



Water and Waste Department • Service des eaux et des déchets

January 6, 2017

Melanie Betsill
Office of Drinking Water
Manitoba Sustainable Development
1007 Century Street
Winnipeg, Manitoba R3H 0W4

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

Dear Ms. Betsill:

**RE: DECEMBER 2016 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 2016. There are no corrective action reports to be submitted for December 2016.

The December 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 December 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 December 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 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

cc: (e-mail)

Dr. L. Richards, Winnipeg Regional Health Authority
Dr. H. Chang, Winnipeg Regional Health Authority
Dr. S. Roberecki, Manitoba Health, Healthy Living and Seniors
M. L. Geer, CPA, CA
G. Patton, P.Eng.
T. Shanks, P.Eng.
M. Szmon, 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-09-412-01**

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

December 2016 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
1/12/2016	0.98	0.01	0.05	0.02	0.07	OL	OL	0.01	0.05	0.01	0.05	0.02	0.09	0.01	0.06	0.00	0.01
2/12/2016	0.93	0.03	0.09	0.04	0.11	OL	OL	0.02	0.03	0.03	0.07	0.04	0.06	0.03	0.09	0.01	0.03
3/12/2016	0.89	0.04	0.10	0.05	0.12	OL	OL	0.03	0.10	0.03	0.09	0.04	0.12	0.03	0.10	0.01	0.01
4/12/2016	0.88	0.03	0.09	0.04	0.06	OL	OL	0.02	0.09	0.03	0.08	0.04	0.12	0.03	0.07	0.01	0.04
5/12/2016	0.89	0.05	0.06	0.06	0.11	OL	OL	0.03	0.10	0.03	0.06	0.04	0.13	0.04	0.10	0.01	0.05
6/12/2016	0.89	0.03	0.12	0.02	0.06	0.02	0.15	0.03	0.05	0.03	0.10	0.05	0.07	0.03	0.11	0.01	0.05
7/12/2016	0.89	0.02	0.05	OL	OL	0.00	0.07	0.02	0.08	0.03	0.09	0.04	0.11	0.03	0.05	0.01	0.01
8/12/2016	0.91	0.04	0.09	OL	OL	0.00	0.00	0.02	0.07	0.03	0.05	0.03	0.11	0.03	0.09	0.01	0.03
9/12/2016	0.87	0.04	0.11	OL	OL	0.00	0.07	0.02	0.09	0.04	0.08	0.04	0.06	0.03	0.10	0.01	0.05
10/12/2016	0.86	0.03	0.10	OL	OL	0.00	0.07	0.03	0.08	0.03	0.08	0.04	0.11	0.03	0.07	0.01	0.01
11/12/2016	0.87	0.04	0.05	OL	OL	0.01	0.09	0.03	0.12	0.02	0.07	0.02	0.07	0.02	0.04	0.01	0.01
12/12/2016	0.85	0.06	0.13	OL	OL	0.00	0.01	0.04	0.14	0.03	0.07	0.01	0.07	0.02	0.06	0.01	0.01
13/12/2016	0.82	0.05	0.16	OL	OL	0.01	0.12	0.04	0.09	0.02	0.11	0.02	0.04	0.01	0.05	0.01	0.01
14/12/2016	0.83	0.04	0.12	OL	OL	0.00	0.09	0.04	0.11	0.03	0.07	0.02	0.07	0.01	0.03	0.01	0.01
15/12/2016	0.82	0.05	0.08	OL	OL	0.00	0.09	0.03	0.13	0.02	0.09	0.03	0.07	0.02	0.06	0.01	0.01
16/12/2016	0.82	0.04	0.11	OL	OL	0.00	0.00	0.02	0.11	0.04	0.09	0.04	0.15	0.04	0.12	0.01	0.05
17/12/2016	0.81	0.02	0.07	0.05	0.15	0.00	0.10	0.02	0.06	0.02	0.07	0.04	0.09	0.02	0.10	0.00	0.03
18/12/2016	0.81	0.01	0.01	0.04	0.12	0.00	0.01	0.01	0.06	0.01	0.04	0.01	0.06	0.01	0.03	0.01	0.03
19/12/2016	0.81	0.01	0.04	0.04	0.08	0.00	0.00	0.01	0.05	0.01	0.03	0.01	0.07	0.01	0.05	0.00	0.01
20/12/2016	0.80	0.01	0.06	0.06	0.11	0.00	0.04	0.01	0.02	0.01	0.05	0.02	0.04	0.01	0.07	0.00	0.01
21/12/2016	0.78	0.01	0.03	0.04	0.11	0.00	0.03	0.01	0.05	0.01	0.04	0.02	0.10	0.02	0.04	0.01	0.03
22/12/2016	0.76	0.01	0.05	0.04	0.06	0.00	0.00	0.01	0.05	0.02	0.05	0.01	0.06	0.01	0.07	0.00	0.03
23/12/2016	0.76	0.01	0.04	0.05	0.09	0.00	0.00	0.02	0.02	0.00	0.02	0.01	0.06	0.00	0.05	0.01	0.01
24/12/2016	0.75	0.01	0.02	0.04	0.10	0.00	0.01	0.01	0.02	0.00	0.02	0.00	0.02	0.01	0.01	0.01	0.01
25/12/2016	0.74	0.01	0.03	0.05	0.22	0.00	0.00	0.01	0.03	0.01	0.03	0.01	0.03	0.00	0.03	0.00	0.01
26/12/2016	0.74	0.01	0.03	0.05	0.08	0.00	0.02	0.01	0.02	0.00	0.02	0.01	0.01	0.00	0.02	0.00	0.01
27/12/2016	0.72	0.01	0.02	0.04	0.08	0.00	0.00	0.01	0.02	0.00	0.02	0.00	0.02	0.01	0.01	0.01	0.01
28/12/2016	0.71	0.01	0.03	0.04	0.07	0.00	0.00	0.01	0.02	0.01	0.02	0.00	0.03	0.00	0.02	0.00	0.01
29/12/2016	0.69	0.01	0.05	0.05	0.08	0.00	0.00	0.02	0.02	0.01	0.03	0.01	0.01	0.01	0.04	0.00	0.01
30/12/2016	0.68	0.01	0.03	0.04	0.10	0.00	0.01	0.01	0.05	0.01	0.02	0.01	0.05	0.01	0.03	0.01	0.01
31/12/2016	0.67	0.02	0.04	0.05	0.07	0.00	0.00	0.01	0.05	0.01	0.05	0.01	0.01	0.01	0.05	0.00	0.01

Total Number of Measurements Taken, A:	14974	7629	6302	11443	15759	15544	13904	15149
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:	14974	7629	6302	11443	15759	15544	13904	15149
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%

Note: OL - Off line

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2016\12-December

Submitted By (Print): D. Minor

Signature: Original signed by D. Minor



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-09-412-01																			
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-2016	0.82	0.98	0.08	<0.02	0.10	0.03	OL	OL	0.09	<0.02	0.07	<0.02	0.07	<0.02	0.08	0.02	OL	OL	
02-Dec-2016	0.76	0.90	0.13	0.05	0.14	0.07	OL	OL	0.12	<0.02	0.12	0.04	0.11	0.04	0.09	0.02	0.09	<0.02	
03-Dec-2016	NS	NS	NS	NS	NS	NS	OL	OL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
04-Dec-2016	NS	NS	NS	NS	NS	NS	OL	OL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05-Dec-2016	0.87	0.86	0.14	0.04	0.13	0.07	OL	OL	0.12	<0.02	0.10	0.03	0.10	0.04	0.14	0.06	0.12	0.02	
06-Dec-2016	0.87	0.86	0.14	0.05	0.10	0.05	0.15	0.02	0.12	0.02	0.14	0.06	0.11	0.04	0.10	0.02	0.10	<0.02	
07-Dec-2016	0.87	0.87	0.09	<0.02	OL	OL	0.14	<0.02	0.10	<0.02	0.08	0.02	0.13	0.06	0.09	0.02	0.10	<0.02	
08-Dec-2016	0.82	0.87	0.11	0.03	OL	OL	0.11	<0.02	0.09	<0.02	0.09	0.02	0.09	0.02	0.11	0.04	0.10	<0.02	
09-Dec-2016	0.84	0.86	0.13	0.05	OL	OL	0.12	<0.02	0.12	0.02	0.13	0.06	0.13	0.04	0.10	0.02	0.11	<0.02	
10-Dec-2016	NS	NS	NS	NS	OL	OL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11-Dec-2016	NS	NS	NS	NS	OL	OL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12-Dec-2016	0.82	0.84	0.13	0.05	OL	OL	0.14	<0.02	0.12	0.02	0.07	<0.02	0.06	<0.02	0.08	0.02	0.07	<0.02	
13-Dec-2016	0.83	0.82	0.14	0.05	OL	OL	0.20	0.06	0.18	0.06	0.19	0.09	0.09	0.02	0.07	0.02	0.09	<0.02	
14-Dec-2016	0.66	0.84	0.10	0.02	OL	OL	0.14	<0.02	0.13	0.03	0.08	0.02	0.09	0.03	0.06	<0.02	0.06	<0.02	
15-Dec-2016	0.67	0.81	0.12	0.04	OL	OL	0.12	<0.02	0.17	0.05	0.09	0.02	0.07	<0.02	0.07	<0.02	0.07	<0.02	
16-Dec-2016	0.71	0.82	0.10	0.03	OL	OL	0.10	<0.02	0.09	<0.02	0.10	0.03	0.10	0.03	0.12	0.05	0.08	<0.02	
17-Dec-2016	NS	NS	NS	NS	0.14	0.14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
18-Dec-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
19-Dec-2016	0.75	0.81	0.07	<0.02	0.06	0.06	0.07	<0.02	OL	OL	0.06	<0.02	0.06	<0.02	0.08	0.02	0.08	<0.02	
20-Dec-2016	0.62	0.78	0.10	0.02	0.07	0.06	0.09	<0.02	0.07	<0.02	0.08	0.06	0.07	<0.02	0.06	<0.02	0.06	<0.02	
21-Dec-2016	0.66	0.77	0.08	<0.02	0.11	0.09	0.06	<0.02	0.09	<0.02	0.07	<0.02	0.10	0.03	0.08	0.02	0.08	<0.02	
22-Dec-2016	0.69	0.75	0.08	<0.02	0.07	0.05	0.07	<0.02	0.06	<0.02	0.08	<0.02	0.08	<0.02	0.09	0.02	0.10	<0.02	
23-Dec-2016	0.68	0.75	<0.05	<0.02	0.05	0.06	0.07	<0.02	0.05	<0.02	OL	OL	<0.05	<0.02	<0.05	<0.02	0.07	<0.02	
24-Dec-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
25-Dec-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
26-Dec-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
27-Dec-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
28-Dec-2016	0.60	0.71	0.08	<0.02	0.10	0.06	0.07	<0.02	0.06	<0.02	0.08	<0.02	0.08	<0.02	0.10	<0.02	0.08	<0.02	
29-Dec-2016	0.56	0.68	0.06	<0.02	0.07	0.07	0.10	<0.02	0.07	<0.02	0.10	0.02	0.08	<0.02	0.07	<0.02	0.05	<0.02	
30-Dec-2016	0.57	0.66	0.07	<0.02	0.09	0.11	0.09	<0.02	0.11	<0.02	0.09	<0.02	0.08	<0.02	0.10	<0.02	0.09	<0.02	
31-Dec-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total number of measurements taken, A:			19		13		17		19		19		19		19		19		
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:			19		13		17		19		19		19		19		19		
Compliance with Turbidity Standard, C= B/A X 100%:			100%		100%		100%		100%		100%		100%		100%		100%		

NS: No Sample NA: Not Analyzed OL: Off-Line

Comments:

Filter 2 was offline from December 6th to 17th and Filter 3 was offline from November 20th to December 6th for scheduled maintenance.

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 4-Jan-17



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

Water System Code: **252.00**
Licence Number: **PWS-09-412-01**
Report Created: 04 January 2017

Report Period: December 2016

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/12/2016	1.13	0.78	1.05	0.79
02/12/2016	1.26	1.10	1.13	1.05
03/12/2016	1.23	1.13	1.13	1.09
04/12/2016	1.20	1.13	1.12	1.05
05/12/2016	1.22	1.16	1.11	1.05
06/12/2016	1.21	1.15	1.08	0.99
07/12/2016	1.21	1.09	1.08	0.99
08/12/2016	1.20	1.13	1.10	0.93
09/12/2016	1.21	1.10	1.16	1.06
10/12/2016	1.20	1.14	1.17	1.11
11/12/2016	1.17	1.12	1.13	1.08
12/12/2016	1.11	1.00	1.12	1.05
13/12/2016	1.01	0.95	1.04	0.93
14/12/2016	1.01	0.99	0.94	0.90
15/12/2016	1.04	0.98	0.95	0.89
16/12/2016	1.05	0.98	0.98	0.88
17/12/2016	1.08	1.05	1.07	0.99
18/12/2016	1.09	1.06	1.11	1.07
19/12/2016	1.05	0.98	1.07	1.00
20/12/2016	1.07	1.02	1.14	1.03
21/12/2016	1.13	1.06	1.15	1.08
22/12/2016	1.04	0.98	1.11	1.03
23/12/2016	1.16	1.02	1.11	1.01
24/12/2016	1.16	1.06	1.08	1.01
25/12/2016	1.14	0.99	1.08	0.96
26/12/2016	1.14	1.00	1.10	1.02
27/12/2016	1.18	1.14	1.10	1.06
28/12/2016	1.20	1.16	1.11	1.07
29/12/2016	1.18	1.11	1.06	1.02
30/12/2016	1.16	1.11	1.03	0.99
31/12/2016	1.11	1.04	1.00	0.98

Total Number of Measurements, A:	21601	21601
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	21601	21601
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2016\12-December

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		Deacon Booster Pumping Station Branch 1			Deacon Booster Pumping Station Branch 2		
Licence No. PWS-09-412-01							
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-2016	1.11	1.20	1.31	0.97	1.08	1.21	
02-Dec-2016	1.32	1.26	1.43	1.11	1.19	1.31	
03-Dec-2016	NS	NS	NS	NS	NS	NS	
04-Dec-2016	NS	NS	NS	NS	NS	NS	
05-Dec-2016	1.26	1.32	1.50	1.14	1.24	1.36	
06-Dec-2016	1.20	1.23	1.42	1.08	1.17	1.30	
07-Dec-2016	1.22	1.29	1.43	1.09	1.18	1.30	
08-Dec-2016	1.19	1.26	1.38	1.10	1.15	1.28	
09-Dec-2016	1.23	1.24	1.44	1.14	1.19	1.33	
10-Dec-2016	NS	NS	NS	NS	NS	NS	
11-Dec-2016	NS	NS	NS	NS	NS	NS	
12-Dec-2016	1.17	1.22	1.33	1.10	1.14	1.28	
13-Dec-2016	0.98	1.10	1.23	1.11	1.14	1.25	
14-Dec-2016	1.02	1.12	1.24	0.94	1.07	1.19	
15-Dec-2016	1.01	1.13	1.22	0.92	1.06	1.20	
16-Dec-2016	1.04	1.06	1.21	0.98	1.08	1.19	
17-Dec-2016	NS	NS	NS	NS	NS	NS	
18-Dec-2016	NS	NS	NS	NS	NS	NS	
19-Dec-2016	1.07	1.12	1.29	1.09	1.13	1.27	
20-Dec-2016	1.04	1.09	1.24	1.08	1.10	1.25	
21-Dec-2016	1.13	1.18	1.32	1.17	1.19	1.34	
22-Dec-2016	1.03	1.10	1.31	1.10	1.22	1.38	
23-Dec-2016	1.59	1.55	1.68	1.13	1.17	1.33	
24-Dec-2016	NS	NS	NS	NS	NS	NS	
25-Dec-2016	NS	NS	NS	NS	NS	NS	
26-Dec-2016	NS	NS	NS	NS	NS	NS	
27-Dec-2016	NS	NS	NS	NS	NS	NS	
28-Dec-2016	1.22	1.25	1.42	1.12	1.12	1.28	
29-Dec-2016	1.16	1.20	1.36	1.04	1.09	1.26	
30-Dec-2016	1.17	1.19	1.33	1.05	1.09	1.23	
31-Dec-2016	NS	NS	NS	NS	NS	NS	
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-Jan-17



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: **252.00**
Licence Number: **PWS-09-412-01**

Report Period: **December 2016**

Report Created: **Wednesday, January 04, 2017**

Date	Transmittance %			UVR-D100A			UVR-D200A			UVR-D300A			UVR-D400A			UVR-D500A			UVR-D600A			Total			% Volume Treated To Dose																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	92.34	92.91	92.78	92.94	92.67	92.77	93.13	93.20	92.94	93.04	92.44	92.29	92.43	92.21	92.17	92.75	92.88	92.61	92.55	92.56	92.27	92.10	92.09	92.24		92.12	92.51	92.57	92.58	92.59	92.61	92.63	92.64	92.65	92.66	92.67	92.68	92.69	92.70	92.71	92.72	92.73	92.74	92.75	92.76	92.77	92.78	92.79	92.80	92.81	92.82	92.83	92.84	92.85	92.86	92.87	92.88	92.89	92.90	92.91	92.92	92.93	92.94	92.95	92.96	92.97	92.98	92.99	93.00	93.01	93.02	93.03	93.04	93.05	93.06	93.07	93.08	93.09	93.10	93.11	93.12	93.13	93.14	93.15	93.16	93.17	93.18	93.19	93.20	93.21	93.22	93.23	93.24	93.25	93.26	93.27	93.28	93.29	93.30	93.31	93.32	93.33	93.34	93.35	93.36	93.37	93.38	93.39	93.40	93.41	93.42	93.43	93.44	93.45	93.46	93.47	93.48	93.49	93.50	93.51	93.52	93.53	93.54	93.55	93.56	93.57	93.58	93.59	93.60	93.61	93.62	93.63	93.64	93.65	93.66	93.67	93.68	93.69	93.70	93.71	93.72	93.73	93.74	93.75	93.76	93.77	93.78	93.79	93.80	93.81	93.82	93.83	93.84	93.85	93.86	93.87	93.88	93.89	93.90	93.91	93.92	93.93	93.94	93.95	93.96	93.97	93.98	93.99	94.00	94.01	94.02	94.03	94.04	94.05	94.06	94.07	94.08	94.09	94.10	94.11	94.12	94.13	94.14	94.15	94.16	94.17	94.18	94.19	94.20	94.21	94.22	94.23	94.24	94.25	94.26	94.27	94.28	94.29	94.30	94.31	94.32	94.33	94.34	94.35	94.36	94.37	94.38	94.39	94.40	94.41	94.42	94.43	94.44	94.45	94.46	94.47	94.48	94.49	94.50	94.51	94.52	94.53	94.54	94.55	94.56	94.57	94.58	94.59	94.60	94.61	94.62	94.63	94.64	94.65	94.66	94.67	94.68	94.69	94.70	94.71	94.72	94.73	94.74	94.75	94.76	94.77	94.78	94.79	94.80	94.81	94.82	94.83	94.84	94.85	94.86	94.87	94.88	94.89	94.90	94.91	94.92	94.93	94.94	94.95	94.96	94.97	94.98	94.99	95.00	95.01	95.02	95.03	95.04	95.05	95.06	95.07	95.08	95.09	95.10	95.11	95.12	95.13	95.14	95.15	95.16	95.17	95.18	95.19	95.20	95.21	95.22	95.23	95.24	95.25	95.26	95.27	95.28	95.29	95.30	95.31	95.32	95.33	95.34	95.35	95.36	95.37	95.38	95.39	95.40	95.41	95.42	95.43	95.44	95.45	95.46	95.47	95.48	95.49	95.50	95.51	95.52	95.53	95.54	95.55	95.56	95.57	95.58	95.59	95.60	95.61	95.62	95.63	95.64	95.65	95.66	95.67	95.68	95.69	95.70	95.71	95.72	95.73	95.74	95.75	95.76	95.77	95.78	95.79	95.80	95.81	95.82	95.83	95.84	95.85	95.86	95.87	95.88	95.89	95.90	95.91	95.92	95.93	95.94	95.95	95.96	95.97	95.98	95.99	96.00	96.01	96.02	96.03	96.04	96.05	96.06	96.07	96.08	96.09	96.10	96.11	96.12	96.13	96.14	96.15	96.16	96.17	96.18	96.19	96.20	96.21	96.22	96.23	96.24	96.25	96.26	96.27	96.28	96.29	96.30	96.31	96.32	96.33	96.34	96.35	96.36	96.37	96.38	96.39	96.40	96.41	96.42	96.43	96.44	96.45	96.46	96.47	96.48	96.49	96.50	96.51	96.52	96.53	96.54	96.55	96.56	96.57	96.58	96.59	96.60	96.61	96.62	96.63	96.64	96.65	96.66	96.67	96.68	96.69	96.70	96.71	96.72	96.73	96.74	96.75	96.76	96.77	96.78	96.79	96.80	96.81	96.82	96.83	96.84	96.85	96.86	96.87	96.88	96.89	96.90	96.91	96.92	96.93	96.94	96.95	96.96	96.97	96.98	96.99	97.00	97.01	97.02	97.03	97.04	97.05	97.06	97.07	97.08	97.09	97.10	97.11	97.12	97.13	97.14	97.15	97.16	97.17	97.18	97.19	97.20	97.21	97.22	97.23	97.24	97.25	97.26	97.27	97.28	97.29	97.30	97.31	97.32	97.33	97.34	97.35	97.36	97.37	97.38	97.39	97.40	97.41	97.42	97.43	97.44	97.45	97.46	97.47	97.48	97.49	97.50	97.51	97.52	97.53	97.54	97.55	97.56	97.57	97.58	97.59	97.60	97.61	97.62	97.63	97.64	97.65	97.66	97.67	97.68	97.69	97.70	97.71	97.72	97.73	97.74	97.75	97.76	97.77	97.78	97.79	97.80	97.81	97.82	97.83	97.84	97.85	97.86	97.87	97.88	97.89	97.90	97.91	97.92	97.93	97.94	97.95	97.96	97.97	97.98	97.99	98.00	98.01	98.02	98.03	98.04	98.05	98.06	98.07	98.08	98.09	98.10	98.11	98.12	98.13	98.14	98.15	98.16	98.17	98.18	98.19	98.20	98.21	98.22	98.23	98.24	98.25	98.26	98.27	98.28	98.29	98.30	98.31	98.32	98.33	98.34	98.35	98.36	98.37	98.38	98.39	98.40	98.41	98.42	98.43	98.44	98.45	98.46	98.47	98.48	98.49	98.50	98.51	98.52	98.53	98.54	98.55	98.56	98.57	98.58	98.59	98.60	98.61	98.62	98.63	98.64	98.65	98.66	98.67	98.68	98.69	98.70	98.71	98.72	98.73	98.74	98.75	98.76	98.77	98.78	98.79	98.80	98.81	98.82	98.83	98.84	98.85	98.86	98.87	98.88	98.89	98.90	98.91	98.92	98.93	98.94	98.95	98.96	98.97	98.98	98.99	99.00	99.01	99.02	99.03	99.04	99.05	99.06	99.07	99.08	99.09	99.10	99.11	99.12	99.13	99.14	99.15	99.16	99.17	99.18	99.19	99.20	99.21	99.22	99.23	99.24	99.25	99.26	99.27	99.28	99.29	99.30	99.31	99.32	99.33	99.34	99.35	99.36	99.37	99.38	99.39	99.40	99.41	99.42	99.43	99.44	99.45	99.46	99.47	99.48	99.49	99.50	99.51	99.52	99.53	99.54	99.55	99.56	99.57	99.58	99.59	99.60	99.61	99.62	99.63	99.64	99.65	99.66	99.67	99.68	99.69	99.70	99.71	99.72	99.73	99.74	99.75	99.76	99.77	99.78	99.79	99.80	99.81	99.82	99.83	99.84	99.85	99.86	99.87	99.88	99.89	99.90	99.91	99.92	99.93	99.94	99.95	99.96	99.97	99.98	99.99	100.00	100.01	100.02	100.03	100.04	100.05	100.06	100.07	100.08	100.09	100.10	100.11	100.12	100.13	100.14	100.15	100.16	100.17	100.18	100.19	100.20	100.21	100.22	100.23	100.24	100.25	100.26	100.27	100.28	100.29	100.30	100.31	100.32	100.33	100.34	100.35	100.36	100.37	100.38	100.39	100.40	100.41	100.42	100.43	100.44	100.45	100.46	100.47	100.48	100.49	100.50	100.51	100.52	100.53	100.54	100.55	100.56	100.57	100.58	100.59	100.60	100.61	100.62	100.63	100.64	100.65	100.66	100.67	100.68	100.69	100.70	100.71	100.72	100.73	100.74	100.75	100.76	100.77	100.