29	1.18	1.19	1.35
07-May-2022	ns	ns	ns	ns	ns	ns
08-May-2022	ns	ns	ns	ns	ns	ns
09-May-2022	1.13	1.13	1.30	1.07	1.10	1.28
10-May-2022	1.13	1.11	1.32	1.12	1.10	1.30
11-May-2022	1.17	1.00	1.14	1.10	1.08	1.24
12-May-2022	1.00	0.96	1.13	1.04	1.07	1.23
13-May-2022	1.02	1.01	1.20	1.04	1.09	1.25
14-May-2022	ns	ns	ns	ns	ns	ns
15-May-2022	ns	ns	ns	ns	ns	ns
16-May-2022	1.09	1.16	1.33	1.21	1.22	1.41
17-May-2022	1.25	1.18	1.37	1.24	1.21	1.41
18-May-2022	1.13	1.20	1.43	1.20	1.26	1.46
19-May-2022	1.21	1.25	1.47	1.27	1.30	1.49
20-May-2022	1.12	1.13	1.36	1.17	1.24	1.44
21-May-2022	ns	ns	ns	ns	ns	ns
22-May-2022	ns	ns	ns	ns	ns	ns
23-May-2022	ns	ns	ns	ns	ns	ns
24-May-2022	1.30	1.34	1.53	1.29	1.31	1.53
25-May-2022	1.39	1.40	1.63	1.36	1.41	1.59
26-May-2022	1.30	1.32	1.51	1.28	1.34	1.51
27-May-2022	1.34	1.30	1.52	1.28	1.30	1.47
28-May-2022	ns	ns	ns	ns	ns	ns
29-May-2022	ns	ns	ns	ns	ns	ns
30-May-2022	1.28	1.28	1.49	1.30	1.31	1.51
31-May-2022	1.16	1.17	1.36	1.21	1.20	1.38
Total number of measurements taken, A:			21			21
Chlorine Standard for Monitoring Location (mg/L):			0.50			0.50
Number of measurements meeting standard, B:			21			21
Compliance with Chlorine Standard, C= B/A X 100%:			100%			100%

na: not analyzed nr: no result ns: no sample o/l: offline im: instrument maintenance

Comments:

Report Date: 1-Jun-2022



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: **252.00**
 Licence Number: **PWS-09-412-02**

WATER TREATMENT PLANT UV REPORT

Report Period: **May 2022**

Report Created: **Wednesday, June 01, 2022**

Date	Transmittance (%)				UVR_D100A			UVR_D200A			UVR_D300A			UVR_D400A			UVR_D500A			UVR_D600A		
	Branch 1		Branch 2		UV Dose [mJ/cm]²			UV Dose [mJ/cm]²			UV Dose [mJ/cm]²			UV Dose [mJ/cm]²			UV Dose [mJ/cm]²			UV Dose [mJ/cm]²		
	Avg.	Min.	Avg.	Min.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.
01/05/2022	95.2	84.8	96.2	95.7	OL	OL	OL	15.7	30.4	21.5	17.6	24.8	21.4	OL	OL	OL	17.8	21.9	21.2	OL	OL	OL
02/05/2022	95.6	82.8	96.3	95.1	OL	OL	OL	18.1	27.6	21.6	17.4	23.7	21.3	OL	OL	OL	17.7	21.8	21.2	OL	OL	OL
03/05/2022	95.8	91.8	96.4	96.0	OL	OL	OL	18.3	27.6	21.6	17.5	23.6	21.3	OL	OL	OL	17.6	22.6	21.2	OL	OL	OL
04/05/2022	96.2	85.6	96.6	96.2	OL	OL	OL	18.3	26.7	21.6	16.9	22.8	21.3	OL	OL	OL	17.5	22.4	21.2	OL	OL	OL
05/05/2022	96.6	90.1	96.7	96.1	OL	OL	OL	18.5	26.5	21.6	16.8	23.3	21.2	OL	OL	OL	17.7	21.9	21.2	OL	OL	OL
06/05/2022	96.8	94.4	96.7	96.1	OL	OL	OL	18.4	26.3	21.6	16.8	22.8	21.2	OL	OL	OL	17.4	22.3	21.1	OL	OL	OL
07/05/2022	97.1	92.0	96.9	95.8	OL	OL	OL	0.0	26.1	21.6	16.9	22.9	21.2	17.6	89.9	23.0	17.2	29.6	21.2	OL	OL	OL
08/05/2022	97.6	83.0	97.2	96.5	OL	OL	OL	OL	OL	OL	17.1	23.1	21.3	19.4	24.0	22.2	17.4	21.8	21.2	OL	OL	OL
09/05/2022	97.8	91.6	97.1	96.7	OL	OL	OL	OL	OL	OL	17.1	22.1	21.3	18.8	23.7	21.5	17.3	21.8	21.2	OL	OL	OL
10/05/2022	98.0	88.5	97.2	96.8	0.0	62.2	11.8	0.0	68.6	27.7	16.9	24.0	21.3	18.7	26.7	21.3	0.0	94.7	21.3	0.0	84.6	65.3
11/05/2022	98.1	88.2	97.1	96.6	0.0	22.3	10.8	18.5	75.6	21.6	16.3	23.9	21.2	0.0	36.9	21.3	16.4	22.5	21.2	OL	OL	OL
12/05/2022	97.8	78.3	96.8	95.7	0.0	81.6	24.4	0.0	30.2	21.6	16.5	29.4	21.3	OL	OL	OL	17.3	29.6	21.2	OL	OL	OL
13/05/2022	97.3	83.7	96.3	95.5	0.0	94.5	31.7	0.0	71.3	22.9	16.4	30.4	21.5	0.0	86.7	21.7	17.2	22.8	21.3	OL	OL	OL
14/05/2022	96.6	85.8	95.7	95.1	19.0	37.7	24.1	OL	OL	OL	16.5	22.5	21.5	OL	OL	OL	17.3	22.2	21.3	OL	OL	OL
15/05/2022	96.4	93.3	95.4	95.1	18.7	35.8	25.1	18.2	65.4	21.5	0.0	23.2	21.5	OL	OL	OL	16.8	22.3	21.3	OL	OL	OL
16/05/2022	96.3	90.2	95.4	95.1	20.9	43.8	26.7	18.5	24.3	21.5	OL	OL	OL	OL	OL	OL	17.4	21.9	21.3	OL	OL	OL
17/05/2022	96.0	92.1	95.2	92.2	20.1	43.4	25.8	16.5	29.7	21.2	OL	OL	OL	OL	OL	OL	17.3	21.9	21.3	OL	OL	OL
18/05/2022	95.7	92.9	95.0	94.3	19.6	43.6	25.1	18.6	24.0	21.1	OL	OL	OL	OL	OL	OL	17.3	21.9	21.3	OL	OL	OL
19/05/2022	96.0	94.6	95.3	95.0	17.4	37.9	23.1	0.0	25.4	21.1	16.5	79.7	21.3	0.0	85.7	22.1	0.0	28.3	21.2	19.4	84.6	26.5
20/05/2022	95.8	94.3	95.0	94.3	17.3	36.4	21.4	OL	OL	OL	17.3	24.3	21.3	OL	OL	OL	OL	OL	OL	17.4	24.8	23.2
21/05/2022	94.7	91.2	94.9	94.6	17.0	37.1	21.3	OL	OL	OL	17.2	30.5	21.3	OL	OL	OL	OL	OL	OL	16.5	29.6	21.8
22/05/2022	94.6	88.3	94.8	94.5	0.0	33.4	21.1	16.3	80.8	21.2	0.0	26.6	21.3	15.8	82.3	21.4	15.7	92.5	21.4	0.0	23.0	21.4
23/05/2022	94.7	84.2	94.9	94.3	OL	OL	OL	18.6	23.2	21.1	OL	OL	OL	18.6	22.6	21.2	18.0	22.6	21.2	OL	OL	OL
24/05/2022	94.8	77.6	95.1	93.8	OL	OL	OL	15.9	29.3	21.1	OL	OL	OL	18.7	25.4	21.3	17.9	24.7	21.2	OL	OL	OL
25/05/2022	95.6	87.8	96.0	95.0	OL	OL	OL	18.5	21.5	21.1	OL	OL	OL	18.6	23.1	21.3	17.9	21.8	21.2	OL	OL	OL
26/05/2022	96.3	93.3	96.8	96.3	OL	OL	OL	18.6	21.5	21.1	OL	OL	OL	18.8	23.6	21.4	18.1	22.0	21.2	OL	OL	OL
27/05/2022	96.3	76.0	96.7	96.4	OL	OL	OL	18.5	21.6	21.1	OL	OL	OL	18.7	23.7	21.4	18.0	22.0	21.2	OL	OL	OL
28/05/2022	96.1	83.4	96.6	96.1	OL	OL	OL	18.5	21.7	21.1	OL	OL	OL	18.6	23.6	21.3	17.8	22.0	21.2	OL	OL	OL
29/05/2022	96.1	88.0	96.5	96.1	OL	OL	OL	18.5	22.4	21.1	OL	OL	OL	18.6	23.7	21.3	17.8	23.0	21.2	OL	OL	OL
30/05/2022	95.7	81.6	96.0	94.9	OL	OL	OL	18.4	23.8	21.2	OL	OL	OL	18.7	22.6	21.3	18.0	23.0	21.2	OL	OL	OL
31/05/2022	96.2	76.2	96.6	96.0	OL	OL	OL	18.6	27.0	21.5	OL	OL	OL	18.4	30.8	21.3	18.2	28.1	21.2	OL	OL	OL

- Notes:**
1. UV Comparative Dose: 18.1 mJ/cm²
 2. OL - Off Line

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew