Water Quality Reports

2003

Chesterville

Includes

Annual Chemicals
Quarterly Chemicals
Weekly bactis
Chemical Aquisitions
Annual Report
Summary Reports
Performance Assessment Report
Meter Calibrations
Annual Rate of Water Taking
Adverse Water Reports



Ministry of the Ministère de

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2 Section 11. ANNUAL REPORT.

Drinking-Water System Number: Drinking-Water System Name: Drinking-Water System Owner: Drinking-Water System Category:

Period being reported:

210000728 Chesterville Township of North Dundas Large Municipal Residential January 1 to December 31, 2003

Complete if your Category is Large Municipal Residential or Small Municipal Residential Does your Drinking-Water System serve more than 10,000 people? Yes [] No [x]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No []

Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Available at the Township of North Dundas Office, 636 St. Lawrence Street, Winchester, Ontario and on their website www.northdundas.com

<u>zor ies</u>	Categ	omer	uu	<u>וטן</u>	pieie	Comp	<u> </u>

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [] No []

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []

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

None

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [] No [] N/A [x]

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

- [x] Public access/notice via the web
- [x] Public access/notice via Government Office
- [] Public access/notice via a newspaper

8	Ontario
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Ministry of the Ministère de Environment l'Environnement

Drinking-Water Systems Regulation O. Reg. 170/03

	[] Public ac	cess/notice via Public	Request						
	[] Public access/notice via a Public Library								
	[] Public access/notice via other method								
	† 1 - moure measured and contract and contract								
	Describe you	ır Drinking-Water Sys	tem						
Γ	Groundwater is pumped from the source well and Sodium Hypochlorite is added. From								
		ravels 3.7 kilometers th			V =				
		ient time for disinfection	_						
			_						
1		system, the water level			-				
1		reservoir starts. This	pump dra	iws water i	from the reservoir/c	contact tank			
	and refills th	e elevated tank.			· · · · · · · · · · · · · · · · · · ·				
	List all water	r treatment chemicals	used over	r this repor	rting period				
1	Sodium Hypo	ochlorite was used at a	n average	e dosage ra	te of 1.6 mg/L.				
İ	• •			9	8				
	[x] Insta [] Repai [] Repla	gnificant expenses incu Il required equipment ir required equipment ace required equipment	rred to?						
	Describe								
	Installation o	of chemical spill contai	nment. I	nstalled re	servoir overflow ba	ckflow			
		nstalled new chlorine f							
		stribution system. Deve							
	the water and	ti ibution system. Deve	noped ne	w wen sup	P.J.				
	Provide deta	ils on the notices subm	itted in a	ccordance	with subsection 18	(1) of the Safe			
						` '			
		ater Act or section 16-4	or sched	Tule 10 of (J.Keg.1/0/03 and re	eported to			
	Spills Action		Decella	Unit of	C				
	Incident Date	Parameter	Result	Measure	Corrective Action	Corrective			
	May 21/03	Turbidity	2.1	NTU	N/A	Action Date N/A			
	May 23/03	Turbidity	2.9	NTU	N/A	N/A N/A			
	Aug.11/03	Total Coliforms	22	Cts/100ml	Resample	Aug.12/03			
	Oct.14/03	Total Coliforms	1	Cts/100ml	Resample	Oct.17/03			
1						000.17700			

Microbiological testing done under section 8 (2) during this reporting period						
	Number	Range of E.Coli	Range of Total	Number	Range of	

N/A

N/A

Sample System

Water Main Break

Dec.11/03

Dec.11/03



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	of Samples	or Fecal Results (#-#)	Coliform Results (#-#)	of HPC Samples	HPC Results (#-#)
Raw	142	0-4	0-4	0	0-0
Treated	156	0-0	0-0	54	0-20
Distribution	401	0-0	0-22	59	0-164

Operational testing done under Schedule 7, 8 or 9 during the period covered by this

Aimuai Kepurt.		
	Number of Grab Samples	Range of Results (#-#)
Turbidity Treated Jan/03-June/03	8760	0.018-2.90 NTU
Turbidity Raw June/03-Dec/03	7	0.33-1.22 NTU
Chlorine	8760	0.3-1.90 mg/L

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is not milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order.

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure
N/A				

Summary of Inorganic parameters tested during this reporting period or most recent

Parameter	Minimum Sample Date	Maximum Sample Date	Minimum Value	Maximum Value	Unit of Measure	Exceedance
Antimony	12/9/03	12/9/03	<0.6	<0.6	ug/L	No
Arsenic	01/20/03	01/20/03	<0.001	<0.001	mg/L	No
Barium	01/20/03	01/20/03	0.12	0.12	mg/L	No
Boron	01/20/03	01/20/03	<0.05	< 0.05	mg/L	No
Cadmium	01/20/03	01/20/03	<0.0001	<0.0001	mg/L	No
Chromium	01/20/03	01/20/03	0.002	0.002	mg/L	No
Copper	01/20/03	01/20/03	0.007	0.007	mg/L	No
Iron	01/20/03	01/20/03	0.05	0.05	mg/L	No
Lead	01/20/03	01/20/03	<0.026	<0.026	mg/L	No
Mercury	01/20/03	01/20/03	<0.0001	<0.0001	mg/L	No
Selenium	01/20/03	01/20/03	<0.001	<0.001	mg/L	No
Uranium	01/20/03	01/20/03	<0.001	<0.001	mg/L	No
Fluoride	01/20/03	01/20/03	0.15	0.15	mg/L	No
Nitrite	12/9/03	05/12/03	<0.1	<0.10	mg/L	No
Nitrate	12/9/03	05/12/03	<0.001	<0.10	mg/L	No

Summary of Organic parameters sampled during this reporting period or most recent

Parameter	Minimum Sample Date	Maximum Sample Date	Minimum Value	Maximum Value	Unit of Measure	Exceedance
Alachlor	12/9/03	01/20/03	<0.11	<0.5	ug/L	No
Aldicarb	12/9/03	01/20/03	<0.3	<5	ug/L	No



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Aldrin + Dieldrin	01/20/03	12/9/03	<0.012	<0.067	ug/L	No
Atrazine + N-dealkylated	12/9/03	01/20/03	<0.12	<1.0	ug/L	No
metobolites			10.12	11.0	ug/L	No
Azinphos-methyl	12/9/03	01/20/03	<0.21	<2	ug/L	No
Bendiocarb	12/9/03	01/20/03	<0.13	<2	ug/L	No
Benzene	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Benzo(a)pyrene	12/9/03	12/9/03	< 0.004	< 0.004	ug/L	No
Bromoxynil	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Carbaryl	12/9/03	01/20/03	<0.16	<5	ug/L	No
Carbofuran	12/9/03	01/20/03	<0.37	<5	ug/L	No
Carbon Tetrachloride	01/20/03	01/20/03	<0.9	<0.9	ug/L	No
Chlordane (Total)	01/20/03	12/9/03	< 0.012	<0.11	ug/L	No
Chlorpyrifos	01/20/03	01/20/03	<0.18	<1	ug/L	No
Cyanazine	12/9/03	01/20/03	<0.18	<1	ug/L	No
Diazinon	12/9/03	01/20/03	< 0.081	<1	ug/L	No
Dicamba	01/20/03	01/20/03	<1	<1	ug/L	No
1,2-Dichlorobenzene	01/20/03	01/20/03	<0.4	<0.4	ug/L	No
1,4-Dichlorobenzene	01/20/03	01/20/03	<0.4	<0.4	ug/L	No
Dichlorodiphenyltrichloroethane	01/20/03	12/9/03	<0.024	<0.14	ug/L	No
(DDT) + metabolites			 	<u> </u>		
1,2-Dichloroethane	01/20/03	01/20/03	<0.7	<0.7	ug/L	No
1,1-Dichloroethylene	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
(vinylidene chloride) Dichloromethane	01/20/03	01/20/03	<4	<4		-
	12/9/03	01/20/03	<0.15	<0.5	ug/L	No
2-4 Dichlorophenol 2,4-Dichlorophenoxy acetic acid	12/9/03	01/20/03	<0.13	<1	ug/L	No
(2,4-D)	12/9/03	01/20/03	<0.11	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ug/L	No
Diclofop-methyl	12/9/03	01/20/03	<0.13	<0.9	ug/L	No
Dimethoate	12/9/03	01/20/03	<0.12	<2.5	ug/L	No
Dinoseb	12/9/03	01/20/03	<0.084	<1	ug/L	No
Diquat	12/9/03	01/20/03	<1	<7	ug/L	No
Diuron	12/9/03	01/20/03	<0.087	<10	ug/L	No
Glyphosate	12/9/03	01/20/03	<6	<10	ug/L	No
Heptachlor + Heptachlor	01/20/03	12/9/03	<0.012	<0.11	ug/L	No
Epoxide	<u> </u>		<u> </u>	 		
Lindane (Total)	01/20/03	12/9/03	<0.006	<0.056	ug/L	No
Malathion	12/9/03	01/20/03	<0.091	<5	ug/L	No
Methoxychlor	01/20/03	12/9/03	<0.024	<0.14	ug/L	No
Metolachlor	12/9/03	01/20/03	<0.092	<0.5	ug/L	No
Metribuzin	12/9/03	01/20/03	<0.12	<5	ug/L	No
Monochlorobenzene	01/20/03	01/20/03	<0.2	<0.2	ug/L	No
Paraquat	12/9/03	01/20/03	<1	<1	ug/L	No
Parathion	12/9/03	01/20/03	<0.18	<1	ug/L	No
Pentachlorophenol	12/9/03	01/20/03	<0.15	<0.5	ug/L	No
Phorate	12/9/03	01/20/03	<0.11	<0.5	ug/L	No
Picloram	12/9/03	01/20/03	<0.2	<5	ug/L	No
Polychlorinated Biphenyls(PCB)	12/9/03	01/20/03	<0.04	<0.05	ug/L	No
Promethyne	12/9/03	01/20/03	<0.23	<0.25	ug/L	No
Simazine	12/9/03	01/20/03	<0.15	<1	ug/L	No
THM (NOTE: show latest quarterly average)	01/20/03	12/9/03	14.5	14.5	ug/L	No
Temephos	12/9/03	01/20/03	<0.31	<10	ug/L	No
Terbufos	01/20/03	01/20/03	<0.12	<0.7	ug/L	No



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Tetrachloroethylene	01/20/03	01/20/03	<0.3	<0.3	ug/L	No
2,3,4,6-Tetrachlorophenol	12/9/03	01/20/03	<0.14	<0.5	ug/L	No
Triallate	12/9/03	01/20/03	<0.10	<1	ug/L	No
Trichloroethylene	01/20/03	01/20/03	<0.3	<0.3	ug/L	No
2,4,6-Trichlorophenol	12/9/03	01/20/03	<0.25	<0.5	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	12/9/03	01/20/03	<0.14	<1	ug/L	No
Trifluralin	12/9/03	01/20/03	<0.12	<1	ug/L	No
Vinyl Chloride	01/20/03	01/20/03	<0.5	<0.5	ug/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
N/A			

(Only if category is large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential)

SUMMARY REPORTS FOR MUNICIPALITIES

Report

This report is a summary of water quality information for the Chesterville WTF, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1, 2003 to December 31, 2003. The Chesterville WTF is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by The Ontario Clean Water Agency on behalf of The Township of North Dundas.

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;
- in the case of a drinking-water system owned by a municipal service board established under section 195 of the Municipal Act, 2001, the members of the municipal service board; or
- in the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

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)
Safe Drinking Water Act	NA			
Ontario Regulations (eg. O.Reg 170/03, O.Reg 435/93, O.Reg 903)	NA			
System Certificate of Approval #7683-5QEPS6	Monitoring and recording 5.1 (i), (ii) and 5.2 (i)The daily maximum flow rate and maximum daily volume of water conveyed into the treatment system. (ii)The daily maximum flow rate and maximum daily volume of water conveyed from the treatment system to the distribution system. 5.2 Records shall be maintained that set out the parameters recorded in	January 1, 2003 to June 26, 2003	(i)SCADA system software was upgraded to record the daily maximum flow rate and maximum daily volume of water conveyed into the treatment system. (ii) SCADA system software was upgraded to record the daily maximum flow rate and maximum daily volume of water conveyed to the distribution system 5.2 Records shall be maintained to record the amount, date, time and duration of any exceedences.	Complete

	accordance with condition 5.1, and where the parameters measured exceed the daily peak flow rate and daily maximum volume set out in Part 1, the amount, date, time and duration of the exceedence shall also be recorded.		
Provincial Officer's Order No.	NA		

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. A 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 please find a copy of the 2003 Performance Assessment Report and 2003 Annual Record of Water Taking for the Chesterville WTF, which 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.

ONTARIO CLEAN WATER AGENCY WATER PLANT PERFORMANCE ASSESSMENT REPORT

MUNICIPALITY:

CHESTERVILLE

PROJECT:

CHESTERVILLE WATER SUPPLY

PROJ. NUM.:

6-0046-59-00

YEAR:

2003

WATER SOURCE: DESIGN CAPACITY

GROUNDWATER 2.781 X 1000 M3/d

WORKS NUM.:

210000728

DESCRIPTION:

A TWO WELL PUMPING SYSTEM WITH A 655m3 RESERVOIR AND FOUR HIGH LIFT PUMPS.

DISINFECTION IS WITH SODIUM HYPOCHLORITE.

MONTH	SYSTEM	I FLOWS (T	REATED)	TRE	ATED	DISTR	IBUTION	В	ACTI (E	.coli.,T.Co	li.,HPC)	RAW	/ WATER
	TOTAL	AVG DAY	MAX DAY	MIN FREE	MAX FREE	MIN FREE	MAX FREE	S	AFE	ADV	ERSE		
	FLOW	FLOW	FLOW	CL2 RESID.	CL2 RESID.	CL2 RESID	CL2 RESID.						E.COLI
	1000 m3	1000 m3	1000 m3	(mg/l)	(mg/l)	(mg/l)	(mg/l)	TREAT	DIST	TREAT	DIST	TAKEN	DETECTED
JAN	16.664	0.538	0.570	0.96	1.24	0.90	1.10	12	28	0	0	5	0
FEB	15.129	0.540	0.589	0.74	1.10	0.72	1.40	12	28	0	0	8	0
MAR	17.171	0.554	0.650	0.90	1.25	0.70	1.24	15	35	0	0	10	1
APR	16.374	0.546	0.600	1.00	1.31	0.90	1.50	12	28	0	0	8	0
MAY	18.547	0.598	0.991	1.02	1.93	0.70	1.30	12	28	0	0	8	0
JUN	19.117	0.637	0.776	0.80	1.30	0.30	1.48	15	35	0	0	7	0
JUL	19.830	0.640	0.852	0.90	1.60	0.32	1.90	12	28	0	0	4	0
AUG	19.284	0.622	0.835	0.80	1.50	0.52	1.40	12	41	0	1	4	0
SEP	18.224	0.607	1.283	0.90	1.35	0.43	1.40	15	35	0	0	5	0
OCT	17.523	0.565	0.660	0.74	1.30	0.32	1.29	12	34	0	1	4	0
NOV	16.963	0.565	0.660	0.70	1.20	0.37	1.35	12	28	0	0	4	0
DEC	20.242	0.653	1.529	0.65	1.34	0.22	1.42	15	47	0	0	5	0
TOTAL	215.1							156	395	0	2	72	1
AVG		0.589			1.37								
MAX			1.529				1.90	<u></u>					
CRITERIA				0.20		0.05	4.00						

COMMENTS:	

Ministry Of The Environment Ministère de l'Environnement

Annual Record Of Ground Water Taking Registre annuel de prélèvement d'eau souterraine

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

es renseignements personnes qui figurent dans le présent formulaire sont resueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. La présente sert à consigner aux dossiers les détails et les renseignements concernant la prise d'eau annuelle. Priére d'adresser toute Question au bureau régional du ministère de l'Environnement le Plus proche.

Permit No.(N° de permis): 89-P-4052 Year(Année):

Location: RW5 - CHESTERVILLE WELL # 5 (PRODUCTION)

Source: Groundwater

Name of Permittee: VILLAGE OF CHESTERVILLE

Nom du titulaire du permis

Mailing Address: O.C.W.A. 5 INDUSTRIAL DRIVE CHESTERVILLE

Adresse postale

Location Of Taking: Lieu de la prise d'eau		Twp. or Municipality: Canton ou municipalité		Concession:	Lot:	
		NORTH DUNDAS		CON. 5	LOT 12	
	Total	Avg.	Total	Peak	< Max.	>
	Hours Of Taking	Daily Rate Of Taking	Amount Of Taking	Daily Flow	Daily Rate of	Taking
Date Of Taking	(Hour)	(L/sec)	(m³)	(m³/day)	(L/sec)	(L/min)
Date de la prise d'eau	Heure	Débit de prise d'eau	Volume des prises	Prélèvement maximum journalier	Debit de pointe j	oumalier
JAN	294.50	15.55	16,479	559		
FEB	268.40	15.50	14,974	582		
MAR	292.90	16.28	16,938	627		
APR	294.30	15.53	16,453	616		
MAY	343.10	14.81	18,209	929		
JUN	357.50	13.67	17,593	705		
1	376.89	13.52	19,011	783		
G	414.60	12.93	19,207	819	14	
SEP	427.90	12.83	19,167	1,064	14	
ост	377.60	12.51	16,918	682	16	
NOV	339.80	13.84	16,879	643	14	
DEC	407.73	13.62	19,658	1,033	18	
Total:			211,486			
Criteria:		18.00		2,000	20	

I certify that the above information is true, complete and accurate.

Signature

Date

J'atteste que les renseignements ci-dessus sont vrais, complets et exacts.



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2038 FAX: 705-652-6441

OCWA-Chesterville (Chesterville WTP)

Attn: Dave Markell kbaker@ocwa.com; bhenderson@ocwa.com; dmarkell@ocwa.com

5 Industrial Drive, P.O. Box 460 Chesterville, ON, K0C 1H0

Phone: 613-448-3098

Fax:pdf

Tuesday, December 23, 2003

210000728

P.O. No. 008503

Date Rec. :

Works #:

Project:

10 December 2003

LR Report:

CA6481-DEC03

Copy:

#1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
•	*Approved Date	*Approved Time	MAC	Half MAC	AO/OG	RDL	MDL	TDW Chesterville Treated	TDW Chesterville System SPS
Sample Date & Time						***************************************		09-Dec-03 11:00	09-Dec-03 09:00
Temperature [°C]								7.5	7.5
Nitrite (as nitrogen) [mg/L]	15-Dec-03	13:50	1.0	0.5		0.1	0.011	0.011 <mdl< td=""><td></td></mdl<>	
Nitrate (as nitrogen) [mg/L]	15-Dec-03	13:50	10.0	5		1	0.021	0.021 <mdl< td=""><td></td></mdl<>	
Nitrate + Nitrite (as nitrogen) [mg/L]	15-Dec-03	13:50	10	5		1	0.021	0.021 <mdl< td=""><td></td></mdl<>	
Antimony [ug/L]	18-Dec-03	08:18	6	3			0.6	0.6 <mdl< td=""><td></td></mdl<>	
Trihalomethanes (total) [ug/L]	23-Dec-03	09:23	100	50		10	0.63		25
Bromoform [ug/L]	23-Dec-03	09:23					0.56		0.56 <mdl< td=""></mdl<>
Bromodichloromethane [ug/L]	23-Dec-03	09:23					0.63		5.9
Chloroform [ug/L]	23-Dec-03	09:23					0.60		17
Dibromochloromethane [ug/L]	23-Dec-03	09:23					0.37		2.3
Diquat [ug/L]	22-Dec-03	08:45	70	35		7	1	1 <mdl< td=""><td></td></mdl<>	
Paraquat [ug/L]	22-Dec-03	08:45	10	5		1	1	1 <mdl< td=""><td></td></mdl<>	
Glyphosate [ug/L]	22-Dec-03	08:45	280	140		28	6	6 <mdl< td=""><td></td></mdl<>	
Polychlorinated Biphenyls (PCBs) [ug/L]	22-Dec-03	13:32	3	1.5		0.3	0.04	0. 04 <mdl< td=""><td></td></mdl<>	
Benzo(a)pyrene [ug/L]	22-Dec-03	14:20	0.01	0.005		0.01	0.004	0.004 <mdl< td=""><td></td></mdl<>	
2,4-dichlorophenol [ug/L]	22-Dec-03	14:20	900	450	0.3	90	0.15	0.15 <mdl< td=""><td></td></mdl<>	
2,4,6-trichlorophenol [ug/L]	22-Dec-03	14:20	5	2.5	2	0.5	0.25	0.25 <mdl< td=""><td></td></mdl<>	
2,3,4,6-tetrachlorophenol [ug/L]	22-Dec-03	14:20	100	50	1	10	0.14	0.14 <mdl< td=""><td></td></mdl<>	
Pentachlorophenol [ug/L]	22-Dec-03	14:20	60	30	30	6	0.15	0.15 <mdl< td=""><td></td></mdl<>	
Alachlor [ug/L]	22-Dec-03	13:21	5	2.5		0.5	0.11	0.11 <mdl< td=""><td></td></mdl<>	



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2038 FAX: 705-652-6441

Works #: Project : 210000728 P.O. No. 008503

LR Report :

CA6481-DEC03



Analysis	1: *Approved Date	2: *Approved Time	3: MAC	4: Half MAC	5: AO/OG	6: RDL	7: MDL	8: TDW Chesterville Treated	9: TDW Chesterville System SPS
Aldicarb [ug/L]	22-Dec-03	13:21	9	4.5		9	0.30	0.30 <mdl< td=""><td></td></mdl<>	
Aldrin + Dieldrin [ug/L]	22-Dec-03	13:21	0.7	0.35		0.07	0.067	0.067 <mdl< td=""><td></td></mdl<>	
Aldrin [ug/L]	22-Dec-03	13:21					0.060	0.060 <mdl< td=""><td></td></mdl<>	
Dieldrin [ug/L]	22-Dec-03	13:21					0.067	0.067 <mdl< td=""><td></td></mdl<>	
Atrazine + N-dealkylated metabolites [ug/L]	22-Dec-03	13:21	5	2.5		1	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Atrazine [ug/L]	22-Dec-03	13:21					0.11	0.11 <mdl< td=""><td></td></mdl<>	
De-ethylated atrazine [ug/L]	22-Dec-03	13:21					0.12	0.12 <mdl< td=""><td></td></mdl<>	
Azinphos-methyl [ug/L]	22-Dec-03	13:21	20	10		2	0.21	0.21 <mdl< td=""><td></td></mdl<>	
Bendiocarb [ug/L]	22-Dec-03	13:21	40	20		7.5	0.13	0.13 <mdl< td=""><td></td></mdl<>	
Carbaryl [ug/L]	22-Dec-03	13:21	90	45		9	0.16	0.16 <mdl< td=""><td></td></mdl<>	
Carbofuran [ug/L]	22-Dec-03	13:21	90	45		12.5	0.37	0.37 <mdl< td=""><td></td></mdl<>	
Chlordane (Total) [ug/L]	22-Dec-03	13:21	7	3.5		0.7	0.11	0.11 <mdl< td=""><td></td></mdl<>	
a-chlordane [ug/L]	22-Dec-03	13:21					0.069	0.069 <mdl< td=""><td></td></mdl<>	
g-chlordane [ug/L]	22-Dec-03	13:21					0.063	0.063 <mdl< td=""><td></td></mdl<>	
Oxychiordane [ug/L]	22-Dec-03	13:21					0.11	0.11 <mdl< td=""><td></td></mdl<>	
Chlorpyrifos [ug/L]	22-Dec-03	13:21	90	45		9	0.18	0.18 <mdl< td=""><td></td></mdl<>	
Cyanazine [ug/L]	22-Dec-03	13:21	10	5		1	0.18	0.18 <mdl< td=""><td></td></mdl<>	
Diazinon [ug/L]	22-Dec-03	13:21	20	10		2	0.081	0.081 <mdl< td=""><td></td></mdl<>	
(DDT) + Metabolites [ug/L]	22-Dec-03	13:21	30	15		3	0.14	0.14 <mdl< td=""><td></td></mdl<>	
op-DDT [ug/L]	22-Dec-03	13:21					0.095	0.095 <mdl< td=""><td></td></mdl<>	
pp-DDD [ug/L]	22-Dec-03	13:21					0.098	0.098 <mdl< td=""><td></td></mdl<>	
pp-DDE [ug/L]	22-Dec-03	13:21					0.075	0.075 <mdl< td=""><td></td></mdl<>	
pp-DDT [ug/L]	22-Dec-03	13:21					0.14	0.14 <mdl< td=""><td></td></mdl<>	
Dimethoate [ug/L]	22-Dec-03	13:21	20	10		2.5	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Diuron [ug/L]	22-Dec-03	13:21	15	7.5		1	0.087	0.087 <mdl< td=""><td></td></mdl<>	
Heptachlor + Heptachlor Epoxide [ug/L]	22-Dec-03	13:21	3	1.5		0.3	0.11	0.11 <mdl< td=""><td></td></mdl<>	
Heptachlor [ug/L]	22-Dec-03	13:21					0.061	0.061 <mdl< td=""><td></td></mdl<>	
Heptachlor epoxide [ug/L]	22-Dec-03	13:21					0.11	0.11 <mdl< td=""><td></td></mdl<>	
Lindane [ug/L]	22-Dec-03	13:21	4	2		0.4	0.056	0.056 <mdl< td=""><td></td></mdl<>	
Malathion [ug/L]	22-Dec-03	13:21	190	95		19	0.091	0.091 <mdl< td=""><td></td></mdl<>	
Methoxychlor [ug/L]	22-Dec-03	13:21	900	450		90	0.14	0.14 <mdl< td=""><td></td></mdl<>	
Metolachior [ug/L]	22-Dec-03	13:21	50	25		5	0.092	0.092 <mdl< td=""><td></td></mdl<>	
Metribuzin [ug/L]	22-Dec-03	13:21	80	40		8	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Parathion [ug/L]	22-Dec-03	13:21	50	25		5	0.18	0.18 <mdl< td=""><td></td></mdl<>	



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2038 FAX: 705-652-6441

Works #:

210000728

Project:

P.O. No. 008503

LR Report :

CA6481-DEC03

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	*Approved Date	*Approved Time	MAC	Half MAC	AO/OG	RDL	MDL	TDW Chesterville Treated	TDW Chesterville System SPS
Phorate [ug/L]	22-Dec-03	13:21	2	1		0.5	0.11	0.11 <mdl< td=""><td></td></mdl<>	
Prometryne [ug/L]	22-Dec-03	13:21	1	0.5		0.25	0.23	0.23 <mdl< td=""><td></td></mdl<>	
Simazine [ug/L]	22-Dec-03	13:21	10	5		1	0.15	0.15 <mdl< td=""><td></td></mdl<>	
Temephos [ug/L]	22-Dec-03	13:21	280	140		28	0.31	0.31 <mdl< td=""><td></td></mdl<>	
Terbufos [ug/L]	22-Dec-03	13:21	1	0.5		1	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Triallate [ug/L]	22-Dec-03	13:21	230	115		23	0.10	0.10 <mdl< td=""><td></td></mdl<>	
Trifluralin [ug/L]	22-Dec-03	13:21	45	22.5		4.5	0.12	0.12 <mdl< td=""><td></td></mdl<>	
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	22-Dec-03	15:56	100	50		10	0.11	0.11 <mdl< td=""><td></td></mdl<>	
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	22-Dec-03	15:56	280	140		28	0.14	0.14 <mdl< td=""><td></td></mdl<>	
Bromoxynil [ug/L]	22-Dec-03	15:56	5	2.5		0.5	0.094	0.094 <mdl< td=""><td></td></mdl<>	
Dicamba [ug/L]	22-Dec-03	15:56	120	60		12	0.17	0.17 <mdl< td=""><td></td></mdl<>	
Diclofop-methyl [ug/L]	22-Dec-03	15:56	9	4.5		0.9	0.13	0.13 <mdl< td=""><td></td></mdl<>	
Dinoseb [ug/L]	22-Dec-03	15:56	10	5		1	0.084	0.084 <mdl< td=""><td></td></mdl<>	
Picloram [ug/L]	22-Dec-03	15:56	190	95		19	0.20	0.20 <mdl< td=""><td></td></mdl<>	

SDWA - Safe Drinking Water Act
MAC - Maximum Acceptable Concentration (SDWA)
Half MAC - Half of the Maximum Acceptable Concentration (SDWA)
AO/OG - Aesthetic Objective / Operational Guideline (SDWA)
RDL - MOE Required Reporting Detection Limit
MDL - SGS Method Detection Limit

Carrie Greenlaw

Project Coordinator

Environmental Services, Analytical



SGS Lakefield Research Limited

P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2038 FAX: 705-652-6441

OCWA-Chesterville (Chesterville WTP)

Attn: Dave Markell kbaker@ocwa.com; bhenderson@ocwa.com; dmarkell@ocwa.com

5 Industrial Drive, P.O. Box 460 Chesterville, ON, K0C 1H0

Phone: 613-448-3098

Fax:pdf

Works #: 210000728

Project : P.O. No. 008503

Tuesday, December 23, 2003

Date Rec. :

10 December 2003

LR Report:

CA6481-DEC03

Copy:

#1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: *Approved Date	2: *Approved Time	3: MAC	4: Half MAC	5: AO/OG	6: RDL	7: MDL	8: TDW Chesterville Treated	9: TDW Chesterville System SPS
Sample Date & Time								09-Dec-03 11:00	09-Dec-03 09:00
Temperature [°C]								7.5	7.5
Nitrite (as nitrogen) [mg/L]	15-Dec-03	13:50	1.0	0.5		0.1	0.011	0.011 <mdl< td=""><td></td></mdl<>	
Nitrate (as nitrogen) [mg/L]	15-Dec-03	13:50	10.0	5		1	0.021	0.021 <mdl< td=""><td></td></mdl<>	
Nitrate + Nitrite (as nitrogen) [mg/L]	15-Dec-03	13:50	10	5		1	0.021	0.021 <mdl< td=""><td></td></mdl<>	
Antimony [ug/L]	18-Dec-03	08:18	6	3			0.6	0.6 <mdl< td=""><td></td></mdl<>	
Trihalomethanes (total) [ug/L]	23-Dec-03	09:23	100	50		10	0.63		25
Bromoform [ug/L]	23-Dec-03	09:23					0.56		0.56 <mdl< td=""></mdl<>
Bromodichloromethane [ug/L]	23-Dec-03	09:23					0.63		5.9
Chloroform [ug/L]	23-Dec-03	09:23					0.60		17
Dibromochloromethane [ug/L]	23-Dec-03	09:23					0.37		2.3
Diquat [ug/L]	22-Dec-03	08:45	70	35		7	1	1 <mdl< td=""><td></td></mdl<>	
Paraquat [ug/L]	22-Dec-03	08:45	10	5		1	1	1 <mdl< td=""><td></td></mdl<>	
Glyphosate [ug/L]	22-Dec-03	08:45	280	140		28	6	6 <mdl< td=""><td></td></mdl<>	
Polychlorinated Biphenyls (PCBs) [ug/L]	22-Dec-03	13:32	3	1.5		0.3	0.04	0.04 <mdl< td=""><td></td></mdl<>	
Benzo(a)pyrene [ug/L]	22-Dec-03	14:20	0.01	0.005		0.01	0.004	0.004 <mdl< td=""><td></td></mdl<>	
2,4-dichlorophenol [ug/L]	22-Dec-03	14:20	900	450	0.3	90	0.15	0.15 <mdl< td=""><td></td></mdl<>	
2,4,6-trichlorophenol [ug/L]	22-Dec-03	14:20	5	2.5	2	0.5	0.25	0.25 <mdl< td=""><td></td></mdl<>	
2,3,4,6-tetrachlorophenol [ug/L]	22-Dec-03	14:20	100	50	1	10	0.14	0.14 <mdl< td=""><td></td></mdl<>	
Pentachlorophenol [ug/L]	22-Dec-03	14:20	60	30	30	6	0.15	0.15 <mdl< td=""><td></td></mdl<>	
Alachlor [ug/L]	22-Dec-03	13:21	5	2.5		0.5	0.11	0.11 <mdl< td=""><td>***</td></mdl<>	***



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Lakefield - Ontario - KOL 2HO

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CA6481-DEC03

Analysis	1:	2:	3:	4:	5:	6:	7:		9:
	*Approved Date	*Approved Time	MAC	Half MAC	AO/OG	RDL	MDL	TDW Chesterville Treated	TDW Chesterville System SPS
Aldiand Call	00.0	40.04						0.00 1451	
Aldicarb [ug/L]	22-Dec-03	13:21	9	4.5		9	0.30	0.30 <mdl< td=""><td>***</td></mdl<>	***
Aldrin + Dieldrin [ug/L]	22-Dec-03	13:21	0.7	0.35		0.07	0.067	0.067 <mdl< td=""><td></td></mdl<>	
Aldrin [ug/L]	22-Dec-03	13:21					0.060	0.060 <mdl< td=""><td></td></mdl<>	
Dieldrin [ug/L]	22-Dec-03	13:21					0.067	0.067 <mdl< td=""><td></td></mdl<>	
Atrazine + N-dealkylated metabolites [ug/L]	22-Dec-03	13:21	5	2.5		1	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Atrazine [ug/L]	22-Dec-03	13:21					0.11	0.11 <mdl< td=""><td></td></mdl<>	
De-ethylated atrazine [ug/L]	22-Dec-03	13:21					0.12	0.12 <mdl< td=""><td></td></mdl<>	
Azinphos-methyl [ug/L]	22-Dec-03	13:21	20	10		2	0.21	0.21 <mdl< td=""><td></td></mdl<>	
Bendiocarb [ug/L]	22-Dec-03	13:21	40	20		7.5	0.13	0.13 <mdl< td=""><td></td></mdl<>	
Carbaryl [ug/L]	22-Dec-03	13:21	90	45		9	0.16	0.16 <mdl< td=""><td></td></mdl<>	
Carbofuran [ug/L]	22-Dec-03	13:21	90	45		12.5	0.37	0.37 <mdl< td=""><td></td></mdl<>	
Chlordane (Total) [ug/L]	22-Dec-03	13:21	7	3.5		0.7	0.11	0.11 <mdl< td=""><td></td></mdl<>	
a-chlordane [ug/L]	22-Dec-03	13:21					0.069	0.069 <mdl< td=""><td></td></mdl<>	
g-chlordane [ug/L]	22-Dec-03	13:21					0.063	0.063 <mdl< td=""><td></td></mdl<>	
Oxychlordane [ug/L]	22-Dec-03	13:21					0.11	0.11 <mdl< td=""><td></td></mdl<>	
Chlorpyrifos [ug/L]	22-Dec-03	13:21	90	45		9	0.18	0.18 <mdl< td=""><td></td></mdl<>	
Cyanazine [ug/L]	22-Dec-03	13:21	10	5		1	0.18	0.18 <mdl< td=""><td></td></mdl<>	
Diazinon [ug/L]	22-Dec-03	13:21	20	10		2	0.081	0.081 <mdl< td=""><td></td></mdl<>	
(DDT) + Metabolites [ug/L]	22-Dec-03	13:21	30	15		3	0.14	0.14 <mdl< td=""><td></td></mdl<>	
op-DDT [ug/L]	22-Dec-03	13:21					0.095	0.095 <mdl< td=""><td></td></mdl<>	
pp-DDD [ug/L]	22-Dec-03	13:21					0.098	0.098 <mdl< td=""><td></td></mdl<>	
pp-DDE [ug/L]	22-Dec-03	13:21					0.075	0.075 <mdl< td=""><td></td></mdl<>	
pp-DDT [ug/L]	22-Dec-03	13:21					0.14	0.14 <mdl< td=""><td></td></mdl<>	
Dimethoate [ug/L]	22-Dec-03	13:21	20	10		2.5	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Diuron [ug/L]	22-Dec-03	13:21	15	7.5		1	0.087	0.087 <mdl< td=""><td></td></mdl<>	
Heptachlor + Heptachlor Epoxide [ug/L]	22-Dec-03	13:21	3	1.5		0.3	0.11	0.11 <mdl< td=""><td></td></mdl<>	
Heptachlor [ug/L]	22-Dec-03	13:21					0.061	0.061 <mdl< td=""><td>***</td></mdl<>	***
Heptachlor epoxide [ug/L]	22-Dec-03	13:21					0.11	0.11 <mdl< td=""><td></td></mdl<>	
Lindane [ug/L]	22-Dec-03	13:21	4	2		0.4	0.056	0.056 <mdl< td=""><td></td></mdl<>	
Malathion [ug/L]	22-Dec-03	13:21	190	95		19	0.091	0.091 <mdl< td=""><td></td></mdl<>	
Methoxychlor [ug/L]	22-Dec-03	13:21	900	450		90	0.14	0.14 <mdl< td=""><td></td></mdl<>	
Metolachlor [ug/L]	22-Dec-03	13:21	50	25		5	0.092	0.092 <mdl< td=""><td></td></mdl<>	
Metribuzin [ug/L]	22-Dec-03	13:21	80	40		8	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Parathion [ug/L]	22-Dec-03	13:21	50	25		5	0.18	0.18 <mdl< td=""><td></td></mdl<>	



Lakefield - Ontario - KOL 2HO

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LR Report :

CA6481-DEC03

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	*Approved	*Approved	MAC	Half MAC	AO/OG	RDL	MDL	TDW Chesterville	TDW Chesterville
	Date	Time						Treated	System SPS
Phorate [ug/L]	22-Dec-03	13:21	2	1		0.5	0.11	0.11 <mdl< td=""><td></td></mdl<>	
Prometryne [ug/L]	22-Dec-03	13:21	1	0.5		0.25	0.23	0.23 <mdl< td=""><td></td></mdl<>	
Simazine [ug/L]	22-Dec-03	13:21	10	5		1	0.15	0.15 <mdl< td=""><td></td></mdl<>	
Temephos [ug/L]	22-Dec-03	13:21	280	140		28	0.31	0.31 <mdl< td=""><td></td></mdl<>	
Terbufos [ug/L]	22-Dec-03	13:21	1	0.5		1	0.12	0.12 <mdl< td=""><td></td></mdl<>	
Triallate [ug/L]	22-Dec-03	13:21	230	115		23	0.10	0.10 <mdl< td=""><td></td></mdl<>	
Trifluralin [ug/L]	22-Dec-03	13:21	45	22.5		4.5	0.12	0.12 <mdl< td=""><td></td></mdl<>	
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	22-Dec-03	15:56	100	50		10	0.11	0.11 <mdl< td=""><td></td></mdl<>	
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	22-Dec-03	15:56	280	140		28	0.14	0.14 <mdl< td=""><td></td></mdl<>	
Bromoxynil [ug/L]	22-Dec-03	15:56	5	2.5		0.5	0.094	0.094 <mdl< td=""><td></td></mdl<>	
Dicamba [ug/L]	22-Dec-03	15:56	120	60		12	0.17	0.17 <mdl< td=""><td></td></mdl<>	
Diclofop-methyl [ug/L]	22-Dec-03	15:56	9	4.5		0.9	0.13	0.13 <mdl< td=""><td></td></mdl<>	
Dinoseb [ug/L]	22-Dec-03	15:56	10	5		1	0.084	0.084 <mdl< td=""><td></td></mdl<>	
Picloram [ug/L]	22-Dec-03	15:56	190	95		19	0.20	0.20 <mdl< td=""><td></td></mdl<>	

SDWA - Safe Drinking Water Act
MAC - Maximum Acceptable Concentration (SDWA)
Half MAC - Half of the Maximum Acceptable Concentration (SDWA)
AO/OG - Aesthetic Objective / Operational Guideline (SDWA)
RDL - MOE Required Reporting Detection Limit
MDL - SGS Method Detection Limit

Carrie Greenlaw Project Coordinator Environmental Services, Analytical

REPORT OF ANALYSIS

Client: CHESTERVILLE WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2300816

Date:

2003-02-06

Date Submitted:

2003-01-21

Project:

Chesterville Wells Quarterly

Chemicals

				Sample Matri	x:	Supply Water	
		LAB ID:	229212				
	Sam	ple Date:	2003-01-20				
	Sa	mple ID:	CW-01				
PARAMETER	UNITS	MDL			· · · · · · · · · · · · · · · · · · ·		
PESTICIDES & PCB's	UNITS	WIDE					<u> </u>
Alachlor	ug/L	0.5	√ <0.5				
Aldicarb	ug/L	5	√ <5				
Aldrin	ug/L	0.006	· <0.006		,		ļ
Aldrin + Dieldrin	ug/L	0.000	√<0.012	ł			
Atrazine	ug/L	0.012	√ <0.5	l		ļ	
Desethyl-atrazine	ug/L	0.5	<0.5				
Atrazine+Desethyl-atrazine	ug/L	1	<1				
Azinphos-methyl	ug/L ug/L	2	√ <2				
Rendiocarb	ug/L	2	√ <2				
omoxynil	ug/L	0.5	~<0.5				
Carbaryl	ug/L	5	√ <5				
Carbofuran	ug/L	5	√ <5				
Chlordane (Total)	ug/L	0.012	<0.012				
a-Chlorodane	ug/L	0.006	<0.006				
g-Chlorodane	ug/L	0.006	<0.006				
Oxychlorodane	ug/L	0.006	<0.006				
Chloropyrifos	ug/L	1	√ <1				
Cyanazine	ug/L	1	√ <1				
Diazinon	ug/L	1	V <1				
Dicamba	ug/L	1	∨ <1				
Dieldrin	ug/L	0.006	<0.006				
Diquat	ug/L	7	√ <7				
2,4-Dichlorophenol	ug/L	0.5	√ <0.5				
DDT + Metabolites	ug/L	0.024	√ <0.024				
o,p'-DDT	ug/L	0.006	< 0.006				
p,p'-DDT	ug/L	0.006	<0.006				
2,4-D	ug/L	1	∨ <1				
p,p'-DDE	ug/L	0.006	<0.006				
NOTE: mail (nam)=1000;;;;							

NOTE: mg/L (ppm)=1000xug/L (ppb)

MDL = Method Detection Limit

Comment:

Method References available upon request.

INC = Incomplete

APPROVAL:

Mina Nasirai, B.Sc., C.Chem.

Organic Lab Supervisor

REPORT OF ANALYSIS

Client: CHESTERVILLE WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2300816

Date:

2003-02-06

Date Submitted:

2003-01-21

Project:

Chesterville Wells Quarterly

Chemicals

					Chemicais		
				Sample Matri	x:	Supply Water	
		LAB ID:					
	Sam	ple Date:	2003-01-20				
	Sa	ample ID:	CW-01				
		•		[į	Į.	
					[
PARAMETER	UNITS	MDL		 			
p,p'-DDD	ug/L	0.006	< 0.006				
Diclofop-methyl	ug/L	0.9	√ <0.9				
Dimethoate	ug/L	2.5	~ <2.5	į	ļ		
Dinoseb	ug/L	1 1	·> <1			1	
Diuron	ug/L	10	√ <10				
Glyphosate	ug/L	10	[⊸] <10		1		
Heptachlor	ug/L	0.006	<0.006				
Heptachlor epoxide	ug/L	0.006	<0.006	1			
Heptachlor + Hept. Epoxide	ug/L	0.012	√ <0.012				
indane	ug/L	0.006	√ <0.006			1	
alathion	ug/L	5	⁻ <5				
Methoxychlor	ug/L	0.024	√<0.024				
Metolachlor	ug/L	0.5	→ <0.5	i			l
Metribuzin	ug/L	5	√ < 5			İ	
Paraquat	ug/L	1 1	√<1				
Parathion	ug/L	1 1	[∨] <1				1
Pentachlorophenol	ug/L	0.5	√< 0.5				
Phorate	ug/L	0.5	√<0.5				
Picloram	ug/L	5	[~] √<5				
PCB's (total)	ug/L	0.05	<0.05				
Prometryne 2	ug/L	0.25	√<0.25			}	4
Simazine	ug/L	1	√<1				
Temephos	ug/L	10	√<10				
Terbufos	ug/L	0.7	∨<0.7				
2,3,4,6-Tetrachlorophenol	ug/L	0.5	√< 0.5				
Triallate	ug/L	1	√ <1				(
2,4,6-Trichlorophenol	ug/L	0.5	√ <0.5			1	
Trifluralin	ug/L	1	`√ <1				ĺ
2,4,5-T	ug/L	1	·1 <1			Ì]
	5						
NOTE: mg/L /ppm)=1000vug/	1 / 1 \	<u> </u>	1451 14 11	1 Detection Lim	1.		<u></u> _

NOTE: mg/L (ppm)=1000xug/L (ppb)

MDL = Method Detection Limit

Comment:

APPROVAL: ¿

Mina Nasirai, B.Sc., C.Chem. Organic Lab Supervisor



Client: CHESTERVILLE WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2300816

Date:

2003-01-30

Date Submitted:

2003-01-21

Project:

Chesterville Wells Quarterly

Chemicals

P.O. Number:

Matrix: Supply Water

				matrix:		Supply Water	
		LAB ID:	229212				
	Samı	ole Date:	2003-01-20				
İ	Sa	mple ID:	CW-01				
		-					
				i			
PARAMETER							
BTEX / 624 / PURGEABLE HYD							
Benzene	ug/L	0.5	√<0.5	•			
Toluene	ug/L	0.5	√< 0.5		1		
Ethylbenzene	ug/L	0.5	∼ <0.5				
m/p-xylene	ug/L	1.0	<1.0				
o-xylene	ug/L	0.5	<0.5				
Bromodichloromethane	ug/L	0.3	~2.2				
Bromoform	ug/L	0.4	√ <0.4				
<u>Car</u> bon Tetrachloride	ug/L	0.9	~< 0.9				
ochlorobenzene	ug/L	0.2	~<0.2	į	i	,	
Chloroform	ug/L	0.5	√ ,3.5				
Dibromochloromethane	ug/L	0.3	√1.4				
1,2-dichlorobenzene	ug/L	0.4	√<0.4				
1,4-dichlorobenzene	ug/L	0.4	√<0.4	}			
1,2-dichloroethane	ug/L	0.7	√√<0.7				
1,1-dichloroethylene	ug/L	0.5	→ <0.5	ļ			
Dichloromethane	ug/L	4.0	~<4.0				
Tetrachloroethylene	ug/L	0.3	~< 0.3				
Trichloroethylene	ug/L	0.3	√ <0.3				<u>!</u>
Vinyl Chloride	ug/L	0.5	√< 0.5				
TOTALS				į			
Trihalomethanes (total)	ug/L	2.0	√ 7.1				
Xylene; total	ug/L	2.0	√<2.0				
BTEX / 624 Surrogate Recoveri							!
Toluene-d8	%		97				
1,2-dichloroethane-d4	%		99				
4-bromofluorobenzene	%		102				

MDL = Method Detection Limit

INC = Incomplete

Method References available upon request.

Comment:

APPROVAL:

Mina Nasirai, B.Sc., C.Chem.

Organic Lab Supervisor

608 Norris Court, Kingston, ON, K7P 2R9



REPORT OF ANALYSIS

Client: CHESTERVILLE WELL SUPPLY

Report Number:

2300816

Date:

Project:

2003-01-31 2003-01-21

Date Submitted: ATT: Mr. Blair Henderson

Chesterville Wells Quarterly

Chemicals

P.O. Number:

				Matrix:	 Supply Water		
		LAB ID:	229212				
		e Date:	2003-01-20	_			
	San	nple ID:	CW-01				
					 <u> </u>		
PARAMETER	UNITS	MDL	TREATEDWATER				
As	mg/L	0.001	√ <0.001				
В	mg/L	0.05	√<0.05	<u>'</u>			
Ва	mg/L	0.01	№ 0.12				
Cd	mg/L	0.0001	`√<0.0001				
Cr	mg/L	0.001	~p.002	!		l	
Cu	mg/L	0.001	~0.007		}		
F	mg/L	0.10	√0.15				
Fe	mg/L	0.01	∵ 0.05				
Pb	mg/L	0.001	√<0.001				
Mn	mg/L	0.005	√0.026				
	mg/L	0.0001	√<0.0001				
1 02	mg/L	0.10	√<0.10				
N-NO3	mg/L	0.10	∨ <0.10				
Se	mg/L	0.001	√<0.001		Į]	
U	mg/L	0.001	∨< 0.001				
	J						
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MDL = Method Detection Limit

Comment:

INC = Incomplete

Method references available upon request.

APPROVAL:

Ewan McRobbie (

Inorganic Lab Supervisor



REPORT OF ANALYSIS

Client: CHESTERVILLE WELL SUPPLY

Report Number:

2300817

Date:

2003-01-30

Date Submitted:

2003-01-21

ATT: Mr. Blair Henderson

Project:

Chesterville Wells Quarterly

Chemicals

P.O. Number:

Matrix: Supply Water

				Matrix:		Supply water	
	· · · · · · · · · · · · · · · · · · ·	LAB ID:					
1	Sam	ple Date:	2003-01-20				
		mple ID:					
		.	-	-	}		1
PARAMETER	UNITS	MDL					
BTEX / 624 / PURGEABLE HYD	ONS						
Bromodichloromethane	ug/L	0.3	2.8		1		
Bromoform	ug/L	0.4	<0.4	}]	}	1
Chloroform	ug/L	0.5	5.4	1			
Dibromochloromethane	ug/L	0.3	1.6			[ļ
TOTALS	_						
Trihalomethanes (total)	ug/L	2.0	~9.8	l	l		
BTEX / 624 Surrogate Recover					į	<u> </u>	
Tene-d8	%		97	Į			
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MDL = Method Detection Limit

INC = Incomplete

Method References available upon request.

Comment:

APPROVAL:

Mina Nasirai, B.Sc., C.Chem.

Organic Lab Supervisor

WM

608 Norris Court, Kingston, ON, K7P 2R9



REPORT OF ANALYSIS

Client: CHESTERVILLE WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2300817

Date:

2003-01-31

Date Submitted:

2003-01-21

Project:

Chesterville Wells Quarterly

Chemicals

P.O. Number:

Supply Mater

						Supply Water	
	1	LAB ID:	229213				
	Sampl	e Date:	2003-01-20				
1	San	nple ID:	CW-System				
			}	ı			
1			{				
PARAMETER	UNITS	MDL	DISTRIBUTION				
Pb	mg/L	0.001	0.002				
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MDL = Method Detection Limit Comment:

INC = Incomplete

Method references available upon request.

APPROVAL:

Ewan McRobbie

Inorganic Lab Supervisor



Chesterville Hub

5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

To	MOH MOE
Company	
Fax Number	937-7530 800-268-6061
From	Dave Markell
Date	May 23/03.
Number of Pages	(including this page)
Subject	Chosterville Adverse Litter
- Tur	t exceedance.
	ks # 210000728
- Fire	pump exersized while flushing
dist	system caused turb exceedance.

Ontario

Ministry of the Environment Ministère

de l'Environnement

Notice of Drinking Water Analysis and Remedial Actions for Waterworks as Required under Drinking Water Protection Regulation

In accordance with the Drinking Water Protection Regulation, Laboratories and Water Works Owners must immediately provide oral notification to the MOE Spills Action Centre (SAC) at 1-800-268-6060 or 1-416-325-3000 and the local Medical Officer of Health (MOH) of indicators of adverse drinking water quality and exceedances of standards as outlined in the Regulation and remedial actions taken. Further, within 24 hours of the oral notification, the party shall provide written notification on this completed form by Fax to the Spills Action Centre at 1-800-268-6061 or 1-416-325-3011 and the local Medical Officer of Health. Failure to notify these parties in accordance with the Regulation constitutes an offence under the Act. A copy of this form may be acquired through the Ministry of the Environment (MOE) public web site (www.ene.gov.on.ca) or by contacting any MOE office.

Indicators of Adverse Phys/Chem Exceeds MAC	
Water Quality Exceeds IMA	
ORAL NOTIFICATION to SPILLS ACTION CENTRE by LABOR	ATORY
Date: Time:	Ву:
Laboratory Name:	Laboratory Emergency Contact Name
Address	Position
Email address	Phone # Fax #
Waterworks Name	Waterworks Emergency Contact
Works #	Name
ocation	Position
Email Address	Phone # Fax #
NOTIFICATION OF WATER WORKS OWNER	NOTIFICATION OF LOCAL MEDICAL OFFICER OF HEALTH
Person Contacted	Person Contacted
Position	Position
Date Time	Date Time
Laboratory Written Notification Prepared by: Name (please print (Lab Results must be attached using Part 3 of form)	
Signature	Date
ADT 2 NOTIFICATION BY WATER WORKS OWNER	
ART 2 - NOTIFICATION BY WATER WORKS OWNER ndicators of Adverse Phys/Chem Exceeds MAC	Radiological
V	Radiological D Exceeds IMAC
value Yuanty Exceeds IMAC	CofA/Order 🔲 Exceeds Limit
Vater Quality	CofA/Order
This notification is for operational problems identified at the waterworks; the	
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER	ere is no Laboratory notification associated with this report
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Onte May 21/03 Time 13:31	ere is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Day Mark (1)
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER that Man 21/03 Time 13:31 Vaterworks Name (1951)	ere is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Oc. M. (/
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER tate May 21/03 Time 13:31 Valuetworks Name (1951e(1)/11/2) Vorks # 210000723	ere is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Day Markette Position Process Tech
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER that Many 21/03 Time 13:31 Vaterworks Name (1251e(1111)) Vorks # 21000723 Vorks Person Providing Oral Notification 20 Marke 11 MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER	ere is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Day Markette Position Process Tech
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER that Man 21/03 Time 13:31 Vaterworks Name (1000113) Vorks # 21000113 Vorks Person Providing Oral Notification Dave Markell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER	ere is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Day Mark! (1 Position Mock! (1 Phone # 613-448-3098 Fax # 449-1616
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER tate May 21/03 Time /3:31 Vaterworks Name (1951e(1)///E Vorks Person Providing Oral Notification Dave Markell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER tate May 21/03 Time /3 30	Phone # 613-448-3098 Fax # 449-1616 REMEDIAL ACTIONS TAKEN BY OWNER: Resampling Initiated
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER that May 2/03 Time /3:3/ Waterworks Name (hesternally) Works # 2/0000123 Works Person Providing Oral Notification Dave Markell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER that May 2/03 Time /3 30 Verson Contacted Adclia	Phone # 613-448-3098 Fax # 449-1616 REMEDIAL ACTIONS TAKEN BY OWNER: Resampling Initiated
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date May 21/03 Time 13:31 Vaterworks Name (Nestectifie) Vorks # 210000323 Vorks Person Providing Oral Notification Dave Markell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER Date May 21/03 Time 13:30 Person Contacted Adala	REMEDIAL ACTIONS TAKEN BY OWNER: Resampling Initiated Yes No Increase Chlorine Dose Yes No Flushing Mains Yes No Flushing Mains Yes No No No No No No No N
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date May 21/03 Time 13:31 Vaterworks Name (PASTEC VILLE Works Person Providing Oral Notification Dave Markell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER Date May 21/03 Time 13:30 Person Contacted Adcilia Position Special Projects Phone # 613 362-7120 Fax # 1-613-933-7730	REMEDIAL ACTIONS TAKEN BY OWNER: Resampling Initiated Yes No No Yes No Other Actions Taken Yes No Other Actions Taken Yes No No Other Actions Taken Yes No Other Actions Taken Yes No No Other Actions Taken Yes No No Other Actions Taken Yes No No Other Actions Taken Yes No No Other Actions Taken Yes No No Other Actions Taken Yes No No Other Actions Taken Yes No No Other Actions Taken Yes No No Other Actions Taken Yes Yes
This notification is for operational problems identified at the waterworks; the SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date May 2/03 Time /3:31 Waterworks Name (hester ville Works # 2/000323 Works Person Providing Oral Notification Dave Markell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER Date May 2/03 Time /3 30 Person Contacted Adclica Position Special Projects	WATERWORKS EMERGENCY CONTACT Name Day Mark Mark Mark Mark Mark Mark Mark Mark
This notification is for operational problems identified at the waterworks; the PILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date May 2 / 03 Time /3:31 Waterworks Name (insterville) Works # 2 0000 7 2 3 Works Person Providing Oral Notification Dave Markell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER Date May 2 03 Time / 3 30 Person Contacted Adala. Person Contacted Adala. Project S Phone # 6 3 62 - 7 30 Fax # 1 - 6 3 - 9 3 3 - 3 7 3 0 Works Person Providing Oral Notification Daw Markell	REMEDIAL ACTIONS TAKEN BY OWNER: Resampling Initiated Yes No No Plushing Mains Yes No No Other Actions Taken Yes No Describe:

Page <u>1</u> of <u>3</u>

Ministry of the Environment Ministère de l'Environnement

Revised - September, 2002

PART 3:

ADVERSE ANALYTICAL RESULTS - For Indicators Listed in SCHEDULE 6 - Drinking Water Protection Regulation

Microbiological Testing

Lab Sample Sample Field	Date/Time Sample Type / Collected Location		Count/100mL			P-A/100mL Presumptive/	HPC/ 1mL	Date - Plates Prepared	Date - Plates Read	
ID No.	ID No.	(M/D/Y) (: am)		Total Coliforms	Back- ground	E.coli □ Fecal C. □	Confirmed (if applicable)		(M/D/Y)	(M/D/Y)

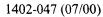
ADVERSE ANALYTICAL RESULTS - For Parameters Listed in SCHEDULE 4 and 5 or in a C of A or Order Drinking Water Protection Regulation

Physical/Chemical/Radiological Testing

Lab Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y) (/3:)O _{pm})	Sample Type / Location	Parameter TURBIDITY	Result	Unit NTU .	MAC/ IMAC J.O	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)

Results Authorized By:	Authorization Date:
For Ministry Use Only:	Occurrence Report #:

Page <u>3</u> of <u>3</u>



HP OfficeJet K Series K80 Personal Printer/Fax/Copier/Scanner

Log for OCWA (613) 448-1616 May 22 2003 12:17pm

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<u>Date</u>	<u>Time</u>	Type	<u>Identification</u>	Duration	<u>Pages</u>	Result	
May 22	2 12:16pm	Fax Sent	18002686061	1:08	3	OK	

HP OfficeJet K Series K80
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Log for OCWA (613) 448-1616 May 22 2003 12:19pm

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<u>Date</u>	Time	Type	Identification	Duration	Pages	Result
May 22	12:18pm	Fax Sent	16139337930	1:39	3	OK



Chesterville Hub
5 Industrial Drive, P.O. Box 460

Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

То	MOE MOE
Company	
Fax Number	933-7930 800-268-6061
From	Dave Markell
Date	May 23/03.
Number of Pages	(including this page)
Subject	chistoriille Adverse Water
- Turk.	exceedance
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Ministry of the

Ministère

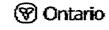
de l'Environnement Environment

Notice of Drinking Water Analysis and Remedial Actions for Waterworks as Required under Drinking Water Protection Regulation

In accordance with the Drinking Water Protection Regulation, Laboratories and Water Works Owners must immediately provide oral notification to the MOE Spills Action Centre (SAC) at 1-800-268-6060 or 1-416-325-3000 and the local Medical Officer of Health (MOH) of indicators of adverse drinking water quality and exceedances of standards as outlined in the Regulation and remedial actions taken. Further, within 24 hours of the oral notification, the party shall provide written notification on this completed form by Fax to the Spills Action Centre at 1-800-268-6061 or 1-416-325-3011 and the local Medical Officer of Health. Failure to notify these parties in accordance with the Regulation constitutes an offence under the Act. A copy of this form may be acquired through the Ministry of the Environment (MOE) public web site (www.ene.gov.on.ca) or by contacting any MOE office.

Indicators of Adverse □ Water Quality	Phys/Chem	☐ Exceeds MA		Radiological	□ Exceeds IMAC
ORAL NOTIFICATION to SP.	ILLS ACTION CEN	Exceeds IMA		CofA/Order	☐ Exceeds Limit
		TRE by EADOR			
Date:	Time:	· · · · · · · · · · · · · · · · · · ·	By:		
Laboratory Name:			Laboratory Emergency (Contact Name	
Address			Position		
Email address			Phone #		Fax #
Waterworks Name			Waterworks Emergency	Contact	
Works #			Name		
Location			Position		
Email Address			Phone #		Fax #
NOTIFICATION OF WATER WO	ORKS OWNER		NOTIFICATION OF	LOCAL MED	ICAL OFFICER OF HEALTH
Person Contacted		4.6	Person Contacted		
Position			Position		
Date	Time		Date		Time
Laboratory Written Notification P (Lab Results must be attached using		Name (please print	:)		
Signature				Date	
PART 2 - NOTIFICATION E	SY WATER WOR	KS OWNER	- · · · · · · · · · · · · · · · · · · ·		
Indicators of Adverse	Phys/Chem			Radiological	□ Exceeds IMAC
Water Quality		Exceeds IMAC			☐ Exceeds Limit
This notification is for operation					
SPILLS ACTION CENTRE ORAL	_	OWNER O	WATERWORKS EMI		,
Date May 23/03		50	Name Day	Mar	
Waterworks Name Che Stervi			Position / OCES		
Works# 210000776	3		Phone # 613-449	<u> 3886 - </u>	Fax# 613-448-1616
Works Person Providing Oral Notification	Dave Mo	ark((
MEDICAL OFFICER OF HEALTI			REMEDIAL ACTION	S TAKEN BY	OWNER:
Date May 25/03	Time 15:2	-7	Resampling Initiated Increase Chlorine Dose	□ Yes	
Person Contacted Adalia			Flushing Mains	□ Yes □ Yes	
Position Colicial Pr	rojeds		Other Actions Taken	□ Yes	i SZNo
/	Fax# 933 -	7530	Describe:		
Works Person Providing Oral Notification	Dave Mo	irkeil	Other informa	tion attac	hed 🛛
Water Works Written Notification l		me (please print)			
Signature Archiv	u			Date Ma	4 23/03
For Ministry Use Only:		0-	currence Report #:		7

Page _



Ministry of the Environment Ministère de l'Environnement

PART 3:

ADVERSE ANALYTICAL RESULTS - For Indicators Listed in SCHEDULE 6 - Drinking Water Protection Regulation

Microbiological Testing

Lab Sample Sample Field		Date/Time Collected	Sample Type / Location				P-A/100mL Presumptive/	HPC/ 1mL	Date - Plates Prepared	Date - Plates Read
ID No. ID	ID No.	(M/D/Y) (: am pra)		Total Coliforms	Back- ground	E.coli □ Fecal C. □	Confirmed (if applicable)		(M/D/Y)	(M/D/Y)

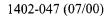
ADVERSE ANALYTICAL RESULTS - For Parameters Listed in SCHEDULE 4 and 5 or in a C of A or Order Drinking Water Protection Regulation

Physical/Chemical/Radiological Testing

Lab Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y)	Sample Type / Location	Parameter	Result	Unit	MAC/ IMAC	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)
			Contin.	Turkidity	2.9	NTU	MAC	May 23/03	
				/				U	

Results Authorized By:	Authorization Date:	
For Ministry Use Only:	Occurrence Report #:	·

Page 3 of 3



HP OfficeJet K Series K80 Personal Printer/Fax/Copier/Scanner

Log for OCWA (613) 448-1616 May 23 2003 3:46pm

Last Transaction

DateTimeTypeIdentificationDurationPagesResultMay 23 3:45pmFax Sent180026860610:473OK

HP OfficeJet K Series K80 Personal Printer/Fax/Copier/Scanner Log for OCWA (613) 448-1616 May 23 2003 3:44pm

Last Transa	CUOII

DateTimeTypeIdentificationDurationPagesResultMay 23 3:43pmFax Sent161393379301:373OK



Chesterville Hub

5 Industrial Drive, P.O. Box 460

Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

To	MOH	MOE	_
Company			_
Fax Number	933.7930	300768-606	<u>í</u>
From	Dave Mu	arke (_
Date	Aus 13/	03	_
Number of Pages	(including	this page)	
Subject	Adverce	Water.	_
- Chosteri	iille @ l	of Albert	street.
	21000072		
- TC	22		
- Rosamo	oling Ini+	rated.	
(



Drinking-Water Systems Regulation O. Reg 170/03

SECTION 1 - WRITTEN NOTICE BY LABORATORY

Indicators of Adverse	Radiological Exceeds Standard
Micro Exceeds Standard Phys/C	nemExceeds Standard
Water Quality	CofA/Order Exceeds Limit
Oral Netification to SPILLS ACTION CENTRE	
Person Contacted: Ta.son Mitchell	Date: 13/08/03 Time: 11:50 am
Andrea Schneider	AWQI Notification No (s) 14326 .
Laboratory Name: Caduceon Environmental Laboratory	Laboratory Emergency Contact Name Krystyna Pipin
Address 2378 Holly Lane Ottawa	Position Laboratory Supervisor
Telephone # of Lab (613) 526-0123	Phone # (613) 526-0123 Fax # (613) 526-1244
Drinking-Water System (DWS) Name	DWS Emergency Contact
Chesterville WTP	OCUP.
DWS (Waterworks) # 21CCCCO733	Name Dave Markell
Location	Position
Telephone # of Waterworks (613) 448-3098	Phone # (613)448-3098 Fax # (613)448-1616.
Oral Notification to Drinking-Water System Owner	Oral Notification to Local Medical Officer of Health
Poison Contacted Dave Markell.	Person Contracted Manon Carriere
Position Process Tech	Admin Assit.
Date 13/08/03 Time 10:550-	Date 13/08/03 Time
(Lad Kesuks must de/anached using Section 3 of this form)	ea Schneider
Signature Julia Chriedi	Date 13/08/03
For Ministry Use Only:	Report No.

Notice of Adverse Test Results and Other Problems Notice of Issue Resolution at Drinking Water Systems

Page 2 of 4

Ministry of the Adolesium du Anticonomial l'Environneme

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 2 (a) - WRITTEN NOTICE BY DRINKING-WATER SYSTEM (DWS) OWNER

Indicators of Adverse	Radiological Ex	ceeds Standard
Water Quality Micro Exceeds Standard Phys/C	Chem LExceeds Standard CofA/Order Ex	ceeds Limit
Indicator of Adverse Water Quality (operational / on-site observations or test result; no associated lab notification)	Details:	
	1	
Oral Notification to SPILLS ACTION CENTRE	asif assign No (a)	
Date Aug 13/03 Time 11:52 AWQI No	otification No (s) 14226	
Person Contacted Michaela	DWS EMERGENCY CONTACT	
DWS Name Chesterville WTP	Name Dave Markell	
DWS (Waterworks) # 210000728	Position Process Tech	
DWS Person Providing Oral Notification Dave Markell	Process Tech. Phone # (6,3)448-3098 Fax # (6,1)	3)448
Oral Notification to MEDICAL OFFICER OF HEALTH	CORRECTIVE ACTION(S) TAKEN BY OW	
Date/tus 13/03 Time 11:50	Resample/Re-test	Yes No
Person Contacted	Disinfectant Restored/ Increased	□Yes□No
Monon Carriere	Flushing Mains/Pipos	□Yes□No
Position Admin. Ass.	Users Advised to Boil/Seek Alternate	□Yes□No
Phone # (800) 983-7120 Fax # 613 1933-7930	OTHER - Describe:	
DWS Person Providing Oral Notification	4/	
Dax Mak!! Initial DWS Notification Prepared by:	Other information attached	
pave Nark	20(1	
Eignatur Cur Now Cur	Date A 13/03	
SECTION 2 (b) - NOTICE OF ISSUE RESOLUTION -	,	
Date Resolved: Date Re	solution Notice Provided:	
Summary of Action Taken and Results Achieved (include test	results showing water quality is no longer adverse)	
Prepared By: Signature:	Date:	
For Ministry Use Only:	Report No.	

Notice of Adverse Test Results and Other Problems Notice of Issue Resolution at Drinking Water Systems

Page 3 of 4

♥ Ontario

Ministry of the Ministère de Environment l'Environment

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 3:

ADVERSE ANALYTICAL RESULTS

For Indicators Listed in - Drinking-Water Systems Regulation

Microbiological Testing

Notifica- tion Record	Sample ID No.	DWIS Sample Field ID No.	Date/Time Sample Collected (M/D/Y)	DWIS Sample Type/ Location Identifier					HPC/ imL	Plates Prepared	Plates Read	Date - Data Approved (M/D/Y)	
No.					Tetal Collforms	TC Back- ground	E. coli Fecal C.						
14226	B03-6840-3		11/08/03	Distvib.	99	_	_		-	-	12/08/03	13/08/03	13/08/03
			11/98/03				•		-	•	12/09/03	13/08/03	13/08/03

For Parameters Listed in Drinking-Water Systems Regulation or cited in MOE CofA or Order

Physical/Chemical/Radiological Testing

AWQI Notifica- tion Record No.	DWIS Lab Sample ID No.	DWIS Sample Fleid ID No.	Sample Collected	DWIS Sample Type / Location Identifier	Parameter	Result	Unit of Measure	Standard		Date - Data Approved (M/D/Y)
Results A	uthorized By: Ar	drea Schneider			Authe	orization Dat	e: 13/08/03			
For Ministry Use Only:				Report No.:						



Environmental Laboratories

(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Preliminary Report

REPORT No. B03-6840

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON KOC 1H0

Attention: Dave Markell

DATE SUBMITTED: 12-Aug-03

DATE REPORTED: 13-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

lel: 526-0123

Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter: Units: MDL:		Total Coliform			
			cts/100ml			
			1		,	
	Reference Met	hod:	MOE E3371			
	Date Analyzed:		12-Aug-03			
Client I.D.	Sample I.D.	Date Collected				
Well #5 Raw	B03-6840-1	11-Aug-03	••			
Well #5 Treated, Lot 12 Conc. 5, HWY 43	B03-6840-2	11-Aug-03	••			
61 Albert Street	B03-6840-3	11-Aug-03	22			
BBL Ltd. Main Street	803-6840-4	11-Aug-03		1,4,74		
LCBO Queen Street	B03-6840-5	11-Aug-03	••			

Krystyna Pipin, M. Sc. Lab Supervisor

MDL = Method Detection Limit

Accradibed by the Standards Council of Canada and CAEAL for specific tests. The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caduceon Environmental Laboratories.

Page 1 of 1.

Log for OCWA 613 448-1616 Aug 13 2003 1:37pm

Last Transaction

Date Time Type Identification Duration Pages Result

Aug 13 1:36pm Fax Sent 18002686061 1:09 5 OK

Log for OCWA 613 448-1616 Aug 13 2003 1:34pm

Last Transaction

DateTimeTypeIdentificationDurationPagesResultAug 13 1:32pmFax Sent161393379301:515OK



Chesterville Hub

5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098

Fax: (613) 448-1616 www.ocwa.com

Fax	
То	Dan / Cindy
Company	
Fax Number	416-314-5455 613-969-7452
From	Dave Markell
Date	Aug 13/03.
Number of Pages	(including this page)
Subject	Adverse Water.
Chester	ville
TC 2.	2
Resample	e started

Log for OCWA 613 448-1616 Aug 13 2003 1:52pm

I as	t Trai	neacti	ion
	LILL	u sav u	WH

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Aug 13 1:50pm Fax Sent 16139697452 1:29 8 OK

Log for OCWA 613 448-1616 Aug 13 2003 1:49pm

T .		. •
a at	TO T	CONTINA
-4.51		saction

DateTimeTypeIdentificationDurationPagesResultAug 13 1:47pmFax Sent141631454552:238OK



Chesterville Hub 5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

To	MOH MOE
Company	
Fax Number	268-6061 933-7930
From	Dave Markell
Date	Aug 21/03
Number of Pages	(including this page)
Subject	AWQ1 14226
Notice	of Issue resolution.
- Resam	ple results collected immediately
after Ad	verse notification were deemed not
reliable	because of Power Black-out at Lab.
Through	concultation with Jan Franssen water
•	cornwell office a further set of
parples	were collected and sent to a
	f the Lab (caduceon) not affected
	power outages.

Dave

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Ministry of the Ministère de Environment l'Environneme

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 2 (a) - WRITTEN NOTICE BY DRINKING-WATER SYSTEM (DWS) OWNER

Indicators of Adverse Water Quality Micro XExceeds Stand	land	Radiol	ogical Ex	ceeds Standard			
Water Quanty Micro X Exceeds Strand	iaro Phys/Cl	hem Exceeds Standard CofA/	Drder E x	ceeds Limit			
Indicator of Adverse Water Quality (operation observations or test result; no associated lab notific		Details:					
Oral Notification to SPILLS ACTION CENTRE							
Date Aug 13/03 Time /1:52	AWQI No	tification No (s) 14226					
Person Contacted Michaela		DWS EMERGENCY CONTACT					
DWS Name Chesterville WTP	·	Name Dave Markei	/				
DWS (Waterworks) # 210000728		Position Process Tech					
DWS Person Providing Oral Notification Dave Markell		Phone # (613)448-3098	Fax # (6)	3)448			
Oral Notification to MEDICAL OFFICER OF E	IEALTH	CORRECTIVE ACTION(S) TAK					
Date Aus 13/03 Time /1:50	>	Resample/Re-test		Yes No			
Person Contacted		Disinfectant Restored/Increased		□Yes□No			
Monon Carriere		Flushing Mains/Pipos		□Yes□No			
Position Admin. Ass.		Users Advised to Boil/Seek Alternal	e	□Yes□No			
Phone # (800) 963-7/20 Fax # 6/3)93	33-7930	OTHER - Describe:					
DWS Person Providing Oral Notification							
Dave Make!! Initial DWS Notification Prepared by: Dave		Other information attached					
Bionature O O	Mark	Dute A 22 7					
Signaturi Ceve New Con		Ay 13/03	·	·			
SECTION 2 (b) – NOTICE OF ISSUE RESO	LUTION – Se	ect, 16-9 O Reg. 170/03					
Date Resolved: Aug 20/03	Date Res	slution Notice Provided:					
Summary of Action Taken and Results Achieved (include test results showing water quality is no longer adverse)							
Find Attached resumple results for site							
of Adverse. 61 Albert st. Christerville.							
Prepared By: Signature Que North Ac 21/03							
For Ministry Use Only:		Report No.					

Notice of Adverse Test Results and Other Problems Notice of Issue Resolution at Drinking Water Systems Page 3 of 4



Environmental Laboratories

(Division of Caduceon Enterprises Inc.)

C.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. 803-6964

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

6 Industrial Dr.

Chesterville ON KOC 1HO
Attention: Dave Markell

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

1el: 526-0123 Fax 526-1244

DATE SUBMITTED: 13-Aug-03

DATE REPORTED: 19-Aug-03
SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nem	6 :	Total Coliform	E coli	Heterotrophic Plate Count	Free Chlorine	
	Units:		cts/100ml	cts/100mL	cts/1mL	mg/L	
	M.D.L.:		1	1	2		
	Reference Meth	iod:	MOE E3371	MOE E3371	MOE E3371	n/a	
	Date Analyzed:		13-Aug-2003	13-Aug-2003	13-Aug-2003	19-Aug-2003	
Çilent LD.	Sample LD.	Date Collected				· · · · · · · · · · · · · · · · · · ·	
17 Albert Street	B03-6964-1	13-Aug-03	<1	<1	<2	1.13	
Post Office, Queen Street	B03-6964-2	13-Aug-03	<1	<1		1.09	
61 Albert Street	Bú3-6984-3	13-Aug-03	< 1	<1		1.24	

MDL = Multiud Detection Limit

lyna Pipin, M. Sc. Lab Supervisor

Accredited by the Standards Council of Canada and CAEAL for specific tests.

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caducton Environmental Laboratories.

Page 1 of 1.



Environmental Laboratories

(Division of Caducaon Enterprises Inc.)

C.O.C.: --

CERTIFICATE OF ANALYSIS Final Report

REPORT No. 803-7220

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON KOC 1H0 Attention: Dave Markell

DATE SUBMITTED: 16-Aug-03 DATE REPORTED: 20-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWOHKS NO. 210000728

	Parameter Nam	Parameter Name: Units: M.D.L.: Reference Method: Date Analyzed:		E coli	Heterotrophic Plate Count	Free Chlurine	
	Units:			rts/100mL	cts/1mL	mg/L	
	M.D.L.:			1 1 DE E3371 MOE E3371	2 MOE E3371	n/a	
	Reference Meth						
	Date Analyzed:			16-Aug-2003	18-Aug-2003	16-Aug-2003	
Client I.D.	Sample i.D.	Date Collected					
Post Office	B03-7220-1	15-Aug-03	< 1	<1	10	1.25	
61 Albert Street	B03-7220-2	15-Aug-03	<1	<1		1.40	
Beckers	B03-7220-3	15-Aug-03	<1	<1		1.29	

MDL = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.

The analytical results reported herein relen to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caduceon Environmental Laboratories,

Page 1 of 1.

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CADUCEDN

P132521544 מפי למו לממל מז: לא

Glos Jarkin, BSc, C.Chem Lab Manager - Ottawa District

Log for OCWA 613 448-1616 Aug 21 2003 4:18pm

Last	Trans	saction

DateTimeTypeIdentificationDurationPagesResultAug 21 4:17pmFax Sent180026860610:564OK

Log for OCWA 613 448-1616 Aug 21 2003 4:22pm

Last Transaction

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Aug 21 4:20pm Fax Sent 16139337930 1:32 4 OK



Chesterville Hub

5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax	
То	angela Rutley
Company	_ Dwp. Morth Rundas
Fax Number	774-5699
From	Km Baku
Date	aug 22/03
Number of Pages	(including this page)
Subject	Chestewille Water Results
- Ple	Chestewelle Water Results are find attached an Adverse ficiation and Summary to be
not	ification and Summary to be
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0	

Log for OCWA 613 448-1616 Aug 22 2003 10:38am

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126.1	<u>Transa</u>	CTION
	T 7 (717/0)	VUVII

DateTimeTypeIdentificationDurationPagesResultAug 22 10:36amFax Sent774-56992:0310OK



Chesterville Hub

5 Industrial Drive, P.O. Box 460

Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

То	Mott	MOE	_
Company			-
Fax Number	933-7530	800 268-6i	261
From	Dave Mark	(1	- [
Date	Oct. 17/03.		_
Number of Pages	(including this p	age)	Y /
Subject	Adverse	(1830)	
Advers	e @ 61 Al	but s C	hosteruille
	# 18320	ia	
- Warks		38	
	5		

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Ministry of the Ministère de Environment l'Environnement

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 2 (a) - WRITTEN NOTICE BY DRINKING-WATER SYSTEM (DWS) OWNER

Indicators of Adverse Water Quality Micro	Exceeds Standard	Phys/Ch	nem Exceeds Standard		ceeds Standard
Indicator of Adverse Water observations or test result; no ass			Details:		
Oral Notification to SPILLS A	CTION CENTRE	·			
Date OCT 16/03	Time	AWQI Not	ification No (s) 18320		
Person Contacted JANE	1/ / -		DWS EMERGENCY CONTACT		
DIVON			Name BLAIR HONDS	reem	
DWS (Waterworks) # 210	000728		Position OPERATIONS MI	ANAGO	R
DWS Person Providing Oral Not RLAIR Henry	ification		Position OPERATIONS M. Phone # (6/3)448-3098	Fax # (6/	13)418-1616
Oral Notification to MEDICAI		LTH	CORRECTIVE ACTION(S) TAKE	N BY OW	NER:
Date Oct. 16/03	Time 13:59		Resample/Re-test		V es No
Person Contacted			Disinfectant Restored/ Increased		□Yes□No
IDEALIA			Flushing Mains/Pipes		☐Yes ☐No
Position SPECIAL PR	05607		Users Advised to Boil/Seek Alternate		∐Yes _No
Phone # (800)267-7/20	Fax # (6/3)933	-7930	OTHER - Describe:	-	•
DWS Person Providing Oral Not	ification				
BLAIR HEN Initial DWS Notification Prepa	red by:	Unin	Other information attached	·	
Signature Blain He	du SLAIR	118102)	Date OCT 16/03	·	
Jacon / W	2000		1 190		<u></u>
SECTION 2 (b) - NOTICE	OF ISSUE RESOLU	TION – Se	ect. 16-9 O Reg. 170/03		
Date Resolved:		Date Res	olution Notice Provided:		
Summary of Action Taken and	Results Achieved (in	iclude test i	results showing water quality is no long	er adverse)	
Prepared By:	S	ignature:		Date:	
For Ministry Use Only:			Report No.	*************************************	

♥ Ontario

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 1 - WRITTEN NOTICE BY LABORATURY

		
Indicators of Advorce Micro ZExceeds Standard Phys/C	Hem Tricaens Prandard	ological Exceeds Standard
Water Quality	Order Exceeds Limit	
Oral Notification to SPILLS ACTION CENTRE		
Person Contacted: Treson Mitchell	10/10/03	Time: 21.05pm
Person Notifying: Andrea Schneider	AWQI Notification No (s)	320
Laboratory Name: Coduccon Environmental Laboratory	Laboratory Emergency Contac	Name Krystyna Pipln
Address 2378 Holly Lane, Ottaw, ON	Position Laboratory Supervisor	
Telephone # of Lab (613) 526-0123	Phone # (613) 526-0123	fax# (013)526-1244
Drinking-Water System (DWS) Name	DWS Emergency Contact	
Chesterville WTP	OCWA	
DWS (Waterworks) # 210000728	Name Dave Markell	
Location	Position Senior Operator	
Telephone # of Waterworks (613) 448-3098	Phone # (613)448-3098	Fax # (613) 448-1616
Oral Notification to Drinking-Water System Owner	Oral Notification to Local Med	cal Officer of Health
Person Contacted Blair Henderson		Llia
Position	Position	
Date 16/10/03 Time 1:45pm	Date 16/10/03	Time 1:47>>>
Laborator Written Notification Prepared by: (Lab Result must be attached uping Section 3 of this form)	ea Schneider	
Signature MUCICO VI MOLOCI	Datc 16/10/03	
For Ministry Use Only:	Report No.	

Notice of Adverse Test Results and Other Problems Page 2 of 4 Notice of Issue Resolution at Drinking Water Systems (PIBS 4444E Version July \$\frac{1}{2} 2003)

Ontario

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 3:

ADVERSE ANALYTICAL RESULTS

For Indicators Listed in - Drinking-Water Systems Regulation

Microbiological Testing

DWIS Lab Sample ID No.	DWIS Sample Field ID No.	Date/Time Sample Collected (M/D/Y)	-			100mL	L 1mL rmed	Plates Prepared	Plates Read	Date - Data Approved (M/D/Y)	
	1			Tctal Coliforms	TC Back- ground	E. coli Fecal C.					
B03-10445-3		14/10/03	61 Albert	1	•	-	-	•	15/10/03	16/10/03	16/10/03
	: 	<u> </u>									
	Sample ID No.	Sample Sample ID No. Field	Sample Sample Sample ID No. Field Collected ID No. (M/D/Y)	Sample Sample Sample Type Collected Lucation ID No. (M/D/Y)	Sample Sample Sample Collected Location ID No. (M/D/Y) Total Coliforms	Sample Sample Collected Lucation ID No. (M/D/Y) Identifier Tctal TC Back-Coliforms Ground Collected Coll	Sample Sample Sample Collected Lucation ID No. (M/D/Y) Sample Type/ Lucation Identifier Total TC Back- Coliforms ground Fetal C.	Sample Sample Collected Lucation Identifier Sample Type Confirmed Total TC Back E. coli Confirmed Conforms ground Fecal C.	Sample Sample Collected Collected D No. No. Sample Confirmed C	Sample Sample Sample Type/ ID No. Field Collected ID No. (M/D/Y) Total TC Back E. coli Confirmed (M/D/Y) Total Conforms ground Fecal C.	Sample Sample Collected Collected Confirmed Sample Type Confirmed ImL Plates Prepared (M/D/Y) Confirmed ImL Plates Prepared (M/D/Y) (M/D/Y) Confirmed

For Parameters Listed in Drinking-Water Systems Regulation or cited in MOE CofA or Order

Physical/Chemical/Radiological Testing

AWQ1 Notifica- tion Record Na.	DWIS Lab Sample ID No.	DWIS Sample Field ID No.	Date/Time Sample Collected (M/D/Y)	DWIS Sample Type ! Lecation Identifier	Parameter	Result	Unit of Measure	Standard	Analysis	Date - Data Approved (M/D/Y)
-										
						i				
Results A	uthorized By:	idrea Schneidei			Auth	orization Da	16/10/03			
For Mini	stry Use Only:				Repo	rt No.:				

CADUCEZIN

Environmental Laboratories

(Division of Caduceon Enterprises Inc.)

C.O.C.; 42519

CERTIFICATE OF ANALYSIS Preliminary Report

REPORT No. B03-10445

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON KůC 1H0
Attention: Dave Markell

Attention: Dave M

DATE SUBMITTED: 15-Oct-03

DATE REPORTED: 16-Oct-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Name:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine	
	Units:	Units:		cts/100mL	cts/100mL	cts/1mL	mg/L	
	M.D.L.: Reference Method:		1	1	1"			
			MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a	
	Dulle Armiyand:		15-Oct-2000	15-Oct-2003	15-Oct-2003	15-Oct-2003	16-Oct-2003	
Cilent i.D.	Sample I.D.	Date Collected						
CW-01 Well#5	B03-10445-1	14-Oct-03	< 1	<1	< 1			
CW-02 Treat(well#5)	B08-10445-2	14-Oct-03	< 1		< 1		1.18	
CW-03 G1 Albert	BQ8 10446 3	14-Oct-03	1		< 1		0.88	
CW-04 Lannins	B03-10445-4	14-Oct-03	< 1		< 1		0.64	
CW-05 LCBO	B09-10445-5	14-Oct-03	< 1	••	< 1		0.97	

Adverse

Krystyna Pipin, M. Sc.

Lab Supervisor

MDL = Method Detection Limit

Accredited by the Standards Courton -. Canada and CAEAL for specific tests.

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caduceon Environmental Laboratoriae.

Page 1 of 1.

PAGE 03/03

CADUCEON

10/16/2003 16:51 6135261244

Log for OCWA 613 448-1616 Oct 17 2003 11:34am

Last Transaction							
<u>Date</u>	<u>Time</u>	<u>Type</u>	<u>Identification</u>	Duration	<u>Pages</u>	Result	
Oct 17	11:26am 11:29am 11:32am	Fax Sent	1 800 268-6061 1 613 933-7930 1 416 314-5455	1:09 1:53 1:58	5 5 5	OK OK OK	



Chesterville Hub 5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

То	MOE		moE.	
Company				
Fax Number	268-6061		933-793	C
From			····	
Date				
Number of Pages	<u></u>	luding this page)		
Subject	Issue	Resolutio)r.	
AWQ1 #	18320			
AWQ1 # Rosamples	9000.			
P	we-			

) Onțario

Ministry of the Ministère de Environment l'Environnement

Drinking-Water Systems Regulation O. Reg 170/03

CTION 2 (a) - WRITTEN NOTICE	BY	DRINKING-WATER SYSTEM (DWS) OWNER

Indicators of Adverse	Radiological 🔲	Exceeds Standard
Water Quality Micro Exceeds Standard Phys/Ch	nem Exceeds Standard CofA/Order	Exceeds Limit
Indicator of Adverse Water Quality (operational / on-site	Details:	
observations or test result; no associated lab notification)		
Oral Notification to SPILLS ACTION CENTRE		
Date OCT 16/03 Time /3:50 AWQI Not	tification No (s) 18320	
Person Contacted JANET	DWS EMERGENCY CONTACT	
DWS Name CHESTERVILLE	Name BLAIR HOUDERSON	
DWS (Waterworks) # 210000728	Position OPERATIONS MANA	GPR
DWS Person Providing Oral Notification	Position OPERATIONS MANA Phone # (6/3)448-3068 Fax # (613)418-1616
BLAIR HONDERSON		
Oral Notification to MEDICAL OFFICER OF HEALTH	CORRECTIVE ACTION(S) TAKEN BY C	
Date Oct. 16/03 Time 13:59	Resample/Re-test	ØYes □No
Person Contacted	Disinfectant Restored/ Increased	☐Yes☐No
IDEALIA	Flushing Mains/Pipes	□Yes□No
Position SPECIAL PROJECT	Users Advised to Boil/Seek Alternate	□Yes□No
Phone # (800) 267-7/20 Fax # (6/3) 933-7930	OTHER - Describe:	
DWS Person Providing Oral Notification		
Initial DWS Notification Prepared by: RIAIR Havi	Other information attached	
Initial DWS Notification Prepared by: BLAIR Have	res cm	
Signature Blain Handen	Date () CT 16/03	
		
SECTION 2 (b) - NOTICE OF ISSUE RESOLUTION - S	Sect. 16-9 O Reg. 170/03	
	solution Notice Provided: 00-20/03	
Summary of Action Taken and Results Achieved (include test	results showing water quality is no longer adve	rse)
Resamples Collected as per	L regulation, Oct. 17	•
	(Attacked) all	Spod
Results received od 20/	05 (1110000)	,
Prepared By: Signature	Date	
Prepared By: Signature Signature	we Value 100	+20/03
For Ministry Use Only:	Report No.	



Environmental Laboratories

(Division of Caducaon Enterprises inc.)

C.O.C.: 42518

CERTIFICATE OF ANALYSIS Final Report

REPORT No. 803-10593

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0

Attention: Dave Markell

ARCHOOL. Dave Market

DATE SUBMITTED: 17-Oct-03 DATE REPORTED: 20-Oct-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Name:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:	M.D.L.:		cts/100mL	cts/100mL	cts/1mL	mg/L_
	M.D.L.:			1	1	2	
	Reference Meth			MOE E3371 MOE E3371 M		MOE E3371	n/a
	Date Analyzed:		17-Oct-2003	17-Oct-2003	17-Oct-2003	17-Oul-2003	17-Oct-2003
Cilent I.D.	Sample I.D.	Date Collected		7		· · · · · · · · · · · · · · · · · · ·	
61 Albert	803-10593-1	16-Oct-03	/ <1 V	<1 /	<1 \	2	0.93
17 Albert	B03-10593-2	16-Oct-03	1 <1 v	<1/	<1 0	-	1.03
Post Office Queen St	B03-10593-3	1G-Oct-00	×1 /	41	<1 V		0.90

8 0 x 2 20 103

Krystyna Pipin, M. Sc.

MDL - Method Dotoction Limit

Lab Supervisor

Accredited by the Standards Council of Canada and CAEAL for specific tests.

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caduceon Environmental Laboratories.

Page 1 of 1.

Log for OCWA 613 448-1616 Oct 20 2003 4:08pm

Last T	Last Transaction							
<u>Date</u>	Time	Type	Identification	Duration	Pages	Result		
Oct 20	3:59pm	Fax Sent Fax Sent Fax Sent	1 800 268-6061 1 416 314-5455 1 613 933-7930	0:45 1:16 1:13	3 3 3	OK OK OK		



Chesterville Hub

5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax To Company 768-6061 Fax Number From Date (including th **Number of Pages** Subject feed とせぐへ



Ministry of the Ministère de Environment l'Environnement

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 2 (a) - WRITTEN NOTICE BY DRINKING-WATER SYSTEM (DWS) OWNER

Indicators of Adverse	tondoud	Radiolog	ical Exceeds Standard
Water Quality Micro Exceeds S	tandard Phys/C	hem Exceeds Standard CofA/Or	der Exceeds Limit
Indicator of Adverse Water Quality (oper observations or test result; no associated lab no	ational / on-site otification)	No Wester Pressu	~ (Main) Break)
Oral Notification to SPILLS ACTION CEN	TRE	 -	
Date Dec11/03 Time 7:30	AWQI No	otification No (s) 21353	
Person Contacted Tines DWS Name Chesterville	•	DWS EMERGENCY CONTACT	
DWS Name Chesterville		Name Dave Market	<u> </u>
DWS (Waterworks) # 210000 72	.9	Position Process Tech	
DWS Person Providing Oral Notification Dave Markell		Position Process Tech Phone # (6,3) 448 3093	Fax # (613) +723
Oral Notification to MEDICAL OFFICER	OF HEALTH	CORRECTIVE ACTION(S) TAKE	N BY OWNER:
Date Dec 11/03 Time 73		Resample/Re-test	¥es□No
Person Contacted	/	Disinfectant Restored/ Increased	¥es□No
Liane		Flushing Mains/Pipes	¥Yes□No
Position Answering Service		Users Advised to Boil/Seek Alternate	□Yes⊠No
Phone # (800) 267-7120 Fax # (613)933- 99 30	OTHER - Describe:	
DWS Person Providing Oral Notification	·		
Initial DWS Notification Prepared by:		Other information attached	223
		Date ()	
Signature Cave Mache		Date Dec 11/03	
SECTION 2 (b) - NOTICE OF ISSUE R	RESOLUTION – S	Sect. 16-9 O Reg. 170/03	
Date Resolved:	Date Re	solution Notice Provided:	
Summary of Action Taken and Results Ach	ieved (include test	results showing water quality is no longer	er adverse)
Prepared By:	Signature:		Date:
For Ministry Use Only:		Report No.	

Log for OCWA 613 448-1616 Dec 11 2003 11:05am

Last T	ransaction	1		 		
<u>Date</u>	Time	Type	Identification	Duration	Pages	Result
Dec 11	11:02am 11:03am 11:04am	Fax Sent	1 613 933-7930 1 800 268-6061 1 416 314-5455	0:53 0:44 0:54	2 2 2	OK OK OK



Chesterville Hub

5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

To	MOH	MOE	
Company			
Fax Number	933-7930	800-268-6061	
From	Dave Marke (1 Dec 15/03	·	
Date	Dec 15/03		
Number of Pages	(including this page)	
Subject	Issue Resolu	hon	
AWQI	生 21353		
		· · · · · · · · · · · · · · · · · · ·	



Ministry of the Ministère de Environment l'Environnement

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 2 (a) - WRITTEN NOTICE BY DRINKING-WATER SYSTEM (DWS) OWNER

Indicators of Adverse Water Quality Micro	Evocada Standard	l (ou	Traceds Standard	Radiological Exc	eeds Standard				
water Quarty Wilcio	Exceeds Standard	Phys/Ch	em Exceeds Standard	CofA/Order Exc	eeds Limit				
Indicator of Adverse Water Qu			Details:	(M	ain l				
observations or test result; no associ		n)	No Water Pressure (Maur)						
Oral Notification to SPILLS ACT	Oral Notification to SPILLS ACTION CENTRE								
Date Dec11/03 Tim	me 7.30	AWQI Not	ification No (s) 21353	3					
Person Contacted			DWS EMERGENCY CON						
DWS Name Chesterville	*	Name Dave Ma	nkell						
DWS (Waterworks) # 21000	0729		Name Dave Ma Position Process 7	Tech					
DWS Person Providing Oral Notifice	ation	Phone # (613) 449-30	93 Fax # (613) HB 1416					
Oral Notification to MEDICAL O	FFICER OF HEA	LTH	CORRECTIVE ACTION(S	S) TAKEN BY OWN	ER:				
Date Dec 11/03 Til	me 7 29		Resample/Re-test		Yes□No				
Person Contacted	7		Disinfectant Restored/ Increa	ased	Yes□No				
Liare			Flushing Mains/Pipes						
Position Answering Ser	vice		Users Advised to Boil/Seek A	Alternate]Yes ⊠No				
Phone # (800) 267-7120 Fax	x#(613)933-	79 30	OTHER - Describe:						
DWS Person Providing Oral Notifica									
Initial DWS Notification Prepared	by:		Other information attached	<u>.</u>					
Signature Cave Mak	Ind		Date Dec 11/03	ζ	-				
SECTION 2 (b) - NOTICE OF	ISSUE RESOLU	TION Se	ct. 16-9 O Reg. 170/03						
Date Resolved: Dec 15/0	<u>`</u>	Date Reso	lution Notice Provided:	u 15/03					
Summary of Action Taken and Re									
- All water ma	m era	is fl	ushed.	,					
- All water ma - System barrol	les colle	ted	to results a	ttached.					
		_							
Prepared By: Dave Man	kull si	gnature	we Norted	Date:	1/03				
For Ministry Use Only:			Report No.						



Environmental Laboratories

(Division of Caduceon Enterprises Inc.)

C.O.C.: c-00285

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-13753

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 Attention: Dave Markell

DATE SUBMITTED: 12-Dec-03

DATE REPORTED: 15-Dec-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	E coli	Heterotrophic Plate Count	Free Chlorine	-
	Units:		cts/100mL	cts/100mL	cts/1mL	mg/L	
	M.D.L.:	M.D.L.: Reference Method: M Date Analyzed: 12		1	2		
	Reference Meth			MOE E3371	MOE E3371	n/a	
	Date Analyzed:			12-Dec-2003	12-Dec-2003	12-Dec-2003	
Client I.D.	Sample I.D.	Date Collected					
LCBO	B03-13753-1	11-Dec-03	< 1	< 1	< 2	1.16	
Public School	B03-13753-2	11-Dec-03	< 1	< 1	< 2	1.18	
Lannin's Garage	B03-13753-3	11-Dec-03	< 1	< 1	< 2	0.78	
5 Industrial Dr	B03-13753-4	11-Dec-03	< 1	< 1	< 2	1.14	

Lab Supervisor

M.D.L. = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.

Log for OCWA 613 448-1616 Dec 15 2003 4:27pm

Last Transaction									
<u>Date</u>	Time	Type	Identification	Duration	<u>Pages</u>	Result			
Dec 15	4:17pm	Fax Sent Fax Sent Fax Sent	1 800 268-6061 1 416 314-5455 1 613 933-7930	0:43 1:12 1:11	3 3 3	OK OK OK			

REPORT OF ANALYSIS

Client: CHESTERVILLE WELL SUPPLY

5 Industrial Drive Chesterville, ON K0C 1H0

Attention: Mr. Blair Henderson

Report Number:

2306770

Date:

2003-05-26

Date Submitted:

2003-05-13

Project:

P.O. Number:

Matrix:

Supply Water

LAB ID:				247866					GUIDELINE		
	Samp	le Date:	2003-05-12	2003-05-12							
	Sa	mple ID:	CW-01	CW-SYSTEM				MOE REG 459/00			
									021120 100/		
PARAMETER	UNITS	MDL	TREATED	DISTRIBUTION		<u> </u>		TYPE	LIMIT	UNITS	
TABLE B COMPOUNDS (VOCs)	UNITS	MIDE	INEATED	DISTRIBUTION		 	<u> </u>	11,5	<u> </u>	ONITS	
1,1-dichloroethylene	ug/L	0.5	<0.5					MAC	14	ug/L	
1.2-dichlorobenzene	ug/L	0.4	<0.4				Į	MAC	200	ug/L	
1,2-dichloroethane	ug/L	0.7	<0.7]				IMAC	5	ug/L	
11.4-dichlorobenzene	ug/L	0.4	<0.4					MAC	5	ug/L	
Benzene	ug/L	0.5	<0.5			i		MAC	5	ug/L	
Carbon Tetrachloride	ug/L	0.9	<0.9	1				MAC	5	ug/L	
Dichloromethane	ug/L	4.0	<4.0			1		MAC	50	ug/L	
Ethylbenzene	ug/L	0.5	<0.5					AO	2.4	ug/L	
Monochlorobenzene	ug/L	0.2	<0.2					MAC	80	ug/L	
Tetrachloroethylene	ug/L	0.3	<0.3					MAC	30	ug/L	
Toluene	ug/L	0.5	<0.5			1		AO	24	ug/L	
Trichloroethylene	ug/L	0.3	<0.3			1		MAC	50	ug/L	
Vinyl Chloride	ug/L	0.5	<0.5		1	1	1	MAC	2	ug/L	
Bromodichloromethane	ug/L	0.3	2.9	3.3		1		<u> </u>		_	
Bromoform	ug/L	0.4	<0.4	<0.4	ĺ	1		Ĭ	1	1	
Chloroform	ug/L	0.5	4.5	6.9				ľ			
Dibromochloromethane	ug/L	0.3	1.3	1.5			1			Į	
Trihalomethanes (total)	ug/L	2.0	8.7	11.7)	1		MAC	100	ug/L	
m/p-xylene	ug/L	1.0	<1.0	1				1	ì	ł	
o-xylene	ug/L	0.5	<0.5			1					
Xylene; total	ug/L	2.0	<2.0	ļ			ļ	AO	300	mg/L	
TABLE B SURROGATES			i					<u> </u>	}	1	
Toluene-d8	%		103	108		1	}	{	1	1	
4-bromofluorobenzene	%		99					li .	1		
1,2-dichloroethane-d4	%		103]				
		1	\		}	1	}	}		}	
					1						
	_L		<u> </u>	L	l	<u> </u>				L	

MDL = Method Detection Limit NC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration Comment:

APPROVAL:

Mina Nasirai

Organic Lab Supervisor

ACCUTEST LABORATORIES LTD

REPORT OF ANALYSIS

Client: CHESTERVILLE WELL SUPPLY

5 Industrial Drive Chesterville, ON

K0C 1H0

Attention: Mr. Blair Henderson

Report Number:

2306770

Date:

2003-05-26

Date Submitted:

2003-05-13

Project:

P.O. Number:

Matrix:

Supply Water

			matrix. Supply Water							
	LAB (C	247865					GUIDELINE			
	Sample Date	: 2003-05-12								
	Sample II): CW-01					MOE REG 459/00			
							141	OL NEO 405/	00	
	· · · · · · · · · · · · · · · · · · ·									
PARAMETER	UNITS MDI						TYPE	LIMIT	UNITS	
N-NO2 (Nitrite)	mg/L 0.10		1 1				MAC	1.0	mg/L	
N-NO3 (Nitrate)	mg/L 0.10	<0.10	}				MAC	10.0	mg/L	
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MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration Comment:

APPROVAL:

Ewan McRobbie

Inorganic Lab Supervisor

ACCUTEST LABORATORIES LTD

REPORT OF ANALYSIS

Client: CHESTERVILLE W. SUPPLY

5 Industrial Drive Chesterville, ON K0C 1H0

Attention: Mr. Blair Henderson

Report Number:

2313358

Date: Date Submitted:

2003-08-29 2003-08-27

Project:

P.O. Number:

Matrix:

Supply Water

					Matrix: Supply Water					
		LAB ID:	268508						GUIDELINE	
	Samp	le Date:	2003-08-26							-
	Sai	mple ID:	Chesterville	Chesterville				MOE REG 170/03		
			Dist Sewage Pump					WICE NEG 170/03		
PARAMETER	UNITS	MDL	DISTRIBUTION					TYPE	LIMIT	UNITS
VOLATILE ORGANIC COMPOUNDS - VOCs		1	Biolitica					<u> </u>		Ollito
Bromodichloromethane	ug/L	0.3	3.4							
Bromoform	ug/L	0.4	<0.4		1	Ì	1		·	
Chloroform	ug/L	0.5	7.1							
Dibromochloromethane	ug/L	0.3					}	ļ		
Trihalomethanes (total)	ug/L	2.0	129 0		l	Ţ		MAC	100	ug/L
VOC SURROGATES	-3.2								'55	""
Toluene-d8	%		98							
			1		}	}	1	ì	1	
				-						
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MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration Comment:

> APPROVAL: Mina Nasirai

> > Organic Lab Supervisor

ACCUTEST LABORATORIES LTD

REPORT OF ANALYSIS

Client: CHESTERVILLE W. SUPPLY

5 Industrial Drive Chesterville, ON K0C 1H0

Attention: Mr. Blair Henderson

Report Number:

2313358

Date:

2003-08-29

Date Submitted:

2003-08-27

Project:

P.O. Number:

Matrix:

Supply Water

							Matrix:		Supply Wate	<u>' </u>	
		LAB ID:	268507						GUIDELINE		
	Samp	le Date:	2003-08-26						-		
	Sar	nple ID:	Chesterville			}		MOE REG 170/03			
			Reservoir								
PARAMETER	UNITS	MDL	TREATED					TYPE	LIMIT	UNITS	
N-NO2 (Nitrite)	mg/L	0.10	<0.10	-				MAC	1.0	mg/L	
N-NO3 (Nitrate)	mg/L	0.10	<0.10					MAC	10.0	mg/L	
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MOLENATION Detection limit (NO placements AQ A actually Objects	1	L	<u> </u>		1	L	<u> </u>	L	<u> </u>		

MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration Comment:

APPROVAL:

Ewan McRobbje

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:

gtario Clean Water Agency

idustrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Report:

230000131

Project:

Date Sampled:

Date Received: Date Printed:

Chesterville WTP January 6, 2003 January 7, 2003

January 09, 2003

Matrix:

Drinking Water

	Parameter	Background	E. coli	Free CI2	НРС	тс	Total Cl2		
	Unit	/100mL	/100mL	mg/L	/mL	/100mL	mg/L		
Sample ID	MDL	1	1	0.05	2	1	0.05		
Well #5 Raw		absent	absent			absent			
Well #5 Treated			absent	1.18	4	absent	1.21		
Dist. MacEwen Fue	els		absent	1.12	absent	absent	1.15		
Dist. Liquor Store			absent	1.10		absent	1.15		
Dist. Sewage Pump	o Stn #1		absent	1.00		absent	1.10		

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency dustrial Dr.

Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230000447

Project:

Chesterville WTP

Date Sampled: Date Received: January 13, 2003 January 14, 2003

Date Printed:

January 14, 2003 January 16, 2003

Matrix:

Drinking Water

	Parameter	Background	E. coli	Free Cl2	HPC	тс	Total Cl2
	Unit	/100mL	/100mL	mg/L	/mL	/100mL	mg/L
Sample ID	MDL	1	1	0.05	2	1	0.05
Well # 5 Raw		absent	absent			absent	
Well # 5 Treated			absent	1.24	8	absent	1.25
Dist. St. Mary's Scho	ool		absent	1.20	124	absent	1.30
Dist. Public School			absent	1.10		absent	1.20
Dist. Community Ca	ntre		absent	1.10		absent	1.20

Division of Caduceon Enterprises Inc.

Client:

stario Clean Water Agency Industrial Dr.

Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230000764

Project:

nlod:

Chesterville WTP January 20, 2003

Date Sampled: Date Received: Date Printed:

January 20, 2003 January 21, 2003 January 23, 2003

Matrix:

Drinking Water

	Parameter	Background	E. coli	Free CI2	НРС	тс	Total Cl2
	Unit	/100mL	/100mL	mg/L	/mL	/100mL	mg/L
2 1 12	MDL	1	1	0.05	2	1	0.05
Sample ID							
Well #5 Raw		1	absent			absent	
Well #5 Treated			absent	1.09	absent	absent	1.14
V. 5.1. // 5 1.1 5			abbont	1.00	ubsont	absent	1.14
Dist. Stinsons			absent	1.10	absent	absent	1.20
Dist. S.P.S			absent	0.90		absent	1.10
Dist. 5 Industrial Dr.			absent	1.20		absent	1.30

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:

tario Clean Water Agency

Adustrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Report:

230001077

Project:

Date Sampled:

January 27, 2003 January 28, 2003

Date Received:
Date Printed:

January 28, 2003 January 30, 2003

Chesterville WTP

Matrix:

Drinking Water

	Parameter	Background	E. coli	Free CI2	НРС	тс	Total CI2	
	Unit	/100mL	/100mL	mg/L	/mL	/100mL	mg/L	
Samula ID	MDL	1	1	0.05	2	1	0.05	
Sample ID								
Well # 5 Raw		absent	absent			absent		
					•			
Well # 5 Treated			absent	0.94	absent	absent	0.98	
Dist. MacEwen Gas			absent	1.00	absent	absent	1.10	
Dist. Wackwell Cas			absent	1.00	absent	absent	1.10	
Dist. Kick Boxing			absent	0.90		absent	1.00	
Dist. Public School			absent	1.00		absent	1.10	

(

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230001153

Project:

Chesterville WTP

Date Sampled:

January 28, 2003

Date Received:
Date Printed:

January 29, 2003 January 30, 2003

Matrix:

Drinking Water

Parameter	Unit	MDL	Sample Identification
			Well #5 Raw Stand By Well
E. coli	/100mL	1	absent
Background bacteria	/100mL	1	absent
Total Coliforms	/100mL	1	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr.

Chesterville, ON

K0C 1H0

Parameter

Attention: Dave Markell

Markell Unit

MDL

Certificate of Analysis

Report:

230001373

Project:

Chesterville WTP

Date Sampled:

February 3, 2003

Date Received: Date Printed: February 4, 2003 February 06, 2003

Matrix:

Drinking Water

			Well #5 Raw	Well #5 Treated, Lot 12, Con 5	Dist. MacEwen Fuel Riverside	Dist. Curran's Auto	Dist. LCBO	Dist. Stand-by Well (Raw)
Total Chlorine	mg/L	0.05		1.11	1.10	1.10	1.10	
Free Chlorine	mg/L	0.05		1.06	1.00	1.00	1.00	
E. coli	/100mL	1	absent	absent	absent	absent	absent	absent
HPC	/mL	2		absent	absent			
Background bacteria	/100mL	1	absent					absent
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON

K0C 1H0 Attention:

Dave Markell

Certificate of Analysis

Report:

230001693

Project:

Date Sampled:

Chesterville WTP February 10, 2003

Date Received:

February 11, 2003

Date Printed: Matrix:

April 22, 2003 **Drinking Water**

Unit MDL Sample Identification **Parameter**

			Well #6 Raw	Well #5 Treated	Dist. St. Mary's Catholic	Dist. 5 Industrial	Dist. D&D Auto	Stand-by Well
Total Chlorine	mg/L	0.05		1.14	1.50	1.44	1.30	
Free Chlorine	mg/L	0.05		1.06	1.40	1.20	1.40	
E. coli	/100mL	1	absent	absent	absent	absent	absent	absent
HPC	/mL	2		absent	absent			
Background bacteria	/100mL	1	1					
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON

K0C 1H0

Parameter

Attention:

Dave Markell Unit

MOL

Certificate of Analysis

Report:

230002037

Project:

Chesterville WTP

Date Sampled: Date Received: February 17, 2003 February 18, 2003

Date Printed:

February 20, 2003

Matrix:

Drinking Water

			=					
			Well #5 Raw	Well #5 Treated	Dist. LCBO	Dist. Post Office	Dist. Chestervill e PS	Stand by Well
Total Chlorine	mg/L	0.05		0.81	1.15	1.18	1.13	
Free Chlorine	mg/L	0.05		0.79	1.03	1.08	1.03	
E. coli	/100mL	1	absent	absent	absent	absent	absent	absent
HPC	/mL	2		absent	2			
Background bacteria	/100mL	1	absent					2
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent	absent

Unit

MDL

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr.

Chesterville, ON

K0C 1H0

Parameter

Attention: Dave Markell

Certificate of Analysis

Report:

230002330

Project:

Chesterville WTP

Date Sampled:

February 24, 2003

Date Received: Date Printed:

February 25, 2003 February 27, 2003

Matrix:

Drinking Water

			Well #5 Raw	Well #5 Treated	Dist. Arena	Dist. St. Mary's School	Dist. SPS River Rd.	Stand By Well
Total Chlorine	mg/L	0.05		1.03	0.93	0.79	0.81	
Free Chlorine	mg/L	0.05		0.88	0.90	0.74	0.72	
E. coli	/100mL	1	absent	absent	absent	absent	absent	absent
HPC	/mL	2		2	absent			
Background bacteria	/100mL	1	absent					absent
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent	absent

Sample identification

Tel: (613)526-0123; Fax: (613)526-1244

Krystyna Pipin, Laboratory Supervisor

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230002641

Project:

March 3, 2003

Date Received: Date Printed:

Date Sampled:

March 4, 2003

Chesterville WTP

Matrix:

March 12, 2003

Dr	in	kir	ng	W	at

Parameter	Unit MDL		Sample Id	fentification				
			Well #5 Raw	Well #5 Treated	Dist. McEwen Petro	Dist. Canada Post	Dist. 5 Industrial	Stand By Pump Well #5
Total Chlorine	mg/L	0.05		1.20	1.00	0.90	1.00	
Free Chlorine	mg/L	0.05		1.10	1.00	0.90	1.00	
E. coli	/100mL	1	absent	absent	absent	absent	absent	absent
HPC	/mL	2		absent	150			
Background bacter	cia /100mL	1	1					absent
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

230002987

Project:

ect:

Chesterville WTP

Date Sampled:

March 10, 2003

Date Received:

March 11, 2003

Date Printed: Matrix: March 13, 2003

Drinking Water

						-	
			Well #5 - Raw	Well #5 - Treated	Dist. MB Foster	Dist. LCBO	Dist. D&D Auto
Total Chlorine	mg/L	0.05		1.31	1.16	1.26	1.07
Free Chlorine	mg/L	0.05		1.15	1.18	1.24	1.09
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		absent	2		
Background bacteria	/100mL	1	absent				
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

ario Clean Water Agency

dustrial Dr. onesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230003038

Project:

Chesterville WTP

Date Sampled:

March 11, 2003

Date Received: Date Printed:

March 12, 2003 March 14, 2003

Matrix:

Drinking Water

Unit MDL **Parameter**

Stand By Well #5

Sample Identification

/100mL absent E. coli

/100mL absent Background bacteria

Total Coliforms /100mL absent 1

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230003265

Project:

Chesterville WTP

Date Sampled:

March 17, 2003

Date Received:

March 18, 2003

Date Printed:

March 20, 2003

Matrix:

Drinking Water

Parameter	Unit	MDL		Sample Identification				
				Well #5 Raw	Well #5 Treated	Dist. St. Mary's School	Dist. McEwen Gas Bar	Dist. 43 Mill St.
Total Chlorine		mg/L	0.05		1.00	0.90	0.90	0.80
Free Chlorine		mg/L	0.05		0.95	0.90	0.90	0.70
E. coli		/100mL	1	absent	absent	absent	absent	absent
HPC		/mL	2		absent	2		
Background bacteri	.a	/100mL	1	absent				
Total Coliforms		/100mL	1	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

ario Clean Water Agency

dustrial Dr. Criesterville, ON KOC 1H0

Total Coliforms

Attention:

Dave Markell

Certificate of Analysis

Report:

230003264

Project:

Chesterville WTP

Date Sampled:

March 17, 2003

Date Received: Date Printed:

March 18, 2003 March 20, 2003

Matrix:

Drinking Water

Parameter	Unit	MDL	Sample Identification
			Stand By Well Raw
E. coli	/100mL	1	absent
Background bacteria	/100mL	1	absent

/100mL

absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

230003598

Project:

Chesterville WTP

Date Sampled:

March 24, 2003

Date Received:

March 25, 2003

Date Printed:

March 27, 2003

Matrix:

Drinking Water

			Well #5 Raw	Well #5 Treated	Dist. Post Office	Dist. St. Mary's School	Dist. LCBO
Total Chlorine	mg/L	0.05		1.27	1.13	1.21	1.17
Free Chlorine	mg/L	0.05		1.21	0.99	1.17	1.01
E. coli	/100mL	1	4	absent	absent	absent	absent
HPC	/mL	2		4	4		
Background bacteria	/100mL	1	4				
Total Coliforms	/100mL	1	4	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

dustrial Dr. Sesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230003599

Project:

Project:

Chesterville WTP March 24, 2003

Date Sampled: Date Received: Date Printed:

March 25, 2003 March 26, 2003

Matrix:

Drinking Water

Parameter	Unit	MDL	Sample Identification
			Stand By Well Raw
E. coli	/100mL	1	absent
Background bacteria	/100mL	1	absent
Total Coliforms	/100mL	1	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:
Parameter

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

230003990

Project:

Chesterville WTP

. rojec

March 31, 2003

Date Sampled: Date Received:

April 1, 2003

Date Printed:

April 03, 2003

Matrix:

Drinking Water

			Sample Identification				
			Well #5 - Raw	Well #5 - Treated	Dist. 232 Queen St. W.	Dist. 13347 Forward Rd.	Dist. Co-op King St.
Total Chlorine	mg/L	0.05		1.15	0.80	1.00	0.90
Free Chlorine	mg/L	0.05		1.13	0.70	1.00	0.90
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		4	4		
Background bacteria	/100mL	1	absent				
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

ario Clean Water Agency dustrial Dr.

Chesterville, ON K0C 1H0

Parameter

Attention: Dave Markell

Certificate of Analysis

Report:

230003988

Project:

Chesterville WTP

Date Sampled: Date Received:

March 31, 2003 April 1, 2003

Date Printed:

April 1, 2003 April 03, 2003

Matrix:

Drinking Water

Sample Identification

Raw

E. coli /100mL 1

absent

Background bacteria /100mL

absent

Total Coliforms

/100mL

Unit

MDL

1

1

absent

Tel: (613)526-0123, Fax: (613)526-1244

Krystyna Pipin, Laborato y Supervisor



Ontario Clean Water Agency

Chesterville, ON 5 Industrial Dr.

K0C 1H0

Attention:

Parameter

Dave Markell

MDL

Date Received: Date Sampled: Date Printed: Report: **Project**:

Chesterville WTP 230004338

April 7, 2003 April 8, 2003

Matrix:

Drinking Water April 10, 2003

Sample Identification

Stand By Well Raw absent absent Dist. ESSO Gas Bar absent absent 1.00 1.00 Dist. SPS #1 absent absent 0.90 1.00 Joseph St. Dist. 37 absent absent absent 1.00 1.00 Well #5 Treated absent absent absent 1.10 1.00 Well #5 Raw absent absent absent 0.05 0.05 /100mL /100mL /100mL mg/L mg/L /mI Background bacteria Total Coliforms Total Chlorine Free Chlorine E. coli HPC

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention: Parameter **Dave Markell**

Unit

MDL

Certificate of Analysis

Report:

230004782

Project:

Chesterville WTP

Date Sampled:

April 14, 2003

Date Received: Date Printed: April 15, 2003

Matrix:

April 17, 2003 Drinking Water

			Well #5 Raw	Well #5 Treat e d	Dist. Mackewen	Dist. MB Foster & Ass.	Dist. 5 Industrial Dr.
Total Chlorine	mg/L	0.05		1.41	1.60	1.39	1.27
Free Chlorine	mg/L	0.05		1.29	1.50	1.38	1.21
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		absent	absent		
Background bacteria	/100mL	1	absent				
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

<u>ex</u>tario Clean Water Agency

dustrial Dr. Silesterville, ON

K0C 1H0
Attention:

Parameter

Dave Markell

Certificate of Analysis

Report:

230004780

Project:

Chesterville WTP

Date Sampled:

April 14, 2003

Date Received:
Date Printed:

April 15, 2003 April 17, 2003

Matrix:

Drinking Water

Sample Identification

Stand By Well

Raw

E. coli /100mL

1 absent

Background bacteria

/100mL 1

1

MDL.

3

Total Coliforms

/100mL

Unit

absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada

Tel: (613)526-0123, Fax: (613)526-1244

Krystyna Pipin, Laboratory Supervisor

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230005153

Project:

riojeci.

Date Sampled:

Date Received:

Date Printed:

Matrix:

Chesterville WTP

April 22, 2003

April 23, 2003 April 25, 2003

Drinking Water

Parameter	Unit MDL		Sample Id	Sample Identification					
			Well #5 Raw	Well #5 Treated	Dist. LCBO	Dist. McEwen Convie	Dist. Separate School	Stand By Well	
Total Chlorine	mg/L	0.05		1.41	1.29	1.30	1.32		
Free Chlorine	mg/L	0.05		1.29	1.20	1.24	1.26		
E. coli	/100mL	1	absent	absent	absent	absent	absent	absent	
HPC	/mL	2		2	absent				
Background bacteri	a /100mL	1	absent					absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent	absent	

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

230005372

Project:

Chesterville WTP

Date Sampled:

April 28, 2003

Date Received:

April 28, 2003

Date Printed:

April 30, 2003

Matrix:

Drinking Water

			Well #5 Raw	Well #5 Treated	Dist. M&T Advertising	Dist. Post Office	Dist. D&D Automotive
Total Chlorine	mg/L	0.05		1.24	1.24	1.07	1.05
Free Chlorine	mg/L	0.05		1.19	1.14	1.02	0.98
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		absent	2		
Background bacteria	/100mL	1	absent				
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

atario Clean Water Agency

dustrial Dr. Snesterville, ON K0C 1H0

Total Coliforms

Attention:

Dave Markell

Certificate of Analysis

Report:

230005379

Project:

Chesterville WTP

Date Sampled:

April 28, 2003

Date Received:

April 28, 2003

Date Printed:

April 30, 2003

Matrix:

Drinking Water

	Parameter	Unit	MDL	Sample Identification
				Stand By Well - Raw
3	E. coli	/100mL	1	absent
1	Background bacteria	/100mL	1	absent

/100mL

absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

230005780

Project:

Chesterville WTP

Date Sampled:

May 5, 2003

Date Received:

May 5, 2003

Date Printed:

May 07, 2003

Matrix:

Drinking Water

								
			Well #5 - Raw	Well #5 - Treated	Dist. 61 Albert St.	Dist. Elevated Tank	Dist. 232 Queen St. W.	Stand By Well
Total Chlorine	mg/L	0.05		1.20	1.10	1.05	1.10	
Free Chlorine	mg/L	0.05		1.10	0.90	1.00	0.90	
E. coli	/100mL	1	absent	absent	absent	absent	absent	absent
ньс	/mL	2		2	absent			
Background bacteria	/100mL	1	absent					absent
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent	absent



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3278

Rev. 3

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 **Attention:** Dave Markell

DATE SUBMITTED: 13-May-03

DATE REPORTED: 22-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO.: 210000728

			Client ID:		Well #5 Raw	Well # 5 reated ot 12 Conc 5 Hwy 43 Chesterville	St. Mary's School	Chesterville SPS
			Sample ID:		B03-3278-1	B03-3278-2	B03-3278-3	B03-3278-4
			Date Collecte	d:	12-May-03	12-May-03	12-May-03	12-May-03
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Free Chlorine	ppm			13-May-03		1.3	1.2	1.1
Total Chlorine	ppm			13-May-03		1.3	1.3	1.1
Total Coliform	cts/100mL	1	MOE E3371	13-May-03	<1	< 1	< 1	< 1
Background	cts/100mL	1	MOE E3371	13-May-03	< 1			
E coli	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1	< 1	< 1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	13-May-03		< 2	< 2	

Krystyna Pipin, N. Sc.

Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3278

Rev. 3

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 13-May-03

DATE REPORTED: 22-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO.: 210000728

			Client ID:		5 Industrial Drive	Standby Well		
			Sample ID:		B03-3278-5	B03-3278-6		
			Date Collected	d :	12-May-03	12-May-03		1
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Free Chlorine	ppm	300		13-May-03	1.2	- -		3
Total Chlorine	ppm			13-May-03	1.3			***************************************
Total Coliform	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1		
Background	cts/100mL	1	MOE E3371	13-May-03		< 1	The second secon	
E coli	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	13-May-03			, a	

Krystyna Pipin, N. Sc.

Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Reports

REPORT No. B03-3278 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 13-May-03

DATE REPORTED: 15-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO.: 210000728

			Client ID:		Well #5 Raw	Well # 5 reated ot 12 Conc 5 Hwy 43 Chesterville	St. Mary's School	Chesterville SPS
			Sample ID:		B03-3278-1	B03-3278-2	B03-3278-3	B03-3278-4
			Date Collected:		12-May-03	12-May-03	12-May-03	12-May-03
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1	< 1	< 1
Background	cts/100mL	1	MOE E3371	13-May-03	<1			
E coli	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1	< 1	<1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	13-May-03		< 2	< 2	

No cla cecipi

Krystyna Pipin, M.

Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Reports

REPORT No. B03-3278 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 Attention: Dave Markell

DATE SUBMITTED: 13-May-03

DATE REPORTED: 15-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO.: 210000728

			Client ID:		5 Industrial Drive	Standby Well		
			Sample ID:		B03-3278-5	B03-3278-6		
			Date Collected:		12-May-03	12-May-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1		
Background	cts/100mL	1	MOE E3371	13-May-03	-	< 1		
E coli	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1	····	
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	13-May-03	-			

Jo Decid S

Krystyna Pipin, M. Sc.

Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3554

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 Attention: Dave Markell

DATE SUBMITTED: 21-May-03

DATE REPORTED: 23-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO.: 210000728

			Client ID:		Well #5 Raw	Well #5 Treated - Lot	Well #1	Water Tower
						12, Conc. 5, Hwy 43, Chest.		
			Sample ID:		B03-3554-1	B03-3554-2	B03-3554-3	B03-3554-4
			Date Collecte	d:	20-May-03	20-May-03	20-May-03	20-May-03
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	21-May-03	< 1	< 1	< 1	< 1
Background	cts/100mL	1	MOE E3371	21-May-03	< 1			
- coli	cts/100mL	1	MOE E3371	21-May-03	< 1	< 1	< 1	< 1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	21-May-03		< 2	< 2	
Total Chlorine	mg/L			21-May-03		1.2	0.8	1.2
Free Chlorine	mg/L			21-May-03		1.2	0.7	1.1

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3554

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 21-May-03

DATE REPORTED: 23-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO.: 210000728

			Client ID:		MacEwen Petro.	Stand By Well Raw		
			Sample ID:		B03-3554-5	B03-3554-6		
			Date Collected	j:	20-May-03	20-May-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	21-May-03	< 1	< 1		
Background	cts/100mL	1	MOE E3371	21-May-03		< 1		
E coli	cts/100mL	1	MOE E3371	21-May-03	< 1	< 1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	21-May-03		The state of the s	Total Control of the	
otal Chlorine	mg/L			21-May-03	1.1			
Free Chlorine	mg/L			21-May-03	1.1			

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3686

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 27-May-03

DATE REPORTED: 29-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

			Client ID:		Well #5 - Raw Water	Well #5 - Treated	Chesterville LCBO	DOT Automotive
			Sample ID:		B03-3686-1	B03-3686-2	B03-3686-3	B03-3686-4
			Date Collected	d:	26-May-03	26-May-03	26-May-03	26-May-03
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	27-May-03	< 1	< 1	< 1	< 1
Background	cts/100mL	1	MOE E3371	27-May-03	< 1			
E coli	cts/100mL	1	MOE E3371	27-May-03	<1	< 1	< 1	< 1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	27-May-03		< 2	4	
otal Chlorine	mg/L			27-May-03		1.4	1.4	1.3
Free Chlorine	mg/L			27-May-03		1.3	1.3	1.2





(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3686

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 27-May-03

DATE REPORTED: 29-May-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

			Client ID:		Foster Computing	Stand By Well		
			Sample ID:		B03-3686-5	B03-3686-6		
			Date Collecte	d:	26-May-03	26-May-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	27-May-03	< 1	< 1		
Background	cts/100mL	1	MOE E3371	27-May-03		< 1		
E coli	cts/100mL	1	MOE E3371	27-May-03	< 1	< 1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	27-May-03		-	The state of the s	
otal Chlorine	mg/L			27-May-03	1.3			
Free Chlorine	mg/L			27-May-03	1.3			



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3878

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 03-Jun-03

DATE REPORTED: 05-Jun-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

			Client ID:		Well #5 Raw	Well #5 Treated	37 Main St	Public School
			Sample ID:		B03-3878-1	B03-3878-2	B03-3878-3	B03-3878-4
			Date Collected	d:	02-Jun-03	02-Jun-03	02-Jun-03	02-Jun-03
Parameter	Units	M.D.L.	Reference Method	Date Analyzed			-	
Total Coliform	cts/100mL	1	MOE E3371	03-Jun-03	< 1	< 1	< 1	<1
Background	cts/100mL	1	MOE E3371	03-Jun-03	7			
E coli	cts/100mL	1	MOE E3371	03-Jun-03	< 1	< 1	< 1	< 1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	03-Jun-03		< 2	< 2	
ree Chlorine	mg/L			03-Jun-03		1.4	1.3	1.3
Total Chlorine	mg/L			03-Jun-03		1.4	1.3	1.3

Krystyna Pipin M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3878

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 03-Jun-03

DATE REPORTED: 05-Jun-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

			Client ID:		5 Industrial Dr		
			Sample ID:		B03-3878-5		
			Date Collected	d:	02-Jun-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed			
Total Coliform	cts/100mL	1	MOE E3371	03-Jun-03	< 1		
Background	cts/100mL	1	MOE E3371	03-Jun-03			
E coli	cts/100mL	1	MOE E3371	03-Jun-03	<1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	03-Jun-03			
ree Chlorine	mg/L			03-Jun-03	1.3		
Total Chlorine	mg/L			03-Jun-03	1.3		

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4122

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 10-Jun-03

DATE REPORTED: 12-Jun-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

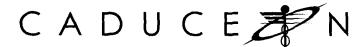
Chesterville WTP

WATERWORKS NO. 210000728

			Client ID:			Well #5 Treated	Chesterville Legion	MacEwen Service Centre
			Sample ID:		B03-4122-1	B03-4122-2	B03-4122-3	B03-4122-4
			Date Collecte	d:	09-Jun-03	09-Jun-03	09-Jun-03	09-Jun-03
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	10-Jun-03	< 1	< 1	< 1	< 1
Background	cts/100mL	1	MOE E3371	10-Jun-03	< 1			
E colí	cts/100mL	1	MOE E3371	10-Jun-03	< 1	< 1	< 1	<1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	10-Jun-03		< 2	< 2	
Free Chlorine	mg/L		n/a	10-Jun-03		1.3	1.3	1.2
Total Chlorine	mg/L		n/a	10-Jun-03		1.4	1.4	1.3

NDL = Method Detection Limit

ystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4122

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

Dave Marken

DATE SUBMITTED: 10-Jun-03
DATE REPORTED: 12-Jun-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

			Client ID:		Chesterville Public Library		
			Sample ID: Date Collected:		B03-4122-5		
					09-Jun-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed			
Total Coliform	cts/100mL	1	MOE E3371	10-Jun-03	< 1		
Background	cts/100mL	1	MOE E3371	10-Jun-03			
E coli	cts/100mL	1	MOE E3371	10-Jun-03	<1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	10-Jun-03	-	The second secon	
ree Chlorine	mg/L		n/a	10-Jun-03	1.3		
Total Chlorine	mg/L		n/a	10-Jun-03	1.3		

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4332

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 17-Jun-03

DATE REPORTED: 19-Jun-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		17-Jun-03	17-Jun-03	17-Jun-03	17-Jun-03	17-Jun-03
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-4332-1	16-Jun-03	< 1	< 1	< 1		
Well #5 Treated	B03-4332-2	16-Jun-03	< 1		< 1	< 2	1.4
St.Mary's	B03-4332-3	16-Jun-03	< 1	••	< 1	2	1.3
ncEwen Gas	B03-4332-4	16-Jun-03	< 1	**	< 1		1.3
69 East South St	B03-4332-5	16-Jun-03	< 1		< 1		1.2

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4332

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 17-Jun-03

DATE REPORTED: 19-Jun-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Chlorine		
	Units:		mg/L		
	MDL:				
	Reference Meth	nod:	n/a		1 -
	Date Analyzed:		17-Jun-03		
Client I.D.	Sample I.D.	Date Collected			
Well #5 Raw	B03-4332-1	16-Jun-03			
Well #5 Treated	B03-4332-2	16-Jun-03			
St.Mary's	B03-4332-3	16-Jun-03			
IcEwen Gas	B03-4332-4	16-Jun-03	••		
69 East South St	B03-4332-5	16-Jun-03			

Krystyna Pipin↓M. Sc.



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Reports

REPORT No. B03-4516

Rev. 2

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 24-Jun-03

DATE REPORTED: 27-Jun-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2	
	Reference Meti	hod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		24-Jun-03	24-Jun-03	24-Jun-03	24-Jun-03	24-Jun-03
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-4516-1	23-Jun-03	< 1	130	< 1		
Well #5 Treated - Lot 12, Conc. 5, HWY 43	B03-4516-2	23-Jun-03	< 1		< 1	20	0.91
St. Mary's School	B03-4516-3	23-Jun-03	< 1		< 1	< 2	1.20
Post Office	B03-4516-4	23-Jun-03	< 1		< 1		1.14
D&D Performance	B03-4516-5	23-Jun-03	< 1		< 1		1.31

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4837

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 30-Jun-03

DATE REPORTED: 02-Jul-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	E coli	Background	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		01-Jul-03	01-Jul-03	01-Jul-03	01-Jul-03	01-Jul-03
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-4837-1	30-Jun-03	< 1	< 1	< 1		
Well #5 Treated - Lot12, Conc. 5, Hwy 43	B03-4837-2	30-Jun-03	<1	< 1		2	1.24
Public Pool	B03-4837-3	30-Jun-03	< 1	< 1	< 1	< 2	1.35
D&D Performance	B03-4837-4	30-Jun-03	< 1	< 1			1.31
Post Office	B03-4837-5	30-Jun-03	< 1	< 1			1.29

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-5174

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0

Attention: Dave Markell

DATE SUBMITTED: 08-Jul-03

DATE REPORTED: 10-Jul-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2	
	Reference Meth	od:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		08-Jul-03	08-Jul-03	08-Jul-03	08-Jul-03	08-Jul-03
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-5174-1	07-Jul-03	< 1	21	< 1		
Well #5 Treated - Lot 12 Conc.5, Hwy 43	B03-5174-2	07-Jul-03	< 1	~-	< 1	< 2	1.00
iquor Store	B03-5174-3	07-Jul-03	< 1		< 1	96	0.95
MacEwen	B03-5174-4	07-Jul-03	< 1		< 1		0.99
65 Harper	B03-5174-5	07-Jul-03	< 1		< 1		0.99

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-5482

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 **Attention:** Dave Markell

DATE SUBMITTED: 14-Jul-03

DATE REPORTED: 16-Jul-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123

Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		14-Jul-03	14-Jul-03	14-Jul-03	14-Jul-03	14-Jul-03
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-5482-1	14-Jul-03	< 1	< 1	< 1		
Well #5 Treated - Lot 12 Conc. 5 Hwy 43	B03-5482-2	14-Jul-03	< 1		< 1	< 2	1,16
el Albert Street	B03-5482-3	14-Jul-03	< 1		< 1	164	1.04
H. Curran 107, Main Street	B03-5482-4	14-Jul-03	< 1		< 1		1.06
Home Hardware, Industrial Drive	B03-5482-5	14-Jul-03	< 1		< 1		1.14

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-5840

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 22-Jul-03

DATE REPORTED: 24-Jul-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		22-Jul-03	22-Jul-03	22-Jul-03	22-Jul-03	22-Jul-03
Client I.D.	Sample I.D.	Date Collected					
Raw Well #5	B03-5840-1	21-Jul-03	< 1	< 1	< 1		
Well #5 Treated	B03-5840-2	21-Jul-03	< 1		< 1	<2	1.08
Fosters	B03-5840-3	21-Jul-03	< 1		< 1	< 2	0.94
7 Albert Street	B03-5840-4	21-Jul-03	< 1		< 1		0.94
_CBO	B03-5840-5	21-Jul-03	< 1		< 1		0.92

Krystyna Pipin M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6197

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 29-Jul-03

DATE REPORTED: 31-Jul-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2]
	Reference Mett	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		30-Jul-03	30-Jul-03	30-Jul-03	30-Jul-03	30-Jul-03
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-6197-1	28-Jul-03	< 1	< 1	< 1		
Well #5 Treated	B03-6197-2	28-Jul-03	< 1		< 1	< 2	1.50
BBL Main St	B03-6197-3	28-Jul-03	< 1		< 1	< 2	1.50
1 Riverside Drive	B03-6197-4	28-Jul-03	< 1		< 1		2.00
17 Ralph Street	B03-6197-5	28-Jul-03	< 1		< 1		1.50

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6487

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 06-Aug-03

DATE REPORTED: 12-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	1	2	
	Reference Meth	od:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		06-Aug-03	06-Aug-03	06-Aug-03	06-Aug-03	06-Aug-03
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-6487-1	05-Aug-03	< 1	2	< 1	T	
Well #5 Treated	B03-6487-2	05-Aug-03	< 1		< 1	< 2	1.25
Chesterville Pool	B03-6487-3	05-Aug-03	< 1	•-	<1	< 2	0.93
10 Queen Street	B03-6487-4	05-Aug-03	< 1		< 1		1.20
H. Curran Gas Station	B03-6487-5	05-Aug-03	< 1		< 1		1.15

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

.o.c.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6840

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 12-Aug-03

DATE REPORTED: 18-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	ie:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:		1	1	1	2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		12-Aug-2003	12-Aug-2003	12-Aug-2003	12-Aug-2003	12-Aug-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-6840-1	11-Aug-03	< 1	1	< 1		
Well #5 Treated, Lot 12 Conc. 5, HWY 43	B03-6840-2	11-Aug-03	<1		< 1	< 2	1.00
1 Albert Street	B03-6840-3	11-Aug-03	22		< 1	44	1.05
BBL Ltd. Main Street	B03-6840-4	11-Aug-03			< 1		1.08
LCBO Queen Street	B03-6840-5	11-Aug-03	< 1		< 1		1.04

Adverse

Greg Clarkin, BSc, C.Chem Lab Manager - Ottawa District

IDL = Method Detection Lim

The analytical results reported herein re

ecific tests.

I or in part is prohibited without prior written consent from



(Division of Caduceon Enterprises Inc.)

.o.c.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6964

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

DATE SUBMITTED: 13-Aug-03

DATE REPORTED: 19-Aug-03
SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	ie:	Total Coliform	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:		1	1	2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		13-Aug-2003	13-Aug-2003	13-Aug-2003	19-Aug-2003
Client I.D.	Sample I.D.	Date Collected				
17 Albert Street	B03-6964-1	13-Aug-03	< 1	< 1	< 2	1.13
Post Office, Queen Street	B03-6964-2	13-Aug-03	< 1	< 1		1.09
61 Albert Street	B03-6964-3	13-Aug-03	< 1	< 1		1.24

IDL = Method Detection Limit

tyria Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

70.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7220

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

DATE SUBMITTED: 16-Aug-03

DATE REPORTED: 20-Aug-03

SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.:

P.O. NUMBER: Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	E coli	Heterotrophic Plate Count	Free Chlorine
	Units: M.D.L.:		cts/100mL	cts/100mL	cts/1mL	mg/L
			1		2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:	Date Analyzed:		16-Aug-2003	16-Aug-2003	16-Aug-2003
Client I.D.	Sample I.D.	Date Collected				
Post Office	B03-7220-1	15-Aug-03	< 1	< 1	10	1.25
61 Albert Street	B03-7220-2	15-Aug-03	< 1	< 1		1.40
eckers	B03-7220-3	15-Aug-03	< 1	< 1		1.29

larkin, BSc, C.Chem

Lab Manager - Ottawa District



(Division of Caduceon Enterprises Inc.)

.o.c.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7179

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 19-Aug-03

DATE REPORTED: 21-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli cts/100mL	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL		cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1	1	2	1
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		19-Aug-2003	19-Aug-2003	19-Aug-2003	19-Aug-2003	19-Aug-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-7179-1	18-Aug-03	< 1	< 1	< 1		
Well #5 Treated - Lot 12, Conc.5, Hwy 43	B03-7179-2	18-Aug-03	<1	-	< 1	<2	1.10
1 Albert Street	B03-7179-3	18-Aug-03	< 1		< 1	< 2	1.10
Chesterville Pool	B03-7179-4	18-Aug-03	< 1		< 1		1.20
H. Curran Automotive	B03-7179-5	18-Aug-03	< 1		< 1		0.94

Greg Clarkin, BSc, C.Chem Lab Manager - Ottawa District



(Division of Caduceon Enterprises Inc.)

.o.c.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7266

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 20-Aug-03

DATE REPORTED: 22-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	Parameter Name:		E coli	Heterotrophic Plate Count	Free Chlorine	
	Units: M.D.L.:		cts/100mL	cts/100mL	cts/1mL	mg/L	
			1	1	2		
	Reference Meth	Reference Method:		MOE E3371	MOE E3371	n/a	
	Date Analyzed:		21-Aug-2003	21-Aug-2003	21-Aug-2003	21-Aug-2003	
Client I.D.	Client I.D. Sample I.D. Co						
John Street 2nd Line	B03-7266-1	19-Aug-03	< 1	< 1	< 2	1.15	

Poes have not before Mes with John M

Greg Clarkin, BSc, C.Chem Lab Manager - Ottawa District



(Division of Caduceon Enterprises Inc.)

.o.c.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7528

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 **Attention:** Dave Markell

DATE SUBMITTED: 26-Aug-03

DATE REPORTED: 28-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli cts/100mL	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL cts/100mL		cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1	1	2	
	Reference Method:		MOE E3371	MOE E3371 MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:	Date Analyzed:		26-Aug-2003	26-Aug-2003	26-Aug-2003	26-Aug-2003
Client I.D.	Sample i.D.	Date Collected					
Well #5 Raw	B03-7528-1	25-Aug-03	< 1	< 1	< 1		
Well #5 Treated	B03-7528-2	25-Aug-03	< 1		< 1	< 2	0.74
Lannins Garage Victoria St	B03-7528-3	25-Aug-03	< 1		< 1	< 2	0.68
7 Albert Street	B03-7528-4	25-Aug-03	< 1		< 1		0.63
LCBO Queen Street	B03-7528-5	25-Aug-03	< 1		< 1		0.82

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7947

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 03-Sep-03

DATE REPORTED: 05-Sep-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	ne:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:			cts/100mL 1 MOE E3371	cts/100mL	cts/1mL 2 MOE E3371	mg/L
	M.D.L.:				1		
	Reference Meti				MOE E3371		n/a
	Date Analyzed:		03-Sep-2003	03-Sep-2003	03-Sep-2003	03-Sep-2003	03-Sep-2003
Client I.D.	Sample I.D.	Date Collected				<u> </u>	
Well #5 Raw	B03-7947-1	02-Sep-03	< 1	1	< 1		
Well #5 Treated-Lot 12 Conc.5, Hwy43	B03-7947-2	02-Sep-03	<1		<1	4	1.20
osters Assoc. Main Street	B03-7947-3	02-Sep-03	< 1		< 1	<2	1.00
Happy Face Nursery, Main Street	B03-7947-4	02-Sep-03	<1		< 1		0.90
2 Industrial Drive	B03-7947-5	02-Sep-03	<1		< 1		1.00

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

C.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-8317

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

DATE SUBMITTED: 09-Sep-03

DATE REPORTED: 11-Sep-03

SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	ne:	Total Coliform	Background	E coli cts/100mL	Heterotrophic Plate Count	Total Chlorine
	Units:		cts/100mL	cts/100mL		cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1 MOE E3371	1 MOE E3371	2 MOE E3371	n/a
	Reference Method:		MOE E3371				
	Date Analyzed:		09-Sep-2003	09-Sep-2003	09-Sep-2003	09-Sep-2003	11-Sep-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-8317-1	08-Sep-03	< 1	< 1	< 1		0
Well #5 Treated	B03-8317-2	08-Sep-03	< 1	=-	< 1	4	0.88
LCBO	B03-8317-3	08-Sep-03	< 1		< 1	2	1.00
MacKewns	B03-8317-4	08-Sep-03	< 1		< 1	-	0.90
St.Mary's	B03-8317-5	08-Sep-03	< 1		<1		1.00

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-8717

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 16-Sep-03

DATE REPORTED: 18-Sep-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	ie:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1	1 MOE E3371	2 MOE E3371	n/a
			MOE E3371	MOE E3371			
			16-Sep-2003	16-Sep-2003	16-Sep-2003	16-Sep-2003	16-Sep-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-8717-1	15-Sep-03	< 1	1	< 1		
Well #5 Treated	B03-8717-2	15-Sep-03	< 1		< 1	< 2	1.11
Curran's Garage	B03-8717-3	15-Sep-03	< 1		< 1	< 2	0.82
2804 River Rd	B03-8717-4	15-Sep-03	< 1		< 1		0.79
20 South St	B03-8717-5	15-Sep-03	< 1		< 1	T	0.65

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

.o.c.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-9088

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

DATE SUBMITTED: 23-Sep-03

DATE REPORTED: 25-Sep-03

SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	ne:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Parameter Sym	ibol:	cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	Scheme Code:	Scheme Code:		1	1	2	
	Units:		MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	M.D.L.:		23-Sep-2003	23-Sep-2003	23-Sep-2003	23-Sep-2003	23-Sep-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-9088-1	22-Sep-03	< 1	< 1	< 1		
Well #5 Treated	B03-9088-2	22-Sep-03	< 1		< 1	< 2	0.99
61 Albert St	B03-9088-3	22-Sep-03	< 1		< 1	6	0.93
hesterville Public School	B03-9088-4	22-Sep-03	< 1		< 1		0.95
Cotnam Hardware	B03-9088-5	22-Sep-03	< 1		< 1		0.92

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

O.C.: 42448

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-9536

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 **Attention:** Dave Markell

DATE SUBMITTED: 30-Sep-03

DATE REPORTED: 03-Oct-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.: Reference Method: Mi Date Analyzed: 30		1 MOE E3371	1 MOE E3371	2	
	Reference Meth					MOE E3371	n/a
	Date Analyzed:			30-Sep-2003	30-Sep-2003	30-Sep-2003	30-Sep-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-9536-1	29-Sep-03	< 1	2	< 1		
Well #5 Treated	B03-9536-2	29-Sep-03	< 1		< 1	< 2	1.03
Bowling Alley	B03-9536-3	29-Sep-03	< 1		< 1	2	0.43
4 Curran Main St	B03-9536-4	29-Sep-03	< 1		< 1		1.00
Legion Industrial St	B03-9536-5	29-Sep-03	< 1		< 1		0.58

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

.O.C.: 42461

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-9986

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 07-Oct-03

DATE REPORTED: 09-Oct-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:	Units: (cts/100mL	cts/100mL	cts/1mL 2	mg/L
	M.D.L.:				1		
	Reference Meti	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		07-Oct-2003	07-Oct-2003	07-Oct-2003	07-Oct-2003	07-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-9986-1	06-Oct-03	< 1	< 1	< 1		
Well #5 Treated	B03-9986-2	06-Oct-03	< 1	~~	< 1	< 2	0.95
LCBO Treated	B03-9986-3	06-Oct-03	< 1		< 1	< 2	0.95
st.Mary's Treated	B03-9986-4	06-Oct-03	< 1		< 1		0.88
Cork & Barrel Treated	B03-9986-5	06-Oct-03	< 1		< 1		0.88

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

.O.C.: 42519

CERTIFICATE OF ANALYSIS Preliminary Report

REPORT No. B03-10445

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0

Attention: Dave Markell

DATE SUBMITTED TE Oct-03

 Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.: Reference Method: MC Date Analyzed: 15		1	1		n/a
	Reference Meth			MOE E3371	MOE E3371	MOE E3371	
	Date Analyzed:			15-Oct-2003	15-Oct-2003	15-Oct-2003	16-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
CW-01 Well#5	B03-10445-1	14-Oct-03	< 1	< 1	< 1		
CW-02 Treat(well#5)	B03-10445-2	14-Oct-03	<1		< 1	7-14	1.18
CW-03 61 Albert	B03-10445-3	14-Oct-03	ALL TOTAL	•-	< 1	1-14	0.88
W-04 Lannins	B03-10445-4	14-Oct-03	< 1		< 1		0.64
CW-05 LCBO	B03-10445-5	14-Oct-03	< 1		< 1	- 3	0.97

rend word out pos rend word out pos read for form

Krystyna Pipin, M. Sc.

Lab Supervisor

MDL = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caduceon Environmental Laboratories.



(Division of Caduceon Enterprises Inc.)

C.O.C.: 42519

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-10445

Rev. 1

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 Attention: Dave Markell

DATE SUBMITTED: 15-Oct-03

DATE REPORTED: 20-Jan-04

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	е:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:			1	1	2	
	Reference Meth	od:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed: 1		15-Oct-2003	15-Oct-2003	15-Oct-2003	15-Oct-2003	16-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
CW-01 Well#5	B03-10445-1	14-Oct-03	< 1	< 1	< 1		
CW-02 Treat(well#5)	B03-10445-2	14-Oct-03	< 1		< 1	2	1.18
CW-03 61 Albert	B03-10445-3	14-Oct-03			< 1	< 2	0.88
CW-04 Lannins	B03-10445-4	14-Oct-03	< 1		< 1		0.64
CW-05 LCBO	B03-10445-5	14-Oct-03	< 1	•-	< 1		0.97

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M.D.L. = Method Detection Limit



(Division of Caduceon Enterprises Inc.)

.O.C.: 42518

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-10593

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 17-Oct-03

DATE REPORTED: 20-Oct-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

rax 520-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	Units: M.D.L.: Reference Method:		Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:			cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:			1	1	2	
	Reference Meth			MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		17-Oct-2003	17-Oct-2003	17-Oct-2003	17-Oct-2003	17-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
61 Albert	B03-10593-1	16-Oct-03	< 1	< 1	< 1	2	0.93
17 Albert	B03-10593-2	B03-10593-2 16-Oct-03		< 1	< 1		1.03
Post Office Queen St	B03-10593-3	16-Oct-03	< 1	< 1	< 1		0.90

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-10701

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 21-Oct-03

DATE REPORTED: 23-Oct-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL 2	mg/L
	M.D.L.:		1	1	1		T
			MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
			21-Oct-2003	21-Oct-2003	21-Oct-2003	21-Oct-2003	21-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-10701-1	20-Oct-03	< 1	2	< 1		
Well #5 Treated	B03-10701-2	20-Oct-03	< 1		< 1	< 2	1.08
18 Industrial	B03-10701-3	20-Oct-03	< 1		< 1	2	0.96
appy Face Nursery	B03-10701-4	20-Oct-03	< 1		< 1		1.10
61 Albert	B03-10701-5	20-Oct-03	< 1		< 1		1.10

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

b.c.: 00228

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-11169

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 28-Oct-03

DATE REPORTED: 30-Oct-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:			1	1	2	
			MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
			28-Oct-2003	28-Oct-2003	28-Oct-2003	28-Oct-2003	28-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
Chesterville Well #5 Raw	B03-11169-1	27-Oct-03	< 1	< 1	< 1		
Chesterville Well #5 Treated	B03-11169-2	27-Oct-03	< 1		< 1	< 2	1.10
Fosters, Main Street	B03-11169-3	27-Oct-03	< 1		< 1	< 2	1.14
rrans Automotive	B03-11169-4	27-Oct-03	< 1		<1		1.10
Legion, Queen Street	B03-11169-5	27-Oct-03	< 1		< 1		0.91

Krystyna Pipin, M. Sc.

DL = Method Detection Limit



(Division of Caduceon Enterprises Inc.)

C.O.C.: C-00230

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-11597

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

Caduceon Environmental Laboratories

40 Camelot Drive

Ottawa Ontario K2G 5X8

Tel: 228-1145

Fax 228-1148

DATE SUBMITTED: 04-Nov-03

DATE REPORTED: 06-Nov-03

SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.;		1 MOE E3371	1	2	
			MOE E3371		MOE E3371	MOE E3371	n/a
			04-Nov-2003	04-Nov-2003	04-Nov-2003	04-Nov-2003	04-Nov-2003
Client I.D.	Sample I.D.	Date Collected					·
Chesterville Well #5 - Raw	B03-11597-1	03-Nov-03	< 1	6	< 1	••	
Chesterville Well #5 - Treated	B03-11597-2	03-Nov-03	< 1		< 1	< 2	0.91
Lannins Garage	B03-11597-3	03-Nov-03	< 1		< 1	< 2	0.96
Flair to Fabrics	B03-11597-4	03-Nov-03	< 1		< 1		0.99
LCBO	B03-11597-5	03-Nov-03	< 1		< 1		0.86

Greg Clarkin, BSc, C.Chem Lab Manager - Ottawa District

MDL = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.



(Division of Caduceon Enterprises Inc.)

.O.C.: 42508

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-11949

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 11-Nov-03

DATE REPORTED: 13-Nov-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Name): 	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.;			1	1	2	
	Reference Method:		MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		11-Nov-2003	11-Nov-2003	11-Nov-2003	11-Nov-2003	11-Nov-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-11949-1	10-Nov-03	< 1	1	< 1		
Well #5 Treated	B03-11949-2	10-Nov-03	< 1		< 1	2	1.08
L.C.B.O. 140 Queen	B03-11949-3	10-Nov-03	< 1		< 1	10	0.60
st.Mary's 37 Main St	B03-11949-4	10-Nov-03	< 1		< 1	-	0.98
MacEwens Main & Queen	B03-11949-5	10-Nov-03	< 1		< 1	,	(0)
						(, , , , , , , , , , , , , , , , , , ,	lab lar

Krystyna Pipin, M. Sc.

MDL = Method Detection Limit



(Division of Caduceon Enterprises Inc.)

O.C.: C-00232

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-12378

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 18-Nov-03

DATE REPORTED: 20-Nov-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1 MOE E3371	1 MOE E3371	2 MOE E3371	
	Reference Method:		MOE E3371				n/a
	Date Analyzed:		18-Nov-2003	18-Nov-2003	18-Nov-2003	18-Nov-2003	18-Nov-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-12378-1	17-Nov-03	< 1	< 1	< 1		
Well #5 Treated	B03-12378-2	17-Nov-03	< 1		< 1	10	0.97
Post Office	B03-12378-3	17-Nov-03	< 1		< 1	< 2	0.83
CBO Queen St	B03-12378-4	17-Nov-03	< 1		< 1		0.74
17 Ralph Street	B03-12378-5	17-Nov-03	< 1		< 1		0.96

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

O.C.: C-00233

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-12750

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 25-Nov-03

DATE REPORTED: 27-Nov-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO .:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1 MOE E3371	1 MOE E3371	2 MOE E3371	1
	Reference Method: Date Analyzed:		MOE E3371				n/a
			25-Nov-2003	25-Nov-2003	25-Nov-2003	25-Nov-2003	25-Nov-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-12750-1	24-Nov-03	< 1	< 1	< 1		
Well #5 Treated	B03-12750-2	24-Nov-03	< 1		< 1	< 2	1.06
Happy Face Nursury	B03-12750-3	24-Nov-03	< 1		< 1	< 2	1.03
61 Albert St	B03-12750-4	24-Nov-03	< 1		< 1		0.99
egion	B03-12750-5	24-Nov-03	< 1		< 1		1.03

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

O.C.: C-00234

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-13134

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 **Attention:** Dave Markell

DATE SUBMITTED: 02-Dec-03

DATE REPORTED: 04-Dec-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1	1	2	
	Reference Method:		MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		02-Dec-2003	02-Dec-2003	02-Dec-2003	02-Dec-2003	02-Dec-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-13134-1	01-Dec-03	< 1	< 1	< 1		
Well #5 Treated	B03-13134-2	01-Dec-03	< 1		< 1	< 2	
20 South Street	B03-13134-3	01-Dec-03	< 1		< 1	< 2	1.02
LCBO	B03-13134-4	01-Dec-03	< 1		< 1		1.02
i.P.S	B03-13134-5	01-Dec-03	< 1		< 1		0.41

Krystyna Pipin Lab Supervisor



(Division of Caduceon Enterprises Inc.)

O.C.: C-00247

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-13547

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 09-Dec-03

DATE REPORTED: 11-Dec-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:	Units: M.D.L.:		cts/100mL 1 MOE E3371	cts/100mL	cts/1mL	mg/L
	M.D.L.:				1	2	
	Reference Method:		MOE E3371		MOE E3371	MOE E3371	n/a
	Date Analyzed:		09-Dec-2003	09-Dec-2003	09-Dec-2003	09-Dec-2003	09-Dec-2003
Client I.D.	Sample I.D.	Date Collected			-		
Well #5 Raw	B03-13547-1	08-Dec-03	< 1	< 1	< 1		0.79
Well #5 Treated	B03-13547-2	08-Dec-03	< 1		< 1	6	1.09
LCBO Queen St	B03-13547-3	08-Dec-03	< 1		<1	< 2	1.05
St.Mary's School	B03-13547-4	08-Dec-03	< 1		< 1		1.05
ork & Barrel	B03-13547-5	08-Dec-03	< 1		< 1		1.03

Krystyna Pipin Lab Supervisor

M.D.L. = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.



(Division of Caduceon Enterprises Inc.)

O.C.: c-00285

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-13753

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 12-Dec-03

DATE REPORTED: 15-Dec-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	Parameter Name:		E coli	Heterotrophic Plate Count	Free Chlorine	
			1		cts/1mL	mg/L	
				1	2		
				MOE E3371	MOE E3371	n/a	
			12-Dec-2003	12-Dec-2003	12-Dec-2003	12-Dec-2003	
Client I.D.	Sample I.D.	Date Collected					
LCBO	B03-13753-1	11-Dec-03	< 1	< 1	< 2	1.16	
Public School	B03-13753-2	11-Dec-03	< 1	< 1	< 2	1.18	
Lannin's Garage	B03-13753-3	11-Dec-03	< 1	< 1	< 2	0.78	
5 Industrial Dr	B03-13753-4	11-Dec-03	< 1	< 1	< 2	1.14	

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Krystyna Pipin Lab Supervisor

M.D.L. = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.



(Division of Caduceon Enterprises Inc.)

O.C.: C-00235

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-13913

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0 **Attention:** Dave Markell

DATE SUBMITTED: 16-Dec-03

DATE REPORTED: 18-Dec-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

P.O. NUMBER:

JOB/PROJECT NO.:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Name	Parameter Name:		Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.:		1 MOE E3371	1	2 MOE E3371	
			MOE E3371		MOE E3371		n/a
			16-Dec-2003	16-Dec-2003	16-Dec-2003	16-Dec-2003	16-Dec-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-13913-1	15-Dec-03	< 1	< 1	< 1		
Well #5 Treated	B03-13913-2	15-Dec-03	< 1		< 1	< 2	1.37
Chesterville Bowling	B03-13913-3	15-Dec-03	< 1		< 1	2	1.18
17 Albert St	B03-13913-4	15-Dec-03	< 1		< 1		1.32
hesterville Arena	B03-13913-5	15-Dec-03	< 1		< 1		1.29

Greg Clarkin

Lab Manager - Ottawa District



(Division of Caduceon Enterprises Inc.)

O.C.: C-00237

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-14193

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

DATE SUBMITTED: 22-Dec-03

DATE REPORTED: 24-Dec-03

SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.:

P.O. NUMBER:

Chesterville WTP

WATERWORKS NO. 210000728

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:			1	1	2	
	Reference Method: M		MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:	Date Analyzed:		22-Dec-2003	22-Dec-2003	22-Dec-2003	22-Dec-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-14193-1	22-Dec-03	< 1	< 1	< 1		
Well #5 Treated	B03-14193-2	22-Dec-03	< 1		< 1	8	1.19
H. Curran 109 Main St	B03-14193-3	22-Dec-03	< 1		< 1	< 2	1.12
Post Office	B03-14193-4	22-Dec-03	< 1		< 1		1.38
Cotnam Hardware	B03-14193-5	22-Dec-03	< 1	•=	< 1		1.24

Krystyna Pipin Lab Supervisor

M.D.L. = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.



(Division of Caduceon Enterprises Inc.)

C.O.C.: C-00238

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-14417

Report To:

Ontario Clean Water Agency - Chesterville

5 Industrial Dr.

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 2000-03

DATE REPORTED: 31-Dec-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PROJECT NO.:

P.O. NUMBER:

Chasterville WTP

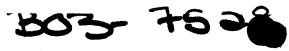
WATERWORKS NO. 210000728

	Parameter Nam	Parameter Name:		Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:	M.D.L.: Reference Method: M		1	1 MOE E3371	2 MOE E3371	
	Reference Meth			MOE E3371			n/a
	Date Analyzed: 29		29-Dec-2003	29-Dec-2003	29-Dec-2003	29-Dec-2003	29-Dec-2003
Client I.D.	Sample I.D.	Date Collected					
Well #5 Raw	B03-14417-1	29-Dec-03	<1 V	< 1	< 1		
Well #5 Treated	B03-14417-2	29-Dec-03	<1 V		<1 V	<2 /	1.18
21 Albert St	B03-14417-3	29-Dec-03	<1 V		<1 v	4 🗸	1.11
Lannins garage	B03-14417-4	29-Dec-03	< 1 V		< 1 🗸		1.24
17 Ralph Street5 Industrial Dr	B03-14417-5	29-Dec-03	<1 🗸		<1 _V		1.29

Jan 2/04 Earl

> Krystyna Pipin Lab Supervisor





Bacterialogical Sample Submission Form

Municipality	Chesterville	Works # 210000728	Report To	Ontario C	lean Wat	er Agenc	<u>y</u>		Telephone: (613) 448-3098
Source	Wells		Address	5 Industri	al Drive		man and 14 - 111 man and an and an and an and an an an and an an an an an an an an an an an an an		Fax: (613) 44	18-1616
Sample Type	takan kang menganggan bisar sa sa sa sa sa sa sa sa sa sa sa sa sa			P.O. Box	460			AND STREET, ST. ST. ST. ST. ST. ST. ST. ST. ST. ST.	Postal Code	K0C 1H0
	d 25-08-03	Sampler Lisa Bordaussi		Chesterv	ille, Ontai	rio				
Sample ID		Sample Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	НРС	Reportable Sample
CW-01	Well # 5 Raw		850			X	x	X		
CW-02	The second secon	t 12, Conc. 5, Hwy. 43, Chesterville		0.74		X	X		X	X
CW-03		turacy. Victoria Sil		0.68		X	X		x	X
CW-04		4 Sheet	(0).00	0.63		X	x			X
CW-05		Queen St.	10:25	0.82		X	X	***************************************		X
and the second s	The second of the control of the second of t	Colon Colon	Si kan asaanta may is janta s		eggs; of a my sepage on	Elizar a se cultura en mana	molecular communication of the	PARTIES OF THE PARTIE	Waster - Declaration between 1 No. 2	4.64.000.00
		and the second s			/					
and the same of th		and the second s								
					•					•

c.c. Township of North Stormont, Fax: (613) 984-2908

Caduceon Laboratories

Municipality	Chesterville	Works # 210000728	Report To	Ontario Clean Water Agency				Telephone: (613) 448-3098			
Source	Wells		Address	5 Industri	al Drive		name of a control of the control of		Fax: (613) 4	48-1616	
Sample Type	e Bacti			P.O. Box	460				Postal Code K0C 1H0		
Date Sample	d 0) - 09-03	Sampler Lisa Bortolussi		Chesterv	ille, Ontai	rio					
Sample ID	San	nple Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	НРС	Reportable Sample	
CW-01	Well # 5 Raw		16.23		***************************************	X	X	X			
CW-02	Well # 5 Treated - Lot 1	2, Conc. 5, Hwy. 43, Chesterville	16.25	1020mg		X	x		X	X	
CW-03	Fosters Asso	oc. Mainst.	9:55	1.0mg/L		X	X		X	X	
CW-04	Happy Face	Dursery Main St.	10.00	0903/	200	X	X			X	
CW-05	& Tuginst	nd ba	10:15	1.000		T. X	X			X	
					\$0.000 miles and \$1.000						
				1 % We				·			
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A STATE OF LAND COMMENT								=			
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	thin of North Stormont	Fav. (642) 004 2000			and the second second section of						

c.c. Township of North Stormont, Fax: (613) 984-2908



Municipality	Chesterville	Works #	210000728	Report To	Ontario	Clean Wat	er Agenc	<u>y</u>		Telephone:	(613) 448-309
Source	Wells			Address	5 Industi	rial Drive				Fax: (613) 4	48-1616
Sample Type	Bacti				P.O. Box	<u>k</u> 460		Postal Code	K0C 1H0		
Date Sample	Sept 8/03	Sampler	Hoach		Chester	ville, Ontar	io	770.0			
Sample ID	<i> </i>	mple Descript	tion	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	HPC	Reportable Sample
CW-01	Well # 5 Raw			11:00 An		0.00	х	X	X		
CW-02	Well # 5 Treated - Lot	12, Conc. 5	, Hwy. 43, Chesterville	11:00 Am		0,88	X	x		X	X
CW-03	L.C.BO.			11: 45Au	1	10	X	X		X	x
CW-04	Blackers		WNS	11:35		, 90	Х	x			X
CW-05	Af Mary's			11: ZOAW	,	1.00	Х	X			x
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c.c. Township of North Stormont, Fax: (613) 984-2908

Municipality	Chesterville	Works # 210000728	Report To	Ontario C	lean Wat	er Agenc	À	Telephone		(613) 448-3098
Source	Wells		Address	5 Industri	al Drive	Make Make a graphy or Make a program of the Control of			Fax: (613) 4	148-1616
Sample Type	e Bacti			P.O. Box	460				Postal Code	K0C 1H0
Date Sample	ed 15/09/03	Sampler DAUE MARKELL		Chesterv	ille, Ontar	rio				
Sample ID		Sample Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	НРС	Reportable Sample
CW-01	Well # 5 Raw		1330			X	X	X		
CW-02	Well # 5 Treated - L	ot 12, Conc. 5, Hwy. 43, Chesterville	13 40	1.11		X	<u>x</u>		X	X
CW-03	CURRAN'S	GARAGE	1400	.82		X	X		X	X
CW-04	2804 RIVE	r Rd	1420	.79		X	X			X
CW-05	20 South		1440	-65		X	X			X
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c.c. Township of North Stormont, Fax: (613) 984-2908

B03 - 9088

Bacterialogical Sample Submission For

Municipality	Chesterville	Works # 210000728	Report To	Ontario (Clean Wa	ter Agenc	<u>. y</u>		Telephone:	(613) 448-3
Source	Wells		Address	5 Industr	ial Drive	100			Fax: (613)	148-1616
Sample Type	Bacti			P.O. Box	: 460		19		Postal Code	K0C 1H
Date Sample	0 22/09/03	Sampler Lisa Batolus	s,	Chesterv	ille, Onta	rio				The state of the s
Sample ID	Sa	ample Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	HPC	Reportab Sample
CW-01	Well # 5 Raw		11:59		_	x	x	X		
CW-02	Well # 5 Treated - Lot	12, Conc. 5, Hwy. 43, Chesterville	3/4	099		X	X		X	X
CW-03	61 Albert		11:20	0.93		х	X		x	X
CW-04	Chestervill	re Public School	11:30	0.95		X	X		The second secon	X
CW-05		Herdware, Industria		0.92		X	X			X
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c.c. Townsh	nip of North Stormont	Fax: (613) 984-2009	to the special form the characteristic code (1994) 199 1		yesi					

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ODWS Drinking Water Samples (459 505	ODWS (No	n Regulatory)			MISA (Suidelin	es	Γ	Clea	up Crit	teria (A	E	3 (2 1) F	F		
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Page Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge S=Soil Sed=Sediment PC=Paint Chips F=Filter

Fax Results

No. of Containers Shipped

Email

24 Hrs

72 Hrs L

Specific Date:

Method of Shipment:

Sampled By (print):

Submitted By (print):

Date(dd-mm-yy): 29

Signature:

48 Hrs

5-7 Day

Laboratory Locations/ Shipping Addresses

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Environmental Laboratories (Division of Caduceon Enterprises

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ODWS Drinking Water Samples (459 505_	505) ODWS (Non Regulatory)			MISA Guidelines Clean Up Criteria (A B C D					DE	F_	_)									
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Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water			irface Water G	w≕Gm	undwa	ater I S	ໄລໄ ໄດນນໍ	d Slude	76 SS=	Solid S	dudae S	i=Soil 9	Sed≂Se	ediment F	°C≍Pair	at Chins	F=Filter	,		

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Environment Laboratories (Division of Stuceon Enterprises In 2519

Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge SS=Solid Sed=Sediment PC=Paint Chips F=Filter

C PD U C E	APN.	Environm	l Laboratories((Division of Caduceon Enterpr	ises 2518
ODWS Drinking Water Samples (459 505)	ODWS (Non Regulatory)	•	MISA Guidelines	Clean Up Criteria (A B C D E_	F)
Provincial Water Quality Objectives Client: Address:	Provincial Sediment Quality	/ Guideline	Landfill Analysis	Other: NALYSES REQUESTED (Prints (each Boxes)	
OCWA	OCWA 5 Industral				
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Tel:	POBOX 460 Chesterville KOC-1HO	e, ant /	19.00/		
613 -448 - 3098 Waterwood	rk's/ Project#: Project Name:		777/	////////////	8
1 13 11112-11-11- 12100	rk's/Project#: Project Name:	ville Vy	1997 /		1.
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Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge SS=Solid Sed=Sediment PC=Paint Chips F=Filter

<u>Laboratory Locations/ Shipping Addresses</u>

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Page Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge S=Soli Sed=Sediment PC=Paint Chips F=Filter

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Kingston Lab - 285 Dalton Ave., Kingston, ON K7M 621, Tel: (613) 544-2001 Fax: (613) 544-2770, Email: contactkingston@caduceonlabs.com
Ottawa East Lab - 2378 Holly Lane, Ottawa, ON K1V 7P4, Tel (613) 526-0123 Fax: (613) 526-1244, Email: contactottawae@caduceonlabs.com (Shipping & Supplies)
Ottawa West Lab - 40 Camelot Dr., Ottawa, ON K26 5X8, Tel: (613) 228-1145, Email: contactottawae@caduceonlabs.com (Administration)
Moncton Lab - 150 Lutz St., Moncton, NB E1C 5E9, Tel: (506) 855-6472 Fax: (506) 855-8294, Email: contactmoncton@caduceonlabs.com

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Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge S=Soli Sed=Sediment PC=Paint Chips F=Filter Laboratory Locations/ Shipping Addresses



Environmen Laboratories (Division of Caduceon Enterprises Inc.)



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Environmental Laboratories (Division of Caduceon Enterprises

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Environmental Laboratories (Division of Caduceon Enterprises Inc.)

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Laboratory Locations/ Shipping Addresses



Environmed Laboratories (Division of Caduceon Enterprises Inc)

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Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge S=Solid Sed=Sediment PC=Paint Chips F=Filter

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Laboratory Locations/Shipping Addresses
Kingston Lab - 285 Dalton Ave., Kingston, ON K7K 621, Tel: (613) 544-2001 Fax: (613) 544-2770, Email: contactkingston @caduceonlabs.com
Ottawa East Lab - 2378 Holly Lane, Ottawa, ON K1V 7P1, Tel (613) 526-0123 Fax: (613) 526-1244, Email: contactottawae@caduceonlabs.com (Shipping & Supplies)
Ottawa West Lab - 40 Camelot Dr., Ottawa, ON K2G 5X8, Tel: (613) 228-1145 Fax: (613) 228-1149, Email: contactottawaw@caduceonlabs.com (Administration)
Moncton Lab - 150 Luiz St., Moncton, NB E1C 5E9, Tel: (508) 855-6472 Fax: (508) 855-824, Email: contactmoncton @caduconlabs.com

CofC., Aug. 2003, Revision No: 6

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Environmental Laboratories (Division of Caduceon Enterprises Inc.)



	ODWS Drinking Water Samples (459 505	_)	Provincial	Water Quality Obj	ectives		□ M	ISA GL	idelin	es]	Clean Up Criteria (ABC D E F)									
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Laboratory Locations/ Shipping Addresses

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Moncton Lab - 160 Lutz St., Moncton, NB. E1C 5E9, Tel: (506) 555-6472 Fax: (506) 455-8294, Email: confactmonation@eadusoniabs.com Otisma West Lab - 40 Camelot Dr., Ottawa, ON K2G 5X6, Tel: (613) 228-1145, Fmail: contactottawaw@caducsoniabs.com (Administration) Ottawa East Lab - 2378 Holly Lane, Ottawa, Ott K1V 7P1, Tel (613) 526-0125 Fax: (613) 526-1244, Email: contactoitawae@caduceonlabe.com (Shipping & Supplies) Kingston Lab - 285 Datton Ave., Kingston, ON ICK EZI, Tel: (613) 544-2001 Fax: (613) 544-2770. Email: confaction@caduceomlabe.com

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Environmental Laboratories (Division of Caduceon Enterprises Inc)

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Environmental Laboratories (Division of Caduceon Enterprises Inc)

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Ontario

Ministry of the Environment

Ministère de l'Environnement

135 St. Clair Avenue West Toronto, ON M4V 1P5 135 avenue St. Clair ouest Toronto, ON M4V 1P5

Integrated Environmental Planning Division Tel: (416) 314-6310 Fax: (416) 314-6346

February 19, 2003

MEMORANDUM

TO:

Municipal Heads of Council

Other Affected Water Works Owners

FROM:

Doug Barnes

Assistant Deputy Minister

Integrated Environmental Planning Division

SUBJECT:

Changes to the Submission Date of Second Engineers' Reports

You are being contacted as an owner of a water works currently required to submit Engineers' Reports under provisions of Regulation 459/00 and in accordance with conditions which may exist on your Certificate of Approval for the water works.

As you may be aware, the Government has recently posted a new regulation respecting water works on the Environmental Registry for comment. One component of the proposed regulation is to extend the submission period of second and subsequent Engineer's Reports, required under Section 13 of Ontario Regulation 459/00, from the current within a three year period to within a five year period.

In accordance with the attached Update, if you are required to submit a second Engineer's Report, that report will not be due on the date specified in Condition 6 of your Consolidated Certificate of Approval or specified by O. Reg. 459, but will instead be due within five years of your original Engineer's Report submission date.

If the new regulation under the Safe Drinking Water Act is made, the Ministry will be providing information respecting requirements for Engineers' Reports in the context of the 5 year period at a future date. This information will be provided at such a time and in such a manner as to enable compliance with these requirements.

Also note that all other requirements of your Consolidated Certificate of Approval continue to apply, including the date specified for the completion of any upgrades required to be made to your water works.

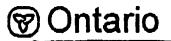
If you have any questions or comments in regards to the proposed regulation, please make them through the Environmental Registry. Should you have any questions in regards to your Consolidated Certificate of Approval, please contact the Environmental Assessment and Approvals Branch of the Ministry at (416) 314-8001 or 1-800-461-6290.

Doug Barnes

Attachment

Pour obtenir une version française de ce document, veuillez téléphoner au 416 314-6654.

February 2003



Ministry
of the
Environment

Ministère

de

FROM-

l'Environnement



O. Reg. 459/00 Drinking Water Protection – Larger Water Works

The Drinking Water Protection Regulation - Large Waterworks, promulgated in August 2000, requires clarification to reflect a proposed change in Government policy to ensure that no waterworks is mistakenly deemed out of compliance and to provide clear direction regarding the Ministry's enforcement policy, while ensuring safe drinking water. The following clarification has been approved by Doug Barnes, Assistant Deputy Minister, Ministry of the Environment, and as such, by way of this bulletin, shall be considered for the purpose of assessing compliance until such time as O. Reg. 459/00 has been amended, or revoked and replaced with a regulation under the Safe Drinking Water Act.

Section 13: Engineer's Reports

Section 13 of O. Reg. 459 requires the owners of certain waterworks to submit engineers' reports in accordance with the Ministry of the Environment Publication entitled "Terms of Reference for Engineers' Reports for Water Works", originally dated August 2000, as amended from time. Clauses 13(3) (b) and (c), and subsection 13(7), require subsequent engineers' reports to be submitted every 3 years.

Ministry Position

The Government is considering extending the period within which subsequent engineers' reports are to be submitted from 3 years to 5 years. More detailed information regarding these proposals can be obtained through the EBR Registry, posting RA03E0001, posted on January 14, 2003, regarding a new regulation under the Safe Drinking Water Act.

Given that the submission period may be extended, it is the Ministry's position that the owner of a water works that is required under O. Reg 459, or an approval or order granted or issued before December 31, 2002, to submit an Engineer's Report shall not be required to submit such reports further to these provisions. If a provincial officer or other Ministry staff find that the owner of a waterworks has not submitted an Engineer's Report the provincial officer should not take abatement measures or refer the matter for investigation. All other requirements in O. Reg. 459 and any approval or order continue to apply.

If the new regulation under the Safe Drinking Water Act is made, the Ministry will be providing information respecting requirements for engineers' reports in the context of the 5 year period at a future date. This information will be provided at such a time and in such a manner as to enable compliance with these requirements.

Pour obtenir une version française de ce document, veuillez téléphoner au 416 314-6654.

FAX COVER SHEET

Swish Maintenance Limited
P.O. BOX 3000 - 2060 FISHER DRIVE,
PETERBOROUGH, ONTARIO, K9J 8N4
TELEPHONE (705) 740-2880 EXT. 242
FAX (705) 745-0220
E-mail somer@swish.ca

TO: Roger Luu

Ontario Clean Water Association

DATE: August 16, 2002

FROM: JOE SOMER

OF SHEETS INCLUDING THIS ONE: 1

RE: Bleach Certification

Our Swish Brite-12 meets the following standards:

- -NSF Certification under NSF 60-1997, Drinking Water Treatment Chemicals
- -Canadian General Standards Board: CAN/CGSB-15.31-93 Standard for Sodium Hypochlorite
- -ANSI/AWWA B300-92 Standard for Hypochlorites
- -Health Canada Pest Management Control Registration No. 15692

If you have any questions please call or email me.

Joe Somer

Development Chemist



Date: June 17th 2002.

Re: Microbiological Testing and Reporting as per Reg 459/00 and 505/01

I want to assure you that all drinking water samples submitted to ETRL/Caduceon Environmental Laboratories are being tested for both E. coli and Total Coliform. Samples are tested by either membrane filtration or presence/absence at your request by acceptable accredited methods.

As well all procedures pertaining to reporting of adverse results required by the regulations are being followed by ETRL/Caduceon Laboratories staff.

If you require copies of our microbiological methods and/or reporting procedures please email Angela Henderson at etrinfo@kingston.net.

If you have any questions or concerns please do not hesitate to call.

Sincerely,

Steve Garrett



ONTARIO CLEMESCETT ACTERET

April 1, 2003

AME: APR - 7 200

CHEST STATE OF THE

Ontario Clean Water Agency 5 Industrial Drive Chesterville, Ontario K0C 1H0

Attn: Blair Henderson & John Kingsbury

RE: Presentation to Council - 2002 Compliance Reports Winchester & Chesterville Water Treatment Facilities:

Dear Gentlemen:

Thank-you for your very informative presentation to Council on March 31, 2003.

As requested, please find enclosed a copy of Resolution No. 2 passed by the Council of the Township of North Dundas.

I trust the above to be satisfactory and remain.

Yours very truly,

Jo-Anne McCaslin

Clerk

encl.

cc: Howard F. Smith

MOVED BY: THE CORPORATION	OF THE OWNSHIP OF NORTH DUNDAS SESSION 1/1/2003
SECONDED BY: Martin Schoon	RESOLUTION NO.()
THAT the 2002 Annual Compliance Reports for the Winches	ster and Chesterville Water Treatment Facilities were presented by OCWA and reviewed
by Council of the Township of North Dundas this 31st day of	March, 2003.
	Churk O'
	Jo-Anne McCaslin, in the County of Dundas, in the County of North Dundas, in the least of Dundas, in the County of Dundas
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<u>DIVISION</u> FOR AGAINST <u>VOTE</u>	CARRIED DEFEATED AMENDED BY
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DECLARATION CONFLICT OF INTEREST	(a) DISCLOSED HIS (THEIR) HER INTEREST(S).
	(b) VACATED HIS (THEIR) HER SEAT.
	(c) ABSTAINED FROM DISCUSSION AND DID NOT VOTE ON THIS QUESTION Clerk



March 26, 2003

Chesterville Hub 5 Industrial Drive Chesterville, Ontario K0C 1H0

tel (613) 448-3098 fax (613) 448-1616

Township of North Dundas P.O. Box 489 636 St. Lawrence Street Winchester, Ontario K0C 2K0

Attention: Howard Smith and Council

Dear Howard and Council:

SUBJECT: Chesterville Water Treatment Facility - Annual Compliance Report for 2002

Attached please find the Annual Compliance Report for the Chesterville Water Treatment Facility for the operating year 2002, prepared by the Ontario Clean Water Agency. This report is submitted in accordance with Condition 4 of Certificate of Approval # 5513-5K5U23.

Conditions 4.1(d) through 4.1(f) state:

- 4.1(d) "The Compliance Report shall be signed by a person designated by the Council of the municipality that owns the works or, where there is a Public Utilities Commission responsible for the works, the chief officer of the Public Utilities Commission or person designated by the chief officer of the Public Utilities Commission.
- 4.1(e) "Within three months of completion of the Compliance Report, the Owner shall confirm by a resolution of council that the Compliance Report has been presented to council.
- 4.1(f) "The Owner shall ensure that copies of the Compliance Report are available for inspection by any member of the public during normal business hours without charge and at the same location as that required by s.11 of O.Reg 459/00 for reports under that regulation".

The Council members representing the Township of North Dundas have designated the Ontario Clean Water Agency as capable of signing the annual compliance report on their behalf.

To fulfill condition 4(e) of the Cof A, please submit this report to Council for review at their next Council meeting, where it will need to be confirmed by a resolution of council that the Compliance Report has been presented to council. Confirmation must be completed within three months of the date of this report.



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March 26, 2003

Township of North Dundas

SUBJECT: Chesterville Water Treatment Facility - Annual Compliance Report for 2002

To fulfill condition 4(f) of the C of A, please make this report available for inspection by any member of the public during normal business hours without charge at the Municipal Office. along with the quarterly water quality reports required by s.11 of O.Reg 459/00.

I certify that I have reviewed the attached report on behalf of the Township of North Dundas.

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If you have any questions regarding this report, please feel free to contact this office.

Sincerely,

Dave Markell

Process/Compliance Technician

Chesterville Hub

Blair Henderson, Operations Manager, Chesterville Hub, OCWA c.c.

Cindy Spencer, Regional Compliance Advisor, Eastern Region, OCWA c.c.

John Kingsbury, Client Services Representative, Chesterville Hub, OCWA c.c.

A stipulation of the Chesterville Water Treatment Plant Certificate of Approval Number 5513-5K5U23 requires the Owner prepare an Annual Report detailing compliance with all <u>Terms and Conditions</u> of the Certificate of Approval.

A brief description of the <u>Terms and Conditions</u> of the Certificate of Approval Number 5513-5K5U23 are as follows:

Performance

Condition 1.0 through 1.5 inclusive

- to ensure water delivered to the consumer satisfies current Ontario Drinking Water Standards.
- to ensure flow rate of water through the works is within the approved capacity of the works.

Monitoring and Recording

Condition 2 through 2.2 inclusive

• to ensure all pertinent data is available for the works performance evaluation and so that the works is operated and maintained at a level consistent with design objectives.

Operations and Maintenance

Condition 3.0 through 3.14 inclusive

 to ensure works will be operated, maintained, funded, staffed and equipped sufficiently to meet the terms of the Certificate of Approval and deal with emergency situations.

Compliance Report

Condition 4.0 through 4.1 inclusive

• to ensure the Owner will regularly review the Certificate of Approval, be alerted to its obligations and allow the public enhanced participation in monitoring of compliance.

Upgrading Requirements

Condition 5.0 through 5.4 inclusive

• to ensure implementation of recommendations contained in the Engineer's Report prepared in 2000.

Subsequent Engineer's Reports

Condition 6.0 through 6.2 inclusive

• to ensure a second and subsequent Engineer's Reports are prepared by specific dates.

Revocation of Existing Approvals

Condition 7.0 through 7.3 inclusive

• to stipulate that the new Consolidated Certificate of Approval replaces only those Certificates pertaining to the water treatment works, and that existing Certificates of Approval remain in force for the distribution system and elevated storage tanks.

Information

Condition 8.0 through 8.2 inclusive

• to emphasize the distinction between the requirements of the Certificate of Approval and other legal requirements with which the Owner is required to comply.

Change of Ownership

Condition 9.0 through 9.3 inclusive

• to ensure Ministry of Environment records are kept accurate and current and new Owners of water works are made aware of the Certificate of Approval.

Interpretation

Condition 10.0 through 10.2 inclusive

• to clarify that the Certificate of Approval is to be judicially interpreted, and specifically, to clarify that the requirements of the Certificate of Approval are severable and that they prevail over supporting documentation.



Annual Compliance Report

for the

Chesterville Water Treatment Facility

for the year

2002

prepared for the Township of North Dundas

by the Ontario Clean Water Agency

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APPENDICES

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SECTION 1 "Compliance with Terms and Conditions of the Certificate of Approval"

The Annual compliance report for the Chesterville Water Treatment Facility for the operating year 2002, has been prepared by the Ontario Clean Water Agency. This report is submitted to the Owner in accordance with Condition 4 of Certificate of Approval (C of A) # 5513-5K5U23, to ensure that a written report detailing compliance with all Terms and Conditions of this approval is completed annually. The Terms and Conditions of this approval are defined under Condition 1 - Performance, Condition 2 - Monitoring and Recording, Condition 3 - Operations and Maintenance, Condition 4 - Annual Compliance Report, Condition 5 - Upgrading Requirements, Condition 6 - Subsequent Engineer's Reports, Condition 7 - Revocation of Existing C of A s, Condition 8 - Information, Condition 9 - Change of Ownership, and Condition 10 - Interpretation (Severability and Conflicts).

In accordance with C of A Condition 4(c)(i), under the heading of "Compliance with Terms and Conditions of the Certificate of Approval" the following is a statement as to the compliance of the Chesterville Water Treatment Facility.

Chesterville WTF - Compliance With Terms and Conditions of the Certificate of Approval

Conditions 1.1 through 1.5: Performance

Condition 1.1 The Chesterville Water Treatment Facility and Distribution System was operated such that water supplied to the consumers serviced by the system satisfied the requirements of the "Ontario Drinking Water Standards" and met all conditions set out in Conditions 3.1 through 3.14 of C of A # 5513-5K5U23.

Condition 1.2

- (a) Permit To Take Water # 88-P-4083; Expiry Date May 30, 2003 (Well #1) Permit To Take Water # 89-P-4052; Expiry Date July 31, 2009 (Well #5)
- (b) Should maximum total flow rate exceed the rate specified in the Permits To Take Water, an application for amendment will be submitted.

Condition 1.3 The Chesterville water treatment plant is operated to treat water at a rate not exceeding the maximum flow rate of 586 L/min (844 m³/day) for Well No. 1 and 1380 L/min (1987 m³/day) for Well No. 5.

Condition 1.4

- (a) no unusual water demand was experienced in 2002
- (b) no maintenance was performed in 2002 that necessitated flow rates through the water plant exceeding 568 L/min (818 m³/day) for Well No. 1 or 1380 L/min (1950 m³/day) for Well No. 5.

Condition 1.5 The disinfection facilities for Well No. 5 in the Chesterville water treatment plant were operated and maintained in accordance with the Ministry Procedure B13-3 entitled "Chlorination of Potable Water Supplies in Ontario", dated January 2001, as amended from time to time. The disinfection facilities for Well No. 1 in the Chesterville water treatment plant were NOT operated and maintained in accordance with the Ministry Procedure B13-3 entitled "Chlorination of Potable Water Supplies in Ontario", dated January 2001, as amended from time to time. See Section 2 "Non-Compliance with Terms and Conditions of the Certificate of Approval".

C of A Compliance Reporting Condition 4(c)(i) - Compliance With Terms and Conditions -

The following is a detailed description of the measures taken to ensure compliance with Conditions 2.1 through 2.2 of the Certificate of Approval, related to flow rate exceedances, and a summary of analytical results of sampling required by the Certificate;

Chesterville WTF - Compliance With Terms and Conditions of the Certificate of Approval

Conditions 2.1 through 2.2: Monitoring and Recording

Condition 2.1(a)(i) A sufficient number of flow measuring devices are NOT installed to measure the daily quantity and flow rate of water being taken from each well. See Section 2 "Non-Compliance with Terms and Conditions of the Certificate of Approval".

Condition 2.1(a)(ii) A sufficient number of flow measuring devices are installed, maintained, and operated to measure the flow rate of treated water water being supplied to the distribution system.

<u>Condition 2.1(b)</u> All flow measuring devices are calibrated at regular intervals not exceding one year to ensure the required accuracy.

<u>Condition 2.1(c)</u> Total daily flows and daily peak flows are NOT recorded. See Section 2 "Non-Compliance with Terms and Conditions of the Certificate of Approval".

Condition 2.1(d) The date, time, duration and cause of any flow rate exceedence CANNOT be recorded. See Section 2 "Non-Compliance with Terms and Conditions of the Certificate of Approval".

Condition 2.1(e)(i) A continuous free chlorine analyzer with an acceptable quality control band and an alarm system is installed at the point of entrance to the distribution system and is calibrated as per the manufacture's instructions.

Condition 2.1(e)(ii) A turbidimeter with an acceptable quality control band and an alarm system is installed at the point of entrance to the distribution system and is calibrated as per the manufacturer's instructions.

Condition 2.1(f) All water sampling and analysis was completed in accordance with Ontario Regulation 459/00.

Condition 2.1(g) All water samples collected to satisfy clause (f) above have a composition which is representative of the water stream from which they are taken, and also in accordance with the instructions provided by the accredited laboratory performing the analysis.

<u>Condition 2.2</u> All records and information related to or resulting from the monitoring, sampling, and analyzing activities required by the C of A are retained for a minimum of five (5) years from the date of their creation.

In addition to providing a Statement of Compliance, C of A Condition 4(c)(i), requests a detailed description of the measures taken to ensure compliance with all of the terms and conditions of this Certificate, Conditions 3.1 through 3.14, and the requirements of the "Ontario Drinking Water Standards", including any supporting data or other information. As stated earlier the Terms and Conditions of this approval are defined under Condition 1 - Performance.

The following tables represent a detailed description of the measures taken to ensure compliance with this Certificate, including any supporting data or other information.

Chesterville WTF - Compliance With Terms and Conditions of the Certificate of Approval

Conditions 3.1 through 3.14: Operations and Maintenance

Condition 3.1 - The Owner, when making decisions within its authority, considered the impact of these decisions on the drinking water source for water works approved by this Certificate. As such, the Municipality, in conjunction with the Raisin Region Conservation Authority and the Ministry of the Environment initiated a regional groundwater study. The primary goal of the study is to develop effective groundwater strategies and promote groundwater source protection. The primary objectives of the study are to define wellhead protection areas, assess contaminant sources and contaminant pathways, and recommend components of a groundwater protection strategy.

<u>Condition 3.2</u> - There were no repairs to the water supply or distribution system, or interruptions in the operation of the water supply in 2002 that resulted in negative pressure conditions in the distribution system. A contingency plan has been developed to be followed should such an event occur.

Condition 3.3 - The OCWA, on behalf of the owner, ensured that there was an operator who holds a valid licence that is applicable to the Chesterville Water Treatment Facility, and that is of the same class as or higher class than the class determined for the water treatment plant in accordance with O. Reg 435/93, as amended from time to time, and who was responsible for the operation of the water treatment plant.

Condition 3.4 -The OCWA, in conjunction with the owner, ensured that, at all times, the works and the related equipment and appurtenances used to achieve compliance with this certificate were properly operated. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all proceedures, and other requirements of the certificate and the Act and regulations, adequate laboratory facilities, process controls and alarms, and the use of process chemicals and other substances that come in contact with water being treated, that are suitable for the process, compatable with each other, and appropriate for drinking water.

<u>Condition 3.5</u> - The OCWA, on behalf of the owner, ensured that all chemicals used in the treatment process and all materials contacting the water met both the American Water Works Association (AWWA) quality criteria as set out in AWWA standards and the American National Standards Institute (ANSI) safety criteria as set out in ANSI standard NSF/60 or NSF/61.

<u>Condition 3.6</u> - The OCWA, on behalf of the owner, was not notified by the Director to discontinue use of any chemical.

Condition 3.7 - The OCWA, on behalf of the owner, has established written procedures for notification of the Medical Officer of Health and the Ministry of the Environment required by O.Reg 459/00, and ensured that these procedures are followed. These procedures have been prepared as part of OCWA's Environmental Management System (EMS) and are contained in the site specific Environmental Contingency Plan binder. A copy of these procedures are attached as Appendix I.

Conditions 3.1 through 3.14: Operations and Maintenance (cont'd)

Condition 3.8 - The OCWA, on behalf of the owner, has established site specific contingency plans and procedures and ensure that adequate equipment and material are available for dealing with emergencies, upset conditions and equipment breakdowns in the works, and that such plans and procedures are implemented. This will be available for inspection by Ministry personnel and/or the public upon request.

<u>Condition 3.9</u> - The OCWA, on behalf of the owner, provided an operations manual that incorporated, at a minimum, the requirements of the C of A, and any adopted operation and maintenance recommendations of the Engineer's Report based on which this Certificate has been issued.

<u>Condition 3.10</u> - The OCWA, on behalf of the owner, has ensured that the operations manual includes any monitoring and reporting of necessary raw water and in-process parameters that are essential for control of the treatment process. The manual also contains procedures that are required for adequate operation and maintenance of the monitoring equipment.

Condition 3.11 - In 2002, there were no new water works completed.

Condition 3.12 - The Owner ensured that a Process and Instrumentation Diagram (PID) for the entire water treatment plant was prepared and kept-up-to date, including timely incorporation of all modifications made to the works throughout its operations life. A copy of these drawings is stored either at the facility or at the OCWA Hub Office, and will be made available for inspection by Ministry personnel upon request.

<u>Condition 3.13</u> - The Owner keeps a complete set of up-to-date drawings and diagrams required to be prepared by Conditions 3.11 and 3.12, and all existing record drawings which are currently in retention throughout the operational life of the water works, and shall make them readily available for inspection by Ministry personnel upon request.

<u>Condition 3.14</u> - The OCWA, on behalf of the owner, has established procedures for receiving, responding to, and recording complaints about any aspects of the works, including recording the steps that were taken, if any, to determine the cause of the complaint and the corrective measures taken to alleviate the cause and prevent its reoccurrence.

Attached as Appendix II, please find a blank copy of a Community Complaint Report. OCWA staff record all pertinent information regarding the complaint including the facility name and address, the complainant's name, date of complaint, nature of complaint, complaint description, and action taken in response. Once the compliant has been addressed and remedied, all pertinent information is recorded and stored in an electronic database created by the OCWA. Currently OCWA staff are required to submit all community complaints forms (if any) to the Hub Office.

Condition 4: Annual Compliance Report

Condition 4.1(a) The Owner shall ensure that a written report detailing compliance with all terms and conditions of this approval is completed annually ("Compliance Report").

Condition 4.1(b) The first Compliance Report shall cover a period commencing not later than the date indicated in the C of A and shall be completed and made available not later than March 31 of the following year. Each subsequent Compliance Report shall be completed and made available not later than March 31 following the end of the calendar year to which the Compliance Report applies.

Condition 4.1(c) A Compliance Report shall include, at a minimum, the following information:

- (i) Under a heading of 'Compliance with Terms and Conditions of the Certificate of Approval', a statement as to compliance with all of the terms and conditions of the Certificate and a detailed description of the measures taken to ensure compliance with the Certificate, including any supporting data or other information;
- (ii) In the event of any non-compliance during the reporting period, and under a heading of 'Non-Compliance with Terms and Conditions of the Certificate of Approval', details of the non-compliance as well as details of how and when any non-compliance was corrected;
- (iii) A summary and discussion of the quantity of water supplied during the reporting period compared to the rated capacity specified in this Certificate of approval, including monthly average and maximum daily flows;
- (iv) A summary of records made under Condition 2.1 related to flow rate exceedances, and a summary of analytical results of sampling required by the Certificate, including raw water and in-process parameters as specified in the operations manual in accordance with Condition 3.10; and
- (v) A summary listing treatment chemicals used, including average dosage rates with special reference to any abnormal usages.

Condition 4.1(d) The Compliance Report shall be signed by a person designated by the Council of the municipality that owns the works.

<u>Condition 4.1(e)</u> Within three months of completion of the Compliance Report, the Owner shall confirm by a resolution of council that the Compliance Report has been presented to Council.

Condition 4.1(f) The Owner shall ensure that copies of the Compliance Report are available for inspection by any member of the public during normal business hours without charge and at the same location as that required by s.ll of O.Reg. 459/00 for reports under that regulation. Each 4th quarter report required under section 12 of that regulation shall include information about when the Compliance Report is required to be completed, an outline of the requirements for its contents, and the location where the completed report can be inspected.

Condition 5: Upgrading Requirements

Condition 5.1(a) The Municipality has contracted Stantec Consulting Ltd. to ensure that a free chlorine residual of >0.2 mg/L after adequate contact time and before the first customer is maintained in all disinfected water entering the distribution system in accordance with the requirements of "Procedure B13-3 Chlorination of Potable Water Supplies in Ontario".

Condition 5.1(b)

- (i) The Municipality has contracted Stantec Consulting Ltd. to ensure the installation of chlorination equipment (duty and stand-by) at Well No. 5.
- (ii) The Municipality has contracted Stantec Consulting Ltd. to ensure that stand-by chlorine solution tanks are provided at all chlorination points,
- (iii) The Municipality has contracted Stantec Consulting Ltd. to ensure spill containment is provided for all chlorine solution tanks,
- (iv) A pump has been installed in stand-by Well No. 5, and
- (v) The Municipality has contracted Stantec Consulting Ltd. to ensure that pipe work and seal openings inside the water storage reservoir are modified to protect potential entry of surface water.

Condition 5.2 There were no new water works completed in 2002.

Condition 5.3 Stantec Consulting Ltd. is in the process of submitting an application for approval under the Ontario Water Resources Act or the Environmental Protection Act on behalf of the municipality to the Ministry of the Environment to allow construction necessary to comply with requirements of Condition 5.1 above.

Physical improvements at Well No. 1 (not used) are dependent on finding a new well or re-rating Well No. 5. The Municipality has contracted Golder Associates to proceed with this work. Construction of this work will proceed when the Ministry of the Environment and Council have confirmed the preferred option.

<u>Condition 5.4</u> The Municipality has contracted Stantec Consulting Ltd. to ensure that the design of the proposed physical improvements are based on the complete raw water characterization data.

Chesterville WTF - Compliance With Terms and Conditions of the Certificate of Approval

Condition 6: Subsequent Engineer's Reports

Condition 6.1 The Owner will ensure that a second Engineer's Report will be prepared no later than July 31, 2003, or as amended by the Ministry of the Environment

<u>Condition 6.2</u> The owner will ensure that subsequent Engineer's Reports will be submitted to the Director not later than the third anniversary of the previous report, or as amended by the Ministry of the Environment.

Condition 7: Revocation of Existing Certificates of Approval

All previous water treatment facility Certificates of Approval have been replaced with C of A # 5513-5K5U23.

Any works Certificate of Approval which are not subject to C of A # 5513-5K5U23 remain in force. (i.e., distribution system or its portion including distribution storage facilities not associated with a water treatment process).

Chesterville WTF - Compliance With Terms and Conditions of the Certificate of Approval

Condition 8: Information

Condition 8.1 The requirements in this Certificate shall not be construed as limiting in any way the ability of the Ministry to request or require the Owner to furnish any information related to compliance with this Certificate, as limiting in any way the authority of the Ministry to require certain steps be taken, or as evidence of the fulfillment of the obligation to report or notify of non-compliance where reporting or notification is required by a statute, regulation, order or other approval.

Condition 8.2 In the event the Owner provides the Ministry with information, records, documentation or notification in accordance with this Certificate ("Information"),

- (a) the receipt of the Information by the Ministry;
- (b) the acceptance by the Ministry of the Information's completeness or accuracy; or
- (c) the failure of the Ministry to prosecute the Owner or to require the Owner to take any action, under this Certificate or any statute or regulation in relation to the Information shall not be construed as an approval, excuse or justification by the Ministry of any act or omission of the Owner relating to the Information, amounting to non-compliance with the Certificate.

Chesterville WTF - Compliance With Terms and Conditions of the Certificate of Approval

Condition 9: Change of Ownership

- Condition 9.1 (a) Neither the Owner nor the Operating Authority changed in 2002.
 - (b) The address for the Owner changed in 2002 and the Ministry was duly notified.
 - (c) The Owner did not enter into a partnership in 2002.
 - (d) Neither the Owner nor the Operating Authority incorporated or changed names in 2002.

Condition 9.2 Ownership of this facility did not change in 2002

<u>Condition 9.3</u> Communications with the Ministry relating to Conditions 9.1 and 9.2 included reference to the C of A number.

Chesterville WTF - Compliance With Terms and Conditions of the Certificate of Approval

Condition 10: Interpretation (Severability and Conflicts)

Condition 10.1 The requirements of this Certificate are severable. If any requirement of this Certificate, or the application of any requirement of this Certificate to any circumstance, is held invalid, the application of such requirement to other circumstances and the remainder of this Certificate shall not be affected thereby.

Condition 10.2 In all matters requiring the interpretation and implementation of this Certificate; the conditions of the Certificate shall take precedence, followed by the documentation submitted in support of the applications associated with any previously issued Certificates of approval for works which are part of the works approved by this Certificate.

The following is a detailed description of the measures taken to ensure compliance with the requirements of the "Ontario Drinking Water Standards", dated January 2001, as amended from time to time.

Chesterville WTF - Compliance Measures With Respect to The Ontario Drinking Water Standards

Measures Taken to Ensure Compliance

The Ontario Drinking Water Standards (ODWS) are established to assist with meeting the legislated requirements governing water works under the Ontario Water Resources Act (OWRA) and should be used in conjunction with the Drinking Water Protection Regulation.

In Section 2.3 of the ODWS, the Municipality ensures responsibility for water quality, even though a third party (OCWA) is contracted for the treatment and/or distribution of water and acts as a statutory agent for the Municipality. OCWA has ensured that a protocol has been established for the purpose of notification and corrective action. The protocol is attached as Appendix I.

The Ontario Clean Water Agency ensures compliance is met with the requirements of the ODWS by operating the water treatment facility so that water intended for human consumption does not exceed the standards described in the ODWS. These standards are defined as Maximum Acceptable Concentration (MAC) standards, and Interim Maximum Acceptable Concentration (IMAC) standards. In the event that ODWS standards are exceeded, OCWA will follow the requirements of Sections 8, 9 and 10 of O.Reg 459/00 - notifying the Medical Officer of Health and the MOE, perform corrective action as required, and if necessary, post a warning notice in a prominent location. This procedure is provided in Appendix I.

OCWA also operates the water treatment facility so that aesthetic objectives (which are non health related) are controlled to ensure efficient and effective treatment and distribution of water.

The raw water supplied at the Chesterville Water Treatment Facility is from a groundwater source. The Chesterville Water Treatment Facility complies with the minimum level of water treatment which is equivalent to chlorine disinfection.

The Ontario Clean Water Agency also ensures compliance with the ODWS by establishing a sampling schedule based on O Reg 459/00, Schedule 2, and section 2(1)(e) through 2(1)(g) of the facility C of A. All sampling is performed in accordance with the Ministry of the Environment's "Guide to Collection and Submission of Samples for Laboratory Analysis". Compliance is also ensured by having all laboratory samples analyzed by a laboratory accredited by the Canadian Association for Environmental Analytical Laboratories (C.A.E.A.L.) of Canada.

All water supplied by the Chesterville Water Treatment Facility is disinfected to meet those requirements described in Procedure B13-3 Chlorination of Potable Water Supplies in Ontario.

SECTION 2 "Non-Compliance With Terms and Conditions of the Certificate of Approval"

In accordance with C of A Condition 4(c)(ii), in the event of any non-compliance during the reporting period, and under a heading of "Non-Compliance with Terms and Conditions of the Certificate of Approval" provide details of the non-compliance as well as details of how and when any non-compliance was corrected.

The following table provides a detailed description of non-compliance with the terms and conditions of the C of A.

Chesterville WTF - Non-Compliance With Terms and Conditions of the Certificate of Approval

Performance

Condition 1.5 The disinfection facilities for Well No. 1 in the Chesterville Water Treatment plant were NOT operated and maintained in accordance with the Ministry Procedure B13-3 entitled "Chlorination of Potable Water Supplies in Ontario", dated January 2001, as amended from time to time. Well No. 1 was not in use in 2002.

Monitoring and Recording

Condition 2.1(a)(i): A sufficient number of flow measuring devices are NOT installed to measure the daily quantity and flow rate of water being taken from each well. The installation of a flow meter on the stand-by well flush line will be necessary. Stantec Consulting Ltd. has been contracted by the Municipality of North Dundas to implement this work.

Condition 2.1(c): Total daily flows and daily peak flows are NOT recorded. Software modifications to the existing SCADA system will be necessary to record daily flows and daily peak flows. Stantec Consulting Ltd. has been contracted by the Municipality of North Dundas to implement this work.

Condition 2.1(d): The date, time, duration and cause of any flow rate exceedence CANNOT be recorded. Software modifications to the existing SCADA system will be necessary to record daily flows and daily peak flows. Stantec Consulting Ltd. has been contracted by the Municipality of North Dundas to implement this work.

The following table provides a detailed description of non-compliance with the requirements of the "Ontario Drinking Water Standards".

Chesterville WTF - Non-Compliance With The Ontario Drinking Water Standards

During the First Quarter of 2002, Sodium was found to exceed the Ontario Drinking Water Standards concentration of 20 mg/L as set out in Ontario Regulation 459/00. The result of the first sample was 23 mg/L. The Ministry of Environment and the Ministry of Health were immediately notified as per the Ontario Drinking Water Standards. Results of subsequent resampling were 26 mg/L.

On May 19, 2002 a turbidity exceedance spike of 1.2 NTU was reported. This has been attributed to iron buildup in the turbidimeter feed line. The Ministry of Environment and the Ministry of Health were immediately notified as per the Ontario Drinking Water Standards. Free chlorine residuals were over 1.0 mg/L

During routine fire hydrant flushing on May 24, 2002, the fire flow pumps were exercised. A subsequent turbidity exceedence of 5.2 NTU was reported. The Ministry of Environment and the Ministry of Health were immediately notified as per the Ontario Drinking Water Standards. Free chlorine residuals were over 1.0 mg/L.

On October 7, 2002, a distribution sample collected at the Nestle's Lagoon Laboratory sink faucet exceeded the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. The sample was found to have an overgrown HPC count. There were no E. Coli or Total Coliforms present. The Ministry of Environment and the Ministry of Health were immediately notified as per the Ontario Drinking Water Standards. Subsequent resampling as per O. Reg. 459/00 was completed with no adverse results.

On October 21, 2002, the treated water sample collected at Well # 5 exceeded the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. The sample was found to have an overgrown HPC count. There were no E. coli or Total Coliforms present. The Ministry of Environment and the Ministry of Health were immediately notified as per the Ontario Drinking Water Standards. Subsequent resampling as per O. Reg. 459/00 was completed with no adverse results.

SECTION 3 Summary & Discussion of Quantity of Water Supplied, etc.

In accordance with Certificate of Approval Condition 4(c)(iii), attached find a summary and discussion of the quantity of water supplied during the reporting period compared to the rated capacity specified in this Certificate of Approval, including monthly average and maximum daily flows;

The rated capacity specified in this C of A for the Chesterville Water Treatment Facility is 818 m³/day (568 L/min) for Well No. 1 and 1987 m³/day (1380 L/min) for Well No. 5. The monthly average flow for the reporting period was 596 m³/day, and the maximum daily flow for the reporting period was 853 m³/day.

Attached as Appendix III, find a summary of raw water flows including total, average, and maximum day flows during the reporting period.

The quantity of water supplied during the reporting period did not exceed the rated maximum capacity.

SECTION 4 Summary of Records Related to Flow Rate Exceedances, and a Summary of Analytical Results of Sampling

In accordance with Certificate of Approval Condition 4(c)(iv) find a summary of records made under Condition 2.1 related to flow rate exceedances, and a summary of analytical results of sampling required by the Certificate, including raw water and in-process parameters as specified in the operations manual in accordance with Condition 3.10 as follows;

Flow Rate Exceedances:

<u>Certificate of Approval Condition 2.1(d)</u> as previously identified in Section 2, the necessary equipment is not in place to monitor well flow rates in L/min as specified in the PTTW.

Summary of Analytical Results of Sampling:

Samples of raw and treated water have been collected and analyzed for parameters at locations and frequencies in accordance with Ontario Regulation 459/00. A copy of the analyses performed during the reporting period are found in Appendix IV. The summary report provides microbiological results for Raw, Treated, and Distribution system samples, in-house process parameters such as Free and Total Chlorine Residuals, and Turbidity results. The tables summarize the results for treated water Volatile Organics results, Inorganic Chemical results, and Pesticides and Polychlorinated Biphenyl (PCB) results.

SECTION 5

Summary Listing Treatment Chemicals used, including average dosage rates with special reference to any abnormal usages.

Attached as Appendix V is a summary listing the treatment chemicals used at the Chesterville WTF during the reporting period along with the corresponding treated water flows.

The treatment system provides disinfection. The type of chemicals used in the system are as follows:

1. <u>Sodium Hypochlorite</u> - A 12% solution of sodium hypochlorite is used for disinfection. It is fed to a single injection point located in the water pumping station. The flow of hypochlorite is controlled at the metering pump. The frequency and stroke length can be adjusted to achieve the desired flow. The chemical dosage range is 1.20 to 1.65 mg/L. Free chlorine residual is measured at the outlet of the pumping station. A chlorine residual of <0.5 mg/L at the pumping station will lock out the duty well pump. The chlorine residual is maintained at 0.5 to 1.5 mg/L to ensure the water meets the minimum of 0.2 mg/L free chlorine residual at the furthermost point in the distribution system.

Interpretation of Results:

The chemical dosage amounts used during the reporting period were consistent with the water demands of the system (i.e. flow). A review of the results shows that there were no abnormal usages of treatment chemicals during the reporting period.

END

APPENDIX I

Written Procedures for Notification of the Medical Officer of Health

&

the Ministry of the Environment Spills Action Centre

Date of Update: February 10, 2003

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

Approved by: Blair Henderson

Chesterville Water Treatment Facility

ADVERSE WATER QUALITY

CLASSIFICATION:

Compliance - Regulatory (O. Reg. 459/00)

SOLUTION: To report indicators of adverse water quality, OCWA as the operating authority will be acting on behalf of the owner (client) to fulfil the obligations on notifications to the proper authority i.e.. Ministry of the Environment Spills Action Centre (SAC), Medical Officer of Health (MOH) and the Owner of the water works (client).

- 1. <u>Laboratory</u> will notify water works sampler (operating authority, i.e. OCWA) of an adverse water quality sample, verbally by telephone and by faxing the notification form, Notice of Drinking Water Analysis and Remedial Action for Waterworks, Part 1- Notification by Laboratory. To the (operating authority, i.e. OCWA)
- 1.(a) Laboratory will notify the Ministry of the Environment, Spill Action Centre and the Local Medical Officer of Health or his/her designate.
- 2. The operating authority will **immediately** notify the Ministry of the Environment, Spills Action Center at 1-800-268-6060 or 1-416-325-3000 and **immediately** notify the area Medical Officer of Health 1-800-267-7120. The operating authority must record the **name** of the person the notification was reported to, the **time** and **date** of the incident, and record the information in the water works daily plant log at the water works plant for OCWA verification.
- 3. After receiving Part 1, Notification faxed by Laboratory, the operator must fill out the section labelled Part 2 (Notification by Waterworks Owner).
- 4. The filled out form Part 1 and Part 2(**Notice of Drinking Water Analysis and Remedial Actions for Waterworks as Required under Drinking Water Protection Regulation**) is to be faxed to SAC MOE (1-800-268-6061 or 1-416-325-3011) and to the local MOH 1-613-933-7930.

This Plan is for review and guidance purposes. Every precaution reasonable must be taken. Specific plans and response actions may vary.

PAGE 1

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

Approved by: Blair Henderson

Chesterville Water Treatment Facility

Indicators of Adverse Water Quality:

• E.Coli, fecal coliform, or total coliform detected in any required sample other than a raw water sample.

Corrective Action: Increase the chlorine dosage and flush the mains to ensure that a total chlorine residual of at least 1.0 mg/L or a free chlorine residual of 0.2 mg/L is achieved at all points in the affected parts of the distribution system. Resample and analyze. Corrective action should begin immediately and continue until bacteria are not detected in two consecutive sets of samples, or as instructed by the local Medical Officer of Health.

 Unchlorinated water is directed to the distribution system, where chlorination is used or required. This includes water in the distribution system which has less than 0.05 mg/L of free chlorine when tested.

<u>Corrective Action</u>: Restore chlorine immediately and follow instructions as directed by local Medical Officer of Health.

 Samples other than raw water samples contain more than 500 colonies per mL on an HPC plate count or more than 200 background colonies on a total coliform membrane filter analysis.

<u>Corrective Action</u>: Resample and analyze. On confirmation, call the local Medical Officer of Health again and consult.

• Aeromonas spp., pseudomonas aeruginosa, staphylococcus aureus, clostridium spp., or fecal streptococci (group D) are detected in samples other than raw water.

<u>Corrective Action</u>: Resample and analyze. On confirmation, call the local Medical Officer of Health again and consult.

• Laboratory results show that a parameter exceeds the MAC or IMAC set out for the parameters in Schedule 4 or 5.

<u>Corrective Action</u>: Resample and analyze. On confirmation, call the local Medical Officer of Health again and consult.

Date of Update: February 10, 2003

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

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Chesterville Water Treatment Facility

Resampling: should consist of a minimum of 3 samples to be collected for each positive sampling site: one sample should be collected at the affected site; one at an adjacent location on the same distribution line; and a third sample should be collected some distance upstream on a feeder line toward the water source. The chlorine residual and the time of sampling for each site should also be noted at each sampling location. The collection of three samples is considered the minimum number for each positive sampling site. The measurement of the chlorine residual in the vicinity of the positive sampling site may assist in determining the extent of the contamination within the distribution system.

Posting Warning Notice

If resample analysis still shows contamination then a warning notice must be posted. At all effective area of the water system. Section 10 - Positing Warning Notice Reg. 495/00.

This statement will change with the level of water contamination. In some cases the water contamination maybe very difficult to correct and pending on the chemical analysis involved this may require some sort of special treatment process to correct the problem. The local medical officer of health may go directly to an MOH order.

Owner/Operator must post a warning notice to the public in the following situation:

- (1) non compliance with sampling and analysis requirements of Section 7(1) for microbiological parameters (set out in Schedule 2 or as an additional requirements of an approval, order or direction) Reg./495/00; or
- (2) if notice is required to be given to the Local Medical Officer of Health and the Ministry of the Environment because of a microbiological parameter in Schedule 6 and the owner has not taken corrective action for an indicator of adverse water quality set out in Schedule 6. Reg. 495/00

This Plan is for review and guidance purposes. Every precaution reasonable must be taken. Specific plans and response actions may vary.

PAGE 3

Date of Update: February 10, 2003

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

Approved by: Blair Henderson

Chesterville Water Treatment Facility

Where Should the Notice be posted? (Section 10 (2) and (3)) Reg. 495/00

The notice should be posted in such a place where it would be easy for members of the community to see it. If the owner doesn't post the notice, a provincial officer from the Ministry of the Environment or the public health inspector may post warning and issue a Provincial Officer's Order.

Notifying the Press

All press related issues will be handled by the Client Service Representative (CSR) or the Hub manager.

This Plan is for review and guidance purposes. Every precaution reasonable must be taken. Specific plans and

APPENDIX II

Blank Community Complaints Form

Ontario Clean Water Agency Community Complaints

Facility ID:		
Facility Name:		
Address:		
City:		
Province:		
Postal Code:		
Name of Person who filed Complaint:		
	complaints, provide the name of t er and details in the "Description'	
Date of Complaint:	03/19/2003	
Time of Complaint:	11:35:13 AM `	
☐ Visual ☐ Odour Other: Description:	☐ Service Problem ☐ Sludge Related	☐ Basement Flooding
Action taken in response:		
	m identified?: () Yes () No acility/activity?: () Yes () No	If "Yes", describe:

If any remedial action is required, complete action plan form

Updated By: Kimberley Baker 03/19/2003 11:35:13 AM

Comments:

APPENDIX III

Annual Summary of Raw Water Flows

Annual Record Of Ground Water Taking Registre annuel de prélèvement d'eau souter.

al information contained on this form is collected under the authority of the Ontario Water Resources Act, Section 20. The Purpose of the form cord details and information about the taking of water annually. Questions should be directed to the Ministry of the Environment's Regional office in your area.

Les renseignements personnes qui figurent dans le présent formulaire sont resueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. La présente sert à consigner aux dossiers les détails et les renseignements concernant la prise d'eau annuelle. Priére d'adresser toute Question au bureau régional du ministère de l'Environnement le Plus proche.

ear: 2002				Permit No.: N° de permis	89-P-4052		
ource: Groun	ndwater Well #5						
lame of Permitte Iom du titulaire du	e: VILLAGE OF CHE permis	STERVILLE					
Aailing Address:	O.C.W.A. 5 INDU	STRIAL DRIVE CHE	STERVILLE , ON	K0C1H0			
ocation Of Takin ieu de la prise d'ea	•	Twp. or Municipality Canton ou municipality NORTH DUNDA	é		Concession: CON. 5	Lot: LOT 12	
Date Of Taking Date de la prise d'e	Hours Of Taking au Heure	Rate Of Taking Litres/sec Débit de prise d'eau	Amount Of Taking m ³ Volume des prises		Rate of Taking m ³ /day rement maximum	Remarks Observations	
JAN	319.81	15.36	17,680		663		
FEB	293.30	15.21	16,071		655		
MAR	318.70	15.17	17,415		706		
APR	304.00	15.23	16,665		706		
MAY	338.50	14.82	18,033		701		
JUN	325.00	15.41	18,057		831		
JUL	360.70	15.59	20,252		798		
AUG	377.00	15.67	21,284		852		
SEP	293.40	15.72	18,840		740		
OCT	328.70	15.96	18,726		805		
NOV	288.40	15.10	15,674		625		
DEC	298.30	15.59	16,744		580		

J'atteste que les renseignements ci-dessus sont vrais, complets et exacts.

Signature Date

Davelbuller Jan 23/23

Ministry Of The Environment Ministère de l'Environnement

Annual Recall Of Ground Water Taking Registre annuel de prélèvement d'eau soutene

nal information contained on this form is collected under the authority of the Ontario Water Resources Act, Section 20. The Purpose of the form cord details and information about the taking of water annually. Questions should be directed to the Ministry of the Environment's Regional office in your area.

Les renseignements personnes qui figurent dans le présent formulaire sont resueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. La présente sert à consigner aux dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toute Question au bureau régional du ministère de l'Environnement le Plus proche.

Year: Année	2002				Permit No.: N° de permis	88-P-4083		
Source:	GROUN	NDWATER WELL#	1					
	Permittee: itulaire du per	VILLAGE OF CHE	STERVILLE					
Mailing A		O.C.W.A. 5 INDU	STRIAL DRIVE CHE	ESTERVILLE , ON	K0C1H0			
Lieu de la	Of Taking: prise d'eau JEEN ST.	WEST	Twp. or Municipality Canton ou municipality NORTH DUNDA	té		Concession:	Lo	t:
Date Of	Taking a prise d'eau	Hours Of Taking Heure	Rate Of Taking Litres/sec Débit de prise d'eau	Amount Of Taking m ³ Volume des prises		Rate of Taking m ³ /day ement maximum	Remarks Observations	
JA FE MA AP MA JU JU SE OCO NO DE	B R R N N L G C P							
		e information is true, c seignements ci-dessu	omplete and accurate. s sont vrais, complets	et exacts.	Signature awkm	A ,	Date Som 33/	63

APPENDIX IV

Raw, Treated, & Distribution Analytical Results.

ONTARIO CLEAN WATER AGENCY WATER PLANT PERFORMANCE ASSESSMENT REPORT

MUNICIPALITY:

CHESTERVILLE

PROJECT:

CHESTERVILLE WATER SUPPLY

PROJ. NUM.:

6-0046-59-00

WORKS NUM.: **DESCRIPTION:**

210000728

YEAR:

WATER SOURCE:

GROUNDWATER

2002

DESIGN CAP.: 2.781 X 1000 M3/d

A TWO WELL PUMPING SYSTEM WITH A THIRD WELL FOR STANDBY A .655m3 RESERVOIR AND FOUR HIGH LIFT PUMPS.

WELL #1 WHICH UTILIZES SODIUM SILICATE FOR IRON CONTROL. DISINFECTION IS WITH SODIUM HYPOCHLORITE.

MONTH	SYSTEM	I FLOWS (T	REATED)	PHYSICAL	CHEMICA	L DISIN	IFECTION		BACTI (IN	DICATE NO.	OF SAMPL	ES)		
	TOTAL	AVG DAY	MAX DAY	AVG	AVG	AVG FREE	AVG TOT.	MIN FREE	E.C. / T.C. N	lot Detected	E.C. / T.C	. Detected	RAW	WATER
}	FLOW	FLOW	FLOW	TURB.	SODIUM	CL2 RESID	CL2 RESID	.CL2 RESID.	HPC ·	< 500	HPC	>500	E.	COLI
	1000 m3	1000 m3	1000 m3	(NTU)	(mg/l)	(mg/l)	(mg/l)	DIST(mg/l)	TREAT	DIST	TREAT	DIST	TAKEN	DETECTED
JAN	18.340	0.592	0.688	0.12	23.00	1.11	1.17	0.90	15	30	0	0	5	0
FEB	16.948	0.602	0.655	0.11		1.07	1.20	0.93	12	28	0	0	4	0
MAR	18.093	0.584	0.730	0.09		1.10	1.11	0.70	12	28	0	0	4	0
APR	17.200	0.573	0.730	0.06		1.06	1.11	0.70	15	35	0	0	5	0
MAY	19.467	0.628	0.769	0.28		1.16	1.13	0.60	12	28	0	0	4	0
JUN	18.114	0.604	0.819	0.18		1.20	1.19	0.90	12	28	0	0	4	0
JUL	19.608	0.633	0.752	0.12		1.14	1.26	0.70	15	38	0	0	5	0
AUG	20.087	0.648	0.792	0.13		1.03	1.06	0.70	12	28	0	0	4	0
SEP	18.291	0.610	0.712	0.12		1.24	1.27	0.40	15	35	0	0	5	0
OCT	18.670	0.602	0.814	0.10		1.08	1,17	0.60	17	51	1	1	6	0
NOV	15.877	0.529	0.623	0.11		1.07	1.19	0.91	12	28	0	0	4	0
DEC	16.866	0.544	0.853	0.11		1.10	1.19	0.68	15	35	0	0	5	0
TOTAL	217.6								164	392	1	1	55	0
AVG		0.596		0.13	23.00	1.11	1.17							
MAX			0.853	0.28	23.00			0.40						
CRITERIA				1.00	20.00	4.00		0.05						
							-							
MEETS OD	WS (YES/N	O)		YES	NO	YES		YES						1

COMMENTS:	WELL # 1 IS NOT BEING UTILIZED TO PROVIDE WATER TO THE DISTRIBUTION SYSTEM.

Chemical Sampling Results

Table B: Volatile Organics

Parameters	Units	Treated	System	MAC	IMAC	AO
Benzene	ug/L	< 0.5		5		
Carbon Tetrachloride	ug/L	< 0.9		5		
Dichloromethane	ug/L	<4.0		50		
1,2-Dichlorobenzene	ug/L	< 0.4		200		3
1,4-Dichlorobenzene	ug/L	< 0.4		5		1
1,2-Dichloroethane	ug/L	< 0.7			5	
1,1-Dichloroethylene	ug/L	< 0.5		14		
Ethylbenzene	ug/L	< 0.5				2.4
Monochlorobenzene	ug/L	< 0.2		80		30
Tetrachloroethylene	ug/L	< 0.3		30		
Toluene	ug/L	< 0.5				24
Trichloroethylene	ug/L	< 0.3		50		
Vinyl Chloride	ug/L	< 0.5		2		
Xylene	ug/L	< 2.0				300
Bromodichloromethane	ug/L	1.4 - 2.6	0.8 - 1.6			
Bromoform	ug/L	< 0.4	< 0.4			
Chloroform	ug/L	1.7 - 4.5	1.1 - 2.1			
Dibromochloromethane	ug/L	1.0 - 2.6	0.7 - 1.0			
TOTAL THMs	ug/L	4.1 - 9.7	2. <u>6 -</u> 9.3	100		

- MAC Maximum Acceptable Concentration.
- IMAC Interim Maximum Acceptable Concentration.
- AO Aesthetic Objective

Table C: Inorganics

Parameters	Units	Treated	System	MAC	IMAC	AO
Arsenic	mg/L				0.025	
Barium	mg/L			1.0		
Boron	mg/L				5.0	
Cadmium	mg/L			0.005		
Chromium (Total)	mg/L			0.05		
Copper	mg/L					1.0
Iron	mg/L	< 0.01				0.30
Lead	mg/L		< 0.001	0.01		
Manganese	mg/L					0.05
Mercury	mg/L			0.001		
Nitrite	mg/L	< 0.1		1.0		
Nitrate	mg/L	< 0.1		10.0		
Selenium	mg/L			0.01		
Uranium	mg/L			0.10		
Fluoride	mg/L	0.15		1.50		
Sodium	mg/L	23 - 26				200.00
Colour	TCU	<2	<2			5.00
Comments:						

Sodium exceeded ODWS of 20 mg/l at Well No. 5.

Table D: Pesticides & PCB

Parameters	Units	Treated	MAC	IMAC	AO
Alachlor	ug/L	<0.5		5.0	
Aldicarb	ug/L	< 5.0	9.0		
Aldrin + Dieldrin	ug/L	<0.012 - <0.07	0.7		
Atrazine	ug/L	<0.5 - <1.0		5.0	
Azinphos-methyl	ug/L	<2.0	20.0		
Bendiocarb	ug/L	<2.0	40.0		
Bromoxynil	ug/L	< 0.5		5.0	
Carbaryl	ug/L	< 5.0	90.0		
Carbofuran	ug/L	< 5.0	90.0		
Chlordane	ug/L	<0.012 - <0.7	7.0		
Chlorpyrifus	ug/L	<1.0	90.0		
Cyanazine	ug/L	<1.0		10.0	
Diazinon	ug/L	<1.0	20.0		
Dicamba	ug/L	<1.0	120.0		
2,4-Dichlorophenol	ug/L	< 0.5	900.0		0.3
DDT + Metabolites	ug/L	<0.024 - <3.0	30.0		
2,4-Dichlorophenoxy acetic acid	U				
(2,4-D)	ug/L	<1.0		100.0	
Diclofop-methyl	ug/L	< 0.90	9.0	100.0	
Dimethoate	ug/L	< 2.5		20.0	
Dinoseb	ug/L	<1.0	10.0		
Diquat	ug/L	< 7.0	70.0		
Diuron	ug/L	<10	150.0		
Glyphosate	ug/L	<10	100.0	280.0	
Heptachlor + Heptachlor epoxide	ug/L	<0.012 - <0.3	3.0	200.0	
Lindane	ug/L	<0.006 - <0.4	4.0		
Malathion	ug/L	<5.0	190.0		
Methoxychlor	ug/L	<0.024 - <90	900.0		
Metolachlor	ug/L	<0.5	3 0 0,0	50.0	
Metribuzin	ug/L	<5.0	80.0	50.0	
Paraquat	ug/L	<1.0	00.0	10.0	
Parathion	ug/L	<1.0	50.0	10.0	
Pentachlorophenol	ug/L	< 0.5	60.0		30.0
Phorate	ug/L	< 0.5	00.0	2.0	50.0
Picloram	ug/L	< 5.0		190.0	
Polychlorinated Biphenyls	ug/L ug/L	<0.05 - <0.3		3.0	
Prometryne	ug/L ug/L	<0.25		1.0	
Simazine	ug/L ug/L	<1.0		10.0	
Temephos	ug/L ug/L	<10		280.0	
Terbufos	ug/L ug/L	< 0.7		1.0	
2,3,4,6-Tetrachlorophenol	ug/L ug/L	< 0.5	100.0	1,0	1.0
Triallate	ug/L ug/L	<1.0	230.0		1.0
	_				
2,4,6-Trichlorophenol	ug/L	<0.5	5.0		20.0
2,4,5-Trichlorophenoxy acetic acid	ug/L	<1.0	280.0	45.0	20.0
Trifluralin	ug/L	<1.0		45.0	

APPENDIX V

Summary of Treatment Chemicals Used

Summary of Treatment Chemicals and Average Dosages

Year 2002	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Kilograms of Chlorine used	22.2	20.0	21.8	20.0	21.9	22.9	27.5	31.4	31.0	28.0	20.5	22.9	290.1
Average Chlorine dosage mg/l	1.26	1.25	1.25	1.20	1.21	1.27	1.36	1.48	1.65	1.50	1.31	1.36	

Flow Meter Calibration Schedule

End Date: 12/31/2002

CHESTERVILLE HUB [CHES]

	LE HUB [CHES]	70.50			and the second second	
Equipment ID	Description	Manufacturer	Location	Service Status	Next Scheduled	Last Completed
PRESCOTT W	/WTP [5674]					
0000102096	METER FLOW PLANT EFF SPS6	MILL	FLOW	IN	03/01/2002	03/02/2000
0000102097	METER FLOW PLANT EFF SPS6	MILL.	FLOW	i N	03/01/2002	08/29/2000
0000102098	METER FLOW BYPASS SPS6	MILL	FLOW	IN	03/01/2002	12/21/2000
0000102161	METER FLOW NEW WEXFORD SPS5	ABB	FLOW	IN	03/01/2002	08/29/2000
CHESTERVILL	LE WWTLCS [5677]					
0000101571	METER FLOW RAW SEWAGE	DANF	COLL	, IN	08/01/2002	08/08/2000
WINCHESTER	R WWLCS [5679]					•
0000073413	METER FLOW 01 MAGNETIC LAGOON	ENDRES	COLL	IN	08/01/2001	
0000101696	METER FLOW RAW SEWAGE OTTAWAS	VOLUME	FLOW	IN	08/01/2002	08/08/2000
0000101709	METER FLOW LAGOON DISCH CHAMB	MILL.	FLOW	IN	08/01/2002	08/08/2000
WINCHESTER	R WW&DS [5705]					
0000101751	METER FLOW WELL 04	KENT	DIST	IN	08/01/2002	08/08/2000
√0000101767	METER FLOW DISCH WELL 01	KENT	WWE	IN	08/01/2002	08/08/2000
9000101781	METER FLOW WELL 05	ABB	FLOW	IN	08/01/2002	08/08/2000
0000101803	METER FLOW WELL 06	ABB	FLOW	IN	08/01/2002	08/08/2000
0000101823	METER FLOW DISCHARGE WELL 07	ABB	WWE	IN	08/01/2002	08/08/2000
CHECTEDAIL	LE WW&DS [5708]					
101625	METER FLOW HL TRT RESV BLDG	KENT	HL	IN	08/01/2002	08/08/2000
0000101628	METER FLOW LOW LIFT RESV BLDG	FISH	ш	in -	08/01/2002	08/08/2000
0000101650	METER FLOW WELL 1 DISCH	NEPTU	WWE	IN .	08/01/2002	08/08/2000
		74. 70	*		000 ,,2002	
FINCH WW&	DS [5811]					
0000101219	METER FLOW RAW WATER	ROCK	FLOW	IN	08/01/2002	08/08/2000
0000101247	METER FLOW TREATED WATER	SIGNA	FLOW	IN	08/01/2002	08/08/2000
CHRYSLER W	VWTL [6053]					
0000101150	METER FLOW RAW SEWAGE SPS	ENDRES	COLL	IN	08/01/2002	08/08/2000
CHRYSLER W	VATER WELL SYSTEM [6054]					
0000101100	METER FLOW TREATED DISCH	ENDRES	FLOW	IN	08/01/2002	08/08/2000
MOOSE CREE	EK WWEDS [6608]					
0000101006	METER FLOW 01 WELL FS-1	ENDRES	WWE	iN	08/01/2002	08/08/2000
0000101007	METER FLOW 02 WELL FS-2	ENDRES	WWE	IN	08/01/2002	08/08/2000
0000101008	METER FLOW 03 WELL FS-3	ENDRES	WWE	iN	08/01/2002	08/08/2000
0000101030	METER FLOW TRT WATER	ENDRES	FLOW	IN	08/01/2002	08/08/2000
MOOSE CRE	EK WWLCS [6990]		*			
0000101073	METER FLOW LAGOON DISCH	ABB	FLOW	IN	08/01/2002	08/08/2000
0000101087	METER FLOW RAW SEWAGE LAGOON	ABB	FLOW	IN	08/01/2002	08/08/2000
			•			

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

INST

INSTRUMENT

Equipment Work Order

	leport Date	22/01/2002 02:	24 PM	Submitted By				Page 1
V	Vork Order#	285982	Act	ivity A16	625A MI	ETER FLOW		
Ε	quipment ID	0000101625			Description	METER FLOV	W HL TRT RESV BLD	3
	ite ubunit Of	FAC	5708		Description	CHESTERVILLE	: ww&ds	
-	rea	2	EASTERN/NORTHERN A	REA	Sub-area	CHES	CHESTERVILLE HUE	3
	istrict	NDUN CHESTED/ALLE	TOWNSHIP OF NORTH (WATER TREATMENT SY:		Loc	HL TRT HON	INPLANT HIGH LIFT I	PUMPING
	oc Qualifier	CHESTERVILLE	WATER TREATMENT ST	STEM: METER FLO	W HL RESV BLDG	IKI HZU		
	quipment Type	INSTRU	INSTRUMENTATION		Manufacturer	ABB	ABB KENT INC.	
	uilding ervice Status	RESR IN	WATER RESERVOIR/TAI IN SERVICE (INCL. STAN		Building Level Expected Life	G 25	GROUND LEVEL	
	vg Monthly Usage	720.00	IN OCITAIOE (INOC. OTAL		Total Usage	0.00		
	lodel#	PROCESS MAG	MASTER		Warranty Expires		MTBF	0
	erial #	V82985-1-1			Purchase Date		Purchase Cost	0.00
	udget # sset Comments							
	IAKE: ABB Kent T	YPE: Magmaster						
M	IODEL: Process Mag	gmaster SERIAL:	V/82985/1/1		•			
	NT. DIA: 10" (250 mr	•						
	:AL FAC: 1) 1.26599 INING:	2/3/4) -3/8/1.000						
	INING: PROBE MAT:							
	ONVERTER							
M	IAKE: ABB Kent							
	YPE: Digital		\/00000544					
_	MODEL: Process Ma FL SET 0-1 0 m/s	_	V/82985/1/1 RANGE: 0-100 l/sec.					
	OUTPUT: 4-13.81 m	•	1041GE. 0-100 l/366.					
V	ELOCITY SETTING	0.005.01.02.05	1 m/sec.					
	ANGE 0 864 2,160							
	LOW THEO 0 3.06							
	OUTPUT THEO 44.	49 4.98 5.96 8.9 13	3.81 mAdc					
lr	nitiated By				Initiated D	Date 15/08/2001	Scheduled 1	7/08/2001 00:00
Α	ssigned To		<u> </u>		Service #	:	Due	
Δ	uthorization							
	ludget #							
	rew	CHESTE	CHE	STERVILLE HUB S	STAFF			
	laint Type							
	riority roblem							
	roject	5708	CHE	STERVILLE WW&I	os		Out of Service	
	iource		3.12				Potential Service Reques	_
L	ast Activity	A1625A	MET	TER FLOW			Last Activity Completed	15/08/2001
i	Vork Order Comme Innual inspection/cal		pleted. Meter performance fo	ound to be satisfacto	ry.			
1 -	ActDefn Comments METER O&M MANU	AL						
							2 - 10 10 10 10 10 10 10 10 10 10 10 10 10	
	esk	A1025/A (A11)	METER FLOW			and the second second		
	lah Clase	Crew Tune	Description	ern en option in omder filter fild file for	n re serva n in de regisation (1997). De la Principal	- necessaries est megalicus in light lifty (8)		The second of th

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Equipment Work Order

Report Date	22/01/2002 02:24 PM	<i>A</i>	Submitted By		Page 2
Work Order	# 285982	Activit	y A1625A	METER FLOW	
Similar Marie			and the second s		
		ETER FLOW			
Safety Messa					
SHOCK	ELECTRICAL SHOCK	<u>· </u>			
Tool	Description				City Read City Used
CALIBC	CERTIFIED CALIBRA	TION EQUIP.			1.00
Salary Depart Market Salary De	True come de la la la la la la la la la la la la la	Activity	Constant		
ANNUAL AN	NUAL PREVENTATIVE MTCE	A1625A	INTRODUCTION		
			maintenance of the speci correct defects which are technical information that manual for further details The "As Found" and "As	ified equipment. However, maintens on not anticipated in this procedure. To t may be required, and it may be ned it.	ed to aid field personnel in the care and unce personnel are expected to look for and his document will not provide all the pessary to refer to the manufacturer's malities found and any repairs carried out,
				Hansen Feedback Sheet.	
			MAINTENANCE PROCE	EDURE:	
	B SAFETY PLANNING DRK PROTECTION		procedure. TAKE TIME TO IDENTIF CONTROLLED. WORK HEALTH & SAFETY AC	TY HAZARDS AND PLAN HOW EAC	
Contractors Spage SaC	ing a second of the second of	ngorib.	THE TOTAL TO		
) (en.			
Tale (Control of the Control of the	2107 45 200 100 100 100 100 100 100 100 100 100	Poor General years	12/4 (645) (645) (645) (746) (746) (746) (646) (646) (646) (746) (746)		PONET SETTINGUES

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Equipment Work Order

Page 3 Report Date 22/01/2002 02:24 PM Submitted By Work Order # **Activity** METER FLOW 285982 A1625A Completed 15/08/2001 00:00 idir. 1.00 15/08/2001 00:00 80300 Condition Summity * or on the Total Market Sign-off Data Group

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Equipment Work Order

eport Date	22/01/2002 02	:19 PM Submitte				Page
Nork Order #	285984	Activity	A1628A M	ETER FLOW		
Equipment ID	0000101628		Description	METER FLO	W LOW LIFT RESV BL	DG
iite	FAC	5708	Description	CHESTERVILLI	E WW&DS	
iubunit Of	2	EACTEDNAIODTHEDN ADEA	C++	CLIEG	OUEOTED) ALLE LILIE	
vrea	2 NDUN	EASTERN/NORTHERN AREA TOWNSHIP OF NORTH DUNDAS	Sub-area Loc	CHES LL	CHESTERVILLE HUB	
listrict .oc Qualifier		E WATER TREATMENT SYSTEM: METER			INPLANT LOW LIFT F	OMPING
quipment Type	INSTRU	INSTRUMENTATION	Manufacturer	FISH	FISHER & PORTER (CANADA) I TD
uilding	RESR	WATER RESERVOIR/TANK/AREA	Building Level	G	GROUND LEVEL	CANADA ELD
ervice Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	25	GROOM ELVEE	
vg Monthly Usage		,	Total Usage	0.00		
lodel#	6BE15PD21AY	13CH	Warranty Expires		MTBF	0
erial #	890882048-1-B	1	Purchase Date		Purchase Cost	0.00
ludget #						
sset Comments	<u> </u>					
	orter TYPE: Electr	_	•			
		SERIAL: 8908B2048/1B1				
NT. DIA: 100mm (4	· = '					
CONST: 67.760 l	/Sec.					
INING: ROBE MAT:						
ONVERTER						
IAKE: Fischer & Po	orter					
YPE: Digital	d					
10DEL: B821A005	51U05					
ERIAL - 8908B204	R/1/R1					
ERIAL: 8908B204 /EL SET. 14.76 fb		0 l/sec.				
/EL. SET. 14.76 ft	/sec. RANGE: 0-3	0 l/sec.				
	/sec. RANGE: 0-3	0 l/sec.				
/EL. SET. 14.76 fb DUTPUT: 4-20 mac	/sec. RANGE: 0-3	0 l/sec.	Initiated (1 Scheduled 1	7/08/2001 00:00
/EL. SET. 14.76 fb DUTPUT: 4-20 mac nitiated By	/sec. RANGE: 0-3	0 l/sec.	Initisted I Service #		1 Scheduled 1	7/08/2001 00:00
/EL. SET. 14.76 ft DUTPUT: 4-20 mad nitiated By Assigned To	/sec. RANGE: 0-3	0 l/sec.				7/08/2001 00:00
/EL. SET. 14.76 ft DUTPUT: 4-20 mad nitiated By Assigned To	/sec. RANGE: 0-3	0 l/sec.				7/08/2001 00:00
VEL. SET. 14.76 ft DUTPUT: 4-20 mad initiated By Assigned To Authorization Budget #	/sec. RANGE: 0-3 de		Service #			7/08/2001 00:00
VEL. SET. 14.76 ft DUTPUT: 4-20 mad initiated By Assigned To Authorization Budget # Crew	/sec. RANGE: 0-3	0 l/sec. CHESTERVILLE H	Service #			7/08/2001 00:00
/EL. SET. 14.76 ft/ DUTPUT: 4-20 mac initiated By Assigned To Authorization Budget # Crew Maint Type	/sec. RANGE: 0-3 de		Service #			7/08/2001 00:00
VEL. SET. 14.76 ft DUTPUT: 4-20 made initiated By assigned To authorization Budget # Crew faint Type Priority	/sec. RANGE: 0-3 de		Service #			7/08/2001 00:00
VEL. SET. 14.76 ft DUTPUT: 4-20 mad initiated By Assigned To Authorization Budget # Crew Maint Type Priority Problem	/sec. RANGE: 0-3 de		Service #			
VEL. SET. 14.76 ft DUTPUT: 4-20 made initiated By Assigned To Authorization Budget # Crew flaint Type Priority Project	/sec. RANGE: 0-3 de CHESTE	CHESTERVILLE H	Service #		Due	<u> </u>
VEL. SET. 14.76 fb DUTPUT: 4-20 made initiated By Assigned To Authorization Budget # Crew Maint Type Priority Problem Project Source	/sec. RANGE: 0-3 de CHESTE	CHESTERVILLE H	Service #		Due Out of Service	st (
VEL. SET. 14.76 fb DUTPUT: 4-20 mac nitiated By Assigned To Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	/sec. RANGE: 0-3 de CHESTE 5708 A1628A	CHESTERVILLE H CHESTERVILLE V	Service #		Due Out of Service Potential Service Reque	st (
VEL. SET. 14.76 ft DUTPUT: 4-20 max initiated By Assigned To Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	/sec. RANGE: 0-3 de CHESTE 5708 A1628A	CHESTERVILLE H CHESTERVILLE V	Service # UB STAFF WW&DS		Due Out of Service Potential Service Reque	st (
TEL. SET. 14.76 ft DUTPUT: 4-20 max initiated By assigned To authorization sudget # Grew faint Type Priority Problem Project Source Last Activity Work Order Comments Annual inspection/or	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments calibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW	Service # UB STAFF WW&DS		Due Out of Service Potential Service Reque	st (
TEL. SET. 14.76 fb DUTPUT: 4-20 mac initiated By assigned To suthorization sudget # crew flaint Type criority croblem Project Source ast Activity Vork Order Comment annual inspection/c	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments calibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW	Service # UB STAFF WW&DS		Due Out of Service Potential Service Reque	st (
EL. SET. 14.76 fb DUTPUT: 4-20 max initiated By assigned To authorization authorizatio	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments calibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW	Service # UB STAFF WW&DS		Due Out of Service Potential Service Reque	st (
EL. SET. 14.76 fb DUTPUT: 4-20 max initiated By assigned To authorization authorizatio	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments calibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW	Service # UB STAFF WW&DS		Due Out of Service Potential Service Reque	st (
EL. SET. 14.76 fb DUTPUT: 4-20 max initiated By assigned To authorization authorizatio	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments calibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW hpleted.Adjusted zero setting as required, m	Service # UB STAFF WW&DS		Due Out of Service Potential Service Reque	st (
EL. SET. 14.76 fb DUTPUT: 4-20 max initiated By assigned To authorization authorizatio	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments allibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW npleted.Adjusted zero setting as required, m	Service # UB STAFF WW&DS		Out of Service Potential Service Requer Last Activity Completed	st [] 15/08/2001
TEL. SET. 14.76 ft DUTPUT: 4-20 max initiated By assigned To authorization sudget # Grew faint Type Priority Problem Project Source Last Activity Work Order Comments Annual inspection/or	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments calibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW hpleted.Adjusted zero setting as required, m	Service # UB STAFF WW&DS		Due Out of Service Potential Service Reque	st [] 15/08/2001
EL. SET. 14.76 fb DUTPUT: 4-20 mac intiated By assigned To authorization	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments allibration check con	CHESTERVILLE H CHESTERVILLE V METER FLOW npleted.Adjusted zero setting as required, m	Service # UB STAFF WW&DS		Out of Service Potential Service Requer Last Activity Completed	st [] 15/08/2001
EL. SET. 14.76 fb DUTPUT: 4-20 max initiated By assigned To authorization authorizatio	/sec. RANGE: 0-3 de CHESTE 5708 A1628A ments allibration check con	CHESTERVILLE W CHESTERVILLE W METER FLOW Inpleted Adjusted zero setting as required, many METER FLOW Description	Service # UB STAFF WW&DS		Out of Service Potential Service Requer Last Activity Completed	st (
EL. SET. 14.76 fb DUTPUT: 4-20 mac intiated By assigned To authorization Rudget # Frew Itaint Type Problem Project Source ast Activity Work Order Communication/c ActDefin Comment METER O&M MAN Task	CHESTE 5708 A1628A ments calibration check consisting IUAL 12384 Crew Type	CHESTERVILLE W CHESTERVILLE W METER FLOW Inpleted Adjusted zero setting as required, many Description INSTRUMENT	Service # UB STAFF WW&DS		Out of Service Potential Service Requer Last Activity Completed	st [] 15/08/2001
TEL. SET. 14.76 fb DUTPUT: 4-20 max initiated By assigned To authorization authorization audget # Grew faint Type Priority Problem Project Source Last Activity Work Order Comment ActDefn Comment METER O&M MAN	CHESTE 5708 A1628A ments allibration check consis	CHESTERVILLE W CHESTERVILLE W METER FLOW Inpleted Adjusted zero setting as required, many Description INSTRUMENT	Service # UB STAFF WW&DS		Out of Service Potential Service Requer Last Activity Completed	st [] 15/08/2001

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Equipment Work Order

Report Date

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Submitted By

Page 2

ANNUAL ANNUAL PREVENTATIVE MTCE A1628A INTRODUCTION This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details. The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out, are to be recorded on the Hansen Feedback Sheet. MAINTENANCE PROCEDURE: 1) Have a qualified technician calibrate the unit, following the manufacturers recommended calibration procedure. **JSP** JOB SAFETY PLANNING TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. WPROT WORK PROTECTION ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT PROCEDURE. Contractor ID Choose Craw Type, Craw ID or Job Cla went in

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Equipment Work Order

Page 3

Report Date 22/01/2002 02:19 PM Submitted By

Activity Work Order # A1628A 285984 **METER FLOW** Completed 15/08/2001 Time 00:00 80300 15/08/2001 00:00 1.00 Condition A Marie Court Signati

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Report Date	22/01/2002 03:	15 PM Submitte	ed By			Page 1
Work Order #	347422	Activity	OG04 INS	SPECTION		
Equipment ID	0000170828		Description	METER FLOW	/ 01	
Site	FAC	5677	Description	CHESTERVILLE	WWTLCS	
Subunit Of Area	2	EASTERN/NORTHERN AREA	Sub-area	CHES	CHESTERVILLE HUB	1
District	NDUN	TOWNSHIP OF NORTH DUNDAS	Loc	FLOW	FLOWMETER(FLOW ME	EASURING & REC
Loc Qualifier	CHESTERVILLE	LAGOON: S.E. DISCHARGE CHAMBER				
Equipment Type	INSTRU	INSTRUMENTATION	Manufacturer	MILL	MILLTRONICS	
Building	GROU	GROUNDS/YARD	Building Level	G	GROUND LEVEL	
Service Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	25		
Avg Monthly Usage			Total Usage	0.00		
Model #	OCM111		Warranty Expires	04/400004	MTBF	0
Serial # Budget #	090501102PB		Purchase Date	01/10/2001	Purchase Cost	0.00
Asset Comments						
SEASONAL USE (S	PRING & FALL DISC	CHARGE)				
Primary Element:			•			Ì
Parshall Flume						
Throat: 9" (.229 m)						
Calibrated Flow: 0-245 Vsec						
0-21168 m3/d						
Calibrated Head:						
0600 m						
O/P 4-20 mAdc						
Initiated By Assigned To			Initiated Da Service #	ate 21/11/2001	Scheduled Due	
Assigned 10			Jei Vice #		Due	
Authorization						
Budget #						
Crew						
Maint Type Priority						
Problem						
Project					Out of Service	
Source					Potential Service Request	
Last Activity	OG04	INSPECTION			Last Activity Completed	21/11/2001
Work Order Comm Meter set-up and cal		performance satisfactory.				
Martin Const.		Z Adibiro Semino				
JSP JOB SAF WPROT WORK F	ETY PLANNING PROTECTION	CONTRO HEALTH	OLLED. WORK PRACTICES & SAFETY ACT AND THE	S MUST BE IN ACC ONTARIO CLEAN \	EACH HAZARD WILL BE ELCORDANCE WITH THE OCC WATER AGENCY SAFETY M CCORDANCE WITH THE LO	CUPATIONAL MANUAL.
	in (Fig. 5)	contactor D				

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

(410)314-30001 ax (· ,	
Report Date	22/01/2002 03:15 PM	1	Submitted By				Page 2
Work Order #	347422	Activi	ty OG04	INSPECTION			
A Section 1	tors (#1)	Kem 17					
	in Section	COLOR TONICO	JANUS IN				Jan 18
Span (4)			•				
21/11/200	11 Tire. 00:0			21/11/2001		00:00	2.00
(And the party)		s.condition =		b (1) 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	<u> </u>		
2 (E. C. 2.1.)		S)m-o					

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Work Order #	286823	Activity	A1571A	METER	RFLOW		
quipment ID	0000101571		Description	n ME	TER FLOW	RAW SEWAGE	
Site	FAC	5677	Description	СН	ESTERVILLE \	WWTLCS	
Subunit Of	•	EACTEDNALORTI SENTAREA	a.	~	F0	OUEOTED: # : = :	u io
\rea	2	EASTERN/NORTHERN AREA	Sub-area	CH		CHESTERVILLE H	
District	NDUN	TOWNSHIP OF NORTH DUNDAS	Loc	co	ILL	WASTE WATER O	COLLECTION
oc Qualifier	CHESTERVILLE	WWTP. SPS DIESEL ROOM RAW SEW	VAGE				-
Equipment Type	INSTRU	INSTRUMENTATION	Manufacturer	r DA	NF	DANFOSS MFG. C	OLTD
Building	PS	PUMPING STATION BUILDING	Building Leve	el G		GROUND LEVEL	
Service Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	e 25			
Nyg Monthly Usage	720.00		Total Usage	0.0	0		
Model #	083F3001		Warranty Exp	pires		MITBF	0
Seriai #			Purchase Da	te		Purchase Cost	0.00
Budget #							
Asset Comments							
PIPE SIZE: 12"			•				
WELL DIAMETER: 2			•				
PIPE MATERIAL: DU							
WALL THICKNESS:	0.34"						
D.D.: 13.2"							
.D: 12.52	4.0						
WELL RADIUS: 137.	16						
PLANT METER							
MAKE: DANFOSS T							
MODEL: 3100173F3							
SERIAL: 3100-12290							
CALIBRATED RANG							
OUTPUT: 4-20 mAdd	į						
TEST #1							
NTEGRATOR STAR	T:1792617						
NTEGRATOR STOP							
NTEGRATOR TOTA							
CALCULATED VOL.							
DIFFERENCE: .2							
TEST #2							
NTEGRATOR STAR							
NTEGRATOR STOP							
NEGRATOR TOTAL							
CALCULATED VOL.							
DIFFERENCE: .1							
nitiated By Assigned To				ated Date	15/08/2001	Scheduled Due	17/08/2001 00:00
Authorization							
Budget #	OUTOTE	A1	III ID OT 1 TO				
Crew	CHESTE	CHESTERVILLE	HUB STAFF				
Maint Type Priority							
Problem							_
Project	5677	CHESTERVILLE	WWTLCS			Out of Service	
Source						Potential Service Rec	quest 🗌
Last Activity	A1571A	METER FLOW				Last Activity Comple	

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Equipment Work Order

Report Date 23/01/2002 02:19 PM Submitted By Page 2 Work Order # 286823 **Activity** A1571A METER FLOW **Work Order Comments** Annual inspection/calibration check completed, satisfactory volumetric test performed. **ActDefn Comments** METER O&M MANUAL A1571A METER FLOW Safety Message Description SHOCK **ELECTRICAL SHOCK** Tool Description Qty Reqd **Qty Used** CERTIFIED CALIBRATION EQUIP. 1.00 CALIBC Safety Procedures Message Description Activity Comments ANNUAL ANNUAL PREVENTATIVE MTCE A1571A INTRODUCTION This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details. The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out, are to be recorded on the Hansen Feedback Sheet. MAINTENANCE PROCEDURE: 1) Have a qualified technician calibrate the unit, following the manufacturers recommended calibration procedure. JOB SAFETY PLANNING TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR JSP CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT WPROT WORK PROTECTION PROCEDURE. Comments Completed Time 00:00 Вν Hours Date 15/08/2001 80300 15/08/2001 00:00 2.00 Result Condition Quantity Unit of Meas Total Usage Data Group Sign-off

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

eport Date	23/01/2002 02	JUDITI	tted By			Page
fork Order#	286823	Activity	A1571A M	ETER FLOW		
quipment ID	0000101571		Description	METER FLOW	RAW SEWAGE	
te	FAC	5677	Description	CHESTERVILLE	WWTLCS	
bunit Of						
ea	2	EASTERN/NORTHERN AREA	Sub-area	CHES	CHESTERVILLE H	UB
strict	NDUN	TOWNSHIP OF NORTH DUNDAS	Loc	COLL	WASTE WATER C	
				COLL	MASIC MAILING	OLLLO I ION
c Qualifier	CHESTERVILL	E WWTP. SPS DIESEL ROOM RAW S	EVVAGE			
juipment Type	INSTRU	INSTRUMENTATION	Manufacturer	DANF	DANFOSS MFG. C	OLTD
uilding	PS	PUMPING STATION BUILDING	Building Level	G	GROUND LEVEL	
ervice Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	25		
vg Monthly Usage	720.00		Total Usage	0.00		
odel#	083F3001		Warranty Expires		MTBF	0
	0001 000 I				•	
erial #			Purchase Date		Purchase Cost	0.00
udget #						
set Comments						
PE SIZE: 12"						
ELL DIAMETER: 2.	743M		•			
PE MATERIAL: DU						
ALL THICKNESS: (
	J. T					
.D.: 13.2"						
D: 12.52						
ELL RADIUS: 137.	16					
ANT METER						
AKE: DANFOSS T	PE: MAGNETIC					
ODEL: 3100173F30						
ERIAL: 3100-12290						
ALIBRATED RANG	E: 0-100%					
UTPUT: 4-20 mAdd	1					
EST#1						
TEGRATOR STAR	T:1792617					
TEGRATOR STOP						
ITEGRATOR TOTA						
ALCULATED VOL.:	12.2					
FFERENCE: .2						
EST#2						
TEGRATOR STAR	T: 1792641					
ITEGRATOR STOP	: 1792636					
EGRATOR TOTAL	: 5.0					
ALCULATED VOL.:						
IFFERENCE: .1						
n : tel stel 1 Cle						
itiated By			Initiated		Scheduled	17/08/2001 00:00
ssigned To			Service #		Due	
uthorization						
udget#						
rew	CHESTE	CHESTERVILL	E HUB STAFF			
laint Type		OF ILO FERVICE				
• •						
riority						
roblem						
roject	5677	CHESTERVILL	E WWTLCS		Out of Service	
					Potential Service Req	
ource						
ource ast Activity	A1571A	METER FLOW	•		Last Activity Complet	ted 15/08/2001

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Report Date	23/01/2002 02:20	PM	Sul	bmitted By				Page 2
Work Order # 2	86823		Activity	A1571A	METER FLOW			
Work Order Comments Annual inspection/calibr		ted,satisfactory volu	metric test pe	erformed.				
ActDefn Comments METER O&M MANUAL								
Task Av	1571A	METER FLOW					t part of the second	41
Safety Message	Description							
SHOCK	ELECTRICAL SH	OCK	· · · · · · · · · · · · · · · · · · ·					
Tool	Description				 		Qty Reqd	Qty Used
CALIBC	CERTIFIED CALIE	BRATION EQUIP.					1.00	
Safety Procedures Message Description		, i	ctivity Co	rments .		17.0		
ANNUAL ANNUAL PR	EVENTATIVE MTC	E A	.1571A IN	TRODUCTION				
			ma co tec ma	aintenance of the specific rrect defects which are a chnical information that anual for further details.	ance Procedure has been ded equipment. However, most anticipated in this procedure be required, and it may	aintenance lure. This o be necessa	personnel are expect document will not prov ary to refer to the man	ed to look for and ride all the ufacturer's
					eft" readings, as well as any Hansen Feedback Sheet.	abnomalii	ties found and any rep	pairs carried out,
			M	NINTENANCE PROCE	OURE:			
JSP JOB SAFET WPROT WORK PRO	Y PLANNING DIECTION		pro TA CC HE ISC	ocedure. KE TIME TO IDENTIFY ONTROLLED. WORK I EALTH & SAFETY ACT	cian calibrate the unit, follow HAZARDS AND PLAN HO PRACTICES MUST BE IN A AND THE ONTARIO CLEA GIZE THE EQUIPMENT IN	W EACH H CCORDAN N WATER	IAZARD WILL BE EL ICE WITH THE OCC AGENCY SAFETY M	IMINATED OR UPATIONAL ANUAL.
			 					
Comments								
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	78 30 60 E							
Started		00:00 By	eted 80300		Date 15/08/2001	Time	00.00	
	37,1110		30300			**************************************	00:00 Ho	urs 2.00
Result		Condition			Causaratity		Unit of M	las:
Total Usage								
Data Group			Sign-off				····	

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Equipment Work Order

28/02/2003

Out of Service

Potential Service Request

Last Activity Completed

Jean Veilleux Report Date 26/03/2003 03:11 PM Submitted By Page 1 **ANALYZER TURBIDITY** Work Order # 527881 Activity A1626A 0000101626 Description **ANALYZER TURBIDITY TRT H20** Equipment ID FAC 5708 Description CHESTERVILLE WW&DS Site Subunit Of **EASTERN REGION** CHES 2 Sub-area CHESTERVILLE HUB Area NDUN TOWNSHIP OF NORTH DUNDAS HLINPLANT HIGH LIFT PUMPING **District** CHESTERVILLE WTP: METER TURBIDITY HL RESV BLDG TREATED H20 Loc Qualifier INSTRUMENTATION HACH INSTRU Manufacturer HACH CO. Equipment Type Building RESR WATER RESERVOIR/TANK/AREA **Building Level** G **GROUND LEVEL Expected Life** 25 Service Status IN IN SERVICE (INCL. STANDBY) Avg Monthly Usage 720.00 Total Usage 0.00 Model# 1720C Warranty Expires **MTBF** 0 950500010191 Purchase Date Serial # Purchase Cost 0.00 Budget # Initiated By **Initiated Date** 26/03/2003 Scheduled 01/04/2003 08:00 Assigned To Due <u>Authorization</u> Budget# Crew Maint Type **Priority**

Task	A1626A	ANALYZER TURBIDITY	6. 1986 (1) 10 mg/s			
Job Class	Crew Type	Description	Pay Type	Hrs Worked		
1109		OPERATOR/MECHANIC				
<u>Tool</u>	Description		Qty Regd	Qty Used		
CALIBC	CERTIFIED CA	CERTIFIED CALIBRATION EQUIP.				

Safety Procedures 2.7	
Message Description Activity Comments	

ANNUAL ANNUAL MAINTENANCE

5708

WEEKPM

Problem

Project

Source

Last Activity

A1626A INTRODUCTION:

CHESTERVILLE WW&DS

PERFORM WEEKLY CHECKLIST

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details.

The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet.

RUNNING CHECKS:

- 1) Check for leaks from the sample piping and drain lines.
- 2) Check display for alarm conditions or fault messages.

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Equipment Work Order

Report Date

Comments

26/03/2003 03:11 PM

Submitted By Jea

Jean Veilleux

Page 2

Safety Pro Message	Codures The Coduction of the Coduction o	Activity of Continents of the	
		MAINTENANCE PROCEDURE:	
		1) Isolate sample line.	
		2) Remove head assembly from body of turbidimeter.	}
		Drain the body by removing plug from bottom of body.	Ì
		4) Remove bubble trap from body. (Special tool available)	1
		5) Replace drain plug, fill body with a diluted chlorine solution.	1
		6) Clean interior of body using a soft brush.	
		7) Drain chlorine solution and flush body.	
		8) Clean and inspect gaskets. Replace as required.	
		9) Clean the lamp, lens and photocell window.	_
		10) Perform calibration of unit following MFG guidelines/ using a formazin solution or the HACH ICI	=
ΔΝΝΙΙΔΙ	ANNUAL MAINTENANCE	PICK system. A1626A Measure 1 litre of low turbidity water into calibration cylinder.	
ANTOAL	ANTOAL MAINTENANCE	Insert head assembly into calibration cylinder.	ļ
		Swirt cylinder to remove air bubbles.	ļ
		Press SYS RESET and 6 SIG AVG allow to stand until reading stabilizes.	- }
		Press 0.0 STD.	Ì
		Prepare pipet.	Ì
		Mix formazin solution and add to calibration cylinder.	- (
		Replace head assembly allow to stand until reading stabilizes.	
		Press 20.0 STD the display will show the value of the 20.0 NTU standard and the turbidity of the di	lutio
		11) Inspect o-rings and lamp assembly for any defects.)
1		12) Replace head assembly into turbidimeter body.)
,		13) Open sample line valve, ensure proper sample flow rate	Į
		14) Ensure all remote display or recording devices are within acceptable limits. Eq: Chart recorders, Outpost5, SCADA systems.	ĺ
EEN	ENTRY AND EXIT NOTIFICATION	ENSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEEN NOTIFIED OF ENTRY I	intd
LLIN	ENTRY AND EXT NOTIFICATION	THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND	
		DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BE	EN
		VACATED AND SECURED.	
JSP	JOB SAFETY PLANNING	TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED	OR
		CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL	AL
		HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL.	
WPROT	WORK PROTECTION	ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT	}
		PROCEDURE.	
]
f ab	King the State of	w Type Crew ID or Job Class	
Labour			4
Charge C	Date Time Crew Type	Crew ID Job Class Employee ID Pay Type Hours Worked	
			-{
<u></u>			ا ''
Vaktela	er de la la la la la la la la la la la la la	Choose Crew, Vehicle Type or ID	
			4
Charge C	Date Time Grew	Vehicle Type Vehicle ID Usage Usage	
			-11

Ontario Clean Water Agency
1 Yonge Street, Suite 1700

Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

ANNUAL ANNUAL MAINTENANCE

Equipment Work Order

Report Date 27/10/2003 12:39 PM Submitted By Jean Veilleux Page 1 A1624A Work Order # ANALYZER CHLORINE 538265 **Activity** 0000101624 **Description** ANALYZER CHLORINE RESV TREATED Equipment ID FAC 5708 Description CHESTERVILLE WW&DS Site Subunit Of 2 **EASTERN REGION** Sub-area CHES CHESTERVILLE HUB <u>Area</u> **District** NDUN TOWNSHIP OF NORTH DUNDAS Loc HLINPLANT HIGH LIFT PUMPING CHESTERVILLE WTP: ANALYZER CL2 RESV BLDG TRT H20 Loc Qualifier INSTRU INSTRUMENTATION Manufacturer WALL **WALLANCE & TIERNAN** Equipment Type RESR WATER RESERVOIR/TANK/AREA **Building Level** G **GROUND LEVEL** Building 25 IN SERVICE (INCL. STANDBY) **Expected Life** Service Status IN Avg Monthly Usage 720.00 Total Usage 0.00 **DEPOLOX 3 U-95213** Warranty Expires Model# MTBF Serial # BE94021 Purchase Date Purchase Cost 0.00 Budget # 16/04/2003 Initiated By Initiated Date Scheduled 01/05/2003 08:00 Assigned To Service # Due <u>Authorization</u> Budget # Crew Maint Type **Priority Problem** 5708 **CHESTERVILLE WW&DS Project** Out of Service \Box Source Potential Service Request Last Activity WEEKPM PERFORM WEEKLY CHECKLIST Last Activity Completed 30/09/2003 Work Order Comments Zeroed and calibrated with Hach pocket colorimeter at 1.1 mg/l. Was accurate, no changes. Tested low cl2 alarm. ActDefn Comments WALLANCE & TIERNAN DEPOLOX 3 CL2 ANALYZER A1624A Task **ANALYZER CHLORINE** Safety Message Description **CHEMHA** CHEMICAL HAZARD Performance Indicator Description Low Value High Value Measured Value **OLRB** ON LINE METER READING BEGIN **OLRF** ON LINE METER READING FINISH 1.1 TMFR TEST METER FIELD READING Safety Procedures Message Description **Activity** Comments

INTRODUCTION:

A1624A

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details.

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Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Equipment Work Order

Report Date 27/10/2003 12:39 PM Submitted By Jean Veilleux Page 2 Safety Procedures Message Description **Activity** Comments The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet. **RUNNING CHECKS** 1) Test alarm set points. MAINTENANCE PROCEDURES 1) Isolate the analyser and turn the power off. 2) Clean and flush all water lines, strainers and tubing. 3) Remove the sample cell and clean with a weak solution of muriatic acid.(5%) 4) Clean and inspect the two electrodes. Ensure that the copper ring electrode is not worn thin from the water flow and the abrasive grit. 5) inspect and replace any o-rings as required. 6) Reassemble the electrodes and the sample cell. 7) Adjust the flow control valve to the desired flow. 8) Add a pinch of abrasive grit to the sample cell. This helps reduce the scale build up on the electrodes. 9) Calibrate the unit, and return to service. EEN **ENTRY AND EXIT NOTIFICATION** ENSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEEN NOTIFIED OF ENTRY INTO THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN VACATED AND SECURED. JSP JOB SAFETY PLANNING TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT WPROT WORK PROTECTION PROCEDURE. Comments Completed Started Time **Date** 09/05/2003 08:00 0.50 Date Ву 80636 Time Hours COMPLET Condition Quantity **Unit of Meas** Result Total Usage Jean Veiller Sign-off Data Group

JSP

JOB SAFETY PLANNING

MONTH MONTHLY PREVENTATIVE MTCE

Equipment Work Order

Report Date	27/10/2003 12	38 PM	Submitted By	Jean Veilleux	(Page 1
Work Order #	538267	Activit	y A16	26M A	NALYZER TURE	IDITY	
Equipment ID	0000101626			Description	ANALYZER T	URBIDITY TRT H	120
Site	FAC	5708		<u>Description</u>	CHESTERVILLE	WW&DS	
Subunit Of Area District Loc Qualifier	2 NDUN CHESTERVILL	EASTERN REGION TOWNSHIP OF NORTH DI WTP: METER TURBIDITY		Sub-area Loc TREATED H20	CHES HL	CHESTERVILLI	E HUB LIFT PUMPING
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU RESR IN 720.00 1720C 950500010191	INSTRUMENTATION WATER RESERVOIR/TAN IN SERVICE (INCL. STAND		Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	HACH G 25 0.00	HACH CO. GROUND LEVE MTBF Purchase Cost	0 0.00
Initiated By Assigned To				Initiated Service		<u>Scheduled</u> <u>Due</u>	01/05/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity Work Order Comm Verified with ICE Pictoria			TERVILLE WW&			Out of Service Potential Service Re Last Activity Comple	
Task	A1626M	ANALYZER TURBIDITY					
Tool	Description					Qty Reqd	Qty Used
BOTBRU	SOFT BRUSH						1.00
PORTAT	PORTABLE T	JRBIDIMETER					1.00
Performance Indica	itor Descriptio	n Night		en en en en en en en en en en en en en e	Low Value	High Value	Measured Value
OLRB	ON LINE	METER READING BEGIN					.482
OLRF	ON LINE	METER READING FINISH					.470
OM%D	ON LINE	METER PERCENT OF DRIF	T				0
Safety Procedures Message Descripti	on Lympic Control	Activity	Comments				
EEN ENTRY	AND EXIT NOTIFIC	ATION	THE SITE. THE	E FOLLOWING IN N COMPLETION (FORMATION SHOU	JLD PROVIDE APPI	NOTIFIED OF ENTRY INT ROXIMATE TIME AND EN THAT SITE HAS BEEN

A1626M INTRODUCTION:

TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR

CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL.

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and

Report D	Date 2	7/10/2003 12:38 F	РМ	Submitted By	Jean Veilleux	(Page 2
Safety Pro Message	ocedures Description		A A	ctivity Comments	Thinning And The Control of the Cont					
				correct defects w	hich are not antidition that may be	pment. However, cipated in this prod required, and it ma	edure. This	s document	will not provide	all the
						dings, as well as a Feedback Sheet.	•	alities found	and any repair	s carried ou
				•	s from the sampl	e piping and drain				
				MAINTENANCE 1) Perform a grab 2) Check sample sample results. 3) Ensure all remo	sample at the to with portable or ote display or rec	laboratory turbidin	e within acc			lyzer with g
WPROT	WORK PRO	TECTION		ISOLATE AND D PROCEDURE.		SCADA systems. HE EQUIPMENT		DANCE WI	TH THE LOCK	(-OUT
Comment	is the second se									
Started			Comple	l ed more	18 18 18 18 18 18 18 18 18 18 18 18 18 1					
Date		Time	Ву	80636	Date	09/05/2003	Time	08:00	Hours	0.50
Result	COMPLET		Condition			Quantity		<u>Ú</u> n	t of Meas	
Total Usac	99									
Data Grou	1 0			Sign-off LO	n D	eillenf				
				V	•	•				

Equipment Work Order

Report Date	27/10/2003 12	:37 PM	Submitted By	Jean Veilleu	x				Page 1
Work Order #	550314	<u>Activit</u>	y A16	26M A	NALYZER TUR	BIDITY			
Equipment ID	0000101626			Description	ANALYZER	TURBIC	OITY TRT I	H20	
<u>Site</u> Subunit Of	FAC	5708		<u>Description</u>	CHESTERVILL	E WW&I	DS		
Area District Loc Qualifier	2 NDUN CHESTERVILLE	EASTERN REGION TOWNSHIP OF NORTH DI EWTP: METER TURBIDITY		Sub-area Loc TREATED H20	CHES HL		ESTERVILL LANT HIGH		MPING
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU RESR IN 720.00 1720C 950500010191	INSTRUMENTATION WATER RESERVOIR/TANI IN SERVICE (INCL. STAND		Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	HACH G 25 0.00	GR MT	CH CO. OUND LEVE	0	.00
Initiated By Assigned To				Initiated Service		3	Scheduled Due	02/06/2	2003 08:00
Authorization Budget # Crew Maint Type Priority Problem									
Source							Service al Service Re tivity Comple	equest	30/09/2003
Work Order Comme		ing .525 NTU. No calibration i	required						
Vollinos soning / resort	OL-7 OK. OTHER PER	ing .525 1410. 146 Cambratton	SALES SECOND		7.美文学来看到美国英语等 Higgling				
	A1626M	ANALYZER TURBIDITY	and have been somewhat Somewhat some				l de la la la la la la la la la la la la la	10.7	
Tool	Description						Qty Regd		Qty Used
BOTBRU	SOFT BRUSH						l 	1.00	
PORTAT	PORTABLE TU	JRBIDIMETER					<u> </u>	1.00	
Performance Indicat	or <u>Descriptio</u>	0			Low Value	High V	alue	Measure	d Value
OLRB	ON LINE I	METER READING BEGIN						. 5	25
OLRF	ON LINE I	METER READING FINISH						15	25
OM%D	ONLINE	METER PERCENT OF DRIF	T			1		D	
CARROLL CONTROL OF THE CONTROL OF TH			·				نـــــا		
Safety Procedures Message Description		Activity	Comments						
EEN ENTRY A			Comments ENSURE DIRECTHE SITE. THE DURATION. ON VACATED AND TAKE TIME TO	FOLLOWING IN I COMPLETION (SECURED. IDENTIFY HAZA	R OR THEIR DESIG FORMATION SHOU OF DUTIES NOTIFI RDS AND PLAN HO ICES MUST BE IN	ULD PRO CATION OW EAC	OVIDE APPE TO BE GIVE H HAZARD	NOTIFIED ROXIMATE EN THAT	E TIME AND SITE HAS BEEN ELIMINATED OF

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and

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Equipment Work Order

Report Date

27/10/2003 12:37 PM

Submitted By

Jean Veilleux

Page 2

Safety Procedures Message Description

Activity Comments

maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details.

The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet.

RUNNING CHECKS:

- 1) Check for leaks from the sample piping and drain lines.
- 2) Check display for alarm conditions or fault messages.

MAINTENANCE PROCEDURE:

- 1) Perform a grab sample at the turbidimeter
- Check sample with portable or laboratory turbidimeter compare value of the on-line analyzer with grab sample results.
- 3) Ensure all remote display or recording devices are within acceptable limits.

 Eg: Chart recorders, Outpost5, SCADA systems.

ISOLATE AND DE-ENERGIZE. THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT PROCEDURE.

WPROT WORK PROTECTION

Co		

Started Date	Time	Compl By	80636	<u>Date</u>	23/06/2003	Time	08:00	Hours	1.00
Result COMPLET	Ç	ondition			Quantity		Ú	nit of Meas	
Total Usage									
Data Group			Sign-off						

JSP

JOB SAFETY PLANNING

MONTH MONTHLY PREVENTATIVE MTCE

Equipment Work Order

Report Date	27/10/2003 12	:39 PM	Submitted By	Jean Veilleu	x		Page 1
Work Order#	550313	Activi	ty A16	24M A	ANALYZER CH	LORINE	
Equipment ID	0000101624			Description	ANALYZEF	R CHLORINE RES	/TREATED
Site Subunit Of	FAC	5708		Description	CHESTERVI	LLE WW&DS	
Area District Loc Qualifier	2 NDUN CHESTERVILLE	EASTERN REGION TOWNSHIP OF NORTH D E WTP: ANALYZER CL2 RE		<u>Sub-area</u> <u>Loc</u> 20	CHES HL	CHESTERVILL INPLANT HIGH	E HUB I LIFT PUMPING
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU RESR IN 720.00 DEPOLOX 3 U- BE94021	INSTRUMENTATION WATER RESERVOIR/TAN IN SERVICE (INCL. STAND 95213		Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	WALL G 25 0.00	WALLANCE & GROUND LEVI MTBF Purchase Cost	
Initiated By Assigned To				Initiated Service		003 <u>Schedulec</u>	02/06/2003 08:00
Source	5708 WEEKPM		TERVILLE WW&			Out of Service Potential Service Ro Last Activity Comple	
Work Order Comme Compared with Hach		er. Zeroed and adjusted span	•				
ActDefn Comments WALLANCE & TIER	NAN DEPOLOX 3	CL2 ANALYZER					_
Task Safety Message CHEMHA	A1624M Description CHEMICAL HA	ANALYZER CHLORINE					
Performance Indicate	or <u>Descriptio</u>	2			Low Value	High Value	Measured Value
OLRB	ON LINE I	METER READING BEGIN					7.44
OLRF	ON LINE I	METER READING FINISH					F33
TMFR	TEST ME	TER FIELD READING	·		<u> </u>		1.33
Safety Procedures Message Descriptio		Activity	Comments	7 ult 22 1			
EEN ENTRY A	ND EXIT NOTIFIC.	ATION	THE SITE. THE	FOLLOWING IN	FORMATION SH	OULD PROVIDE APPI	NOTIFIED OF ENTRY INTO ROXIMATE TIME AND EN THAT SITE HAS BEEN

A1624M INTRODUCTION:

TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR

CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL.

Data Group

Equipment Work Order

(416)314-5600 Fax (416)314-8300 Report Date 27/10/2003 12:39 PM Submitted By Jean Veilleux Page 2 Safety Procedures
Message Description Activity Comments This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details. The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet. **RUNNING CHECKS** 1) Test alarm set points. MAINTENANCE PROCEDURES 1) Isolate the analyser and turn the power off. 2) Clean and flush all water lines, strainers and tubing. 3) Remove the sample cell and clean with a weak solution of muriatic acid.(5%) 4) Clean and inspect the two electrodes. Ensure that the copper ring electrode is not worn thin from the water flow and the abrasive grit. 5) Inspect and replace any o-rings as required. 6) Reassemble the electrodes and the sample cell. 7) Adjust the flow control valve to the desired flow. 8) Add a pinch of abrasive grit to the sample cell. This helps reduce the scale build up on the electrodes. 9) Calibrate the unit, and return to service. WPROT WORK PROTECTION ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT PROCEDURE. Comments Started Completed 80636 09/06/2003 Time 00:80 Date By Hours 1.00 Result COMPLET Condition Unit of Meas Quantity Total Usage

Sign-off

Jean Vulley

Equipment Work Order

Report Date	27/10/2003 12	:37 PM <u>Sub</u>	mitted By	Jean Veille	ux				Page 1
Work Order #	580240	Activity	A16	26Q	ANALYZER TURI	BIDITY			
Equipment ID	0000101626			Description	ANALYZER 1	TURBID	ITY TRT H	20	
Site Subunit Of	FAC	5708		Description	CHESTERVILLI	E WW&[os		
Area	2	EASTERN REGION		Sub-area	CHES	CUI	CTEDVILLE	LILID	
<u>District</u>	NDUN	TOWNSHIP OF NORTH DUNDA	AS	Loc	HL		ESTERVILLE LANT HIGH I		MPING
Loc Qualifier		WTP: METER TURBIDITY HL R				UNE	LANT HIGHT	-IF1 FUI	VIFING
Equipment Type	INSTRU	INSTRUMENTATION		<u>Manufacturer</u>	HACH		CH CO.		
Building	RESR	WATER RESERVOIR/TANK/AR	REA	Building Level	G	GRO	DUND LEVE	L	
Service Status Avg Monthly Usage	IN 720.00	IN SERVICE (INCL. STANDBY)		Expected Life	25				8
Model #	1720.00 1720C			Total Usage	0.00				
Serial #	950500010191			Warranty Expire	<u>es</u>	MTE	_	0	
Budget #	950500010191			Purchase Date		Purc	chase Cost	0	.00
Initiated Du				1-20-4					
Initiated By Assigned To				Initiated Service		5	Scheduled Due	01/07/	2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project	5708	CHESTERV	ILLE WW&	DS		Out of S	service		
Source		•··=•· <u>-</u> ···					I Service Red		
Last Activity	WEEKPM	PERFORM	WEEKLY CI	HECKLIST			ivity Complet		30/09/2003
Work Order Commer Calibrated using 20 N ActDefn Comments HACH TURBIDITY M	NTU user prepared	formazine solution. Verified with IC	CE-Pick.	-/-					
Task	A1626Q	ANALYZER TURBIDITY						400 400 400	
Tool	Description					1	Qty Reqd		Qty Used
CALIBC	CERTIFIED CA	LIBRATION EQUIP.						1.00	
Performance Indicate	Description	y in the second	USO CONTRACTOR OF THE CONTRACT		Low Value	High Va	lue	Measure	d Value
OLRB	ON LINE A	METER READING BEGIN						20.1	
OLRF	ON LINE N	METER READING FINISH						20.	
OM%D	ON LINE N	METER PERCENT OF DRIFT						٥. ٥	

Message	Description	The Rep	

3MONTH QUARTERLY MAINTENANCE

Safety Procedures

A1626Q INTRODUCTION:

Comments

Activity

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details.

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Equipment Work Order

Report Date 27/10/2003 12:37 PM Submitted By Jean Veilleux Page 2 Safety Procedures Message Description **Activity** Comments The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet. **RUNNING CHECKS:** 1) Check for leaks from the sample piping and drain lines. 2) Check display for alarm conditions or fault messages. MAINTENANCE PROCEDURE: 1) Isolate sample line. 2) Remove head assembly from body of turbidimeter. 3) Clean the lamp, lens and photocell window. 4) Perform calibration of unit following MFG guidelines, using a formazin solution or the HACH ICE PICK Measure 1 litre of low turbidity water into calibration cylinder. Insert head assembly into calibration cylinder. Swirl cylinder to remove air bubbles. Press SYS RESET and 6 SIG AVG allow to stand until reading stabilizes. Press 0.0 STD. Prepare pipet. Mix formazin solution and add to calibration cylinder. Replace head assembly allow to stand until reading stabilizes. Press 20.0 STD the display will show the value of the 20.0 NTU standard and the turbidity of the dilution v 3MONTH QUARTERLY MAINTENANCE 5) Inspect o-rings and lamp assembly for any defects. A1626Q 6) Replace head assembly into turbidimeter body. 7) Open sample line valve, ensure proper sample flow rate 8) Ensure all remote display or recording devices are within acceptable limits. Eg: Chart recorders, Outpost5, SCADA systems. ENSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEEN NOTIFIED OF ENTRY INTO EEN ENTRY AND EXIT NOTIFICATION THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN VACATED AND SECURED. JSP JOB SAFETY PLANNING TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. WPROT WORK PROTECTION ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT PROCEDURE. Comments Started Completed Time 80636 Date 15/07/2003 Date 08:00 Time Hours 1.00 Condition Result COMPLET Quantity **Unit of Meas** Total Usage Data Group Sign-off

JSP

JOB SAFETY PLANNING

MONTH MONTHLY PREVENTATIVE MTCE

Equipment Work Order

Report Date	27/10/2003 11	:16 AM Submitted By	y Jean Veilleux			Page 1
Work Order#	580239	<u>Activity</u> A1	1624M AN	ALYZER CHLO	RINE	
Equipment ID	0000101624		Description	ANALYZER CH	HLORINE RESV 1	FREATED
Site Subunit Of	FAC	5708	Description	CHESTERVILLE	ww&ds	
Area District Loc Qualifier	2 NDUN CHESTERVILLE	EASTERN REGION TOWNSHIP OF NORTH DUNDAS E WTP: ANALYZER CL2 RESV BLDG TRT	<u>Sub-area</u> <u>Loc</u> H20	CHES HL	CHESTERVILLE I	
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU RESR IN 720.00 DEPOLOX 3 U- BE94021	INSTRUMENTATION WATER RESERVOIR/TANK/AREA IN SERVICE (INCL. STANDBY) 95213	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	WALL G 25 0.00	WALLANCE & THE GROUND LEVEL MTBF Purchase Cost	
Initiated By Assigned To			Initiated Da	te 04/07/2003	Scheduled Due	01/07/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project	5708	CHESTERVILLE WW	/&DS	-	Out of Service	Ω.
Source Last Activity	WEEKPM	PERFORM WEEKLY	CHECKLIST		Potential Service Requast Activity Complete	
Work Order Comme						
Cambrated using ria		t colorimeter				
ActDefn Comments WALLANCE & TIEF						
WALLANCE & TIEF	RNAN DEPOLOX 3	3 CL2 ANALYZER				
WALLANCE & TIEF	RNAN DEPOLOX 3	3 CL2 ANALYZER ANALYZER CHLORINE				
Task Safety Message	A1624M Description CHEMICAL HA tor Descriptio ON LINE ON LINE	CL2 ANALYZER ANALYZER CHLORINE AZARD				Measured Value 1.35 1.35 1.35
Task Safety Message CHEMHA Performance Indica OLRB OLRF	A1624M Description CHEMICAL HA tor Descriptio ON LINE TEST ME	ANALYZER CHLORINE AZARD METER READING BEGIN METER READING FINISH				1.35

VACATED AND SECURED.

A1624M INTRODUCTION:

THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN

TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL.

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Equipment Work Order

Report Date

27/10/2003 11:16 AM

Submitted By

Jean Veilleux

Page 2

Safety Procedures Message Description

Activity Comments

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details.

The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet.

RUNNING CHECKS

1) Test alarm set points.

MAINTENANCE PROCEDURES

- 1) Isolate the analyser and turn the power off.
- 2) Clean and flush all water lines, strainers and tubing.
- 3) Remove the sample cell and clean with a weak solution of muriatic acid.(5%)
- 4) Clean and inspect the two electrodes. Ensure that the copper ring electrode is not worn thin from the water flow and the abrasive grit.
- 5) Inspect and replace any o-rings as required.
- 6) Reassemble the electrodes and the sample cell.
- 7) Adjust the flow control valve to the desired flow.
- 8) Add a pinch of abrasive grit to the sample cell. This helps reduce the scale build up on the electrodes.
- 9) Calibrate the unit, and return to service.

ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT PROCEDURE.

WPROT WORK PROTECTION

			100 March 100 Ma
Time	By 80360	Date 07/07/2003	Time 08:00 Hours
	Condition	Quantity	Unit of Meas
	Time		

JSP

JOB SAFETY PLANNING

MONTH MONTHLY PREVENTATIVE MTCE

Equipment Work Order

Report Date	27/10/2003 11	:37 AM <u>Sub</u>	omitted By	Jean Veilleux	(Page 1
Work Order #	601867	<u>Activity</u>	A16	626M A	NALYZER TURE	BIDITY	
Equipment ID	0000101626			Description	ANALYZER T	URBIDITY TRT I	120
<u>Site</u> Subunit Of	FAC	5708		<u>Description</u>	CHESTERVILLE	WW&DS	
Area District Loc Qualifier	2 NDUN CHESTERVIII	EASTERN REGION TOWNSHIP OF NORTH DUND. E WTP: METER TURBIDITY HL F		Sub-area Loc TREATED H20	CHES HL	CHESTERVILLI INPLANT HIGH	
Loc Quamer			CESV BEDG				
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU RESR IN 720.00 1720C 950500010191	INSTRUMENTATION WATER RESERVOIR/TANK/AF IN SERVICE (INCL. STANDBY)	REA	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	HACH G 25 0.00	HACH CO. GROUND LEVE MTBF Purchase Cost	0 0.00
Initiated By Assigned To				Initiated [Service #		Scheduled Due	01/08/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	5708 A1626M		VILLE WW&			Out of Service Potential Service Re Last Activity Comple	
Work Order Comm Compared to Hach	-						
	· · · · · · · · · · · · · · · · · · ·						
Task	A1626M	ANALYZER TURBIDITY	Alleria Marie	Autoria (1994) September 1994 (1994)			
Tool	Description					Qty Reqd	Qty Used
BOTBRU	SOFT BRUSH						1.00
PORTAT	PORTABLE T	URBIDIMETER					1.00
Performance Indica	itor Description	00			Low Value	High Value	Measured Value
OLRB	ON LINE	METER READING BEGIN					.474
OLRF	ON LINE	METER READING FINISH					. 474
OM%D	ON LINE	METER PERCENT OF DRIFT					0
Safety Procedures Message Descript	on "	Activity Co	mments				
EEN ENTRY	AND EXIT NOTIFIC	TH	E SITE. THE	FOLLOWING IN	FORMATION SHOU	JLD PROVIDE APPR	NOTIFIED OF ENTRY INTO ROXIMATE TIME AND EN THAT SITE HAS BEEN

VACATED AND SECURED.

A1626M INTRODUCTION:

TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL.

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5

(416)314-5600 Fax (416)314-8300

Equipment Work Order

Report Date 27/10/2003 11:37 AM Submitted By Jean Veilleux Page 2 Safety Procedures Message Description **Activity** Comments maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details. The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet. **RUNNING CHECKS:** 1) Check for leaks from the sample piping and drain lines. 2) Check display for alarm conditions or fault messages. MAINTENANCE PROCEDURE: 1) Perform a grab sample at the turbidimeter 2) Check sample with portable or laboratory turbidimeter compare value of the on-line analyzer with grab sample results. 3) Ensure all remote display or recording devices are within acceptable limits. Eg: Chart recorders, Outpost5, SCADA systems. ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT WPROT WORK PROTECTION PROCEDURE. Comments Started Completed Date 28/08/2003 08:00 1.00 80636 <u>Time</u> Hours <u>Date</u> Time **Unit of Meas** COMPLET Condition Quantity Result Total Usage Jean Veilling Sign-off Data Group

Equipment Work Order

Report Date	27/10/2003 11:	31 AM	Submitted	1 Ву	Jean Veilleu	1X				Page 1
Work Order #	601865		Activity	A162	24M	ANA	LYZER CHLO	DRINE		
Equipment ID	0000101624				<u>Description</u>		ANALYZER (CHLORINE RESV	/TREA	TED
<u>Site</u> Subunit Of	FAC	5708		<u>[</u>	Description	(CHESTERVILLE	E WW&DS		
Area District	2 NDUN	EASTERN REGION TOWNSHIP OF NO WTP: ANALYZER (RTH DUNDAS	Ī	Sub-area Loc		CHES HL	CHESTERVILLI INPLANT HIGH		MPING
Loc Qualifier		WIP: ANALTZER	JLZ RESV BLDG I	KI HZ	:0					
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU RESR IN 720.00 DEPOLOX 3 U-S BE94021	INSTRUMENTATIO WATER RESERVO IN SERVICE (INCL. 95213	IR/TANK/AREA	<u>E</u> <u>E</u> <u>V</u>	Manufacturer Building Level Expected Life Total Usage Warranty Expire Purchase Date	(2 (WALL G 25 0.00	WALLANCE & GROUND LEVE MTBF Purchase Cost	≣L (D D.00
Initiated By Assigned To					Initiated Service		22/07/2003	Scheduled Due	01/08/	/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem										
<u> </u>	5708		CHESTERVILLE V	vw&D	s			Out of Service		
Source Last Activity	A1624M		ANALYZER CHLO	RINE				Potential Service Re Last Activity Comple		28/08/2003
Work Order Commer Compared to hach po	_	No calibration required	d.							
ActDefn Comments WALLANCE & TIERI	NAN DEPOLOX 3	CL2 ANALYZER								
				and the few	er-Valuenness	The route	A Samuul Va		28 J.M.P	0.7-1.1
Task /	A1624M Description	ANALYZER CHL	ORINE					LOUINES	(1 <u>00)</u> 12	A COMP
CHEMHA	CHEMICAL HA	ZARD							- 11	
	500×044		CONCRETE VIOLENCE PROPERTY AND AN ANY	aruseis	AND STORE OF THE S			Alf Auri mar		
Performance Indicate			andomatically (2)		Answer of the same and the	Lov	w Value	High Value		ad Value
OLRB		METER READING BE				+			1.2	
OLRF		METER READING FI				-			1.22	
TMFR	IESTME	TER FIELD READING	Service Sept. Service Sept.						<u>). </u>	T
Safety Procedures Message Description	1	A	ctivity Comments	3	erion Personal	erano EE			or been j	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

MONTH MONTHLY PREVENTATIVE MTCE

JOB SAFETY PLANNING

ENTRY AND EXIT NOTIFICATION

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JSP

HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. A1624M INTRODUCTION:

VACATED AND SECURED.

ENSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEEN NOTIFIED OF ENTRY INT $\dot{\varphi}$

TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL

THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN

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Equipment Work Order

Report Date

27/10/2003 11:31 AM

Submitted By

Jean Veilleux

Page 2

Safety Procedures Message Description

Activity Comments

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details.

The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet.

RUNNING CHECKS

1) Test alarm set points.

MAINTENANCE PROCEDURES

- 1) Isolate the analyser and turn the power off.
- 2) Clean and flush all water lines, strainers and tubing.
- 3) Remove the sample cell and clean with a weak solution of muriatic acid.(5%)
- 4) Clean and inspect the two electrodes. Ensure that the copper ring electrode is not worn thin from the water flow and the abrasive grit.
- 5) Inspect and replace any o-rings as required.
- 6) Reassemble the electrodes and the sample cell.
- 7) Adjust the flow control valve to the desired flow.
- 8) Add a pinch of abrasive grit to the sample cell. This helps reduce the scale build up on the electrodes.
- 9) Calibrate the unit, and return to service.

ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT PROCEDURE.

WPROT WORK PROTECTION

Started		Completed	The state of the s		
Date	Time	By 80360	Date 28/08/20	03 Time 0	08:00 Hours 1.00
Result COMPLE	ET	Condition	Qua	ntity	Unit of Meas
otal Usage					

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MONTH MONTHLY PREVENTATIVE MTCE

A1626M

INTRODUCTION:

Equipment Work Order

Report Date 27/10/2003 11:52 AM Submitted By Jean Veilleux Page 1 Work Order # 628970 **Activity** A1626M ANALYZER TURBIDITY Equipment ID 0000101626 Description ANALYZER TURBIDITY TRT H20 Site FAC 5708 Description CHESTERVILLE WW&DS Subunit Of CHES 2 **FASTERN REGION** <u>Area</u> Sub-area CHESTERVILLE HUB District NDUN TOWNSHIP OF NORTH DUNDAS HL INPLANT HIGH LIFT PUMPING Loc Loc Qualifier CHESTERVILLE WTP: METER TURBIDITY HL RESV BLDG TREATED H20 Equipment Type INSTRU INSTRUMENTATION Manufacturer HACH HACH CO. Building RESR WATER RESERVOIR/TANK/AREA **Building Level** G **GROUND LEVEL** Service Status IN IN SERVICE (INCL. STANDBY) Expected Life 25 Avg Monthly Usage 720.00 Total Usage 0.00 Warranty Expires Model# 1720C **MTBF** 0 950500010191 Purchase Date Serial # Purchase Cost 0.00 Budget # Initiated By Initiated Date 22/09/2003 Scheduled 01/09/2003 08:00 Service # Assigned To <u>Due</u> **Authorization** Budget # Crew Maint Type **Priority** Problem <u>Project</u> 5708 CHESTERVILLE WW&DS Out of Service Source Potential Service Request 30/09/2003 Last Activity A1626M ANALYZER TURBIDITY Last Activity Completed Work Order Comments Verified with ICE Pick. ANALYZER TURBIDITY Task A1626M Tool Description Qty Reqd Qty Used **BOTBRU** SOFT BRUSH 1.00 **PORTAT** PORTABLE TURBIDIMETER 1.00 Performance Indicator Low Value High Value Measured Value Description **OLRB** ON LINE METER READING BEGIN 474 OLRF ON LINE METER READING FINISH . 474 OM%D ON LINE METER PERCENT OF DRIFT 0 Safety Procedures
Message Description Activity Comments EEN ENTRY AND EXIT NOTIFICATION ENSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEEN NOTIFIED OF ENTRY INTO THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN VACATED AND SECURED. TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR JSP JOB SAFETY PLANNING CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL

HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL.

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and

Report Date	27/10/2003 11:52 A	M	Submitted By	Jean Veilleux					Page 2
Safety Procedu Message Des	ires cription	Activity	Comments						
			correct defects v	the specified equip which are not antic ation that may be r er details.	ipated in this proc	edure. This	document	will not provide	e all the
				and "As Left" readed on the Hansen			ılities found	and any repair	rs carried ou
			•	CKS: ks from the sample of for alarm condition					
WPROT WC	RK PROTECTION		Perform a gra Check sample sample results. Ensure all ren Eg: Chart rec	PROCEDURE: b sample at the tue with portable or leading to the sample at the tue with portable or leading to the sample at the tue orders, Outpost5, DE-ENERGIZE T	aboratory turbidin ording devices an SCADA systems	e within acco	eptable limi	ts.	
			PROCEDURE.						
Comments									
Started Date	Time	Completed By 8063	6	Date	30/09/2003	Time	08:00	Hours	
Result Co	OMPLET	Condition			Quantity		Ų	nit of Meas	
Total Usage									
Data Group		Sign	of Lea	n De	eller				
			OF The second						-

Equipment Work Order

Report Date	27/10/2003 11	:51 AM Submitted	By Jean Vellieux			Page 1
Work Order#	628969	Activity	A1624M AN	IALYZER CHLC	RINE	
Equipment ID	0000101624		Description	ANALYZER C	HLORINE RESV	TREATED
Site Subunit Of	FAC	5708	Description	CHESTERVILLE	WW&DS	
Area District Loc Qualifier	2 NDUN CHESTERVILLI	EASTERN REGION TOWNSHIP OF NORTH DUNDAS E WTP: ANALYZER CL2 RESV BLDG 1	<u>Sub-area</u> <u>Loc</u> RT H20	CHES HL	CHESTERVILLE INPLANT HIGH L	ŧ
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU RESR IN 720.00 DEPOLOX 3 U- BE94021	INSTRUMENTATION WATER RESERVOIR/TANK/AREA IN SERVICE (INCL. STANDBY) 95213	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	WALL G 25 0.00	WALLANCE & THE GROUND LEVEL MTBF Purchase Cost	1
Initiated By Assigned To			Initiated Da Service #	ate 01/09/2003	Scheduled Due	01/09/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	5708 A1624M	CHESTERVILLE ANALYZER CHLO			Out of Service Potential Service Req Last Activity Complete	
Work Order Comm		No calibration required.				
ActDefn Comments	·					
Task	<u>A1624M</u>	ANALYZER CHLORINE			12. P	
Safety Message CHEMHA	Description CHEMICAL HA	AZARD				
Performance Indica	ator Description	20		Low Value	High Value	Measured Value
OLRB		METER READING BEGIN				1.13
OLRF TMFR		METER READING FINISH TER FIELD READING				1.13 F.13
		- · · · <u> · - · · · · · · · · </u>				
Safety Procedures Message Descript EEN ENTRY	ion AND EXIT NOTIFIC	Activity Commen		OR THEIR DESIG	NATE HAVE BEEN N	OTIFIED OF ENTRY INTO

MONTH MONTHLY PREVENTATIVE MTCE

JOB SAFETY PLANNING

JSP

HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. A1624M INTRODUCTION:

VACATED AND SECURED.

THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN

TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL

1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Equipment Work Order

Report Date

27/10/2003 11:51 AM

Submitted By

Jean Veilleux

Page 2

Safety Procedures Message Description

Activity Comments

This Preventative Maintenance Procedure has been developed to aid field personnel in the care and maintenance of the specified equipment. However, maintenance personnel are expected to look for and correct defects which are not anticipated in this procedure. This document will not provide all the technical information that may be required, and it may be necessary to refer to the manufacturer's manual for further details.

The "As Found" and "As Left" readings, as well as any abnormalities found and any repairs carried out are to be recorded on the Hansen Feedback Sheet.

RUNNING CHECKS

1) Test alarm set points.

MAINTENANCE PROCEDURES

- 1) Isolate the analyser and turn the power off.
- 2) Clean and flush all water lines, strainers and tubing.
- 3) Remove the sample cell and clean with a weak solution of muriatic acid.(5%)
- 4) Clean and inspect the two electrodes. Ensure that the copper ring electrode is not worn thin from the water flow and the abrasive grit.
- 5) Inspect and replace any o-rings as required.
- 6) Reassemble the electrodes and the sample cell.
- 7) Adjust the flow control valve to the desired flow.
- 8) Add a pinch of abrasive grit to the sample cell. This helps reduce the scale build up on the electrodes.
- 9) Calibrate the unit, and return to service.

ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT PROCEDURE.

WPROT WORK PROTECTION

Commen	is .							
Started		Comple	ited	The state of the s				
Date	Time	By	80360	Date	15/09/2003	<u>Time</u> 08:0	00 <u>Hours</u>	1.00
Result	COMPLET	Condition			Quantity		Unit of Meas	
Total Usa	ge							
Data Gro	nb		Sign-off fla	n Of	ulling			



Chesterville Hub

5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

Fax

То	Robert Walker.
Company	Accutest.
Fax Number	727-5222
From	Dave.
Date	
Number of Pages	6. (including this page)
Subject	LAB NOTIFICATIONS
As p	er your represt.
None	of these CofA's require sampling other than tables , C 3 D.
any:	sampling other than tables
AB	, C 3 D.
	Dave



Ottawa • Kingston

NOTIFICATION OF LABORATORY SERVICES

Ontario Regulation 459/00

210000773

Friday, February 21, 2003

Mr. Blair Henderson CHESTERVILLE WELL SUPPLY OCWA Chesterville 5 Industrial Drive Chesterville, ON K0C 1H0

Re: Clarification of Testing Requirements

Dear Mr. Henderson:

The MOE has brought an important matter to my attention. Due to upcoming changes in the DWIS, only routine tests required under the Regulation should be identified on the Notification forms and must match exactly the testing requirements for CHESTERVILLE WELL SUPPLY. Therefore, it is essential that you identify any additional tests (beyond Tables A, B, C, and D) that are required through a Ministry Control Document such as a Certificate of Approval or a Director's Order. It is up to the waterworks owner to ensure that all required tests are being performed and that tests not required are not included in the Notification form. Failure to do so could result in the waterworks being in a position of noncompliance.

It was suggested by the MOE that you complete the following checklist and highlight any parameter below that CHESTERVILLE WELL SUPPLY is obligated to have analyzed as specified in a Certificate of Approval or a Director's Order. Do not include those tests that you may be performing on-site or are doing for a study. Once I have received the information, I will forward it to Sonia Coelho-Murphy at the MOE, who will then adjust the notification information accordingly. Note that when there are any changes to your "C of A" you must update the Notification form and re-send it to the MOE and be sure to request the appropriate tests when submitting samples to the lab.

Sincerely,

Robert Walker Accutest Laboratories Ltd.

Please fax this page back to Accutest at (613) 727-5222

Name of Waterworks: CHESTERVILLE WELL SUPPLY	Waterworks Number: 210000728
STILL THE WELL GOPPET	210000728
Cyanide	DOC
Chloramines	TOC
☐ Turbidity	Zinc
□ NTA	Aluminum
Colour	NDMA
☐ pH	Benzo(a)pyrene
Conductivity	Radionuclides
Hardness	Dioxins/Furans
☐ Alkalinity	Faecal Coliforms
Other Required Tests: other than ODWS Tables A, B, C, or D)	
Sinds Spire (apida A, D, C, Or D)	

HP OfficeJet K Series K80 Personal Printer/Fax/Copier/Scanner

Log for OCWA (613) 448-1616 Feb 21 2003 11:40am

T .	CTT.	. •
1261	Tran	saction
	11644	JUVUVII

Date	<u>Time</u>	Type	Identification	Duration	<u>Pages</u>	Result
Feb 21	11:37am	Fax Sent	7275222	2:37	6	OK



Chesterville Hub

5 Industrial Drive, P.O. Box 460 Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 www.ocwa.com

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То	MOE
Company	
Fax Number	416-235-5744
From	Dave Markell
Date	Jex 2013 March 3/03
Number of Pages	16 (including this page)
Subject	Lab Services Update
Chesteri	ville
wo	rks # 210000728



Ministry of the Environmen Ministère de l'Environnement JoHD Page 10133 Revised September 2002

NOTIFICATION OF LABORATORY SERVICES PROVIDED TO WATERWORKS (O. Reg. 459/00)

Waterworks Owners are Responsible for Ensuring that the Following Information is Up-to-Date and Accurate

This form must be completed and delivered to the Ministry at least three working days prior to the first analysis and three days prior to any change of the laboratory coming into effect, as specified in Ontario Regulation 459/00. (Failure to notify these parties in accordance with the Regulation constitutes an offence under the Ontario Water Resources Act.)

NEW SUBMISSION D UPDATED SUBMISSION	X	
A Series Office of the Control	WATERWORKS II	NEORM ATION
		- -
NAME OF WATERWORKS: Chesteryil	le	WATERWORKS #: 1000728
OCATION OF WATERWORKS:		
	Chesto	erville andrio, KOC 140 Perrol Code
contact NAME: Dave Markel		E-Mail: dmortell @ own com
MANE 613-448-358 EAV. 613-4	148-3-090	E-Mail: dmorkell @ owe com
PRINC: UIV II U TO TO TAKE UIV I	1616	
ADDRESS: 5 Industrial of	r Ge	Chasteruille Ontario, KOC i Ho
WATERWORKS OWNER: MUNICIPAL, NAME_		□ PROVINCIAL, NAME
D FEDERAL, NAME		O INDUSTRIAL, NAME
CI PRIVATE, NAME		O OTHER, NAME
MAYOR COMORC. MICRONIAN E SIDEACE I		
		GODY
Please Provide a Check Next to All of the Parameter	s that are Required	and Performed by ALL Accredited Laboratories For Analysis:
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration	s that are Required	
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecal coliform - Membrane Filtration	s that are Required	and Performed by ALL Accredited Laboratories For Analysis:
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform - Membrane Filtration	s that are Required	and Performed by ALL Accredited Laboratories For Analysis: Name of Accredited Laboratory:
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecal coliform - Membrane Filtration	s that are Required	name of Accredited Laboratory: Name of Accredited Laboratory:
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration	that are Required	and Performed by ALL Accredited Laboratories For Analysis: Name of Accredited Laboratory:
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence	s that are Requires 0 0 0 0	I and Performed by ALL Accredited Laboratories For Analysis: Name of Accredited Laboratory: Name of Accredited Laboratory:
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence	that are Required	Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane)
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence	that are Required	Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coli - Most Probable Number	s that are Requires O O O O	Name of Accredited Laboratories For Analysis: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON, K1V 7P1
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coli - Most Probable Number Fecal Coliform - Most Probable Mumber	s that are Requires	Name of Accredited Laboratories For Analysis: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON, K1V 7P1
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coli - Most Probable Number	s that are Requires O O O O	Name of Accredited Laboratory: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON. K1V 7P1 PHONE: (613) 526-0123 FAX: (613) 731-085
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform - background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coli - Most Probable Number Fecal Coliform - Most Probable Number Total Coliform - Most Probable Number Heterotrophic Plate Count - Spread Plate	s that are Requires	Name of Accredited Laboratories For Analysis: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON, K1V 7P1
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coli - Most Probable Number Fecal Coliform - Most Probable Mumber	s that are Requires	Name of Accredited Laboratory: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON. K1V 7P1 PHONE: (613) 526-0123 FAX: (613) 731-085
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coli - Most Probable Number Fecal Coliform - Most Probable Number Total Coliform - Most Probable Number	that are Required	Name of Accredited Laboratory: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Oltawa, ON. K1V 7P1 PHONE: (613) 526-0123 FAX: (613) 731-0851
Please Provide a Check Next to All of the Parameter E. coli - Membrane Filtration Fecat coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coli - Most Probable Number Fecal Coliform - Most Probable Number Total Coliform - Most Probable Number Heterotrophic Plate Count - Spread Plate Heterotrophic Plate Count - Pour Plate Other Microbiological Parameter(s) Identified in a M	that are Required	Name of Accredited Laboratory: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Oltawa, ON. K1V 7P1 PHONE: (613) 526-0123 FAX: (613) 731-0851



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NOTIFICATION OF LABORATORY SERVICES PROVIDED TO WATERWORKS (O. Reg. 459/00)

Waterworks Owners are Responsible for Ensuring that the Following Information is Up-to-Date and Accurate

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DATE OF SUBMISSION (dd/mm/yy):		Dars Brosner
DATE OF SUBMISSION (dd/min/yy):		DATE RECEIVED (dd/mm/yy):
NEW SUBMISSION UPDATED SUBMISSION	0	
	WATERWORKS	INFORMATION
NAME OF WATERWORKS:		WATERWORKS #:
LOCATION OF WATERWORKS:		
Street # and Name		, Ontario,
चेत्रवर्था ≈ त्राप्त श्लिमाने	Lgwr/t	Gity Poeler Code
CONTACT NAME:		POSITION / TITLE:
PHONE: FAX;		E-Mail:
ADDRESS:		TowniCity Postel Code
Street # and Name		Town/City Postal Code
WATERWORKS OWNER: D MUNICIPAL, NAME_		□ PROVINCIAL, NAME
□ FEDERAL, NAME		□ INDUSTRIAL, NAME
		D OTHER, NAME
WATER SOURCE: D GROUND D SURFACE, I	NAME OF WATER F	BODY
Please Provide a Check Next to All of the Parameter	s that are Required	and Performed by ALL Accredited Laboratories For Analysis:
E. coli - Membrane Filtration	✓	Name of Accredited Laboratory:
Fecal coliform - Membrane Filtration	9	
Total coliform - Membrane Filtration	2 /	ACCUTEST LABORATORIES LTD.
Total colliorm background - Membrane Filtration HPC- Membrane Filtration	*	Address: 8-146 COLONNADE RD.
	_	NEPEAN , ON KRE TYL
E.coli - Presence/Absence	•	
Fecal coliform - Presence/Absence Total coliform - Presence/Absence	0	Phone: (613) 727-5692 Fax: (613) 727-5222
1 oral comput Lescucatedaduca	۵	
E.coli - Most Probable Number	•	E-Mail: info@accutestlabs.com
Fecal Coliform - Most Probable Number	0	
Total Coliform - Most Probable Number	0	
Heterotrophic Plate Count - Spread Plate	0	Comments:
Heterotrophic Plate Count - Pour Plate	ō	
Other Microbiological Parameter(s) Identified in a M	OE Cardificants of	
Approval, Order or Direction:	OF CEUIUCHIE OF	
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Please Provide a Check N	iext to Ali	of the Parameters th	at are Required a	nd Performed by ALL Accredited Laboratories for Analysis:
1,2-dichiorobenzene	0	Tetrachloroathyle	ne O	Name of Accredited Laboratory:
1,4-dichlorobenzene		Trichloroethylene	0	ACCUTEST LABORATORIES LTD.
1,2-dichloroethane		Trihalomethanes	0	
1,1-dichloroethylene		Toluene		Address: 8-146 COLONNAPE RD.
Benzene	0	Vinyl Chloride	<u> </u>	NEIEAN, ON KRETY!
Carbon Tetrachioride	<u> </u>	Xylene		•
Dichloromethane	0	Ethylbenzens	Ð	Phone: (613) 727 -5692 Fax: (613) 727-5222
Monochiorobenzene				
All of the above	✓			E-Mail: info @ accutestlabs . com
Other Volatile Organic Pa Approval, Order or Direct) Identified in a MOE	Certificate of	Comments:
*Cyanide *Chloramines *Turbidity *Nitrilotriacetic acid (NTA *Found in Schedule 4 of		ation		Name of Accredited Laboratory: ACCUTEST LABORATORIES LTD. Address: 8-146 (OLONNAPE RD. NEPERN), ON KRE TYL Phone: (613) 727-5692 Fax: (613) 727-5222
Other Operational Parami Approval, Order or Direct COLOUR, PH HARDNESS, AU	COND	UCTIVITY	ificate of	E-Mail: info @ accutestlabs.com comments:
Barium	0	Соррег	0	Name of Accredited Laboratory:
Boron	0	iron		•
Cadmium	0	Lead		ACCUTEST LABORATORIES LTD.
Chromium	0	Manganese	0	Address: 1-146 COLONNADE LO.
Arsenic	9	Selenium		NEPEAN , ON KAE 741
Mercury	Þ	Mitrate + Nitrite	O	MEPERN JON ROC !!
Uranium				Phone: (613) 727-5892 Fax: (613) 727-5822
Sodium	D			• • • • • • • • • • • • • • • • • • • •
Fluoride	0			E-Mall: info @ accutest labs. com
All of the above	d			THIP OF ACCOUNTS THE S. C. IN
Other Inorganic Paramete Approval, Order or Directi Zinc Asunt	ion:	fied in a MOE Certific	sate of	Comments:



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Please Provide a Check I	Next to All of	the Parameters that ar	e Required a	and Performed by ALL Accredited Laboratories for Analysis:
1,2-dichlorobenzene 1,4-dichlorobenzene	ο '	Tetrachieroethylene Trichloroethylene	a 0	Name of Accredited Laboratory:
1,2-dichloroethane		Trihalomethanes	3	Name of Accredited Laboratory:
1,1-dichloroethylene		Toluene	<u> </u>	11
Benzene		Yinyi Chloride	<u> </u>	Caduceon Environmental Laboratories (Camelot)
Carbon Tetrachioride		Xylene	0	ADDRESS: 40 Camelot Dr.
Dichloromethans		Ethylbenzene	U	1
Monochiorobenz ano	ស			Ottawa, ON.
All of the above	-			K2G 5X8
WI OF THE SHOVE	•			PHONE: (613) 228-1145 FAX: (613) 228-1148
Other Volatile Organic Parameter(s) Identified in a MOE Certificate of				
Approval, Order or Direct				E-Mail: gclarkin@arccolabs.com
				Name of Accredited Laboratory:
*Cvanide #				
*Chloramines	C			
*Turbidity	Ö			Name of Accredited Laboratory:
"Nitribotriacetic acid (NTA	A) 🗈			I.
				Caduceon Environmental Laboratories (Kingston)
 Found in Schedule 4 of 	f the Regulati	on		ADDRESS: 133 Dalton Ave.
				Kingston, ON.
Other Operational Param	atadel Idadi	field in a MOS Cartline	ate of	K7K 6C2
Other Operational Param Approval, Order or Direc	igueta) robiili			
white an exec	rfe-Aggr			PHONE: (613) 544-2001 FAX: (613) 544-2770
Ammonia	١٠			
				E-Mail: etri@kingston.net
			+	
Barium Boren	:	Copper Iron •	•	Name of Accredited Laboratory:
Cadmium Chromium	•	Manganese •		Name of Accredited Laboratory:
Arsenic	•	Selenium 4		Caduceon Environmental Laboratories (Holly Lane)
Mercury	•	Nitrate + Nitrite •		Caduceon Environmental Laboratories (Hony Cano)
Uranium	•			ADDRESS: 2378 Holly Lane
	_			Ottawa, ON.
Sodium	•			KIV 7P1
Fluoride	-			TAV. (842) 724 005
All of the above	•		_	PHONE: (613) 526-0123 FAX: (613) 731-0851
			_	E mail: mziebell@caducconlahs.com
Other inorganic Parameter(s) Identified in a MOE Certificate of Approval, Order or Direction:			E man: unichetra cadaccomana senti	
Z.10C, 921	<u> </u>	Din, CARCI	\ . \.	

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de l'Environnament Page 3011 Revised September 200.

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Please Provide a Check I	Vext to All	of the Parameters that	are Required a	nd Porformed by ALL Accredited Laboratories for Analysis:
1,2-dichlorobenzene 1,4-dichlorobenzene 1,2-dichloroethane 1,1-dichloroethylene Benzene Carbon Tetrachloride Dichloromethane Monochlorobenzene All of the above Other Votable Organic Papproval, Order or Direct		Tetrachloroethylene Trichloroethylene Tribalornethanes Toluene Vinyl Chloride Xylene Ethylbenzene	D D D D D D D D D D D D D D D D D D D	Name of Accredited Laboratory: Address: Phone: Fax: E-Mail: Comments: Name of Accredited Laboratory:
*Cyanide *Chloramines *Turbidity *Nitritotriacetic acid (NT/) *Found in Schedule 4 of Other Operational Param Approval, Order or Direct Alkalinity Colour;	the Regulation: Hide Conc	SULPHATE		Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON. K1V 7P1 PHONE: (613) 526-0123 FAX: (613) 731-0851 E mail: mziebell@caducconlabs.com
Barium Boron Cadmium Chromium Arsenic Mercury Uranium Sodium Fluoride All of the above Other Inorganic Paramet Approval, Order or Direct	D D D D D D D D D D D D D D D D D D D	Copper Colors Co		Name of Accredited Laboratory: Address: Phone: Fax: E-Mail: Comments:

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NOTIFICATION OF LABORATORY SERVICES PROVIDED TO WATERWORKS (O. Reg. 459/00)

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1.2-dichlorobenzene		Tetrachioroethylen)	Name of Accredited Laboratory:	
1.4-dichlorobenzene	0	Trichloroethylene				
1.2-dichloroethane	_	Tribalomothanes	Č		1	
1,1-dichloroethylene	_	Toluene	č		Address:	
Benzene	<u> </u>	Vinyl Chloride	č	_		
Carbon Tetrachioride	ă	Xylene	Č			
Carbon residence		Ethylbenzene		-	Phone: Fax:	
	0	etnysoenzene	_	4	Prione: Fax:	
Monochlorobenzene						
All of the above	0				E-Mail:	
Other Volatile Organic Pa Approval, Order or Directi		s) Identified in a MOE C	Certificate	of	Comments:	
*Cvanide D					Name of Accredited Laboratory:	
*Cyanide D *Chloramines		¢				
	8				Name of Accredited Laboratory:	
*Turbidity					•	
"Nitrilotriacetic acid (NTA)	, ப				Caduceon Environmental Laboratories (Camelot)	
* Found in Schedule 4 of the Regulation			ADDRESS: 40 Camelot Dr. Ottawa, ON. K2G 5X8			
Other Operational Parame		entified in a MOE Certif	icate of			
Approval, Order or Directi	ion:				PHONE: (613) 228-1145 FAX: (613) 228-1148	

Barium Boron	ŭ o		0 0		Name of Accredited Laboratory:	
Cadmium	ā		_ 0		1	
Chromken	ū		_		Address:	
Arsenic	0		_		1	
="	ø		0		ţ	
Mercury		retievo + lennuc	_		Phone: Fax:	
Uranium	a				TINUTE, FEA.	
Sodium	12					
	a				E-Mail:	
Fluoride	ar ar					
All of the above	u					
					Comments:	
Other Inorganic Paramete	r(s) ider	nified in a MOE Certific	ate of			
Approval, Order or Direct	ion:					
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Please Provide a Check	Next to Al	of the Parameters the	st are Required a	and Performed by ALL Accredited Laboratories for Analysis:
Please Provide a Check 1,2-dichlorobenzene 1,4-dichlorobenzene 1,2-dichloroethane 1,1-dichloroethylene Benzene Carbon Tetrachloride Dichloromethane Monochlorobenzene All of the above Other Volatile Organic F Approval, Order or Direct	a a a a a a a a a a a a a a a a a a a	Tetrachioroethylene Trichioroethylene Trihoroethanes Toluene Vinyl Chloride Xylene Ethylbenzene		Ind Performed by ALL Accredited Laboratories for Analysis: Name of Accredited Laboratory: Address: Phone: Fax: E-Mail: Comments:
*Cyanide © *Chloramines *Turbicity *Nitrilotriacetic acid (NT * Found in Schedule 4 of Other Operational Parar Approval, Order or Direct	of the Regu		ificate of	Name of Laboratory: Maxxam Analytics Inc: Address: 5540McAdam Rd. Mississauga Ont L4Z 1P1 Phone:905-890-2555 Fax:905-890-2321 E Mail: jdisensi@qc.maxxam.ca Comments:
Barlum Boron Cadmium Chromium Arsenic	0000	iron Lead Manganese Selenium	0 0 0	Name of Accredited Laboratory: Address;
Mercury Uranium Sodium Fluoride All of the above Other inorganic Parama Approval, Order or Direct			cate of	Phone: Fax: E-Mail: Comments:



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Piesse Provide a Check N	ext to A	of the Parameters that a	re Required a	and Performed by ALL Accredited Laboratories for Analysis:	
1.2-dichlorobenzene	0	Tetrachloroethylene	۵	Name of Accredited Laboratory:	
1.4-dichlorobenzene	Ď	Trichioroethylene	õ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1.2-dichioroethane		Tribalomethenes	•		
1.1-dichloroethylene	0	Toluene	Q	Address:	
Benzene	0	Vinyl Chloride	0		
Carbon Tetrachloride	•	Xviene	0		
Dichloromethane	0	Ethylbenzene	۵	Phone: Fax:	
Monochlorobenzene	•	•		·	
All of the above	a		•	E-Mail:	
Other Volatile Organic Par Approval, Order or Directi		s) identified in a MOE Cer	rtificate of	Comments:	
*Cyanide D				Name of Laboratory:	
*Chloramines				SGS Lakefield Research	
Turbidity	ō				
*Nitrijotriacetic acid (NTA)				Address: 185 Concession Rd.	
, ,				Lakefield Ont K0L 2H0	
* Found in Schedule 4 of t	he Regu	ilation	!	Phone: 705-625-2000 Fax: 705-652-6441	
				Phone: 703-023-2000 1 ax :705 055 0 11	
			'		
Other Operational Parame	ter(s) id	entified in a MOE Certification	ate of	E Mail:dwingett@lakefield.com	
Approval, Order or Directi	on:				
100c				Comments:	
000					
ł					
				j	
Barium	0	Copper	_	Name of Accredited Laboratory:	
Boron		iron 🗆			
Cadmium	_	Lead D			
Chromism	ā	Manganese 🗆		Address:	
Arsenic	ū	Selenium 🗆		j	
Mercury	Ö	Nitrate + Nitrite 🗆		1	
Uranium	Ď			Phone: Fax:	
Sodium				}	
Fluoride	_			E-Mail:	
All of the above					
U. U	_				
l				Comments:	
Other Inorganic Paramete	r(s) Ider	tified in a MOE Certificate	e af		
Approval, Order or Directi					
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Please Provido a Check N	lext to All of the Parameters that are	Required:	and Performed by ALL Accredited Laboratories for Analysis:
2,3,4,6-tetrachiorophenoi 2,4-dichiorophenoi 2,4-b-trichiorophenoi 2,4,5-trichiorophenoi 2,4-D 2,4,5-T Alachior Aldicarb Aldrin + Dieldrin Atrazine + Metabolites Azinphos-methyi Bendiocarb Bromoxynii Carbaryi Carbofuran Chiordane (Total) Chiorpyrifos Cyanazine DDT + Metabolites Diazinon Dicamba Diclofop-methyi Dimethoate Dinoseb Diquat		9/	and Performed by ALL Accredited Laboratories for Analysis: (1) Name of Accredited Laboratory: ACCUTEST LABORATORIES LTD. Address: B-146 COLONNAPE RD. NEFEAN, ON KRE 771 Phone: (613) 727 - 5892 Fax: (613) 727 - 5222 E-Mail: Info & Accutest labs. com Comments: (2) Name of Accredited Laboratory (If applicable): Address:
Diuron	a ∕		Phone: Fax:
*Nitrosodimethylamine (Ni *Benzo(a)pyrene *Radionuclides *Diexins and furens * Found in Schedule 4 of t All of the above			E-Mail: Comments:
Other Parameter(s) Identifi or Direction:	fied in a MOE Certificate of Approva	i, Order	(3) Name of Accredited Laboratory (if applicable): Address:
			Phone: Fax:
			E-Mail: Comments:
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NOTIFICATION OF LABORATORY SERVICES PROVIDED TO WATERWORKS (O. Reg. 459/00)

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	Parathion		Kingston, ON.
	B PCBs	• .	K7K 6C2
	 Pontschlorophenoi 	DHONE: (613) 6	44-2001 FAX: (613) 544-27
Bromoxynit	Phorate	■ PHONE: (013) 3	
Carbaryl	Picioram	E-Mail: etrl@kin	gston net
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NOTIFICATION OF LABORATORY SERVICES PROVIDED TO WATERWORKS (O. Reg. 459/00)

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5.5.0	_			Mississauga, ON.
				L5N 5L9
*Nitrosodimethylamine (Ni	DM A			
*Benzo(a)pyrene		3		PHONE: (905) 826-3080 FAX: (905) 826-4151
*Radionuclides		~ •		[
*Dioxins and furans		-		E-Mail: dburgess@becquerel.com
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Please Provide a Check Nex	ut to	All of the Parameters that are Req	e berlu	nd Performed by ALL Accredited Laboratories for Analysis:
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2,4,6-trichlorophenol		Lindane	0	Wellington Laboratories
2,4-D		Malathion	0	
2,4,5-T		Methoxychlor	0	Address: 398 Laird Rd.
Alachior		Metolachior	0	Guelph Ont NIG 3X7
Aldicarb		Metribuzin	0	Phone: 519-822-2436 Fax:519-822-2849
Aidrin + Dieldrin		Paraquat	0	
Atrazine + Metaboliles		Parathion	D .	The March and Court lake com
Azinphos-methyl		PCBs	0	E Mail:colleen@well-labs.com
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2,4-D	٥	Malathion		Address: 5540 McADAM RD.
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Alachior		Metolachior	0	• • • • • • • • • • • • • • • • • • • •
Aldicarb		Metribuzin	0	Phone: (905) 990 - 2555 Fax: (905) 890 - 0370
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Atrazine + Metabolites	0	Parathion		
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2,4,5-T				WATERLOO, ON .
Alachlor	0	Metolachior		
Aldicarb	0	,	0	Phone: (519) 747 - 2575 Fax: (519) 747 - 390
Aldrin + Dieldrin	0	Paraquat	0	
Atrazine + Matabolites	0	Perathion PCBs		E-Mail:
Azinphos-methyl Bendiocarb	ä	Pentachiorophenol	<u> </u>	- men.
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Have you taken measures to ensure that ALL laboratories that you requirements for reporting data?	use are accredited for the specific testing and are aware/ of their
Yes No 2 Comments:	
Have you provided the appropriate laboratories with the Ontario Mare required to test but which are not listed in the Schedule 4, Ontario Ves No D Comments:	linistry of the Environment standards for other parameters that you are Regulation 459108?
Prepared By (please print): Dave Markel Signature: Cove Ann Con Title: Process Tech- Please send completed form to:	Date: Away 103 Mar. 3/03 For further information contact:
Ministry of the Environment Laboratory Services Branch 125 Resources Road Etobicoks, Ontario M9P-3V6 Attention: Laboratory Director Fax: (416) 235-5744 or (416) 235-6312	Ministry of the Environment Laboratory Services Branch Customer Service Section Phone: (416) 235-8311

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Log for OCWA (613) 448-1616 Mar 03 2003 2:57pm

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NSF International

RECOGNIZES

JACOBI CARBONS, INC. PHILADELPHIA, PA

AS COMPLYING WITH ANSI/NSF 61. PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE AUTHORIZED TO BEAR THE NSF MARK.







This certificate is the property of NSF International and must be returned upon request. To verify certification, call #00 NSF-MARK or () 734 769-8010.

February 1, 2002 Certificate# 0B230 - 01 James R. Paschal, General Manager

Water Distribution Systems



Roger Luu Ontario Clean Water Agency Corporate Office One Yonge Street Suite 1700 Toronto Ontario M5E 1E5

Thursday May 22, 2003

At your request, please accept this letter as proof that the Sodium Hypochlorite 12%, AWWA Standard B300-99 and Powder Activated Carbon B600-96 that ClearTech supplies to Ontario Clean Water Agency meet the AWWA Standard, American National Standard Institute and NSF 60/61 requirements as requested by the Ministry of Environment.

At this time the AWWA do not have a standard on Sodium Silicate.

Also all products sold to drinking water treatment plants by ClearTech Industries Inc, meet or exceed AWWA ANSI standards.

Should you have any questions, please contact me.

Sincerely ClearTech

Don Biggs.
Sales Manager
ClearTech Industries Inc.
7480 Bath Road
Mississauga, Ontario
L4T 1L2
905-612-0567
905-612-0575 Fax
dbiggs@cleartech.ca
www.cleartech.ca



Post-it" Fax Note 7671E	Date 03/25/63 pages 1		
	From Dan 31665		
To Roger lux Co./Dept.	Ca.		
Phone #	Pnone #		
Fex #416 3145455	Fax #		

SODIUM HYPOCHLORITE (NaOCI) 12% SOLUTION SPECIFICATIONS

Solutions are a clear light yellow liquid, also referred to as Blaach.

PHIOSTICAL AGUARISMONIS	
Available Chlorine	10.5 - 11.0% w/wt
Specific Gravity @ 15°C	1.15 – 1.20
Crystallizing Point	-25°C

Sodium Hydroxide (NaOH)	0.5 - 0.9% wiw
Carbonate (Ns ₂ CO ₂)	1.48% max
Iron (Fe)	1.1 ppm max
Nickle (NI)	.08 ppm max
Copper (Cu)	
Cobalt (Co)	.am mqq 80.
This product meets the following translands: " Canadian General Standards Board American Water Works Assoc (AWWA) B-300-92	
This product is certified under NSF Standard 60 for potabl	e water treatment

CLEARTECH INDUSTRIES INC. 7480 SATH ROAD, MISSISSAUGA, ONTARIO, CANADA L4T 1L7 PHONE (905) 612-0566 FAX (905) 612-0575
TOLL FREE: 1-800-387-7503







NSF Product and Service Listings

These Listings were Last Updated on Tuesday, November 26, 2002 at 4:15 AM Eastern Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

Warning: NSF is concerned about fraudulent downloading and manipulation of website text. If you have received this listing in hard copy, always confirm this certification/listing information by going directly to http://www.nsf.org/Certified/PwsChemicals/Listings.asp?Company=0S770&Standard=060& for the latest most accurate information.

ANSI/NSF STANDARD 60 Drinking Water Treatment Chemicals - Health Effects

KIK CORPORATION

33 MACINTOSH BOULEVARD CONCORD, ONTARIO L4K 4L5 CANADA 905-319-7345

Plant at: CONCORD, ONTARIO, CANADA

Sodium Hypochlorite[CL]

Trade Designation
KIK Bulk Bleach 12% Trade
KIK Bulk Bleach 19% Trade

Product Function
Disinfection & Oxidation
Disinfection & Oxidation

Max Use 97mg/L 65mg/L

(CL) The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Number of matching Manufacturers is 1 Number of matching Products is 2 Processing time was 0 seconds

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Post-it Fax Note 7671E	Date NO 1 26 pages 1
To Roger Ly	From Don BAGE
Co./Dopt. OCWA	Co. Cleartech
Phone & Purchasina	Phone #
Fax #	Fax #

RECEIVED, SUBJECT TO THE CLASSIFICATIONS AND TARIFFS IN EFFECT ON THE DATE OF ISSUE OF THIS ORIGINAL BILL OF LADING, OR, RECEIVED, SUBJECT TO THE RULES FOR THE CARRIAGE OF EXPRESS AND NON-CARLOAD FREIGHT TRAFFIC AND TARIFFS IN EFFECT ON THE DATE OF ISSUE OF THIS ORIGINAL SHIPPING CONTRACT (BILL OF LADING), GOODS DESCRIBED BELOW, IN APPARENT GOOD ORDER, EXCEPT AS NOTED (CONTENTS AND CONDITIONS OF CONTENTS OF PACKAGES UNKNOWN), MARKED, CONSIGNED AND DESTINATION IF ON ITS ROAD, OTHERWISE TO DELIVER TO ANOTHER CARRIER ON THE ROUTE TO SAID DESTINATION.

REÇU SOUS RÉSERVE DES CLASSIFICATIONS ET TARIFS EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONNAISSEMENT ORIGINAL, OU SOUS RÉSERVE DES RÈGLEMENTS RÉGISSANT LE TRANSPORT DES MESSAGERIES ET MARCHANDISES DE DÉTAIL ET DES TARIFS EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONTRAT DE TRANSPORT (CONNAISSEMENT), LES MARCHANDISES DÉSIGNÉES CL-DESSOUS, APPAREMMENT EN BON ÉTAT, SAUF LES REMARQUES FAITES DANS LA PRÉSENTE (LE CONTENU ET L'ÉTAT DU CONTENU DES COUS ÉTANT INCONNUS), MARQUÉES ET CONSIGNÉES TEL QUINDIQUÉ C'-DESSOUS, ET QUE LA COMPAGNIE S'ENGAGE À TRANSPORTER À DESTINATION À SON LIEU HABITUEL DE LIVRAISON, POURVU QUE TELLE DESTINATION SOIT SUR SON PARCOURS, SINON À

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4 MEMORANDUM MÉMORANDUM FEFECT ON THE DATE OF ISSUE OF THIS ORIGINAL SHIPPING CONTRACT (BILL OF LADING), GOODS DESCRIBED BELOW AND DESTINED AS INDICATED BELOW, WHICH SAID COMPANY AGREES TO CARRY TO ITS USUAL PLACE OF DELIVERY AT SAID DESTINATION, IF ON ITS ROAD, OTHERWISE TO DELIVER TO ANOTHER CARRIER ON THE ROUTE TO SAID DESTINATION.

RECU SOUS RÉSERVE DES CLASSIFICATIONS ET TARIFS EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONNAISSEMENT ORIGINAL, OU SOUS RÉSERVE DES RÉGLEMENTS RÉGISSANT LE TRANSPORT DES MESSAGERIES ET MARCHANDISES DE DÉTAIL ET DES TARIFS

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EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONTRAT DE TRANSPORT (CONNAISSEMENT), LES MARCHANDISES DÉSIGNÉES CI-DESSOUS, APPAREMMENT EN BON ÉTAT, SAUF LES REMARQUES FAITES DANS LA PRÉSENTE (LE CONTENU ET L'ETAT DU CONTENU DES COLIS ÉTANT INCONNUMENTATION DE DÉLIVRAISON, POURVU QUE TELLE DESTINATION SOIT SUR SON PARCOURS, SINON À COLIS ÉTANT INCONNUEL MATQUÉES ET CONSIGNÉES TEL QUINDIQUÉ CI-DESSOU LES LIVRER À UN AUTRE TRANSPORTEUR FAISANT ROUTE VERS CETTE DESTINATION. Lachine Warehouse OCWA CONSIGNEE DESTINATAIRE SHIPPER EXPÉDITEUR CHESTERVILLE RESERVOIR Brenntag Canada Inc BRANNEN ROAD (OFF INDUSTRIAL DRI OFFET ADDRESS OF BUE) 3000 Jean Baptiste Deschamps CHESTERVILLE, ON Lachine, PQ DESTINATION PROVINCE OR STATE PROVINCE OU ÉTAT PROVINCE OR STATE PROVINCE OU ÉTAT H8T 1E2 K00 2K0 Canada Canada POINT OF ORIGIN / POINT D'EXPÉDITION CUSTOMER ORDER NO.
N° DE COMMANDE DU CLIENT ORDER NO.
N° DE COMMANDE B/L NUMBER N° DE CONN. 4280 PQ 26247990 Lachine 1365613 CARRIER NAME / NOM DU TRANSPORTEUR REQUIRED / DEMANDÉE DATE SHIPPED EXPÉDIÉ LE CONSOLIDATED B/L NO. CONNAISSEMENT CONS. LE GROUPE GUILBAULT LTD. 01.10.2003 TRANSPORTATION MODE / MODE DE TRANSPORT INVOICE TO/BUYER-FACTURE À / ACHETEUR VEHICLE T/C NO. / MARQUE DU WAGON **OCWA** Less Than Truck Load ROUTING / ITINÉRAIRE PAGE NO. N° DE PAGE 45328364 DESCRIPTION OF ARTICLES AND SPECIAL MARKS DESCRIPTION DES ARTICLES ET INDICATIONS SPECIALES ACTUAL WEIGHT POIDS REEL ND. AND DESCRIPTION OF PACKS D.G. PALLET WOODEN RETURNABLE 1.00 KILOGRAMS each HYPOCHLORITE SOLUTIONS. CLASS 8. UN1791, PK GP IIII SODIUM HYPO10.8%(12% TRIDON RET18.9L NSF 773 32,00 KILOGRAMS DELCAN

KILOGRAMS *CORROSIVE* PLACARDS REQUIRED. **ランプランラン** **********

AVEC UNE TAIL GATE REQUIS CAMION APPELER AVANT LA LIVRAISON AU 1-613-448-3098 ***

TOTAL WEIGHT

2-0985 AND 24 HOUR NUMBER: 514-861-1211 ERAF

GROSS BRUT TOTAL NO. OF PIECES/PKGS. NBRE TOTAL DE COLIS IF CHARGES ARE TO BE PREPAID WRITE OR STAMP HERE 'TO BE PREPAID' INDIQUER ICI SI L'ENVOI SE FAIT EN 'PORT-PAYE' TARE

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, MARKED AND LABELLED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE TRANSPORTATION OF DANGEROUS GOODS ACT, 1992.

LA PRÉSENTE CERTIFIE QUE LES MATIÈRES CI-DESSUS MENTIONNÉES SONT PROPREMENT CLASSIFIÉES, DÉCRITES, IDENTIFIÉES ET ÉTIQUETÉES, ET QU'ELLES SONT EN BON ÉTAT POUR LE TRANSPORT CONFORMÉMENT AUX RÈGLEMENTS ADOPTÉS EN VERTU DE LA LOI SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES (1992).

DECLARED VALUE OF SHIPMENT VALEUR DÉCLARÉE

773

FORWARD INVOICE FOR PREPAID FREIGHT QUOTING OUR B/L NO. TO: FAIRE SUIVRE FACTURE POUR EXPÉDITION PORT PAYÉ EN RÉFÉRANT À NOTRE NUMÉRO DE

BRENNTAG CANADA INC. 2900 JEAN BAPTISTE DESCHAMPS LACHINE, PO H8T 1C8

MAXIMUM LIABILITY FOR LOSS OR DAMAGE \$2.00 PER POUND OR \$4.41 PER KILOGRAM UNLESS DECLARED VALUE STATES OTHERWISE.

PESPONSABILITÉ MAXIMALE POLIR PERTE OU DOMMAGE. 2 \$ LA LIVRE OU 4,41 \$ LE KILO, SAUF STIPULATION AU CONTRAIRE PAR LA VALEUR DÉCLARÉE..

SHIPPER

NET

Brenntag Canada Inc.

PREPAID

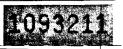
AGENT

DESTINATAIRE/CONSIGNÉE

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ON THE DATE OF ISSUE OF THIS ORIGINAL BILL OF LADING, OR, RECEIVED, SUBJECT TO THE RULES FOR THE CAPRIAGE OF ED BED BELOW. IN APPARENT GOOD ORDER, EXCEPT AS NOTED (CONTENTS AND CONDITIONS OF CONTENTS OF PACKAGES UNKNOWN), MARKED, CONSIGNE CATED BELOW, WHICH SAID COMPANY AGREES TO CARRY TO ITS USUAL PLACE OF DELIVERY AT SAID DESTINATION, IF ON ITS ROAD, OTHER ICATIONS ET TARIFS EN VIGUEUR À LA DATE DE DÉLAVAINCE DE CE COMMAISSEMENT ORIGINAL. OU SOUS RÉSERVE DES RÉGLEMENTS RÉGISSANT LE TRANSPORT DES MÉS EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONTRAT DE TRANSPORT (CONFANSISSEMENT), LES MARCHANDISES DÉSIGNÉES CI-DESSOUS, APPAREIMENT EN BON ÉTAT, SAUF LES REMARQUES FAITES DANS LA PRÉSENTE (LE CONTENU ET L'ÉTAT DU CONTENU DES COUS ÉTANT INCONNUS), MARQUÉES ET CONSIGNÉES TEL QUINDIQUÉ CI-DESSOUS, ET QUE LA COMPAGNIE S'ENGAGÉ À TRANSPORTER À DESTINATION À SON LIEU HABITUEL DE LIVRAISON, POURVU QUE TELLE DESTINATION SOIT SUR SON PARCOURS, SINON À LES LIVRER À UN AUTRE TRANSPORTEUR FASANT ROUTE VERS CETTE DESTINATION. Lachine Warehouse First and Res ideas SHIPPER EXPÉDITEUR CHESTERVILLE RESERVOIR Brenntag Canada Inc. BRANNEN ROAD (OFF INDUSTRIAL OF DRIVE ADDRESS OF RUE) 3000 Jean Baptiste Deschamps TREET ADDRESS PRESSE (N° RUE) CHESTERVILLE, ON Lachine. PQ DESTINATION DESTINATION KOC 2KO Canada THE REGULATION FOR THE H8T 1E2 Canada PROVINCE OR STATE PROVINCE OU ÉTAT न्य पद्म द्वारामीको <mark>मृत्</mark>य द्वारा नेवाया दुश्यो देश । । । । अस्तर्वे स्वरं हा । १८४५ हा Bi⊌ ¥⊈ 091 VELERABBING GELTH CUSTOMER ORDER NO. 1744 PE COMMANDE DU CLIENT 011136 POINT OF ORIGIN / POINT D'EXPÉDITION ORDER NO. 1350682 DATE SHIPPED EXPÉDIÉ LE 08.08.2003 REQUIRED / DEMANDÉE بالمراجعة والمراجعة i in-uni offices upa LE GROUPE GUILBAULT LTD, So see coop bies so to per the Less Than Truck Load OCWA ROUTING/ITINÉRAIRE de page en la caración a autor tengul e de la company sensition de la company tengul e de la co ्रव NO. AND DESCRIPTION OF PACKS D.G. NBRE ET DESCRIPTION DE COLIS PALLET, WOODEN, RETURNAUTER BURNAUTER OF Select to any goods carrier BURNAUTER OF SELECTION OF S -surities 1 ± 00 tan of shipment of the goods and the similated omount claimed in respect of such La notaciaKILOGRAMS as a seach e writing to the errorating comed within (60) days attention. Felly of the goods on in the case of failure to dalively, with HYPOCHLORITE SOLUTIONS, CLASS 8, UN1791, PK GP III SODIUM HYPO10.8%(12% TR)DCN RET18,9L NSF 32.00 KILOGRAMS DELCAN บาทระ สมอกระบานัด โด เดินสักต์ อย่ายั้นกลา ที่มี บายจรากสาวกุมการของ อแล Inus โอร์ ธนา การ อาร์ยนับ ระบายจรากสารสายสารสายสารสายสา พูรู อนาร์ม การของ พราย และ การ การการที่ () ได้ เลือน คราย อาร์ยนับ THRITY TATOT in anevoco amodified but out little ณ์ อ**ดแอซา**ษต ลาว - 1713/3C38 8 KILOGRAMS nde generate ni Tre de l**a C**om**nin**uscuit de v**e la papa** d'es transponti let reste muit et es evez or a ascaro de 180 4 *CORROSIVE* PLACARDS LEQUIRED STORE STORE SEE ******* CAMION AVEC UNE TAIL GATE REQUIS: Vergation for all descentions of contract of the contract of and ses is LA LIVRAISON AU 1-613-448-3098 *** is a reemode i zam pobooxis

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2-0985 AND 24 HOUR NUMBER

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PREPAID

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, MARKED AND LABELLED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE TRANSPORTATION OF DANGEROUS GOODS ACT, 1992. 1 & or regretation de le perte, ce configuration du la configuration de la properte de la properte de la properte de la configuration de la properte del la properte del la properte de la SUPPOXITIALIF E

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FORWARD INVOICE FOR PREPAID FREIGHT UOTING OUR B/L NO. TO: E SUIVRE FACTURE POUR EXPÉDITION PORT EN RÉFÉRANT À NOTRE NUMÉRO DE

BRENNTAG CANADA INC. 2900 JEAN BAPTISTE DESCHAMPS H8T 1C8 LACHINE. PO

\$2.00 PER POUND OR \$4.41 PER KILOGRAM UNLESS DECLARED VALUE STATES OTHERWISE. RESPONSABILITÉ MAXIMALE POUR PERTE OU DOMMAGE:

2 \$ LA LIVRE OU 4,41 \$ LE KILO. SAUF STIPULATION AU CONTRAIRE PAR LA VALEUR DÉCLARÉE

Brenntag Canada Inc.

DESTINATAIRE/CONSIGNÉE

THESE PRODUCTS ARE SOLD AND SHIPPED IN ACCORDANCE WITH THE CONDITIONS ON THE

CES PRODUITS SONT VENDUS ET EXPEDIES CONFORMEMENT AUX CONDITIONS

RECEIVED, SUBJECT TO THE CLASSIFICATION EFFECT ON THE DATE OF ISSUE OF THIS OR AND DESTINED AS INDICATED BELOW, WHICH	H SAID COMPANY AGREES TO CA	URRY TO ITS USUAL PLACE OF DELI	VERY AT SAID DESTINATION	IF ON ITS ROAD, OTHERWISE TO D	DELIVERTION			
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LE GROUPE GUI		INVOICE .	TO/BUYER-FACTURE À / ACH	3 10 at 10 at	11.	06.2003 VEHICLE	I/C NO. / MARQUE DU W	WAGON
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TARE	OTAL NO. OF PIECES/PKGS. NBRE TOTAL DE COLLS CHARGES ARE TO BE PREPAID WRITE OR STAMP HERE "TO BE PREPAID" OUER ICI SI L'ENVOI SE FAIT EN	LABELLED AND ARE I	IN PROPER CONDIT	ON FOR TRANSPORTAT GOODS ACT, 1992,	TION, ACCORDING	TO THE APPLICA	BLE REGULATIO	ONS OF
NET	PREPAID	LA PRÉSENTE CERTIF	res, identifiées et Formément àux p	RES CI-DESSUS MENTIC ÉTIQUETÉES, ET QU'EL ÈGLEMENTS ADOPTÉS EREUSES (1992)	LES SONT EN BO	n état pour	DECLARED VALUE OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALLEUR OF CALL	
FORWARD INVOICE FOR PREPAID FF QUOTING OUR B/L NO. TO: FAIRE SUIVRE FACTURE POUR EXPÉ PAYÉ EN RÉFÉRANT À NOTRE NUMÉ CONN À:	DITION PORT 2	RENNTAG CA 900 JEAN B ACHINE, PQ	APTISTE !		\$2.00 UNU RESI 2 \$ L	IMUM LIABILITY FOR I D PER POUND OR \$4.4 ESS DECLARED VALU PONSABILITÉ MAXIMA A LIVRE OU 4.41 \$ LE ITRAIRE PAR LA VALE	IT PER KILOGRAM E STATES OTHERW LE POUR PERTE OF KILO, SAUF STIPUL	U DOMMAGE
SHIPPER EXPEDITEUR Brenntag	Canada inc.	AGENT	- 1		DESTINA	TAIRE/CONSIGNÉE		





Date from Jan 01, 2003 to Aug 31, 2003

Region/Hub Name	Date	Course	Offered By	Status T	otal Hours	Days *
Eastern Region <chesterville hub=""></chesterville>						
Legislated Barrie, Andr				E4	.00	
Darrie, Andr	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	0.44
	17-Feb-03	Water Treatment 3 Exam Prep.	BEC Technologies	Completed	22.00	3.26
	28-Feb-03	•	RCA, OCWA	*		
		SDWA & Components of OCWA's EMS, Reg.435/93, Proce	•	Completed	3.00	0.44
	7-Apr-03	Water Quality Analyst	BEC Technologies	Completed	14.00	2.07
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.44
	16-Jul-03	Operation of Electric Check Valve	Power Plant Supply Company	Completed	6.00	0.89
Bortolussi, I	_isa			23	.00	
	7-May-03	Environmental Compliance	OCWA	Passed	13.50	2.00
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	0.96
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.44
Huskinson,	Brian			42	25	
	5-Feb-03	Operations & Maintenance of Prominent Chemical Pum	Metcon	Completed	3.00	0.44
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	0.44
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0.44
	24-Mar-03	Endress + Hauser Equipment Operations & Maintenanc	Endress + Hauser	Completed	3.50	0.52
	1-Apr-03	Water Distribution & Hydrant Repair	OCWA	Passed	20.25	3.00
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	0.96
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.44
	,, 50,, 00	in address to the grant of the state of the		Completed	3.00	0.74



Date from Jan 01, 2003 to Aug 31, 2003

n Region Chesterville Hub> Legislated						
Lauzon, Mark				60.2	-	
	5-Feb-03	Operations & Maintenance of Prominent Chemical Pum	Metcon	Completed	3.00	0.
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	0.
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0.
	24-Mar-03	Endress + Hauser Equipment Operations & Maintenanc	Endress & Hauser	Completed	3.50	0.
	27-Mar-03	Filter Operation & Maintenance	OWWA	Completed	8.00	1.
	1-Арг-03	Water Distribution & Hydrant Repair	OCWA	Passed	20.25	3.
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	0.9
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.4
	16-Jul-03	Operation of Electric Check Valve	Power Plant Supply Company	Completed	6.00	0.
	30-Jul-03	Operation of Flow Control Valves	Controlex	Completed	4.00	0.
Michels, Willia	ım			38.79	5	
	5-Feb-03	Operations & Maintenance of Prominent Chemical Pum	Metcon	Completed	3.00	0.4
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	0.4
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0.
	1-Apr-03	Water Distribution & Hydrant Repair	OCWA	Passed	20.25	3.
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	0.
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.4
Roach, Jim				26.00	D	
	27-Mar-03	Filter Operation and Maintenance	AWWA	Completed	8.00	1.
	24-Apr-03	Consolidated C of A's	OCWA, Tony Puim	Completed	0.50	0.0
	28-Apr-03	Consolidated C of A's	OCWA, Tony Puim	Completed	0.50	0.
	29-Apr-03	CP-C2 Chlorine Gas Leak	OCWA, Tony Puim	Completed	0.50	0.
	21-May-03	Confined Space Entry Training	Hetek Solutions Inc.	Completed	8.00	1.
	2-Jun-03	Bill 170/03	OCWA, Tony Puim, Dave McCully	Completed	0.50	0.
	17-Jun-03	Traffic Control	EUSA, Bill Hunt	Did Not Complete	1.00	0.
	10-Jul-03	Lifting and Hoisting Training	Acu-Tec	Completed	7.00	1.0

Note: The training information contained in this report is current as at September 7, 2003

^{* 1} training day is equal to 6.75 hours





Date from Jan 01, 2003 to Aug 31, 2003

n Region						
Chesterville Hub>						
Legislated						
Veilleux, Jea	ın			24	.50	
	21-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	(
	14-May-03	Managing Multiple Priorities	Algonquin College	Completed	6.00	(
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	(
	11-Jun-03	Introduction to Reg.170	OCWA	Completed	3.00	(
	16-Jul-03	Operation of Electric Check Valve	Power Plant Supply Company	Completed	6.00	(
Non-Legislated						
Baker, Kimb	erley			17	.00	
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	(
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	(
	16-Apr-03	How to use the Training Summary Database and eRepo	OCWA	Completed	1.50	(
	5-May-03	WIN AC/C	SSB	Completed	6.50	(
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	(
Henderson,	Blair			39	.50	
	17-Feb-03	Water Treatment 3 Exam Prep.	BEC Technologies	Completed	22.00	3
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	(
	6-Mar-03	State and Future Directions of Groundwater Initiat	Golder Associates	Completed	8.00	
	27-May-03	Ontario Disabilities Act Training	OCWA	Completed	1.50	(
	27-May-03	Drinking Water Systems Regulation, Safe Drinking W	MoE	Completed	2.00	(
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	(





Date from Jan 01, 2003 to Aug 31, 2003

rn Region <chesterville hub=""></chesterville>						
Non-Legislated Kelly, Tony				27	7.00	
•	5-Feb-03	Operations & Maintenance of Prominent Chemical Pum	Metcon	Completed	3.00	0
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	0
	21-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	O
	27-Mar-03	Filter Operation & Maintenance	OWWA	Completed	8.00	1
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0
	16-Jul-03	Operation of Electric Check Valve	Power Plant Supply Company	Completed	3.00	0
	30-Jul-03	Operation of Flow Control Valves	Controlex	Completed	4.00	0
Markell, Dave)			59	.50	
	21-Jan-03	PCT Training Part 2	OCWA	Completed	14.00	2
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	0
	17-Feb-03	Water Treatment 3 Exam Prep.	BEC Technologies	Completed	22.00	3
	21-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0
	6-Mar-03	State and Future Directions of Groundwater Initiat	Golder Associates	Completed	8.00	1
	4-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	0



Eastern Region						
<chesterville hub=""></chesterville>						
Legislated						
Barrie, Andre	ew .			93.94	ļ	
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	0.44
	15-Jan-02	Basic Hoisting and Rigging Safety	EUSA	Completed	24.00	3.56
	23-Feb-02	Internet Searching and File Management	Community Access Program	Completed	3.00	0.44
	28-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	0.15
	28-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	0.37
	28-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	0.15
	5-Jul-02	Limitorque Valve Actuator	Vannes Famco	Completed	1.00	0.15
	11-Sep-02	Prepatory Chemistry	St. Lawrence College	Completed	45.00	6.67
	12-Sep-02	Contractor Safety Program	OCWA	Completed	5.06	0.75
	24-Sep-02	Operation and Trouble Shooting SCADA System	Bristol Babcock	Completed	5.00	0.74
	11-Dec-02	WHMIS Refresher/TDG Handling - Facilitated	OCWA	Passed	3.38	0.50
Huskinson, E	3rian			81.38	3	
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	0.44
	15-Jan-02	Basic Hoisting and Rigging Safety	EUSA	Completed	24.00	3.56
	28-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	0.37
	28-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	0.15
	28-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	0.15
	5-Apr-02	2002 Electrical Code Seminar	Electrical Safety Authority	Completed	3.50	0.52
	17-Jun-02	Instrumentation in Water/Wastewater Plants	St. Lawrence College	Completed	35.00	5.19
	24-Sep-02	Operations & Troubleshooting SCADA System	Bristol Babcock	Completed	3.00	0.44
	28-Nov-02	Safe Use of Elevated Water Storage Facilities	Landmark Tank & Tower Services and Levitt-Safety	Completed	5.00	0.74
	11-Dec-02	WHMIS Refresher/TDG Handling - Facilitated	OCWA	Passed	3.38	0.50

^{* 1} training day is equal to 6.75 hours





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ern Region <chesterville hub=""> Legislated</chesterville>						
Lauzon, Mari	•			53.75		
	10-Sep-02	Environmental Compliance	OCWA	Completed	13.50	2.00
	17-Sep-02	Water Quality Analyst	OCWA	Completed	20.25	3.00
	24-Sep-02	Operations & Troubleshooting SCADA System	Bristol Babcock	Completed	3.00	0.44
	29-Oct-02	Working with Confined Spaces	OCWA	Passed	13.50	2.00
	30-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	0.52
Michels, Will	iam			58.25		
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	0.44
	15-Jan-02	Basic Hoisting and Rigging Safety	EUSA	Completed	24.00	3.56
	5-Feb-02	Water Quality Analyst	OCWA	Completed	20.25	3.00
	28-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	0.15
	28-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	0.37
	28-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	0.15
	24-Sep-02	Operations & Trouble Shooting SCADA System	Bristol Babcock	Completed	3.00	0.44
	30-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	0.52





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n Region Chesterville Hub> Legislated						
Veilleux, Jear	1			72.69		
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	(
	15-Jan-02	Basic Hoisting and Rigging Safety	EUSA	Completed	24.00	
	26-Feb-02	Train the Trainer	OCWA	Completed	13.50	
	28-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	
	28-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	
	28-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	
	5-Jul-02	Limitorque Valve Actuator	Vannes Famco	Completed	1.00	
	12-Sep-02	Contractor Safety Program	OCWA	Completed	5.06	
	24-Sep-02	Operations & Troubleshooting SCADA System	Bristol Babcock	Completed	3.00	
	9-Oct-02	Trenching	EUSA	Completed	6.75	
	28-Nov-02	Safe Use of Elevated Water Storage Facilities	Landmark Tank & Tower Services and Levitt-Safety	Completed	5.00	
	12-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	
	31-Dec-02	WHMIS Refresher/TDG Handling Training - Self Study	OCWA	Passed	3.38	
Non-Legislated						
Baker, Kimberley				29.32		
	21-Feb-02	Client Connection & Client Manager	OCWA	Completed	4.00	
	12-Sep-02	Contractor Safety Program	OCWA	Completed	5.06	
	20-Nov-02	Administrative Assistant Conference	OCWA	Completed	16.88	
	11-Dec-02	WHMIS Refresher/TDG Handling - Facilitated	OCWA	Passed	3.38	

^{* 1} training day is equal to 6.75 hours





Region/Hub Name	Date · · · ·	Course	Offered By.	Status T	otal Hours	Days *
Eastern Region <chesterville hub=""> Non-Legislated</chesterville>				_		
Henderson,		Olicat Occasion & Olicat Monomor	OCWA		2.38	0.50
	21-Feb-02	Client Connection & Client Manager		Completed	4.00	0.59
	23-Feb-02	Internet Searching and File Management	Community Access Program	Completed	3.00	0.44
	30-May-02	Water Quality Issues and Treatment Options	Dalhousie University	Completed	14.50	2.15
	11-Jun-02	Training on Collective Agreement	OCWA	Completed	3.00	0.44
	20-Sep-02	Climate Change Affects Groundwater and Surface Wat	University of Ottawa	Completed	1.00	0.15
	24-Sep-02	Operations and Trouble Shooting SCADA System	Bristol Babcock	Completed	5.00	0.74
	10-Oct-02	Wetwell Safety and Pump Efficiency	ITT Flygt	Completed	3.00	0.44
	11-Dec-02	PCT Training Part 1	OCWA	Completed	12.00	1.78
	19-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	0.52
	31-Dec-02	WHMIS Refresher/TDG Handling Training - Self Study	OCWA	Passed	3.38	0.50
Kelly, Tony				63	3.00	
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	0.44
	20-Feb-02	DSC 3000 Operations & Maintenance	Falcon Security	Completed	8.00	1.19
	28-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	0.15
	28-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	0.37
	28-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	0.15
	6-Mar-02	DSC 4010, 5010 Software Operations & Maintenance	Falcon Security	Completed	7.00	1.04
	30-May-02	Water Quality Issues and Treatment Options	Dalhousie University	Completed	14.50	2.15
	5-Jul-02	Limitorque Valve Actuator	Vannes Famco	Completed	1.00	0.15
	24-Sep-02	Operations and Trouble Shooting SCADA System	Bristol Babcock	Completed	8.00	1.19
	1-Oct-02	Introduction to Operations Management	OCWA	Passed	13.50	2.00
	16-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	0.52

^{* 1} training day is equal to 6.75 hours





tern Region <chesterville hub=""> Non-Legislated</chesterville>						
Markell, Dave				77.94		
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	0.44
	20-Feb-02	DSC 3000 Operations & Maintenance	Falcon Security	Completed	8.00	1.19
	6-Mar-02	DSC 4010, 5010 Software Operations & Maintenance	Falcon Security	Completed	7.00	1.04
	30-May-02	Water Quality Issues and Treatment Options	Dalhousie University	Completed	14.50	2.15
	12-Sep-02	Contractor Safety Program	OCWA	Completed	5.06	0.75
	24-Sep-02	Operations and Trouble Shooting SCADA System	Bristol Babcock	Completed	5.00	0.74
	1-Oct-02	Introduction to Operations Management	OCWA	Passed	13.50	2.00
	10-Oct-02	Wetwell Safety and Pump Efficiency	ITT Flygt	Completed	3.00	0.44
	11-Dec-02	PCT Training Part 1	OCWA	Completed	12.00	1.78
	30-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	0.52
	31-Dec-02	WHMIS Refresher/TDG Handling Training - Self Study	OCWA	Passed	3.38	0.50