



PETAWAWA WATER TREATMENT FACILITY

2009 ANNUAL REPORT

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**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

Foreword

This document contains three different reports required for the Petawawa Water Treatment Facility:

- 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, SDWA, 2002- Water Taking and Transfer.

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.

SUMMARY REPORT

2009

**PETAWAWA WATER TREATMENT FACILITY
2009 SUMMARY REPORTS FOR MUNICIPALITIES**

Report

This report is a summary of water quality information for the Petawawa Water Treatment Facility, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1, 2009 to December 31, 2009. The Petawawa Water Treatment Facility is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by the Ontario Clean Water Agency on behalf of 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 **failed to meet** 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	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, s. 16-4	Monthly Turbidity Exceedance (Dec. 2008)	January 6, 2009	Made changes to filter backwash times (lowered to 60 hours from 80 hours) and made chemical adjustments as well.	Completed
SDWA 170/03, s. 16-4	Monthly Turbidity Exceedance (Feb. 2009)	March 3, 2009	Adjusted process chemicals and lowered filter backwash hours.	Completed
SDWA 170/03	Coagulant Pump Failure	April 27, 2009	Plant shut down due to interlock. Switched to backup pump and monitored facility. No adverse affect on water quality.	Completed

**PETAWAWA WATER TREATMENT FACILITY
2009 SUMMARY REPORTS FOR MUNICIPALITIES**

SDWA 170/03	Distribution Total Coliform	June 24, 2009	Re-sampled and tested June 24, 2009. Results from re-samples on July 30, 2009 showed water quality was no longer adverse. No further action required.	Completed
SDWA 170/03	Sample Pump Malfunction	July 27, 2009	Maintenance repairs to pump were completed. Turbidities stabilized after sample pump was restarted and meter stabilized. No further action required.	Completed
SDWA 170/03, s. 16-4	Monthly Turbidity Exceedance (July 2009)	August 4, 2009	Sample pump for filter #1 was off due to power outage on CFB Petawawa on July 25 th . Pump was restarted on July 27 th and the turbidities stabilized. No further action required.	Completed
SDWA 170/03	Distribution Low Free Chlorine Residual	August 31, 2009	Chlorine residual only 0.02 mg/L free Cl ₂ in system. Pump failed to run normally. Operator immediately started booster pump, and residual on analyzer went from 0.02 mg/L to 0.28 mg/L free Cl ₂ . Bench test was performed and showed 0.71 mg/L free. After running pump for 1 hour, the Cl ₂ reading was 0.85 mg/L free. Operator also ran the station throughout the following day of Sept. 1, 2009. No further action required.	Completed
SDWA 170/03	Filter Analyzer Malfunction	October 28, 2009	Filter analyzer shut down during night of October 27, 2009 and wasn't discovered until following morning. The filter was shutdown and maintenance was performed. Was put back in service on October 28 th , with a Cl ₂ reading of 1.79 mg/L. No further action required.	Completed

The Ministry of Environment 2009 inspection report noted the following:

Item #	Item	Action Taken to Address Item	Current Status (<i>Complete, In progress</i>)
The Ministry of Environment conducted their annual site visit for the 2009 reporting year on November 4 th & 5 th , 2009. The draft report has been reviewed and commented on by OCWA, but the final report has not been received yet.			

**PETAWAWA WATER TREATMENT FACILITY
2009 SUMMARY REPORTS FOR MUNICIPALITIES**

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 and daily instantaneous peak flow rates.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval.

Attached is a copy of the Annual Record of Water Taking for the Petawawa Water Treatment Facility. This document contains all required flow information.

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 31.

Personal information contained on this form is collected under the authority of the Ontario Water Resources Act, Section 20. The Purpose of the form is to record details and information about the taking of water annually. Questions should be directed to the respective hub office in your area.

Les renseignements personnels qui figurent dans le présent formulaire sont recueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. Ce formulaire sert à dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toutes questions au personnel du bureau régional de votre secteur.

Year(Année): 2009 Permit No.(N° de permis): 2136-5ZDPP5 Source: Allumette Lake (Ottawa River)
 Location: RW - Raw Water

Name of Permittee: Mailing Address:
 Nom du titulaire du permis Adresse postale

Location Of Taking: Twp. or Municipality: Concession: Lot:
 Lieu de la prise d'eau Canton ou municipalité
 Town of Petawawa

Rated Capacity(m3/day) Peak Daily Rate Of Taking(L/sec) Peak Daily Rate of Taking (L/min)
 capacité nominale Débit de pointe journalier Débit de pointe journalier
 21,500.0 248.84 14,930.4

	Jan/2009	Feb/2009	Mar/2009	Apr/2009	May/2009	Jun/2009	Jul/2009	Aug/2009	Sep/2009	Oct/2009	Nov/2009	Dec/2009	<-- Total -->	<-- Avg -->	<-- Max -->	<-- Criteria-->
Total Hours of Taking	400.0	385.9	344.98	332.0	448.0	604.2	522.0	600.0	589.0	549.0	450.0	524.0	5,749.08	479.09	604.2	
Total Amt of Taking(m3)	160,386.0	149,386.0	162,294.0	150,976.0	188,626.0	224,907.0	199,059.0	212,936.0	199,134.0	198,276.0	170,735.0	187,007.0	2,203,722.0	183,643.5	224,907.0	
Avg Daily Taking(m3)	5,173.74	5,335.21	5,235.29	5,032.53	6,084.71	7,496.9	6,421.26	6,868.9	6,637.8	6,396.0	5,691.17	6,032.48		6,033.83		21,500.0
%Rated Capacity(Avg Daily Taking)	24.06	24.81	24.35	23.41	28.3	34.87	29.87	31.95	30.87	29.75	26.47	28.06				
Max Daily Flow(m3)	5,903.0	5,880.0	5,906.0	5,503.0	8,367.0	11,201.0	7,639.0	8,668.0	7,908.0	9,427.0	7,849.0	8,860.0			11,201.0	21,500.0
%Rated Capacity(Max Daily Flow)	27.46	27.35	27.47	25.6	38.92	52.1	35.53	40.32	36.78	43.85	36.51	41.21				
Avg Daily Rate of Taking(L/sec)	59.88	61.75	60.59	58.25	70.42	86.77	74.32	79.5	76.83	74.03	65.87	69.82		69.84		
Peak Daily Rate of Taking(L/sec)	227.35	225.63	144.7	146.48	239.67	238.23	227.52	233.48	226.55	231.65	244.7	236.52			244.7	248.84
%Peak Daily Rate of Taking(L/sec)	91.36	90.67	58.15	58.87	96.31	95.74	91.43	93.83	91.04	93.09	98.34	95.05				
Peak Daily Rate of Taking(L/min)	13,641.0	13,538.0	8,682.0	8,789.0	14,380.0	14,294.0	13,651.0	14,009.0	13,593.0	13,899.0	14,682.0	14,191.0			14,682.0	14,930.4
%Peak Daily Rate of Taking(L/min)	91.36	90.67	58.15	58.87	96.31	95.74	91.43	93.83	91.04	93.09	98.34	95.05				

SECTION 11

ANNUAL REPORT 2009



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

System Information

Drinking Water System Name	Petawawa Water Treatment Plant
Drinking Water System Number	210002101
System Owner	Town of Petawawa
Operating Authority	Ontario Clean Water Agency
Drinking Water System Category	Large Municipal Residential
Reporting Period	January 1, 2009 – December 31, 2009

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 PHAS as the primary 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
PHAS	Coagulant	Kemira
Soda Ash Dense	pH Adjustment	Univar
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:

DATE	AWQI #	Cause			Corrective Action Take
		Parameter/Equipment	Result	Exceedance of	
6-Jan-09	86041	Monthly Turbidity Exceedance (Dec. 2008)	92.75% < 0.3 NTU	170/03, s. 16-4	Made changes to filter backwash times (lowered to 60 hours from 80 hours) and made chemical adjustments as well.
3-Mar-09	86901	Monthly Turbidity Exceedance (Feb. 2009)	93.35% < 0.3 NTU	170/03, s. 16-4	Adjusted process chemicals and lowered filter backwash hours.
27-Apr-09	87795	Coagulant Pump Failure	No adverse affect on water quality.	170/03	Plant shut down due to interlock. Switched to backup pump and monitored facility. No adverse affect on water quality.
24-Jun-09	88711	Distribution Total Coliform	1 cfu/100 mL	170/03	Re-sampled and tested June 24, 2009. Results from re-samples on July 30, 2009 showed water quality was no longer adverse. No further action required.
27-Jul-09	89959	Sample Pump Malfunction	NTU > 1	170/03	Sample pump for filter #1 was off due to power outage on CFB Petawawa on July 25 th . Pump was restarted on July 27 th and the turbidities stabilized. No further action required.
4-Aug-09	90204	Monthly Turbidity Exceedance (Jul. 2009)	< 0.3 NTU	170/03, s. 16-4	Sample pump for filter #1 was off due to power outage on CFB Petawawa on July 25 th . Pump was restarted on July 27 th and the turbidities stabilized. No further action required.
31-Aug-09	90934	Distribution Low Free Chlorine Residual	0.02 mg/L free Cl ₂ in system	170/03	Chlorine residual only 0.02 mg/L free Cl ₂ in system. Pump failed to run normally. Operator immediately started booster pump, and residual on analyzer went from 0.02 mg/L to 0.28 mg/L free Cl ₂ . Bench test was performed and showed 0.71 mg/L free. After running pump for 1 hour, the Cl ₂ reading was 0.85 mg/L free. Operator also ran the station throughout the following day of Sept.

					1, 2009. No further action required.
28-Oct-09	92093	Filter Analyzer Malfunction	Filter analyzer reading was zero from 15:18 PM on Oct. 27/09 to 7:45 AM on Oct. 28/09		Filter analyzer shut down during night of October 27, 2009 and wasn't discovered until following morning. The filter was shutdown and maintenance was performed. Was put back in service on October 28 th , with a Cl2 reading of 1.79 mg/L. No further action required.

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

YES

NO

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

YES

NO

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

Regulatory Sample Results Summary-

Microbiological Testing (170/03, Sch.10, Sch.11 or Sch.12):

	# 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	0-91	0	0
Treated	52	0-0	52	0-0	52	0-19
Distribution	305	0-0	305	0-1	305	0-65

Operational Testing (170/03, Sch. 7, Sch. 8 or Sch. 9):

NOTE: 8760 samples indicates an on-line analyzer

Parameter	Range of Results (min # - max #)
Filter #1 Turbidity	0 – 1.99 NTU
Filter #2 Turbidity	0 – 1.99 NTU
Filter #3 Turbidity	0 – 2.021 NTU
Treated Free Chlorine	0 – 5.11 mg/L*
Distribution Free Chlorine**	0 – 5.13 mg/L*
Fluoride	0 – 2.33 mg/L

*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	Range of Results (min # - max #)
Treated Water Free Chlorine	110	1.05 – 2.0 mg/L
Treated Water Fluoride	116	0.46 – 0.79 mg/L
Treated Water Turbidity	105	0.053 – 0.366 NTU
Treated Water Alkalinity	106	26 – 42 mg/L
Treated Water Aluminum	104	0 – 0.093 mg/L
Treated Water Colour	104	0 – 2.0 TCU
Treated Water pH	106	6.68 – 7.77
Distribution Free Chlorine	816	0.07 – 1.45 mg/L
Filter #1 Turbidity	95	0.054 – 0.598 NTU
Filter #2 Turbidity	95	0.059 – 0.38 NTU
Filter #3 Turbidity	88	0.054 – 0.423 NTU

Laboratory

Parameter	# of grab samples taken	Range of Results (min # - max #)
Treated Water Alkalinity	54	16 – 47 mg/L
Treated Water Colour	53	2 – 8 TCU
Treated Water Conductivity	53	124 – 180 uS/cm
Treated Water pH	54	6.98 – 7.91
Treated Water Total Dissolved Solids	53	81 – 117 mg/L
Treated Water Hardness	53	17 – 26 mg/L
Treated Water Fluoride	53	0.36 – 0.7 mg/L
Distribution Water Alkalinity	156	23 – 47 mg/L
Distribution Water Colour	156	2.0 – 18.0 TCU
Distribution Water Conductivity	156	126.0 – 183.0 uS/cm
Distribution Water pH	156	6.76 – 7.96
Distribution Water Total Dissolved Solids	156	82.0 – 119.0 mg/L
Distribution Water Hardness	156	14.0 – 216.0 mg/L

Summary of Additional Samples:

Reason	Date of Issuance/Complaint	Parameter	Date Sampled	Result
Certificate of Approval # 7373-7H2K93	30-Sep-08	Backwash Effluent Suspended Solids	12-Jan-09	4.0 mg/L
			6-Apr-09	2.0 mg/L
			13-Jul-09	5.0 mg/L
			14-Oct-09	3.0 mg/L*
		*annual average = 3.5 mg/L		

Summary of Inorganic Parameters Tested or Most Recent Sample Results:

MAC = Maximum Allowable Concentration as per O. Reg. 169/03

Parameter	Sample Date	Result	Unit of Measure	Exceedence of MAC	Exceedence of ½ MAC
Antimony	Jan 12/09	< 0.1	ug/L	No	No
Arsenic	Jan 12/09	< 1.0	ug/L	No	No
Barium	Jan 12/09	< 10.0	ug/L	No	No
Boron	Jan 12/09	20.0	ug/L	No	No
Cadmium	Jan 12/09	< 0.1	ug/L	No	No
Chromium	Jan 12/09	< 1.0	ug/L	No	No
Mercury	Jan 12/09	< 0.1	ug/L	No	No
Selenium	Jan 12/09	< 1.0	ug/L	No	No
Sodium	Jan 12/09	17	mg/L	No	Yes*
Uranium	Jan 12/09	2.0	ug/L	No	No
Fluoride Residual: Mean	Dec 21/09	0.51	mg/L	No	No
1 st Quarter Nitrite	Jan 12/09	< 0.1	mg/L	No	No
2 nd Quarter Nitrite	Apr 6/09	< 0.1	mg/L	No	No
3 rd Quarter Nitrite	Jul 6/09	< 0.1	mg/L	No	No
4 th Quarter Nitrite	Oct 5/09	< 0.1	mg/L	No	No
1 st Quarter Nitrate	Jan 12/09	0.24	mg/L	No	No
2 nd Quarter Nitrate	Apr 6/09	0.2	mg/L	No	No
3 rd Quarter Nitrate	Jul 6/09	< 0.1	mg/L	No	No
4 th Quarter Nitrate	Oct 5/09	0.16	mg/L	No	No

*Sodium is required to be tested every 60 months. The local Medical Officer of Health is notified when the sodium concentration exceeds 20 mg/L, so this information may be passed on to local physicians for their use with patients on sodium restricted diets. The aesthetic objective for sodium in drinking water is 200mg/L at which it can be detected by a salty taste.

Summary of Lead Sampling:

Round #3 – December 15/08 to April 15/09

Residential Samples-

# of Samples	# Adverse (>0.01)	# Exceed 1/2 MAC (0.005)	Lead Sample #1		Lead Sample #2		pH	
			Max Result	Min Result	Max Result	Min Result	Max Result	Min Result
60	0	1	0.005	< 0.001	0.003	< 0.001	7.83	7.05

Non-Residential Samples-

# of Samples	# Adverse (>0.01)	# Exceed 1/2 MAC (0.005)	Lead Sample #1		Lead Sample #2		pH	
			Max Result	Min Result	Max Result	Min Result	Max Result	Min Result
6	0	0	0.004	< 0.001	0.004	< 0.001	7.62	7.37

Distribution Samples-

# of Samples	# Adverse (>0.01)	# Exceed 1/2 MAC (0.005)	Lead Sample #1		pH		Alkalinity	
			Max Result	Min Result	Max Result	Min Result	Max Result	Min Result
12	0	0	0.002	< 0.001	7.63	7.27	34	27

Summary of Lead Sampling:

Round #4 – June 15/09 to October 15/09

Residential Samples-

# of Samples	# Adverse (>0.01)	# Exceed 1/2 MAC (0.005)	Lead Sample #1		Lead Sample #2		pH	
			Max Result	Min Result	Max Result	Min Result	Max Result	Min Result
60	0	0	0.004	< 0.001	0.002	< 0.001	7.52	6.94

Non-Residential Samples-

# of Samples	# Adverse (>0.01)	# Exceed 1/2 MAC (0.005)	Lead Sample #1		Lead Sample #2		pH	
			Max Result	Min Result	Max Result	Min Result	Max Result	Min Result
6	0	1	0.005	< 0.001	0.004	< 0.001	7.24	7.07

Distribution Samples-

# of Samples	# Adverse (>0.01)	# Exceed 1/2 MAC (0.005)	Lead Sample #1		pH		Alkalinity	
			Max Result	Min Result	Max Result	Min Result	Max Result	Min Result
12	0	0	0.003	< 0.001	7.28	7.09	40	38

Summary of Organic Parameters Tested or Most Recent Result:

MAC = Maximum Allowable Concentration as per O. Reg. 169/03

Parameter	Sample Date	Result	Unit of measure	Exceedence of MAC	Exceedence of ½ MAC
Alachlor	Jan 12, 2009	< 0.5	ug/L	No	No
Aldicarb	Jan 12, 2009	< 5.0	ug/L	No	No
Aldrin + Dieldrin	Jan 12, 2009	< 0.01	ug/L	No	No
Atrazine + N-Dealkylated metabolites	Jan 12, 2009	< 0.2	ug/L	No	No
Azinphos-methyl	Jan 12, 2009	< 2.0	ug/L	No	No
Bendiocarb	Jan 12, 2009	< 2.0	ug/L	No	No
Benzene	Jan 12, 2009	< 0.5	ug/L	No	No
Benzo(a)pyrene	Jan 12, 2009	< 0.01	ug/L	No	No
Bromoxynil	Jan 12, 2009	< 0.5	ug/L	No	No
Carbaryl	Jan 12, 2009	< 5.0	ug/L	No	No
Carbofuran	Jan 12, 2009	< 5.0	ug/L	No	No
Carbon Tetrachloride	Jan 12, 2009	< 0.5	ug/L	No	No
Chlordane (Total)	Jan 12, 2009	< 0.02	ug/L	No	No
Chlorpyrifos	Jan 12, 2009	< 1.0	ug/L	No	No
Cyanazine	Jan 12, 2009	< 1.0	ug/L	No	No
Diazinon	Jan 12, 2009	< 1.0	ug/L	No	No
Dicamba	Jan 12, 2009	< 1.0	ug/L	No	No
1,2-Dichlorobenzene	Jan 12, 2009	< 0.4	ug/L	No	No
1,4-Dichlorobenzene	Jan 12, 2009	< 0.4	ug/L	No	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jan 12, 2009	< 0.02	ug/L	No	No
1,2-Dichloroethane	Jan 12, 2009	< 0.5	ug/L	No	No
1,1-Dichloroethylene (vinylidene chloride)	Jan 12, 2009	< 0.5	ug/L	No	No
Dichloromethane	Jan 12, 2009	< 4.0	ug/L	No	No
2,4-Dichlorophenol	Jan 12, 2009	< 0.5	ug/L	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 12, 2009	< 1.0	ug/L	No	No
Diclofop-methyl	Jan 12, 2009	< 0.9	ug/L	No	No
Dimethoate	Jan 12, 2009	< 2.5	ug/L	No	No
Dinoseb	Jan 12, 2009	< 1.0	ug/L	No	No
Diquat	Jan 12, 2009	< 7.0	ug/L	No	No
Diuron	Jan 12, 2009	< 10.0	ug/L	No	No
Glyphosate	Jan 12, 2009	< 10.0	ug/L	No	No
Heptachlor + Heptachlor Epoxide	Jan 12, 2009	< 0.01	ug/L	No	No
Lindane (Total)	Jan 12, 2009	< 0.01	ug/L	No	No
Malathion	Jan 12, 2009	< 5.0	ug/L	No	No
Methoxychlor	Jan 12, 2009	< 0.02	ug/L	No	No
Metolachlor	Jan 12, 2009	< 0.5	ug/L	No	No
Metribuzin	Jan 12, 2009	< 5.0	ug/L	No	No
Monochlorobenzene	Jan 12, 2009	< 0.2	ug/L	No	No
Paraquat	Jan 12, 2009	< 1.0	ug/L	No	No
Parathion	Jan 12, 2009	< 1.0	ug/L	No	No
Pentachlorophenol	Jan 12, 2009	< 0.5	ug/L	No	No
Phorate	Jan 12, 2009	< 0.5	ug/L	No	No
Picloram	Jan 12, 2009	< 5.0	ug/L	No	No
Polychlorinated Biphenyls (PCB)	Jan 12, 2009	< 0.1	ug/L	No	No
Prometryne	Jan 12, 2009	< 0.25	ug/L	No	No
Simazine	Jan 12, 2009	< 1.0	ug/L	No	No

THM (Treated) (NOTE: show latest annual average)	2009	44.1	ug/L	No	No
THM (Distribution) (NOTE: show latest annual average)	2009	89.7	ug/L	No	No
Temephos	Jan 12, 2009	< 10.0	ug/L	No	No
Terbufos	Jan 12, 2009	< 0.4	ug/L	No	No
Tetrachloroethylene	Jan 12, 2009	< 0.3	ug/L	No	No
2,3,4,6-Tetrachlorophenol	Jan 12, 2009	< 0.5	ug/L	No	No
Triallate	Jan 12, 2009	< 1.0	ug/L	No	No
Trichloroethylene	Jan 12, 2009	< 0.3	ug/L	No	No
2,4,6-Trichlorophenol	Jan 12, 2009	< 0.5	ug/L	No	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jan 12, 2009	< 1.0	ug/L	No	No
Trifluralin	Jan 12, 2009	< 0.4	ug/L	No	No
Vinyl Chloride	Jan 12, 2009	< 0.2	ug/L	No	No

Maintenance Summary-

Summary of Expenses Incurred for Installations, Repairs or Replacements:

Brief Description
Replaced Oil and O-Rings on submersible pump.
Repair of PLC at the Township Tower.
Rebuilt check valve for HLP #3.
Replaced faulty disconnect switch for HLP #1, serviced electrical panels of remaining pump checks and torqued all connections.
Replacement of 90 Volt drive motor for soda feed system.
Purchase of replacement UPS for SCADA system.
Purchase of spare parts for annual maintenance of chlorine injection systems in the distribution system.
Purchase of Preventative Maintenance repair kits for vacuum regulators for the chlorine feed system.
Replaced filter module part for turbidity analyzer.
Changed check valve, lines, and vent in CL2 pumps at the Booster Station #2.
Replaced lines and check valve on CL2 pump at main Tower.
Changed lines and check balls on CL2 pump diaphragm.
Lines and check balls replaced on unit diaphragm pump at Chlorine Tower.
Rotameters for the WTP were completed.
Maintenance kits for laboratory analytical equipment completed.
Replacement of defective solenoid on soda ash feed system and additional ordered for stock.
Miscellaneous capital items needed for the repair and maintenance of the WTP.
Purchased new square root extractor for plant.
Installation of new flow meter in the PHAS chemical feed system.
Purchase of spare parts for annual maintenance of chemical feed pumps.
Added electrode to fluoride analyzer.
Replaced bulb in treated water turbidity analyzer.
Purchased spare CL2 analyzer for WTP.
Installed new kit and replaced colorimeter cell in chlorine analyzer at Station Tower.
Replacement of flow meter tubes for the soda silo feed system.
Replacement of colorimeter needed to repair CL17 chlorine analyzer at WTP.
Replacement parts for the track vac system at WTP.
Backwater valve purchased for the overflow pipe for the sewage pumping station in Petawawa.

Installed new maintenance kit for the free CL2 analyzer.
Installed new colorimeter assembly for the free CL2 analyzer.
New analyzer installed for the treated total CL2 analyzer.
Upgrading of SCADA computers completed at WTP.
Purchase of backflow device repair kits.
Installed maintenance kit for CL2 analyzer at Town Tower.
Replacement of heat circulating pumps for WTP.
Unit heater replacement at Township Tower.

**ANNUAL WATER TAKING AND TRANSFER
REPORT - SUBMITTED DATA TO MOE,
FOR THE YEAR OF 2009**



Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 2136-5ZDPP5

Permit Holder: THE CORPORATION OF THE TOWN OF PETAWAWA.

Received on: Feb 25, 2010 2:50 PM

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

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TOWN2 PETAWAWA2 | 2010/02/25

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Annual Water Taking and Transfer Report
For the Year 2009
Raw Flow: Sum (m3/d)

Municipality: Town of Petawawa
Facility: [5710] - Petawawa Water Treatment Plant
Works: [210002101] - Petawawa Water Treatment Plant
Classification: Class 4 Water Treatment

Year: 2009
Water Source: Allumette Lake (Ottawa River)
Total Design Capacity (m3/day): 21,500.00
Population Served: 10,500

Max. Vol.	January	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		5,098.000	5,098.000	5,098.000	5,098.000	2,098.000	5,534.000	5,306.000	5,506.000	5,141.000	5,447.000	5,447.000	5,447.000	5,903.000	5,382.000	5,382.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	5,738.000	5,478.000	5,478.000	5,478.000	5,478.000	5,206.000	5,185.000	5,185.000	4,922.000	4,922.000	4,922.000	5,363.000	5,025.000	5,025.000	5,025.000	4,971.000
Max. Vol.	February	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		4,971.000	4,971.000	4,311.000	5,500.000	5,364.000	5,280.000	5,425.000	5,425.000	5,425.000	5,396.000	5,880.000	5,593.000	5,341.000	5,591.000	5,591.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	5,591.000	5,591.000	5,146.000	5,398.000	5,652.000	5,294.000	5,294.000	5,294.000	5,294.000	5,129.000	5,129.000	5,223.000	5,287.000			
Max. Vol.	March	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		5,287.000	5,287.000	5,906.000	5,356.000	5,783.000	5,783.000	5,490.000	5,490.000	5,490.000	5,176.000	5,337.000	5,337.000	5,337.000	5,120.000	5,120.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	5,120.000	5,316.000	5,187.000	4,957.000	5,257.000	5,141.000	5,141.000	5,141.000	5,038.000	5,048.000	5,048.000	5,134.000	4,740.000	4,740.000	4,740.000	5,247.000

Annual Water Taking and Transfer Report
 For the Year 2009
 Raw Flow: Sum (m3/d)

Municipality: Town of Petawawa
 Facility: [5710] - Petawawa Water Treatment Plant
 Works: [210002101] - Petawawa Water Treatment Plant
 Classification: Class 4 Water Treatment

Year: 2009
 Water Source: Allumette Lake (Ottawa River)
 Total Design Capacity (m3/day): 21,500.00
 Population Served: 10,500

Max. Vol.	April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		4,775.000	4,991.000	5,248.000	4,805.000	4,757.000	5,048.000	4,919.000	5,301.000	4,935.000	4,721.000	4,726.000	4,773.000	4,754.000	4,879.000	5,410.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	4,916.000	5,150.000	4,779.000	4,666.000	5,503.000	5,231.000	4,889.000	5,378.000	5,218.000	5,163.000	5,281.000	5,321.000	5,163.000	4,856.000	5,420.000	
Max. Vol.	May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		5,407.000	5,288.000	4,838.000	5,690.000	5,733.000	6,466.000	6,021.000	5,863.000	5,407.000	4,968.000	5,415.000	6,424.000	6,768.000	6,082.000	5,945.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	6,090.000	5,150.000	4,671.000	6,721.000	5,892.000	6,076.000	6,965.000	7,077.000	7,557.000	8,367.000	7,831.000	7,463.000	5,830.000	5,511.000	5,915.000	5,195.000
Max. Vol.	June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		6,043.000	6,768.000	6,268.000	6,682.000	6,566.000	6,509.000	6,509.000	6,509.000	7,273.000	5,775.000	5,454.000	6,786.000	6,905.000	7,079.000	6,648.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	6,748.000	7,603.000	7,763.000	8,239.000	8,055.000	7,579.000	9,176.000	9,615.000	10,338.000	11,201.000	10,017.000	7,038.000	8,876.000	7,698.000	7,187.000	

Annual Water Taking and Transfer Report
 For the Year 2009
 Raw Flow: Sum (m3/d)

Municipality: Town of Petawawa
 Facility: [5710] - Petawawa Water Treatment Plant
 Works: [210002101] - Petawawa Water Treatment Plant
 Classification: Class 4 Water Treatment

Year: 2009
 Water Source: Allumette Lake (Ottawa River)
 Total Design Capacity (m3/day): 21,500.00
 Population Served: 10,500

Max. Vol.	July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000	6,619.000	6,093.000	6,079.000	5,268.000	5,890.000	7,639.000	6,807.000	6,654.000	6,321.000	7,210.000	6,893.000	7,078.000	6,503.000	6,276.000	6,569.000	
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	6,666.000	6,912.000	7,044.000	5,735.000	6,167.000	6,576.000	6,756.000	7,307.000	6,083.000	5,769.000	5,408.000	5,687.000	6,368.000	6,433.000	6,135.000	6,114.000
Max. Vol.	August	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000	6,329.000	6,423.000	6,293.000	5,961.000	6,411.000	6,439.000	6,546.000	6,176.000	6,632.000	5,056.000	7,732.000	7,103.000	8,250.000	8,285.000	8,668.000	
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	8,193.000	8,094.000	7,818.000	6,978.000	7,655.000	6,490.000	7,022.000	6,257.000	6,212.000	7,141.000	7,560.000	6,912.000	6,984.000	6,218.000	5,621.000	5,477.000
Max. Vol.	September	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000	7,420.000	5,295.000	7,011.000	7,265.000	5,585.000	6,543.000	6,296.000	7,696.000	7,342.000	7,908.000	7,275.000	6,117.000	7,650.000	7,487.000	7,008.000	
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	6,652.000	6,548.000	6,700.000	6,083.000	5,679.000	7,197.000	7,151.000	6,348.000	6,311.000	6,064.000	5,953.000	6,053.000	5,704.000	7,295.000	5,498.000	

Annual Water Taking and Transfer Report
For the Year 2009
Raw Flow: Sum (m3/d)

Municipality: Town of Petawawa
 Facility: [5710] - Petawawa Water Treatment Plant
 Works: [210002101] - Petawawa Water Treatment Plant
 Classification: Class 4 Water Treatment

Year: 2009
 Water Source: Allumette Lake (Ottawa River)
 Total Design Capacity (m3/day): 21,500.00
 Population Served: 10,500

Max. Vol.	October	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		6,029.000	9,427.000	5,297.000	5,410.000	5,674.000	7,384.000	6,282.000	6,023.000	6,748.000	5,620.000	5,541.000	6,203.000	6,000.000	6,138.000	5,738.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	6,387.000	7,764.000	6,357.000	7,044.000	7,358.000	6,781.000	6,674.000	6,429.000	5,992.000	6,670.000	5,755.000	6,774.000	6,482.000	6,841.000	5,400.000	6,054.000
Max. Vol.	November	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		5,798.000	6,599.000	6,327.000	6,287.000	7,849.000	3,919.000	5,035.000	4,701.000	5,251.000	4,896.000	5,228.000	5,421.000	5,045.000	5,332.000	5,040.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	5,059.000	5,162.000	6,655.000	6,116.000	6,393.000	5,507.000	5,706.000	6,290.000	6,149.000	7,241.000	5,926.000	5,230.000	5,464.000	5,498.000	5,611.000	
Max. Vol.	December	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RW - Raw Water																
21,500.000		6,159.000	6,166.000	5,682.000	6,459.000	6,190.000	5,348.000	6,377.000	6,161.000	6,080.000	5,752.000	6,148.000	5,683.000	5,356.000	5,833.000	5,904.000
Max. Vol.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water																
21,500.000	6,136.000	5,029.000	6,630.000	6,042.000	5,863.000	6,102.000	7,420.000	6,359.000	6,113.000	5,892.000	5,476.000	8,860.000	5,520.000	5,441.000	5,340.000	5,486.000