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February 28, 2017

Mr. David Unrau Director of Public Works Town of Petawawa 1111 Victoria Street Petawawa, ON K8H 2E6

Dear David:

#### **RE: 2016 Annual Reports Required By Ontario Regulations**

Please find attached the 2016 Summary Report for the Petawawa Drinking Water System. This report is completed based on the information we have in our records in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act. This schedule requires a Summary Report to be prepared no later than March 31<sup>st</sup> of each year for the preceding calendar year.

Any orders that you have received directly from the Ministry of the Environment and Climate Change (MOECC) should be reviewed. Where non-compliance with the Order is evident and it is not included in the attached 2016 Summary Report, then, we recommend that this information be added.

After your review and inclusion of any additional information, this Summary Report is to be provided to the members of the municipal council. It is also important to record and keep on record that this document was reviewed in council (resolution of council).

Also, attached is the Section 11 Annual Report. This report is prepared to satisfy the requirements of O. Reg. 170/03, Section 11. It should also be noted that a copy of this report is no longer required to be submitted to the MOECC.

As part of the requirements of the Water Taking and Transfer Regulation (O. Reg. 387/04), it is required that all the raw water daily flow volumes are submitted electronically for review by the MOECC. A copy of the data that was submitted is attached in this report, as well as a copy of the confirmation that the data was received.

Section 12 of O. Reg. 170/03 requires that these reports be made available for inspection by any member of the public during normal business hours, without charge. The reports are to be made available for inspection on the internet and at the office of the municipality.

Sincerely,

#### Brenda Royce

Brenda Royce Process and Compliance Technician Ontario Clean Water Agency Laurentian View Cluster Eastern Region

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Dan Scissons, CAO/Clerk, Town of Petawawa ec: Brad Sweet, Senior Operations Manager, OCWA Andrew Trader, Eastern Regional Manager, OCWA Vanessa Greatrix, Safety, Process & Compliance Manager, OCWA Copy to File







# PETAWAWA DRINKING WATER SYSTEM 2016 ANNUAL REPORT



Prepared by:
Brenda Royce

Process and Compliance Technician

Laurentian View Cluster – Eastern Region

02/07/2017





#### Foreword

This document contains three different reports required for the Petawawa Drinking Water System:

- Section 11, Annual Report, as per the SDWA, 2002- Section 11 of the Ontario Regulation 170/03
- Summary Report, as per the SDWA, 2002- Schedule 22 of the Ontario Regulation 170/03
- Summary of the Raw Water values that were submitted to the Ministry of the Environment under the Ontario Regulation 387/04, OWRA, 1990- Water Taking.

Section 12 of Ontario Regulation 170/03 of the SDWA, 2002, requires both the Summary Report and the Annual Report be made available for inspection by any member of the public during normal business hours, without charge. These reports are to be made available for inspection at the office of the municipality and on the municipality internet site.

# SECTION 11 ANNUAL REPORT 2016



#### Drinking Water Systems Regulation O. Reg. 170/03 Section 11- Annual Report

#### **System Information:**

Drinking Water System Name	Petawawa Drinking Water System
Municipal Drinking Water License #	199-101, Issue #2
Drinking Water Works Permit #	199-201, Issue #2
Drinking Water System Number	210002101
System Owner	Town of Petawawa
Operating Authority	Ontario Clean Water Agency
Drinking Water System Category	Large Municipal Residential
DWQMS Status (SAI Global Certified- File #	Full Scope/ Entire DWQMS Accreditation on
1634127-01)	December 15, 2012
Reporting Period	January 1, 2016 – December 31, 2016

Summary Report (170/03 Schedule 22) will be available for inspection at:

Town of Petawawa 1111 Victoria Street Petawawa, ON K8H 2E6

#### List all Drinking Water Systems which receive all of their drinking water from your system:

Name	Drinking Water System Number
CFB Petawawa	Federal jurisdiction

#### Provide a brief description of the system:

Petawawa Water Treatment Plant is a conventional water treatment system using PAS-8 as the primary coagulant, and polymer as the secondary coagulant to achieve coagulation, flocculation, and sedimentation. Pre and post pH adjustment with soda ash is also utilized during the water treatment process. Dual media filters provide filtration and chlorine gas is used for disinfection. Fluoridation is also practiced.

#### What Treatment Chemicals were used during the Reporting Year:

Chemical Name	Use	Supplier
PAS-8	Coagulant	Kemira
Fluoride	Fluoridation	Brenntag
Soda Ash Dense	pH Adjustment	Solvay Chemicals, Inc.
Chlorine Gas	Disinfection	Brenntag
Superfloc A-100 Flocculant (Polymer)	Coagulant Aid	Kemira

Summary of any Reports made to the Ministry under Subsection 18 (1) of the Act or Section 16-4 of Schedule 16:

DDINIZING					
DRINKING WATER LEGISLATION	AWQI#	# PARAMETER/ EQUIPMENT DURATE		CORRECTIVE ACTION TAKEN	STATUS
SDWA 170/03	128334	Loss of Trending for the BPS #1 & BPS #2& Township Tower	Feb. 22/16	Re-started main SCADA computer and trending restored.	Completed

#### Does your Drinking-Water System serve more than 10 000 people?



If yes, is your annual report available to the public at no charge on a web site on the internet?



Indicate how you notified system users that your annual report is available, and is free of charge?

- Notice via Government Office
- Town of Petawawa internet Web-Site

#### Capacity Assessment of the Petawawa Drinking Water System:

Year	2012	2013	2014	2015	2016
Av. Day Flow (m <sup>3</sup> /d)	7 159.3	6 463.48	6 162.13	5 916.25	5 876.01
Design Capacity (m <sup>3</sup> /d)	21 500.0	21 500.0	21 500.0	21 500.0	21 500.0
% of Capacity (based on av. day flows)	33.3	30.1	28.7	27.5	27.3
Max. Day Flow (m <sup>3</sup> /d)	13 860.0	11 664.0	12 037.0	9 922.0	12 559.0
% of Capacity (based on max. day flows)	64.5	54.3	56.0	46.1	58.4

In 2016, the average day flow was at approximately 27.3 % of the current plant design, and the maximum day flow was at approximately 58.4 % of the plant design of 21 500.0 m<sup>3</sup>/d.

Microbiological Testing (Ont. Reg. 170/03, Sch.10, Sch.11 or Sch.12 & Ont. Reg. 169/03 Standards – Not Detectable):

	# of E-coli Samples Taken	E-Coli Results (min-max)	# of Total Coliform Samples Taken	Total Coliform Results (min-max)	# of HPC Samples Taken	HPC Results (min-max)
Raw	52	0-4	52	0-161	0	N/A
Treated	52	0-0	52	0-0	52	0-1
Distribution	316	0-0	316	0-0	316	0-303

Operational Testing, On-Line (Opt. Reg. 170/03, Sch. 7, Sch. 8 or Sch. 9):

Parameter	Ont. Reg. 170/03 Standard	Range of Results (min # - max #)		
Filter #1 Turbidity	1 NTU	0 – 2.000 NTU		
Filter #2 Turbidity	1 NTU	0 – 0.880 NTU		
Filter #3 Turbidity	1 NTU	0 – 0.910 NTU		
Treated Free Chlorine	0.05 mg/L – 4 mg/L	0 – 4.4 mg/L*		
Distribution Free Chlorine**	0.2 mg/L - 4.0 mg/L	0.28-1.63 mg/L*		
Treated Fluoride	1.5 mg/L***	0 – 0.56 mg/L		

<sup>\*</sup>spikes recorded by on-line instrumentation were a result of various maintenance/calibration activities and power outages. All spikes are reviewed for compliance with O. Reg. 170/03 and reported as required. \*\*Includes all Booster Stations (2) and Tower (3) samples.

Summary of Additional Non-Required Samples, In-House:

Parameter	# of grab samples taken	Ont. Reg. 170/03 / Ont. Reg. 169/03 Standard (MAC), as applicable	Range of Results (min # - max #)
Treated Water Free Chlorine	104	0 mg/L – 1.0 mg/L	1.26 – 1.95 mg/L
Treated Water Fluoride	88	1.5 mg/L	0.39 – 0.77 mg/L
Treated Water Turbidity	100	1 NTU	0.05 – 9.5 NTU
Treated Water Alkalinity	53	30 – 500 mg/L (OG)*	21 – 39 mg/L
Treated Water Aluminum	103	0.1 mg/L (OG)	0 – 3 mg/L
Treated Water Colour	104	5 TCU (AO)**	<1-<5.0 TCU
Treated Water pH	104	6.5 – 8.5 (OG)	6.02 - 7.52
Distribution Free Chlorine	324	0.2 mg/L - 4.0 mg/L	0.28 – 1.63 mg/L
Filter #1 Turbidity	104	INTU	0.054 – 0.800 NTU

<sup>\*\*\*</sup>Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 – 0.8 mg/L which is the optimum level for the control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L, but less than 2.4 mg/L, the Ministry of Health and Long Term Care recommends an approach through the local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources (taken from the Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines, June 2006, MOE PIBS 4449e01).

Filter #2 Turbidity	104	1 NTU	0.052 – 0.700 NTU
Filter #3 Turbidity	104	1 NTU	0.041 – 0.364 NTU

<sup>\* (</sup>OG) - Operational Guidelines- are established for parameters that, if not controlled, may negatively affect the efficient and effective treatment, disinfection and distribution of the water.

Laboratory:

Laboratory.			
Parameter	# of grab	Ont. Reg. 170/03 /	Range of Results
	samples taken	Ont. Reg. 169/03	(min # - max #)
	_	Standard (MAC), as	
		applicable	
Treated Water Alkalinity	52	30 – 500 mg/L (OG)	25-48  mg/L
Treated Water Colour	52	5 TCU (AO)	< 2 -< 4 TCU
Treated Water Conductivity	52	300 – 500 uS/cm	116 – 170 uS/cm
Treated Water pH	52	6.5 – 8.5 (OG)	6.96 – 7.94
Treated Water	50	500 mg/L	40 – 120 mg/L
Total Dissolved Solids	52	(AO)	40 – 120 lilg/L
Treated Water Hardness	52	80 – 100 mg/L (OG)	14 – 28 mg/L
Treated Water Fluoride	52	1.5 mg/L	0.2 - 0.67  mg/L
Distribution Water Alkalinity	164	30 – 500 mg/L (OG)	22 – 52 mg/L
Distribution Water Colour	158	5 TCU (AO)	< 2 - < 4 TCU
Distribution Water Conductivity	158	300 – 500 uS/cm	120 – 174 uS/cm
Distribution Water pH	158	6.5 – 8.5 (OG)	6.88 – 8.14
Distribution Water	150	500 mg/L	50 120 mg/J
Total Dissolved Solids	158	(AO)	50 – 130 mg/L
Distribution Water	150	80 – 100 mg/L	12 21 ma/I
Hardness	158	(OG)	12 – 31 mg/L

**Summary of Additional Samples:** 

Reason	Date of Issuance	Parameter	Date Sampled	Result
MDWL # 199-101, Issue 2	July 5, 2016	Backwash Effluent Suspended Solids	5-Jan-16	4.0 mg/L
,, 155 101, 155110 2			14-Apr-16	< 3.0 mg/L
			25-Jul-16	4.0 mg/L
			5-Oct-16	< 2.0 mg/L*

<sup>\*</sup>The annual average for Backwash Effluent Suspended Solids is 3.25 mg/L, which is below the limit of 25 mg/L.

## Summary of Inorganic Parameters Tested or Most Recent Sample Results: MAC = Maximum Allowable Concentration as per O. Reg. 169/03

(INSERTED ON THE NEXT PAGES)

# Summary of Organic Parameters Tested or Most Recent Sample Results: MAC = Maximum Allowable Concentration as per O. Reg. 169/03 (INSERTED ON THE NEXT PAGES)

<sup>\*\*(</sup>AO) – Aesthetic Objectives- are established for parameters that may impair the taste, odour or colour of water, or which may interfere with good water quality control practices (taken from the Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines, MOECC PIBS 4449e01, June 2006).

Drinking-Water System Number: 210002101

Drinking-Water System Name:

PETAWAWA DRINKING WATER SYSTEM

Drinking-Water System Owner:

Title Holder: Municipality

Drinking-Water System Category: Large Municipal Residential

Period being reported:

01/2016

12/2016

Table 4

#### Summary of Inorganic parameters tested during this reporting period or the most recent sample results

	Sample Date (mm/dd/yyyy)	1 - 1		No. of E	xceedances
TREATED WATER				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>6.0</td><td>No</td><td>No</td></mdl>	6.0	No	No
Arsenic: As (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>25.0</td><td>No</td><td>No</td></mdl>	25.0	No	No
Barlum: Ba (ug/L) - TW	2016/01/11	<mdl 10.0<="" td=""><td>1000.0</td><td>No</td><td>No</td></mdl>	1000.0	No	No
Boron: B (ug/L) - TW	2016/01/11	<mdl 10.0<="" td=""><td>5000.0</td><td>No</td><td>No</td></mdl>	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2016/01/11	<mdl 0.1<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
Chromium: Cr (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>50.0</td><td>No</td><td>No</td></mdl>	50.0	No	No
Mercury: Hg (ug/L) - TW	2016/01/11	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Selenium: Se (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
Uranium: U (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2016/12/28	0.44	1.5	No	No
Nitrite (mg/L) - TW	2016/01/04	<mdl 0="" 1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2016/04/04	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2016/07/05	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2016/10/03	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrate (mg/L) - TW	2016/01/04	0.19	10.0	No	No
Nitrate (mg/L) - TW	2016/04/04	0.2	10.0	No	No
Nitrate (mg/L) - TW	2016/07/05	0.15	10.0	No	No
Nitrate (mg/L) - TW	2016/10/03	0.18	10.0	No	No
Sodium: Na (mg/L) - TW	2014/02/10	20.0	20*	No	Yes

<sup>\*</sup>There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Drinking-Water System Number: 210002101

Drinking-Water System Name: PETAWAWA DRINKING WATER SYSTEM

Drinking-Water System Owner: Title Holder: Municipality

Drinking-Water System Category: Large Municipal Residential

Period being reported: 01/2016 12/2016

Table 6
Summary of Organic parameters sampled during this reporting period or the most recent sample results

TREATED WATER	Sample Date	Sample Result	MAC	Number of	Exceedance
	(yyyy/mm/dd)			MAC	1/2 MAC
Alachlor (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2016/01/11	<mdl 0.2<="" td=""><td>5 00</td><td>No</td><td>No</td></mdl>	5 00	No	No
Azinphos-methyl (ug/L) - TW	2016/01/11	<mdl 2.0<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Benzene (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2016/01/11	<mdl 0.01<="" td=""><td>0.01</td><td>No</td><td>Yes</td></mdl>	0.01	No	Yes
Bromoxynil (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Carbaryl (ug/L) - TW	2016/01/11	<mdl 5.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Carbofuran (ug/L) - TW	2016/01/11	<mdl 5.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2016/01/11	<mdl 0.2<="" td=""><td>2.00</td><td>No</td><td>No</td></mdl>	2.00	No	No
Chlorpyrifos (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Diazinon (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Dicamba (ug/L) - TW	2016/01/11	<mdl 0<="" 1="" td=""><td>120 00</td><td>No</td><td>No</td></mdl>	120 00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2016/01/11	<mdl 0.4<="" td=""><td>200.00</td><td>No</td><td>No</td></mdl>	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2016/01/11	<mdl 0.4<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2016/01/11	<mdl 0.2<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>14.00</td><td>No</td><td>No</td></mdl>	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2016/01/11	<mdl 4.0<="" td=""><td>50.00</td><td>No</td><td>No</td></mdl>	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>900.00</td><td>No</td><td>No</td></mdl>	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Diclofop-methyl (ug/L) - TW	2016/01/11	<mdl 0,="" 9<="" td=""><td>9.00</td><td>No</td><td>No</td></mdl>	9.00	No	No
Dimethoate (ug/L) - TW	2016/01/11	<mdl 2.5<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Diquat (ug/L) - TW	2016/01/11	<mdl 5.0<="" td=""><td>70.00</td><td>No</td><td>No</td></mdl>	70.00	No	No
Diuron (ug/L) - TW	2016/01/11	<mdl 10.0<="" td=""><td>150.00</td><td>No</td><td>No</td></mdl>	150.00	No	No
Glyphosate (ug/L) - TW	2016/01/11	<mdl 10.0<="" td=""><td>280.00</td><td>No</td><td>No</td></mdl>	280.00	No	No
Malathion (ug/L) - TW	2016/01/11	<mdl 5.0<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
Metolachlor (ug/L) - TW	2016/01/11	<mdl 0<="" 1="" td=""><td>50.00</td><td>No</td><td>No</td></mdl>	50.00	No	No
Metribuzin (ug/L) - TW	2016/01/11	<mdl 5.0<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl>	80.00	No	No

Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2016/01/11	<mdl 0.2<="" th=""><th>80.00</th><th>No</th><th>No</th></mdl>	80.00	No	No
Paraquat (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
PCB (ug/L) - TW	2016/01/11	<mdl 0="" 1<="" td=""><td>3 00</td><td>No</td><td>No</td></mdl>	3 00	No	No
Pentachlorophenol (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>60.00</td><td>No</td><td>No</td></mdl>	60.00	No	No
Phorate (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>2.00</td><td>No</td><td>No</td></mdl>	2.00	No	No
Picloram (ug/L) - TW	2016/01/11	<mdl 5.0<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
Prometryne (ug/L) - TW	2016/01/11	<mdl 0.25<="" td=""><td>1,00</td><td>No</td><td>No</td></mdl>	1,00	No	No
Simazine (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
Terbufos (ug/L) - TW	2016/01/11	<mdl 0="" 4<="" td=""><td>1 00</td><td>No</td><td>No</td></mdl>	1 00	No	No
Tetrachloroethylene (ug/L) - TW	2016/01/11	<mdl 0.3<="" td=""><td>30.00</td><td>No</td><td>No</td></mdl>	30.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Triallate (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>230.00</td><td>No</td><td>No</td></mdl>	230.00	No	No
Trichloroethylene (ug/L) - TW	2016/01/11	<mdl 0.3<="" td=""><td>50 00</td><td>No</td><td>No</td></mdl>	50 00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2016/01/11	<mdl 0.5<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA)* (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Trifluralin (ug/L) - TW	2016/01/11	<mdl 1.0<="" td=""><td>45.00</td><td>No</td><td>No</td></mdl>	45.00	No	No
Vlnyl Chloride (ug/L) - TW	2016/01/11	<mdl 0.2<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
DISTRIBUTION WATER					
Trihalomethane: Total (ug/L) Annual Average - DW	2016/01/01	55.75	100.00	No	Yes

<sup>\*</sup>As of January 1st, 2017 this parameter will be added as a chemical standard to Schedule 2 with a MAC of 0.1 mg/L

### Summary of Community Lead Sampling Program: (Ont. Reg. 169/03 Standard = 10 ug/L or 0.01 mg/L (MAC):

<u>Reduced Sampling</u>: Distribution Samples Only Required (Dec 15th-Apr 15th & Jun 15th-Oct 15<sup>th</sup> annually): Taken from 4 hydrants for Petawawa DWS.

Distribution Samples-

Doto	pH R	esults	Alkalinit	y Results	CI2 R	esults
Date Sampled	Max Result	Min Result	Max Result	Min Result	Max Result	Min Result
11-Apr-16	6.74	6.68	34	32	1.05	0.68
19-Sept-16	6.90	6.78	41	33	0.66	0.49

#### 2016 Facility Work Order Status:

Preventative Work Orders Completed	55
Operational Work Orders Completed	42
Call Back Work Orders Completed	13
Capital Work Orders Completed	21
Corrective Work Orders Completed	38

#### 2016 Maintenance Summary:

# **Brief Description - Summary of Expenses Incurred for Installations,** Repairs or Replacements for Capital Projects:

- Intake inspections.
- High lift pump check valve solenoids, and soft start.
- Air compressor maintenance and repairs.
- Summer student labour costs.
- Water main break costs on Petawawa Blvd.
- Wolfe Street flow meter replacement.
- Water main replacement at booster station #1 on Petawawa Blvd.
- Service repair at 16 Lisa Street.
- Low lift pump repair.

- Maintenance parts for chlorine pump repair.
- Costs for floor stripping and waxing.
- Maintenance parts for analyzers.
- Costs for check valve seals for high lift pumps.
- Upgrades to the clear well.
- Miscellaneous capital items needed for repair and maintenance of the plant and equipment.

#### Distribution Activities for 2016:

**Background:** OCWA is responsible for the operation of the water treatment plant, booster pumping stations (2), water storage facilities (3 towers), and the distribution system that OCWA assumed responsibility for on January 1st, 2011.

- Petawawa Water Treatment Plant is a Class 3 Facility.
- Petawawa Distribution System is a Class 1 System.

#### **Distribution Summary:**

- 1. OCWA Operators attended to 1 water leak repair in 2016: At 2089 Petawawa Blvd.
- 2. Booster Pumping Stations are checked every week on Mondays and Thursdays. Towers are inspected twice weekly, as well.
- 3. Hydrant Flushing was performed on all (582) hydrants between May 16th July 14<sup>th</sup>, 2016. Annual winterizing of hydrants was completed in November 8<sup>th</sup> -18<sup>th</sup>, 2016. All dead end hydrants were checked and flushed in May and November, 2016.
- 4. The Community Lead Sampling Program was conducted during the Winter Period of December 15<sup>th</sup>, 2015 to April 15<sup>th</sup>, 2016 and again during the Summer Period of June 15<sup>th</sup> to October 16<sup>th</sup>, 2016. See Summary of Community Lead Sampling above for results.
- 5. Water Service Inspections (including water turn on/offs, new home piping inspections, backflow preventer installations, charging/pressure and flow testing, locates, exercising valves, opening curb stops, assisting contractors, collecting bacti samples, etc.) were performed during 2016 on numerous homes, businesses and roads within the Town of Petawawa. These types of inspections to various locations within the Town, included such activities as: PLEASE SEE NEXT FIVE PAGES ATTACHED.

#### Petawawa Distribution

#### 2016

- January 5 Flushed hydrant #448 behind Petawawa Plaza.
- January 5 Eastway Construction water main tie-in at Nick St. and Town Center Road.
- January 7 H&H Construction water main tie-in at Highland Crescent and Newport St.
- January 7 -- H&H Construction water main tie-in at Newport St. and Morning Star Crescent.
- January 8 Water turn on at 14,16,18 William Thomas Drive.
- February 19 Water turn on at 12 Dustin Drive.
- March 1 Inspect hydrant #49 at Willard St. and Mohns Avenue after fire department used.
- March 8 Do-All Construction re-locating hydrant #57 at new Mac's Milk at Limestone and Petawawa Blvd.
- March 31 Flush hydrant #448 behind Petawawa Plaza.
- April 11 Inspect hydrant #398 at Township Tower after fire department used.
- April 12 5 New construction water & sewer inspections on Winston Avenue.
- April 13 3 New construction water & sewer inspections on Winston Avenue.
- April 13 New construction water & sewer inspection on Newport St.
- April 19 New construction water & sewer inspection on Butler St.
- April 19 2 New construction water & sewer inspections on Noble Crescent.
- April 20 New construction water & sewer inspection on Marquis Drive.
- April 21 New construction water & sewer inspection on Gardner Crescent.
- April 22 New construction water & sewer inspection on Gardner Crescent.
- April 25 New construction water & sewer inspection on Gardner Crescent.

- April 26 New construction water & sewer inspection on Gardner Crescent.
- April 26 New construction water & sewer inspection on Newport St.
- April 27 New construction water & sewer inspection on Dustin Drive.
- April 29 New construction water & sewer inspection on Oak St.
- May 3 Flush hydrant #44B behind Petawawa Plaza.
- May 3 New construction water & sewer inspection on Noble Crescent.
- May 3 New construction water & sewer inspection on Dustin Drive.
- May 3 New construction water & sewer inspection on Nick St.
- May 5 New construction water & sewer inspection on Dustin Drive.
- May 5 New construction water & sewer inspection on Newport St.
- May 6 H&H Construction raising 3 hydrants on Highland Crescent.
- May 6 Install backflow preventer and turn hydrant on at Civic Center Road for Civic Center staff.
- May 10 New construction water & sewer inspection on Dustin Drive.
- May 11 New construction water & sewer inspection on Dustin Drive.
- May 12 New construction water & sewer inspection on Garner Crescent.
- May 16 New construction water & sewer inspection on Gardner Crecent.
- May 16 to July 14 Spring hydrant flushing program (all hydrants)
- May 19 New construction water & sewer inspection on Nick St.
- May 25 New construction water inspection on Sack Road.
- May 31 New construction water & sewer inspection on Dustin Drive.
- June 1 New construction water & sewer inspection on Newport St,

- June 1 New construction water & sewer inspection on Liam St.
- June 2 New Construction water & sewer inspection on Liam St.
- June 3 RGT Clouthiers at new Tim Hortons on Town Center Road to tie-in new service lines and water main connection.
- June 3 New construction water & sewer inspection on Nick St.
- June 8 2 New construction water & sewer inspections on Chad St.
- June 9 4 New construction water & sewer inspections on Chad St.
- June 10 H&H construction at Portage Road subdivision for live tap, flushing and sampling.
- June 10 New construction water & sewer inspection on Oak St.
- June 14 New construction water & sewer inspection on Newport St.
- June 14-3 New construction water & sewer inspections on McNamara St.
- June 15 New construction water & sewer inspection on Dustin Drive.
- June 17 New construction water & sewer inspection on Gardner Crescent.
- June 23 Water service line repair on easement off Boulder Creek St.
- June 24 New construction water & sewer inspection on Newport St.
- June 29 New construction water & sewer inspection on Laurentian Drive.
- July 5 H&H on Civic Center Road installing new water main from Dairy Queen to Highland Crescent.
- July 5 H&H at Portage Road new subdivision doing water main tie-in and water line flushing.
- July 6 RGT Clouthiers at 2089 Petawawa Blvd. for water main leak repair.
- July 12 Flush hydrant 44B behind Petawawa Piaza.
- July 19 New construction water & sewer inspection on Newport St,
- July 20 New construction water & sewer inspection on Wilson Avenue.

- July 21 New construction water turn on at 15 East St.
- July 22 New construction water & sewer inspection on Noble Crescent.
- July 22 New construction water & sewer inspection on Dustin Drive.
- August 4 H&H at Civic Center Road to do live tap on water main for filling and sampling new water main extension.
- August 3 New construction water & sewer inspection on Newport St.
- August 9 New construction water turn on at 13 Newport St.
- August 11 New construction water & sewer inspection on Liam St.
- August 16 New construction water & sewer inspection on Oak St.
- August 16 New construction water & sewer inspection on Liam St.
- August 16 H&H construction on Civic Center Road to re-locate hydrant back 15 feet.
- August 16 Flushing new water main to begin water sampling.
- August 22 H&H on Civic Center Road to tie-in the two new water main ends.
- August 29 Flush Town Center Road water line dead end.
- August 29 Flush Dustin Drive water main dead end.
- August 29 New construction water & sewer inspection on Newport St.
- August 30 4 New construction water & sewer inspections on Chad St.
- August 31 2 New construction water & sewer inspections on Chad St.
- August 31 Begin water main valve exercising and stopped October 4
- September 14 New construction water & sewer inspection on Newport St.
- October 4 New construction water & sewer inspection on Newport St.
- October 18 2 New construction water & sewer inspection on Marquis Drive.
- October 21 New construction water & sewer inspection on East St.
- October 21- 2 New construction water & sewer inspections on Marguis Drive.

October 25 – 2 New construction water & sewer inspections on Liam St.

November 2 - New construction water & sewer inspection on Petawawa Blvd.

November 14 – New construction water & sewer inspection on Gardner Crescent.

November 16 – New construction water & sewer inspection on Dustin Drive.

November 9 to November 15 – Dead end hydrant flushing.

November 8 to November 18 – Hydrant Pumping and installing hydrant antifreeze.

November 17 – RGT Clouthiers doing two water main tie-ins, one at Black Bay Road and Carla St. and one at Black Bay Road and Industrial Road.

November 17 – RGT Clouthier doing a 6" live tap and a 1" live at new storage lockers on Industrial Road.

November 18 - New construction water & sewer inspection on Black Bay Road.

November 30 – New construction water & sewer inspection on Dustin Drive.

December 5 – New construction water turn on at 74 Oak St.

December 8 – Hydrant repair at dead and of Sammy Drive.

December 12 - New construction water turn on at 76 Oak St.

# SUMMARY REPORT 2016

# PETAWAWA DRINKING WATER SYSTEM 2016 SUMMARY REPORTS FOR MUNICIPALITIES

#### Report:

This report is a summary of water quality information for the Petawawa Drinking Water System, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1, 2016 to December 31, 2016. The Petawawa Drinking Water System is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by the Ontario Clean Water Agency on behalf of the Town of Petawawa.

#### Who gets a copy of the Report?

> in the case of a drinking-water system owned by a municipality, the members of the municipal council;

#### What must the Report contain?

The report must,

- (a) list the requirements of the Act, the regulations, the system's approval and any order that the system <u>failed to meet</u> at any time during the period covered by the report and specify the duration of the failure; and
- (b) for each failure referred to in clause (a) describe the measures that were taken to correct the failure.

The following table lists the requirements that the system failed to meet and the measures taken to correct the failure:

Drinking Water Legislation	AWQI #	List the requirement(s) the system failed to meet	Specify the duration of the failure (i.e. date(s))	Describe the measures taken to correct the failure	Status (complete or outstanding)
SDWA 170/03	128334	Loss of Trending for the BPS #1 & BPS #2& Township Tower	Feb. 22/16	Re-started main SCADA computer and trending restored.	Completed

#### 2015 - 2016 Petawawa DWS MOECC Inspection:

The Ministry of Environment conducted their annual site visit for the 2015-2016 reporting year on March 3rd, 2016. The MOECC Drinking Water Inspector had no 'Actions Required' or 'BMP/Recommended Actions' identified in the inspection report.

The final report was received on March 22, 2016 with an Inspection Rating of 100%.

# PETAWAWA DRINKING WATER SYSTEM 2016 SUMMARY REPORTS FOR MUNICIPALITIES

#### Summary of Community Complaints/Service Forms for 2016:

Please refer to next attached Table – Compliance Incident Details, for the Petawawa DWS Summary of Community Complaints.

#### What else must the Report contain?

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

- 1. Summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
- 2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence.

#### Capacity Assessment of the Petawawa Drinking Water System:

Year	2012	2013	2014	2015	2016
Av. Day Flow (m <sup>3</sup> /d)	7 159.3	6 463.48	6 162.13	5 916.25	5 876.01
Design Capacity (m <sup>3</sup> /d)	21 500.0	21 500.0	21 500.0	21 500.0	21 500.0
% of Capacity (based on av. day flows)	33.3	30.1	28.7	27.5	27.3
Max. Day Flow (m <sup>3</sup> /d)	13 860.0	11 664.0	12 037.0	9 922.0	12 559.0
% of Capacity (based on max. day flows)	64.5	54.3	56.0	46.1	58.4

In 2016, the average day flow was at approximately 27.3 % of the current plant design, and the maximum day flow was at approximately 58.4 % of the plant design of 21 500.0 m<sup>3</sup>/d.

Attached is a copy of the Facility Flow Summary for the Petawawa Drinking Water System. This document contains all required flow information. Also, attached is the confirmation for the submission into the MOECC WTRS for the 2016 reporting period.

#### When Does the Report Get Submitted?

If a report is prepared for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31st.

# Compliance Incident Details



Page 1 of 2

Details Corrective ActionTaken	Report#	Problem	Date of Resolution	bate of Incident	Status	Authority	Location	۵
U 144	Report#	Problem	Date of Resolution	Date of Incident	Status	Authority	Location	₽

15.08	Corrective ActionTaken			investigated		investigated	investigated	investigated	investigated	investigated	investigated
	Details			Loss of trending for BPS #1, BPS #2, and Township Tower.		Low water pressure complaint	Resident concerned with the cloudy, white colour of water.	Low water pressure when running more than one sprinkler at a time.	Low water pressure complaint. An irrigation system was being installed and contractor's didn't think it would function properly because of this.	Low water pressure complaint.	Resident wanted OCWA to check the water pressure at the house. He thought the PRV maybe failing, as he just switched from electric to gas HWT.
	Report#			MANUSCO SECULOS SECU							
	Problem	a DWS		Trending		Community Complaint	Complaint Complaint	Community Complaint	Community Complaint	Community Complaint	Complaint
	Date of Resolution	Petawawa DWS		22-Feb-2016		02-Feb-2016	01-Feb-2016	03-Aug-2016	07-Jul-2016	05-Apr-2016	04-Apr-2016
	Date of Incident			22-Feb-2016		02-Feb-2016	01-Feb-2016	03-Aug-2016	06-Jul-2016	05-Apr-2016	04-Apr-2016
E	Status			Complete		Complete	Complete	Complete	Complete	Complete	Complete
	Authority			MOE		MOE	MOE	MOE	МОЕ	MOE	MOE
	Location			plant	Community Complaint	522 Turning Stone Cr	12 Elmer Avenue	22 Wilbert Street	13 Concord Street	9 Algonguin Street	34 Sunset Crescent
***************************************	۵		AWQI	738	Comm	732	731	737	736	735	734

	Corrective ActionTaken	investigated	investigated	investigated	investigated
The statement of the state of t	Details	Resident complained of brown coloured water.	Resident get high water pressure spikes that usually happen in the winter. He has replace his HWT and has to empty a bucket every week from the blowoff. Usually the shower head will leak with the high pressure.	Resident complained of low water pressure at her house.	Resident complained of no water pressure at her house.
340'A	Report#				
The state of the s	Problem	Community Complaint	Community Complaint	Community Complaint	Community Complaint
of its, and made an arrangement of the second secon	Date of Resolution	14-Apr-2016	22-Jan-2016	17-Nov-2015	16-Nov-2015
The state of the s	Date of Incident	31-Mar-2016	22-Jan-2016	17-Nov-2015	16-Nov-2015
The accommodate to the second	Status	Complete	Complete	Complete	Complete
where the same and the same	Authority	MOE	MOE	MOE	MOE
A SANTON MAN AND AND AND AND AND AND AND AND AND A	Location	21 Albert Street	278 Carla Street	110 Hemlock Street	90 Oak Avenue
The summer of the same of the	Ð	733	728	669	869

Facility Flow Summary

Drinking-Water System Number: 210002101

Drinking-Water System Name: PETAWAWA DRINKING WATER SYSTEM
Drinking-Water System Owner: Title Holder: Municipality
Drinking-Water System Category: Lorge Municipal Residential
Municipal Drinking Water License: 199-101
Period being reported: 01/2016 12/2016

			Raw Water								Tre	reated Water		
Raw Water (Source Name) Source Type: Drinling Water Permit to Take Water No:	lame) it to Take Water No:	Raw Water RIVER 3814-912RQN								Treated Water (Source Name)		Treated Water		
Month	Monthly Flow Total [m3/month]	Daily Flow Average fm3/day)	Dally Flow Maximum (m3/dav)	Daily Flow Peak Flow Rate (L/min)	Peak Flow Rate Days of Water (L/sec)	Number of Days of Water Talding	Maximum Dally Run Time (hr)	Well Level, Minimum	Well Level, Maximum	Well Level, Monthly Flow Maximum Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak How Rate (L/min)	Daily How Peak Flow Rate (L/sec)
Jan	140558.00	L	8		157.05	31	14.00			124428.00	4013.81	5315.00		
Teb ep	159111.00	5486.59	6781.00		107.18	29	16.00			114939.00	3963.41	4581.00		
Mar	149794.00		5890.00		141.40	31	14.00			120699.00	3893.52	4917.00		
Apr	162912.00	5430.40	6864.00		143.85	30	15.00			155689.00	5189.63	6616.00		
May	215014.00	6935.94	9944.00		229.40	31	18.00			202635.00	6536.61	9550.00		
Jun	268786.00	8959.53	12670.00		255.30	30	21.00			258902.00	8630.07	11988.00		
100	312969.00	10095.77	12362.00		227.50	31	20.00			287994.00	9290.13	11500.00		
Aug	264788.00	8541.55	13137.00		227.40	31	22.00			248353.00	8011.39	12559.00		
Sep	186655.00	6221.83	7809.00		213.38	30	13.00			174107.00	5803.57	7436.00		
Oct	177554.00	5727.55	6524.00		216.65	31	11.00			162710.00	5248.71	2976.00		
Now	159584.00	5319.47	6138.00		215.76	30	13.00			149563.00	4985.43	5734.00		
Dec	168770.00	5444.19	6044.00		208.50	31	11.00			153321.00	4945.84	5402.00		
1	00 1000000	0000000	00 12001		75 5750	366	188.00			2153340.00	70512.11	91574.00		
Aum	C9 CUCC91		8356 17		195.28	31				179445.00	5876.01	7631.17		
Max	312969.00		"		255.30	31				153321.00	9290.13	12559.00		
Oritenia														
														_

# ANNUAL WATER TAKING AND TRANSFER REPORT - SUBMITTED DATA TO MOECC, FOR THE YEAR OF 2016

#### **Brenda Royce**

From:

WTRS Helpdesk [WTRSHELPDESK@ontario.ca]

Sent:

February-16-17 9:52 AM

To:

Brenda Royce

Subject:

RE: Uploading xml file to system

#### Hello Brenda

Below is your 2016 submission confirmation for PTTW 3814-9J2RQN





Ministry of the Envirt and Climate (

| WT DATA | REPORTS | SEARCH WT DATA | ADMINISTRATION | USER PROFILE | CONTACT US | HELP | HOME | LOGG

Location: WIRS / WI DAYA / Input WI Record

WIR

#### Water Taking Data submitted successfully.

#### Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 3814-9J2RQN

Permit Holder: THE CORPORATION OF THE TOWN OF PETAWAWA.

Received on: Feb 16, 2017 9:51 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Thank you Helen D'Apice

----Original Message-----

From: Brenda Royce [mailto:BRoyce@ocwa.com]

Sent: February 16, 2017 9:49 AM

To: WTRS Helpdesk

Subject: Uploading xml file to system

Good Morning,

I am having trouble uploading my xml file to the WTRS for Petawawa DWS. As with ever year, the system tells me that river is not a proper source. Could you please try uploading it for me. Thanks and have a great day.

Brenda Royce
Process & Compliance Technician
Ontario Clean Water Agency
Laurentian View Cluster

#### Ontario Clean Water Agency Annual Water Taking and Transfer Report

From 01/01/2016 To 12/31/2016

Facility: PETAWAWA DRINKING WATER SYSTEM-5710

Tag: Raw Flow: Sum (m3/d)

Tag Group: Raw Water

Permit#: 3814-9J2RQN Source Name: ALLUMETTE LAKE (OTTAWA RIVER)

Source: SURFACE Type: RIVER/ Purpose: Municipal

Coordinate Zone:	18
Easting:	322258
Northing:	5088033
Mothed detect	Motorod

Date Measured	Value (m³/d)	Value (Litres)
01/01/2016	4939.0000	4939000.0000
02/01/2016	4743.0000	4743000.0000
03/01/2016	5054.0000	5054000.0000
04/01/2016	5287.0000	5287000.0000
05/01/2016	5057.0000	5057000.0000
06/01/2016	6111.0000	6111000.0000
07/01/2016	4303.0000	4303000.0000
08/01/2016	5798.0000	5798000.0000
09/01/2016	4968.0000	4968000.0000
10/01/2016	4004.0000	4004000.0000
11/01/2016	4921.0000	4921000.0000
12/01/2016	2008.0000	2008000.0000
13/01/2016	4427.0000	4427000.0000
14/01/2016	5104.0000	5104000.0000
15/01/2016	4248.0000	4248000.0000
16/01/2016	4404.0000	4404000.0000
17/01/2016	4503.0000	4503000.0000
18/01/2016	4723.0000	4723000.0000
19/01/2016	4726.0000	4726000.0000
20/01/2016	4555.0000	4555000.0000
21/01/2016	4560.0000	4560000.0000
22/01/2016	4595.0000	4595000.0000
23/01/2016	4492.0000	4492000.0000
24/01/2016	4924.0000	4924000.0000
25/01/2016	4554.0000	4554000.0000
26/01/2016	4148.0000	4148000.0000
27/01/2016	3235.0000	3235000.0000
28/01/2016	4353.0000	4353000.0000
29/01/2016	4778.0000	4778000.0000
30/01/2016	3298.0000	3298000.0000
31/01/2016	3738.0000	3738000.0000
01/02/2016	4243.0000	4243000.0000
02/02/2016	3647.0000	3647000.0000
03/02/2016	4528.0000	4528000.0000
04/02/2016	5205.0000	5205000.0000
05/02/2016	5527.0000	5527000.0000
06/02/2016	4949.0000	4949000.0000
07/02/2016	5725.0000	5725000.0000
08/02/2016	5914.0000	5914000.0000
09/02/2016	6139.0000	6139000.0000
10/02/2016	5438.0000	5438000.0000
11/02/2016	6781.0000	6781000.0000

12/02/2016	6022.0000	6022000.0000
13/02/2016	5230.0000	5230000.0000
		*
14/02/2016	5258.0000	5258000.0000
15/02/2016	5724.0000	5724000.0000
16/02/2016	5899.0000	5899000.0000
17/02/2016	5214.0000	5214000.0000
18/02/2016	5457.0000	5457000.0000
19/02/2016	5642.0000	5642000.0000
20/02/2016	5757.0000	5757000.0000
21/02/2016	4894.0000	4894000.0000
• •		
22/02/2016	5985.0000	5985000.0000
23/02/2016	6045.0000	6045000.0000
24/02/2016	5896.0000	5896000.0000
25/02/2016	5777.0000	5777000.0000
		5600000.0000
26/02/2016	5600.0000	
27/02/2016	5438.0000	5438000.0000
28/02/2016	5430.0000	5430000.0000
29/02/2016	5747.0000	5747000.0000
01/03/2016	5710.0000	5710000.0000
02/03/2016	5543.0000	5543000.0000
03/03/2016	5705.0000	5705000.0000
04/03/2016	5890.0000	5890000.0000
05/03/2016	5531.0000	5531000.0000
	5335.0000	
06/03/2016		5335000.0000
07/03/2016	5871.0000	5871000.0000
08/03/2016	5285.0000	5285000.0000
09/03/2016	5232.0000	5232000.0000
10/03/2016	5546.0000	5546000.0000
11/03/2016	5020.0000	5020000.0000
12/03/2016	4788.0000	4788000.0000
13/03/2016	4134.0000	4134000.0000
14/03/2016	4883.0000	4883000.0000
· · · • · · · · · · · · · · · · · · · ·	4518.0000	4518000.0000
15/03/2016		
16/03/2016	4189.0000	4189000.0000
17/03/2016	4218.0000	4218000.0000
18/03/2016	4529.0000	4529000.0000
19/03/2016	4013.0000	4013000.0000
		4342000.0000
20/03/2016	4342.0000	
21/03/2016	5205.0000	5205000.0000
22/03/2016	4831.0000	4831000.0000
23/03/2016	4723.0000	4723000.0000
24/03/2016	4727.0000	4727000.0000
25/03/2016	3896.0000	3896000.0000
26/03/2016	4475.0000	4475000.0000
27/03/2016	4186.0000	4186000.0000
28/03/2016	4476.0000	4476000.0000
29/03/2016	4570.0000	4570000.0000
30/03/2016	2709.0000	2709000.0000
31/03/2016	5714.0000	5714000.0000
01/04/2016	5611.0000	5611000.0000
02/04/2016	5579.0000	5579000.0000
03/04/2016	5293.0000	5293000.0000
04/04/2016	6360.0000	6360000.0000
05/04/2016	5478.0000	5478000.0000
06/04/2016	5036,0000	5036000.0000
07/04/2016	5120.0000	5120000.0000
****		4930000.0000
08/04/2016	4930.0000	
09/04/2016	4775.0000	4775000.0000
10/04/2016	5454.0000	5454000.0000
11/04/2016	5360.0000	5360000.0000
· · · •		

12/04/2016	5382.0000	5382000.0000
13/04/2016	5445.0000	5445000.0000
14/04/2016	5067.0000	5067000.0000
15/04/2016	6864,0000	6864000.0000
16/04/2016	5194,0000	5194000.0000
17/04/2016	5340.0000	5340000.0000
	5850.0000	5850000.0000
18/04/2016		
19/04/2016	6041.0000	6041000.0000
20/04/2016	6275.0000	6275000.0000
21/04/2016	5138.0000	5138000.0000
22/04/2016	4817.0000	4817000.0000
23/04/2016	5791.0000	5791000.0000
24/04/2016	5304,0000	5304000.0000
25/04/2016	5625.0000	5625000.0000
26/04/2016	4886.0000	4886000.0000
	5180.0000	5180000.0000
27/04/2016		
28/04/2016	5105.0000	5105000.0000
29/04/2016	5300.0000	5300000.0000
30/04/2016	5312.0000	5312000.0000
01/05/2016	5361.0000	5361000.0000
02/05/2016	5473.0000	5473000.0000
03/05/2016	4975,0000	4975000.0000
04/05/2016	5497.0000	5497000.0000
05/05/2016	5952.0000	5952000.0000
06/05/2016	6102.0000	6102000.0000
	6417.0000	6417000.0000
07/05/2016		
08/05/2016	5168.0000	5168000.0000
09/05/2016	5446.0000	5446000.0000
10/05/2016	6052.0000	6052000.0000
11/05/2016	6050.0000	6050000.0000
12/05/2016	6378.0000	6378000.0000
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31/10/2016         5795.0000         5795000.0000           01/11/2016         5820.0000         5820000.0000           02/11/2016         5501.0000         5501000.0000           03/11/2016         5612.0000         5501000.0000           04/11/2016         5569.0000         5569000.0000           05/11/2016         5019.0000         5019000.0000           06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           18/11/2016         5324.0000         5324000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5517.0000         5517000.0000           22/11/2016         5587.0000	30/10/2016	4965 0000	4965000 0000
01/11/2016         5820.0000         5820000.0000           02/11/2016         5501.0000         5501000.0000           03/11/2016         5612.0000         5612000.0000           04/11/2016         5569.0000         5569000.0000           05/11/2016         5019.0000         5019000.0000           06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5692.0000         5968000.0000           14/11/2016         5692.0000         586300.0000           18/11/2016         5724.0000         5724000.000           18/11/2016         5324.0000         5324000.0000           18/11/2016         5511.0000         5511000.000           20/11/2016         5517.0000         5517000.0000           21/11/2016         5587.0000         5587000.0000           25/11/2016         5587.0000         <	• • • • • • • • • • • • • • • • • • • •		
02/11/2016         5501.0000         5501000.0000           03/11/2016         5612.0000         5612000.0000           04/11/2016         5569.0000         5569000.0000           05/11/2016         5019.0000         5019000.0000           06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5692.0000         5692000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           18/11/2016         5724.0000         5724000.000           18/11/2016         5511.0000         5511000.0000           20/11/2016         5517.0000         5517000.0000           21/11/2016         5517.0000         5517000.0000           22/11/2016         5587.0000         566000.0000           28/11/2016         5768.0000	•		
03/11/2016         5612.0000         5612000.0000           04/11/2016         5569.0000         5569000.0000           05/11/2016         5019.0000         5019000.0000           06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5863.0000         5863000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           22/11/2016         5517.0000         5517000.0000           25/11/2016         5587.0000			
04/11/2016         5569.0000         5569000.0000           05/11/2016         5019.0000         5019000.0000           06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5863.0000         5863000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           18/11/2016         5324.0000         5324000.0000           18/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           22/11/2016         5517.0000         561000.0000           24/11/2016         5660.000         566000.0000           26/11/2016         5157.0000         <	02/11/2016	5501.0000	5501000.0000
04/11/2016         5569.0000         5569000.0000           05/11/2016         5019.0000         5019000.0000           06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5863.0000         5863000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           18/11/2016         5324.0000         5324000.0000           18/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           22/11/2016         5517.0000         561000.0000           24/11/2016         5660.000         566000.0000           26/11/2016         5157.0000         <	03/11/2016	5612 0000	5612000 0000
05/11/2016         5019.0000         5019000.0000           06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           15/11/2016         5863.0000         5863000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           22/11/2016         5610.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5768.0000         5684000.0000           28/11/2016         5684.0000		*	
06/11/2016         583.0000         583000.0000           07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           18/11/2016         5324.0000         5324000.0000           18/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           22/11/2016         5610.0000         566000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5768.0000         5768000.0000           28/11/2016         5684.0000         5684000.0000           29/11/2016         5684.0000	• – • . •		
07/11/2016         4570.0000         4570000.0000           08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         5511.0000         5511000.0000           19/11/2016         5460.0000         5460000.0000           20/11/2016         5517.0000         5517000.0000           21/11/2016         5610.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           25/11/2016         5768.0000         5768000.0000           27/11/2016         5684.0000         5684000.0000           28/11/2016         5684.0000         5684000.0000           29/11/2016         5684.0000			
08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           15/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         5324.0000         5324000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           23/11/2016         566.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           25/11/2016         5768.0000         5768000.0000           27/11/2016         5684.0000         5684000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5684.0000	06/11/2016	583.0000	583000.0000
08/11/2016         3937.0000         3937000.0000           09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           15/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         5324.0000         5324000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           23/11/2016         566.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           25/11/2016         5768.0000         5768000.0000           27/11/2016         5684.0000         5684000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5684.0000	07/11/2016	4570.0000	4570000.0000
09/11/2016         5095.0000         5095000.0000           10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           23/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5768.0000         5768000.0000           27/11/2016         5684.0000         5684000.0000           29/11/2016         5684.0000         5684000.0000           01/12/2016         5643.0000         5643000.0000           05/12/2016         5643.0000	*	3937 0000	3937000 0000
10/11/2016         6138.0000         6138000.0000           11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           15/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         566000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5684.0000         5684000.0000           29/11/2016         5684.0000         5684000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5643.0000	* -· · · · · -		
11/11/2016         5529.0000         5529000.0000           12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           15/11/2016         5724.0000         5724000.0000           16/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           18/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5666.0000         5666000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5684.0000         5684000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5684.0000         5684000.0000           01/12/2016         5643.0000         5643000.0000           05/12/2016         5651.0000			
12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           28/11/2016         5684.0000         5684000.0000           30/11/2016         5684.0000         5684000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           05/12/2016         5459.0000		6138.0000	6138000.0000
12/11/2016         4636.0000         4636000.0000           13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           28/11/2016         5684.0000         5684000.0000           30/11/2016         5684.0000         5684000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           05/12/2016         5459.0000	11/11/2016	5529.0000	5529000.0000
13/11/2016         5968.0000         5968000.0000           14/11/2016         5692.0000         5692000.0000           15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5686.0000         5666000.0000           25/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5684.0000         5684000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           05/12/2016         5459.0000         5459000.0000           05/12/2016         5663.0000			4636000 0000
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15/11/2016         5863.0000         5863000.0000           16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         566000.0000           24/11/2016         5587.0000         5587000.0000           25/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000			
16/11/2016         5724.0000         5724000.0000           17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5686.0000         5686000.0000           25/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5459.0000         5459000.0000           05/12/2016         5459.0000         5663000.0000	14/11/2016	5692.0000	
17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5686.0000         5666000.0000           25/11/2016         5157.0000         5157000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	15/11/2016	5863.0000	5863000.0000
17/11/2016         5324.0000         5324000.0000           18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5686.0000         5666000.0000           25/11/2016         5157.0000         5157000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	16/11/2016	5724.0000	5724000.0000
18/11/2016         6027.0000         6027000.0000           19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           30/11/2016         5869.0000         5869000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000			
19/11/2016         5511.0000         5511000.0000           20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           25/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	· · · · · · · · · · · · · · · · · · ·		• •
20/11/2016         5460.0000         5460000.0000           21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	18/11/2016	6027.0000	6027000.0000
21/11/2016         5920.0000         5920000.0000           22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	19/11/2016	5511.0000	5511000.0000
22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	20/11/2016	5460.0000	5460000.0000
22/11/2016         5517.0000         5517000.0000           23/11/2016         5610.0000         5610000.0000           24/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	21/11/2016	5920 0000	5920000 0000
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24/11/2016         5666.0000         5666000.0000           25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5651000.0000           03/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000			•
25/11/2016         5587.0000         5587000.0000           26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	23/11/2016	5610.0000	
26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	24/11/2016	5666.0000	5666000.0000
26/11/2016         5157.0000         5157000.0000           27/11/2016         5228.0000         5228000.0000           28/11/2016         5768.0000         5768000.0000           29/11/2016         5684.0000         5684000.0000           30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	25/11/2016	5587 0000	5587000.0000
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28/11/2016       5768.0000       5768000.0000         29/11/2016       5684.0000       5684000.0000         30/11/2016       5869.0000       5869000.0000         01/12/2016       6044.0000       6044000.0000         02/12/2016       5643.0000       5643000.0000         03/12/2016       5651.0000       5651000.0000         04/12/2016       5470.0000       5470000.0000         05/12/2016       5459.0000       5459000.0000         06/12/2016       5663.0000       5663000.0000			
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30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	28/11/2016	5768.0000	5768000.0000
30/11/2016         5869.0000         5869000.0000           01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000	29/11/2016	5684.0000	5684000.0000
01/12/2016         6044.0000         6044000.0000           02/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000		*	
02/12/2016         5643.0000         5643000.0000           03/12/2016         5651.0000         5651000.0000           04/12/2016         5470.0000         5470000.0000           05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000		••••	
03/12/2016       5651.0000       5651000.0000         04/12/2016       5470.0000       5470000.0000         05/12/2016       5459.0000       5459000.0000         06/12/2016       5663.0000       5663000.0000		• • • • • • • •	
04/12/2016       5470.0000       5470000.0000         05/12/2016       5459.0000       5459000.0000         06/12/2016       5663.0000       5663000.0000	02/12/2016	5643.0000	5643000.0000
04/12/2016       5470.0000       5470000.0000         05/12/2016       5459.0000       5459000.0000         06/12/2016       5663.0000       5663000.0000	03/12/2016	5651.0000	5651000.0000
05/12/2016         5459.0000         5459000.0000           06/12/2016         5663.0000         5663000.0000			
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	07/12/2016	5678.0000	5678000.0000

08/12/2016	5793.0000	5793000.0000
09/12/2016	5509.0000	5509000.0000
10/12/2016	5299.0000	5299000.0000
11/12/2016	5489.0000	5489000.0000
12/12/2016	5794.0000	5794000.0000
13/12/2016	5951.0000	5951000.0000
14/12/2016	5861.0000	5861000.0000
15/12/2016	5953.0000	5953000.0000
16/12/2016	5416.0000	5416000.0000
17/12/2016	5357.0000	5357000.0000
18/12/2016	5895.0000	5895000.0000
19/12/2016	5545.0000	5545000.0000
20/12/2016	5499.0000	5499000.0000
21/12/2016	5130.0000	5130000.0000
22/12/2016	4819.0000	4819000.0000
23/12/2016	5329.0000	5329000.0000
24/12/2016	5203.0000	5203000.0000
25/12/2016	5064.0000	5064000.0000
26/12/2016	4982.0000	4982000.0000
27/12/2016	4967.0000	4967000.0000
28/12/2016	4975.0000	4975000.0000
29/12/2016	4879.0000	4879000.0000
30/12/2016	4946.0000	4946000.0000
31/12/2016	5507.0000	5507000.0000