



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

January 7, 2025

RE: DECEMBER 2024 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 December 2024.

The on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The maximum turbidity was greater than 0.30 NTU on several dates; the elevated turbidities occurred for less than 12 consecutive hours. On December 7, the turbidity on Filter 3 exceeded 1.00 NTU, and on December 21, the turbidity on Filter 5 exceeded 1.00 NTU; additional information for these exceedances is provided separately in Corrective Action Reports. With the exception of these events, the turbidity results for the filter effluent met the licence requirements.

The 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 summary reports include results obtained for the six UV reactors at the Water Treatment Plant. On December 6 to 22 there were various UVT instantaneous dips approximately every 8 hours in Branch 1. These dips are believed to be caused by an instrument or SCADA issue. We are currently investigating and monitoring. On December 1 to 4, the UVT analyzer malfunctioned causing periodic UVT dips in Branch 2. The UVT analyzer was replaced on December 4. 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. T. Hilderman, Manitoba Health and Seniors Care (email)
T. Shanks, M. Eng., P. Eng. (email)
M. Szmon, P. Eng. (email)
H. Buhler, P. Eng. (email)
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CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

December 2024 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
1/12/2024	1.09	0.09	0.13	0.03	0.05	0.03	0.09	0.00	0.04	0.08	0.10	0.02	0.05	0.04	0.06	0.01	0.03
2/12/2024	1.01	0.10	0.13	0.03	0.06	0.03	0.11	0.00	0.03	0.08	0.10	0.02	0.05	0.03	0.05	0.01	0.03
3/12/2024	0.96	0.06	0.13	0.02	0.08	0.04	0.23	0.02	0.09	0.04	0.13	0.01	0.05	0.02	0.05	0.00	0.03
4/12/2024	0.94	0.08	0.12	0.05	0.07	0.07	0.17	0.04	0.07	0.08	0.11	0.01	0.04	0.02	0.04	0.01	0.02
5/12/2024	0.92	0.10	0.13	0.05	0.07	0.09	0.39	0.05	0.09	0.09	0.12	0.01	0.04	0.02	0.04	0.01	0.03
6/12/2024	0.90	0.06	0.12	0.04	0.08	0.07	0.32	0.04	0.07	0.07	0.16	0.02	0.09	0.02	0.04	0.00	0.02
7/12/2024	0.88	0.09	0.12	0.04	0.07	0.07	1.46	0.04	0.07	0.03	0.43	0.01	0.04	0.02	0.04	0.00	0.01
8/12/2024	0.85	0.08	0.12	0.04	0.07	0.05	0.13	0.04	0.08	0.04	0.07	0.01	0.05	0.01	0.03	0.00	0.02
9/12/2024	0.86	0.08	0.12	0.05	0.06	0.06	0.14	0.04	0.07	0.05	0.07	0.01	0.04	0.02	0.04	0.00	0.02
10/12/2024	0.79	0.08	0.13	0.04	0.06	0.06	0.23	0.04	0.07	0.05	0.08	0.05	0.35	0.04	0.55	0.05	0.48
11/12/2024	0.81	0.09	0.15	0.04	1.00	0.06	0.11	0.04	0.08	0.07	0.08	0.01	0.04	0.01	0.24	0.00	0.02
12/12/2024	0.80	0.09	0.13	0.04	0.06	0.05	0.09	0.04	0.07	0.07	0.11	0.01	0.04	0.02	0.03	0.00	0.02
13/12/2024	0.81	0.10	0.13	0.05	0.08	0.06	0.11	0.06	0.08	0.06	0.10	0.02	0.05	0.02	0.05	0.01	0.03
14/12/2024	0.80	0.09	0.14	0.05	0.07	0.06	0.13	0.06	0.09	0.05	0.08	0.02	0.04	0.02	0.05	0.01	0.04
15/12/2024	0.79	0.08	0.12	0.05	0.08	0.07	0.10	0.06	0.09	0.05	0.09	0.02	0.05	0.02	0.05	0.01	0.02
16/12/2024	0.77	0.08	0.12	0.05	0.08	0.06	0.13	0.06	0.10	0.05	0.08	0.01	0.04	0.02	0.04	0.01	0.03
17/12/2024	0.76	0.09	0.14	0.05	0.09	0.06	0.11	0.06	0.09	0.05	0.08	0.01	0.05	0.02	0.04	0.01	0.03
18/12/2024	0.76	0.10	0.14	0.05	0.09	0.07	0.14	0.08	0.12	0.06	0.10	0.02	0.05	0.02	0.04	0.01	0.03
19/12/2024	0.72	0.11	0.14	0.05	0.10	0.07	0.14	0.07	0.12	0.06	0.10	0.02	0.04	0.02	0.04	0.01	0.04
20/12/2024	0.75	0.10	0.15	0.06	0.09	0.07	0.12	0.07	0.14	0.06	0.10	0.02	0.05	0.02	0.04	0.01	0.04
21/12/2024	0.73	0.09	0.14	0.05	0.09	0.07	0.14	0.07	0.12	0.06	1.22	0.02	0.05	0.02	0.05	0.01	0.03
22/12/2024	0.74	0.09	0.13	0.05	0.09	0.07	0.15	0.08	0.11	0.05	0.08	0.01	0.04	0.03	0.04	0.01	0.04
23/12/2024	0.74	0.10	0.13	0.05	0.09	0.07	0.14	0.09	0.14	0.05	0.08	0.02	0.08	0.02	0.05	0.01	0.04
24/12/2024	0.76	0.09	0.15	0.06	0.08	0.07	0.14	0.09	0.13	0.05	0.08	0.02	0.06	0.02	0.05	0.01	0.04
25/12/2024	0.76	0.08	0.13	0.05	0.09	0.07	0.12	0.09	0.14	0.05	0.08	0.02	0.08	0.02	0.05	0.02	0.04
26/12/2024	0.79	0.09	0.13	0.05	0.09	0.07	0.13	0.10	0.16	0.05	0.08	0.02	0.04	0.02	0.05	0.02	0.03
27/12/2024	0.80	0.09	0.14	0.05	0.09	0.07	0.14	0.10	0.15	0.06	0.08	0.01	0.07	0.02	0.04	0.02	0.05
28/12/2024	0.81	0.08	0.14	0.05	0.09	0.07	0.14	0.04	0.08	0.05	0.08	0.02	0.05	0.03	0.05	0.02	0.05
29/12/2024	0.82	0.10	0.13	0.05	0.09	0.07	0.14	0.05	0.08	0.05	0.08	0.01	0.05	0.03	0.05	0.02	0.05
30/12/2024	0.80	0.09	0.14	0.06	0.08	0.07	0.16	0.04	0.08	0.05	0.08	0.02	0.05	0.03	0.06	0.02	0.05
31/12/2024	0.78	0.09	0.13	0.06	0.09	0.08	0.12	0.04	0.08	0.05	0.08	0.02	0.05	0.03	0.05	0.03	0.04

Total Number of Measurements Taken, A:	15552	14068	16703	15080	16166	16437	15648	13742
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:	15552	14065	16697	15080	16165	16433	15646	13733
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	99.979%	99.964%	100.000%	99.994%	99.976%	99.987%	99.935%

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Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water Treatment Plant Turbidity Grab Monitoring Report
December 2024

Water System Code: 252.00		Turbidity (NTU)																	
Licence No. PWS-09-412-02 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-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
02-Dec-2024	0.76	0.74	0.10	0.10	0.10	0.03	0.13	0.04	0.11	<0.02	0.10	0.10	0.10	0.03	0.10	0.03	0.12	0.03	
03-Dec-2024	0.81	0.83	0.10	0.11	0.10	0.03	0.11	0.03	0.10	<0.02	0.08	nr	0.09	0.03	0.10	0.02	0.09	<0.02	
04-Dec-2024	0.76	0.94	0.10	0.10	0.10	0.05	0.12	0.08	0.09	0.05	0.07	0.09	0.08	<0.02	0.07	<0.02	0.08	<0.02	
05-Dec-2024	1.12	0.82	0.09	0.10	0.10	0.08	0.14	0.09	0.09	0.06	0.09	0.11	0.09	0.02	0.09	<0.02	0.10	0.02	
06-Dec-2024	0.83	0.82	0.11	<0.02	0.10	0.07	0.18	0.13	0.11	0.05	0.11	0.10	0.10	0.02	0.11	0.02	0.09	0.02	
07-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
08-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
09-Dec-2024	0.61	0.78	0.08	0.10	0.07	0.05	0.11	0.07	0.09	0.06	0.07	0.05	0.07	<0.02	0.07	<0.02	0.08	<0.02	
10-Dec-2024	0.66	0.76	0.10	0.10	0.08	0.06	0.10	0.07	0.07	0.04	0.07	0.06	0.17	0.11	0.12	0.05	0.07	<0.02	
11-Dec-2024	0.69	0.77	0.08	0.10	0.10	0.07	0.11	0.07	0.08	0.05	0.07	0.08	0.06	0.02	0.06	<0.02	0.07	<0.02	
12-Dec-2024	0.74	0.76	0.08	0.11	0.21	0.20	0.10	0.06	0.08	0.05	0.07	0.09	0.06	0.04	0.06	<0.02	0.07	0.02	
13-Dec-2024	0.75	0.75	0.09	0.11	0.08	0.06	0.11	0.08	0.09	0.07	0.08	0.09	0.08	0.03	0.08	0.02	0.08	0.02	
14-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
15-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
16-Dec-2024	0.66	0.73	0.09	0.09	0.09	0.06	0.10	0.09	0.08	0.07	0.07	0.07	0.07	<0.02	0.08	0.02	0.09	0.02	
17-Dec-2024	0.65	0.73	0.10	0.10	0.09	0.05	0.14	0.09	0.11	0.07	0.09	0.07	0.09	0.02	0.09	0.02	0.10	0.02	
18-Dec-2024	0.68	0.72	0.10	0.11	0.10	0.06	0.11	0.07	0.10	0.10	0.09	0.10	0.07	0.03	0.08	0.02	0.10	0.04	
19-Dec-2024	0.68	0.70	0.11	0.11	0.09	0.06	0.12	0.07	0.11	0.08	0.10	0.09	0.07	0.02	0.08	0.02	0.07	0.02	
20-Dec-2024	0.69	0.78	0.12	0.13	0.10	0.07	0.13	0.07	0.12	0.10	0.08	0.08	0.08	0.03	0.07	<0.02	0.07	0.02	
21-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
22-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
23-Dec-2024	0.67	0.68	0.10	0.10	0.08	0.05	0.12	0.08	0.10	0.10	0.09	0.08	0.08	0.02	0.09	0.02	0.07	0.02	
24-Dec-2024	0.69	0.66	0.09	0.11	0.12	0.07	0.15	0.08	0.07	0.14	0.08	0.06	0.09	0.03	0.07	0.02	0.07	0.02	
25-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
26-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
27-Dec-2024	0.75	0.69	0.09	0.11	0.11	0.08	0.14	0.09	0.10	0.12	0.08	0.06	0.07	0.02	0.09	0.02	0.09	0.03	
28-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
29-Dec-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
30-Dec-2024	0.68	0.68	0.10	0.11	0.09	0.06	0.12	0.08	0.11	0.07	0.08	0.06	0.08	0.03	0.07	0.02	0.07	0.03	
31-Dec-2024	0.73	0.66	0.15	0.02	0.10	0.08	0.13	0.07	0.09	0.06	0.08	0.06	0.09	0.04	0.08	0.02	0.08	0.04	
Total number of measurements taken, A:			20		20		20		20		20		20		20		20		
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:			20		20		20		20		20		20		20		20		
Compliance with Turbidity Standard, C= B/A X 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:

December 3: Filter 5 analyzer reading was not recorded at the time of grab sample collection.

Report Date: January 7, 2025

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

Water System Code: **252.00**
Licence Number: **PWS-09-412-02-AA**
Report Created: 01 January 2025

Report Period: December 2024

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/12/2024	1.40	1.30	1.43	1.29
02/12/2024	1.37	1.27	1.31	1.15
03/12/2024	1.61	1.35	1.54	1.25
04/12/2024	1.64	1.24	1.57	1.09
05/12/2024	1.24	1.19	1.16	1.09
06/12/2024	1.26	1.13	1.24	1.04
07/12/2024	1.39	1.36	1.38	1.26
08/12/2024	1.34	1.30	1.25	1.20
09/12/2024	1.34	1.06	1.27	1.16
10/12/2024	1.39	1.36	1.37	1.27
11/12/2024	1.39	1.22	1.41	1.32
12/12/2024	1.37	1.17	1.41	1.33
13/12/2024	1.30	1.18	1.35	1.23
14/12/2024	1.33	1.22	1.35	1.22
15/12/2024	1.25	1.22	1.27	1.23
16/12/2024	1.22	1.15	1.22	1.13
17/12/2024	1.22	1.15	1.22	1.16
18/12/2024	1.22	1.17	1.23	1.19
19/12/2024	1.21	1.15	1.26	1.22
20/12/2024	1.14	1.07	1.18	1.09
21/12/2024	1.22	1.12	1.17	1.09
22/12/2024	1.26	1.15	1.23	1.15
23/12/2024	1.17	1.14	1.19	1.16
24/12/2024	1.13	1.00	1.16	1.03
25/12/2024	1.17	1.02	1.22	1.09
26/12/2024	1.22	1.14	1.28	1.22
27/12/2024	1.25	1.19	1.29	1.22
28/12/2024	1.32	1.26	1.32	1.28
29/12/2024	1.34	1.29	1.33	1.28
30/12/2024	1.29	1.22	1.34	1.27
31/12/2024	1.32	1.16	1.39	1.22

Total Number of Measurements, A:	21608	21609
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	21608	21609
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2024\12-December

Submitted By (Print): D. MerredewSignature: original signed by D. Merredew



Water Treatment Plant Chlorine Grab Monitoring Report December 2024

Water System Code: 252.00 Licence No. PWS-09-412-02 AA		Deacon Booster Pumping Station Branch 1		Deacon Booster Pumping Station Branch 2		
Date	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)
	Analyser	Grab	Grab	Analyser	Grab	Grab
01-Dec-2024	ns	ns	ns	ns	ns	ns
02-Dec-2024	1.37	1.30	1.54	1.30	1.25	1.46
03-Dec-2024	1.51	1.41	1.74	1.40	1.54	1.70
04-Dec-2024	1.56	1.54	1.77	1.61	1.59	1.73
05-Dec-2024	1.25	1.26	1.42	1.16	1.14	1.30
06-Dec-2024	1.22	1.19	1.34	1.21	1.20	1.34
07-Dec-2024	ns	ns	ns	ns	ns	ns
08-Dec-2024	ns	ns	ns	ns	ns	ns
09-Dec-2024	1.33	1.30	1.47	1.22	1.28	1.52
10-Dec-2024	1.38	1.34	1.53	1.30	1.26	1.48
11-Dec-2024	1.40	1.37	1.64	1.38	1.44	1.61
12-Dec-2024	1.41	1.37	1.50	1.41	1.44	1.57
13-Dec-2024	1.33	1.38	1.55	1.37	1.33	1.57
14-Dec-2024	ns	ns	ns	ns	ns	ns
15-Dec-2024	ns	ns	ns	ns	ns	ns
16-Dec-2024	1.23	1.25	1.34	1.22	1.21	1.34
17-Dec-2024	1.20	1.18	1.37	1.22	1.25	1.38
18-Dec-2024	1.21	1.23	1.37	1.23	1.20	1.43
19-Dec-2024	1.24	1.26	1.44	1.29	1.20	1.44
20-Dec-2024	1.12	1.11	1.25	1.21	1.22	1.38
21-Dec-2024	ns	ns	ns	ns	ns	ns
22-Dec-2024	ns	ns	ns	ns	ns	ns
23-Dec-2024	1.15	1.20	1.40	1.18	1.23	1.36
24-Dec-2024	1.04	1.11	1.27	1.10	1.10	1.28
25-Dec-2024	ns	ns	ns	ns	ns	ns
26-Dec-2024	ns	ns	ns	ns	ns	ns
27-Dec-2024	1.24	1.27	1.37	1.27	1.29	1.51
28-Dec-2024	ns	ns	ns	ns	ns	ns
29-Dec-2024	ns	ns	ns	ns	ns	ns
30-Dec-2024	1.23	1.22	1.45	1.31	1.33	1.46
31-Dec-2024	1.36	1.37	1.58	1.44	1.43	1.52
Total number of measurements taken, A: Chlorine Standard for Monitoring Location (mg/L): Number of measurements meeting standard, B: Compliance with Chlorine Standard, C= B/A X 100%:		20		20		
		0.50		0.50		
		20		20		
		100%		100%		

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

Comments:

Report Date: January 7, 2025



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT UV REPORT

Report Period: **December 2024**

Report Created: **Wednesday, January 01, 2025**

Date	UVR-D100A		UVR-D200A		UVR-D300A		UVR-D400A		UVR-D500A		UVR-D600A		Total		% Volume Treated To Dose
	Water Volume		Water Volume [ML]		Water Volume		Water Volume [ML]		Water Volume		Water Volume		Water Volume [ML]		
	To	Total	To	Total	To	Total	To	Total	To	Total	To	Total	To	Total	
01/12/2024	74.94	74.94	0.00	0.00	42.78	42.78	76.85	77.28	0.00	0.00	0.00	0.00	194.58	195.01	99.78
02/12/2024	88.29	88.36	0.00	0.00	13.94	13.94	87.00	87.68	0.00	0.00	0.00	0.00	189.22	189.97	99.60
03/12/2024	66.17	66.17	0.00	0.00	0.00	0.00	66.21	66.25	0.00	0.00	0.00	0.00	132.38	132.42	99.97
04/12/2024	39.22	39.36	70.77	70.77	0.00	0.00	82.60	82.60	0.00	0.00	16.40	16.55	209.00	209.29	99.86
05/12/2024	0.14	0.19	109.67	109.67	0.00	0.00	95.65	95.72	0.00	0.00	0.00	0.00	205.46	205.57	99.95
06/12/2024	1.46	1.46	103.05	103.05	9.51	9.51	31.20	31.33	0.00	0.00	55.26	55.26	200.49	200.62	99.94
07/12/2024	0.00	0.00	106.78	106.78	0.00	0.00	0.00	0.00	0.00	0.00	89.23	89.23	196.01	196.01	100.00
08/12/2024	0.00	0.00	103.21	103.21	0.00	0.00	0.00	0.00	0.00	0.00	86.48	86.48	189.69	189.69	100.00
09/12/2024	0.14	0.14	47.55	47.57	47.94	47.94	0.00	0.00	0.00	0.00	93.56	93.56	189.19	189.21	99.99
10/12/2024	0.00	0.00	0.00	0.00	85.14	85.14	0.00	0.00	0.00	0.00	95.94	95.94	181.08	181.08	100.00
11/12/2024	0.39	0.42	0.00	0.00	84.57	84.57	0.14	0.15	0.00	0.00	95.30	95.30	180.41	180.45	99.98
12/12/2024	0.00	0.00	0.00	0.15	38.13	38.13	51.76	51.76	0.00	0.00	97.95	97.95	187.84	187.99	99.92
13/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	89.95	89.95	0.00	0.00	97.03	97.03	186.97	186.97	100.00
14/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	90.32	90.32	0.00	0.00	97.37	97.37	187.69	187.69	100.00
15/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	90.50	90.50	0.00	0.00	97.49	97.49	187.98	187.98	100.00
16/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	90.53	90.53	0.00	0.00	97.53	97.53	188.05	188.05	100.00
17/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	90.52	90.52	0.00	0.00	97.49	97.49	188.01	188.01	100.00
18/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	90.50	90.50	0.00	0.00	97.52	97.52	188.02	188.02	100.00
19/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.93	86.93	0.00	0.00	93.67	93.67	180.60	180.60	100.00
20/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	85.36	85.60	0.00	0.00	92.35	92.35	177.71	177.95	99.87
21/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	87.06	87.06	0.00	0.00	93.64	93.64	180.70	180.70	100.00
22/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	87.60	87.60	0.00	0.00	94.74	94.74	182.34	182.34	100.00
23/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	88.42	88.42	0.00	0.00	95.12	95.12	183.54	183.54	100.00
24/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.75	86.75	0.00	0.00	93.74	93.74	180.50	180.50	100.00
25/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	85.98	85.98	0.00	0.00	92.87	92.87	178.85	178.85	100.00
26/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.14	86.14	0.00	0.00	92.86	92.86	179.00	179.00	100.00
27/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.15	86.15	0.00	0.00	92.86	92.86	179.01	179.01	100.00
28/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.16	86.16	0.00	0.00	92.81	92.81	178.97	178.97	100.00
29/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	87.70	87.70	0.00	0.00	94.56	94.56	182.25	182.25	100.00
30/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	88.03	88.03	0.00	0.00	94.82	94.82	182.85	182.85	100.00
31/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	87.99	87.99	0.00	0.00	94.94	94.94	182.93	182.93	100.00
Total [ML]:	270.76	271.04	541.02	541.19	322.01	322.01	2164.01	2165.61	0.00	0.00	2433.52	2433.67	5731.53	5733.58	

Water Volume [%]:
1o Dose per reactor 99.90 % 99.97 % 100.00 % 99.93 % OL % 99.99 %
To Dose Total 99.96 %

Notes: 1. Target Log value: 2.00

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-09-412-02-AA

WATER TREATMENT PLANT UV REPORT

Report Period: December 2024

Report Created: Wednesday, January 01, 2025

Date	Transmittance (%)				UVR_D100A		UVR_D200A		UVR_D300A		UVR_D400A		UVR_D500A		UVR_D600A	
	Branch 1		Branch 2		[Log]		[Log]		[Log]		[Log]		[Log]		[Log]	
	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.
01/12/2024	94.8	93.9	98.4	17.1	2.5	2.2	OL	OL	3.4	2.3	2.5	1.6	OL	OL	OL	OL
02/12/2024	94.8	94.0	94.5	0.0	2.5	1.9	OL	OL	3.6	2.3	2.6	0.7	OL	OL	0.0	0.0
03/12/2024	94.4	0.0	90.9	0.0	2.6	0.0	OL	OL	OL	OL	2.5	0.0	OL	OL	OL	OL
04/12/2024	95.3	94.3	93.3	0.0	2.5	0.0	3.0	0.0	OL	OL	2.9	0.0	OL	OL	2.5	0.0
05/12/2024	93.7	91.8	90.6	48.0	2.6	0.0	2.6	2.2	2.5	0.0	2.4	1.9	OL	OL	OL	OL
06/12/2024	93.7	2.3	94.0	93.6	2.8	0.0	2.9	0.0	3.8	0.0	2.3	0.0	OL	OL	3.1	0.0
07/12/2024	95.3	0.1	94.1	93.6	OL	OL	3.1	2.1	OL	OL	OL	OL	OL	OL	2.5	2.4
08/12/2024	93.9	2.8	94.2	94.0	OL	OL	2.7	2.0	OL	OL	OL	OL	OL	OL	2.5	2.4
09/12/2024	93.9	2.5	94.2	93.8	4.0	0.0	2.6	0.0	3.5	0.0	OL	OL	OL	OL	2.5	2.3
10/12/2024	93.5	2.9	93.9	93.3	OL	OL	OL	OL	3.4	2.9	0.0	0.0	OL	OL	2.5	2.2
11/12/2024	93.9	3.0	94.3	93.9	3.1	0.0	OL	OL	3.4	3.3	2.4	0.0	OL	OL	2.5	2.2
12/12/2024	94.0	2.8	94.5	93.8	OL	OL	0.6	0.0	3.4	0.0	2.9	0.0	OL	OL	2.5	2.3
13/12/2024	93.7	2.6	94.1	93.8	OL	OL	OL	OL	OL	OL	2.5	2.4	OL	OL	2.5	2.3
14/12/2024	93.6	2.6	94.0	93.8	OL	OL	OL	OL	OL	OL	2.5	2.4	OL	OL	2.5	2.3
15/12/2024	93.6	2.4	94.0	93.8	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
16/12/2024	93.5	2.5	94.0	93.7	OL	OL	OL	OL	OL	OL	2.5	2.4	OL	OL	2.5	2.3
17/12/2024	93.6	2.6	94.0	93.6	OL	OL	OL	OL	OL	OL	2.5	2.4	OL	OL	2.5	2.3
18/12/2024	93.4	2.8	93.9	93.6	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
19/12/2024	93.4	3.5	93.9	93.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
20/12/2024	93.4	2.6	93.9	93.6	OL	OL	OL	OL	OL	OL	2.5	0.0	OL	OL	2.5	2.3
21/12/2024	93.4	2.4	93.9	93.7	OL	OL	OL	OL	OL	OL	2.5	2.4	OL	OL	2.5	2.3
22/12/2024	93.3	2.9	93.8	93.5	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
23/12/2024	93.4	91.0	93.8	93.2	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
24/12/2024	93.3	90.6	93.8	93.5	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.4
25/12/2024	93.3	91.3	93.8	93.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
26/12/2024	93.4	47.2	93.8	93.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
27/12/2024	93.3	85.6	93.7	93.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.2
28/12/2024	93.3	90.4	93.7	93.4	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.2
29/12/2024	93.3	89.5	93.7	93.4	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.2
30/12/2024	93.2	85.5	93.6	93.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.3
31/12/2024	93.2	90.1	93.6	93.4	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.2

Notes: 1. UV target value is 2.00 [Log]
2. OL - Off Line

Submitted By (Print): _D. Merredew_____

Signature: __original signed by D. Merredew_____