Water Quality Reports

2003

Crysler

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 Environment l'Environnement

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

Part III For	rm 2	
Section 11.	ANNUAL	REPORT.

Drinking-Water System Number: Drinking-Water System Name: Drinking-Water System Owner: Drinking-Water System Category: Period being reported:

220008649	
Crysler	
Township of North Stormont	
Large Municipal Residential	
January 1 to December 31, 2003	

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [] No [x]	Number of Designated Facilities served:
Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No[]	Did you provide a copy of your annual report to all Designated Facilities you serve? Yes[] No[]
Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to:
Available at the Township of North Stormont Office, 2 Victoria Street, Berwick, Ontario and on their website www.townshipofnorthstormont.on.ca	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



Ministry of the Environment l'Environnemen

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

[] Public a	cess/notice via Public Request
[] Public a	cess/notice via a Public Library
[] Public a	ccess/notice via other method
• -	
D "	TO A LANGE AND A COLOR OF THE ADMINISTRATION

Describe your Drinking-Water System

Groundwater is pumped from the source well through the well house where Sodium Hypochlorite and Fluoride are added. As water is used throughout the distribution system and the level of the water tower falls to a preset limit, a well pump starts. The water is directed through a feeder main to refill the tower.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite was used at an average dosage rate of 1.8 mg/L. Hydrofluorosilicic Acid was used at an average dosage rate of 0.433 mg/L.

Were any significant expenses incurred to?

- [x] Install required equipment
- [x] Repair required equipment
- [x] Replace required equipment

Describe

Installed Chlorine feed system. Installed pump to wasteline. Installed flowmeter on pump to wasteline. Upgrades to SCADA software to record flow rates. Installed chemical storage and spill containment. Installed Chlorine Analyzer in the distribution system.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre?

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
Jan.6/03	HPC	>500	Cts/1ml	Resample	Jan.13/03
Aug.6/03	HPC	>500	Cts/1ml	Resample	Aug.8/03

Microbiological testing done under section 8 (2) during this reporting period

	Number of Samples	Range of E.Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	154	0-0	0-8	0	0
Treated	162	0-0	0-0	54	0 to >500
Distribution	267	0-0	0-0	55	0 to >500

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

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

	Number of Grab Samples	Range of Results (#-#)		
Turbidity Raw Jun./03-Dec./03	12	0.09-0.19 NTU		
Turbidity Treated Jan/03-Jun./03	8760	0.026-0.482 NTU		
Chlorine	8760	0.29-2.10		
Fluoride (If the	8760	0.49-0.80		
DWS provides fluoridation)				

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	Maximum	Minimum	Maximum	Unit of	Exceedance
	Sample Date	Sample Date	Value	Value	Measure	
Antimony	12/09/03	12/09/03	<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	0.38	0.38	mg/L	No
Boron	01/20/03	01/20/03	0.17	0.17	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	0.033	0.033	mg/L	No
Iron	01/20/03	01/20/03	0.01	0.01	mg/L	No
Lead	01/20/03	01/20/03	<0.001	<0.001	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	04/24/03	01/20/03	0.45	0.5	mg/L	No
Nitrite	01/20/03	12/09/03	<0.1	<0.11	mg/L	No
Nitrate	01/20/03	12/09/03	<0.1	0.256	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	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Aldicarb	12/09/03	04/24/03	<0.3	<9	ug/L	No
Aldrin + Dieldrin	01/20/03	01/20/03	<0.012	<0.012	ug/L	No
Atrazine + N-dealkylated metobolites	01/20/03	01/20/03	<0.5	<0.5	ug/L	No



Ministry of the Environment l'Environnement

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

	1 01/00/03	T 01/20/22	1 -0	T 23		Lx
Azinphos-methyl	01/20/03	01/20/03	<2	<2	ug/L	No
Bendiocarb	01/20/03	01/20/03	<2	<2	ug/L	No
Benzene	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Benzo(a)pyrene	12/09/03	12/09/03	<0.6	<0.6	ug/L	No
Bromoxynil	01/20/03	01/20/03	<0.5	<0.5	ug / L	No
Carbaryl	01/20/03	01/20/03	<5	<5	ug/L	No
Carbofuran	01/20/03	01/20/03	<5	<5	ug/L	No
Carbon Tetrachloride	01/20/03	01/20/03	<0.9	<0.9	ug/L	No
Chlordane (Total)	01/20/03	04/24/03	<0.012	<0.015	ug/L	No
Chlorpyrifos	01/20/03	01/20/03	<1	<1	ug/L	No
Cyanazine	01/20/03	01/20/03	<1	<1	ug/L	No
Diazinon	01/20/03	01/20/03	<1	<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	01/20/03	<0.024	<0.024	ug/L	No
(DDT) + metabolites	01/00/02	01/20/02	-0.7	10.7	 	1
1,2-Dichloroethane	01/20/03	01/20/03	<0.7	<0.7	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Dichloromethane	01/20/03	01/20/03	<4	<4	ug/L	No
2-4 Dichlorophenol	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/20/03	01/20/03	<1	<1	ug/L	No
Diclofop-methyl	01/20/03	01/20/03	<0.9	<0.9	ug/L	No
Dimethoate	01/20/03	01/20/03	<2.5	<2.5	ug / L	No
Dinoseb	01/20/03	01/20/03	<1	<1	ug/L	No
Diquat	01/20/03	01/20/03	<7	<7	ug/L	No
Diuron	01/20/03	01/20/03	<10	<10	ug/L	No
Glyphosate	01/20/03	01/20/03	<10	<10	ug/L	No
Heptachlor + Heptachlor	01/20/03	01/20/03	<0.012	<0.012	ug / L	No
Epoxide						
Linadane (Total)	01/20/03	01/20/03	<0.006	<0.006	ug/L	No
Malathion	01/20/03	01/20/03	<5	<5	ug/L	No
Methoxychlor	01/20/03	01/20/03	<0.024	<0.024	ug/L	No
Metolachlor	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Metribuzin	01/20/03	01/20/03	<5	<5	ug/L	No
Monochlorobenzene	01/20/03	01/20/03	<0.2	<0.2	ug/L	No
Paraquat	01/20/03	01/20/03	<1	<1	ug/L	No
Parathion	01/20/03	01/20/03	<1	<1	ug/L	No
Pentachlorophenol	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Phorate	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
Picloram	01/20/03	01/20/03	<5	<5	ug/L	No
Polychlorinated Biphenyls(PCB)	01/20/03	04/24/03	<0.05	<0.1	ug/L	No
Promethyne	01/20/03	01/20/03	<0.25	<0.25	ug / L	No
Simazine	01/20/03	04/24/03	<1	<0.25	ug/L	No
THM (NOTE: show latest quarterly	01/20/03	12/09/03	8.4	8.4	ug/L	No
average)					1	<u> </u>
Temephos	01/20/03	01/20/03	<10	<10	ug/L	No
Terbufos	12/09/03	01/20/03	<0.12	<0.7	ug/L	No
Tetrachloroethylene	01/20/03 01/20/03	01/20/03	<0.3	<0.3	ug/L	No
2,3,4,6-Tetrachlorophenol		01/20/03	<0.5	<0.5		



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Triallate	01/20/03	01/20/03	<1	<1	ug/L	No
Trichloroethylene	01/20/03	01/20/03	<0.3	<0.3	ug/L	No
2,4,6-Trichlorophenol	01/20/03	01/20/03	<0.5	<0.5	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	01/20/03	01/20/03	<1	<1	ug/L	No
Trifluralin	01/20/03	01/20/03	<1	<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 Crysler 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 Crysler 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 Stormont.

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)	Weekly raw water samples from the standby well were not collected as per O.Reg 459/00.	January 6, 2003 to January 20, 2003	A temporary water bypass system was installed until a permanent system was constructed.	Complete
Ontario Regulations (eg. O.Reg 170/03, O.Reg 435/93, O.Reg 903)	Free chlorine residual monitoring was not carried out near a location where the intended contact time has just been completed as per O.Reg 170/03 Schedule 7-2.	January 1, 2003 to December 31, 2003	An amendment to the Certificate of Approval has been requested from the Ministry of the Environment to install chlorine monitoring equipment.	Outstanding. Waiting for amended Certificate of Approval from the Ministry of the Environment.
System Certificate of Approval #4011-5QVPDL	Monitoring and recording 5.1 (1) and 5.2 The daily maximum flow rate and maximum daily volume of water conveyed into the treatment system.	January 1, 2003 to October 16, 2003	SCADA system software was upgraded to record the daily maximum flow rate and maximum daily volume of water conveyed into the treatment system.	Complete

	T		
Provincial	NA		
Officer's Order No.			

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 Crysler 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

YEAR:

WATER SOURCE:

DESIGN CAP.:

2003

GROUNDWATER

1.685 X 1000 m3/d

MUNICIPALITY:

TOWNSHIP OF NORTH STORMONT

PROJECT:

CRYSLER WATER SUPPLY

PROJ. NUM.:

7-0719

WORKS NUM .:

220008649

DESCRIPTION:

Two deep wells equipped with submersible pumps capable of delivering 19.5 L/s, a sodium hypochlorination

disinfection system, fluoride feed/injection system, and an elevated storage tank.

MONTH	SYSTEM	/ FLOWS (T	REATED)	to the transfer	TREA	TED	DISTRI	BUTION	BACTI (II	VDICATE NO	OF SAMP	LES)	RAV	WATER
	TOTAL	AVG DAY	MAX DAY	AVG					E.C. / T.C. N	lot Detected	E.C. / T.C	. Detected	 	
1	FLOW	FLOW	FLOW		CL2 RESID.	CL2 RESID.	CL2 RESID.	CL2 RESID.	HPC	< 500	HPC	>500	E.COL	E.COLI.
	1000 m3	1000 m3	1000 m3	Resid.(mg/L	Treated (mg/l)	Treated (mg/l)	Distrib. (mg/l)	Distrib. (mg/l)	TREAT	DIST	TREAT	DIST	ABSENT	PRESENT
JAN	6.759	0.218	0.256	0.55	0.99	1.69	0.90	1.04_	12	20	0	0	5	0
FEB	6.119	0.219	0.257	0.60	0.79	1.74	0.74	1.23	12	20	0	0	8	0
MAR	6.858	0.221	0.267	0.59	0.79	1.69	1.10	1.53	15	25	0	0	10	0
APR	6.835	0.228	0.293	0.60	0.80	1.42	0.93	1.07	12	20	0	0	8	0
MAY	8.317	0.268	0.450	0.65	0.91	1.68	1.00	1.20	12	21	0	0	8	0
JUN	8.558	0.285	0.342	0.67	0.50	1.93	0.56	1.30	15	25	0	0	5	0
JUL	8.562	0.276	0.350	0.70	0.60	2.10	0.75	1.21	12	20	0	0	4	0
AUG	7.775	0.251	0.385	0.70	0.29	1.65	0.61	1.65	18	26	1	0	4	0
SEP	7.601	0.253	0.333	0.72	0.49	1.90	0.78	1.15	15	25	0	0	5	0
OCT	6.705	0.216	0.695	0.70	0.35	1.90	0.82	1.11	12	20	0	0	4	0
NOV	6.003	0.200	0.478	0.68	0.57	1.24	0.86	0.95	12	20	0	0	6	0
DEC	6.262	0.202	0.422	0.66	0.73	1.70	0.75	1.10	15	25	0	0	10	0
TOTAL	86.35								162	267	1	0	77	0
AVG		0.237		0.65										
MAX			0.695			2.10		1.65						
CRITERIA			1.685	0.5-0.8	0.20		0.20	4.00						

COMMENTS:	Max. day flow Oct. very high as a result of a water main break. Actual peak day 368 m3.
	Well pump runs approx. 3 days ouy of 5 because of Tower set points.

Ministry Of The Environment Ministére 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 ice 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.

Year(Année): 2003 Location: DDW		Permit No.(N° de p	ermis): 93-P-4006			
Source: Grou	ndwater					
Name of Permittee: T Nom du titulaire du pen		CH (CRYSLER)				
Mailing Address: O.0 Adresse postale	C.W.A. 5 INDUSTR	IAL DRIVE CHESTERVI	LLE			
Location Of Taking:		Twp. or Municipality		Concession:	Lot:	
15642 COUNTY ROA	AD 13	TOWNSHIP OF N	ORTH STORMONT	CON. 9	LOT 20	
	Total	Avg.	Total	Peak	< Max	>
	Hours Of Taking	Daily Rate Of Taking	Amount Of Taking	Daily Flow	Daily Rate o	f 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	joumalier
JAN	105.90	17.73	6,759	256		
FEB	95.00	17.90	6,119	257		
MAR	109.70	17.34	6,858	267		
APR	105.50	18.02	6,835	293		
MAY	130.50	17.74	8,317	450		
NUL	134.80	17.66	8,558	342		
4	135.70	17.57	8,562	350		
JG	116.97	18.54	7,775	385		
SEP	112.11	18.83	7,601	333		
ОСТ	111.65	17.27	6,705	695	19	
NOV	94.05	17.76	6,003	478	19	
DEC	97.45	18.02	6,262	422	19	
Total:			86,354			
Criteria:		19.50		500		



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

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

OCWA-Chesterville (Crysler 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

220008649

P.O. No. 008503

Date Rec. :

Works #:

Project:

10 December 2003

LR Report:

CA6482-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 Crysler Treated	TDW Crysler System SPS
Sample Date & Time								08-Dec-03 12:00	09-Dec-03 09:30
Temperature [°C]								6.5	6.5
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	0.256	
Nitrate + Nitrite (as nitrogen) [mg/L]	15-Dec-03	13:50	10	5		1	0.021	0.256	
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	07:25	100	50		10	0.63		8.6
Bromoform [ug/L]	23-Dec-03	07:25					0.56		0.56 <mdl< td=""></mdl<>
Bromodichloromethane [ug/L]	23-Dec-03	07:25					0.63		2.2
Chloroform [ug/L]	23-Dec-03	07:25					0.60		5.6
Dibromochloromethane [ug/L]	23-Dec-03	07:25					0.37		0.83
Benzo(a)pyrene [ug/L]	22-Dec-03	14:31	0.01	0.005		0.01	0.004	0.004 <mdl< td=""><td></td></mdl<>	
Aldicarb [ug/L]	22-Dec-03	13:23	9	4.5		9	0.30	0.30 <mdl< td=""><td></td></mdl<>	
Terbufos [ug/L]	22-Dec-03	13:23	1	0.5		1	0.12	0.12 <mdl< td=""><td></td></mdl<>	



P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

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

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

Works #:

220008649 P.O. No. 008503

Project: LR Report :

CA6482-DEC03

Carrie Greenlaw

Project Coordinator

Environmental Services, Analytical

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2300809

Date:

2003-01-30

Date Submitted:

2003-01-21

Project:

Crysler Wells Quarterly

Chemicals

P.O. Number:

Supply Water

				Matrix:	Supply Water
		LAB ID:	229203	229204	
	Sam	ple Date:	2003-01-20	2003-01-20	
	Sa	ample ID:	CrW-01	CrW-02-	
				System	
				_	
PARAMETER	UNITS	MDL			
BTEX / 624 / PURGEABLE HYD	ROCARBO	ONS			
Benzene	ug/L	0.5	√ <0.5		
Toluene	ug/L	0.5	√ < 0.5	į	
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	√ 2.5	1.3	1 1
Bromoform	ug/L	0.4	√ <0.4	<0.4	
bon Tetrachloride	ug/L	0.9	√ <0.9		
ochlorobenzene	ug/L	0.2	[∼] <0.2		
Chloroform	ug/L	0.5	√ 6.0	3.2	
Dibromochloromethane	ug/L	0.3	∼ 0.9	0.7	
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		
Dichloromethane	ug/L	4.0	√<4.0		
Tetrachloroethylene	ug/L	0.3	√<0.3		
Trichloroethylene	ug/L	0.3	∼< 0.3		
Vinyl Chloride	ug/L	0.5	√ < 0.5		
<u>TOTALS</u>					
Trihalomethanes (total)	ug/L	2.0	√ 9.4	√5.2	
Xylene; total	ug/L	2.0	<2.0		
BTEX / 624 Surrogate Recover		[
Toluene-d8	%	j i	97	97	
1,2-dichloroethane-d4	%		99		
4-bromofluorobenzene	%	}	101		

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

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

Report Number:

2300809

Date:

Project:

2003-01-31 2003-01-21

ATT: Mr. Blair Henderson

Date Submitted:

Crysler Wells Quarterly

P.O. Number:

				Matrix:	Supply Water		
		LAB ID:	229203	229204			
	Samp	le Date:	2003-01-20	2003-01-20			
1	Sar	nple ID:	CrW-01	CrW-02-System			
			1		[
					{	Į.	
PARAMETER	UNITS	MDL	TREATEDWATER	DISTRIBUTION			
As	mg/L	0.001	√ <0.001				
Barrage	mg/L	0.05	√ <0.05			 	}
Ва	mg/L	0.01	√ 0.08				
Cd	mg/L	0.0001	~<0.0001			}	
Cr	mg/L	0.001	√ 0.002			}	1
Cu	mg/L	0.001	√0.030				
F	mg/L	0.10	√ 0.58			1	
Fe	mg/L	0.01	√ 0.02				
Pb	mg/L	0.001	√<0.001	√ <0.001		j	
Mn ,	mg/L	0.005	√ 0.007	· · ·			
Hg.	mg/L	0.0001	√<0.0001			1	
N-1NO2	mg/L	0.10	`√<0.10		1		
N-NO3	mg/L	0.10	√<0.10			1	j i
Se	mg/L	0.001	√ <0.001			Ì]
U	mg/L	0.001	<0.001			1	
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						!	1

MDL = Method Detection Limit

Comment:

INC = Incomplete

Method references available upon request.

APPROVAL:

Ewan McRobbie

Inorganic Lab Supervisor

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

Report Number:

2300809

Date:

2003-02-06

Date Submitted:

2003-01-21

ATT: Mr. Blair Henderson

Project:

				Sample Matri	x:	Supply Water	
		LAB ID:	229203				
	Sam	ple Date:	2003-01-20				
	Sample ID:						
			: 				
PARAMETER	UNITS	MDL					
PESTICIDES & PCB's					į.		1
Alachior	ug/L	0.5	√ <0.5	l			1
Aldicarb	ug/L	5	√ < 5	ļ	l.		1
Aldrin	ug/L	0.006	<0.006	ł			
Aldrin + Dieldrin	ug/L	0.012	√< 0.012				
Atrazine	ug/L	0.5	<0.5				
Desethyl-atrazine	ug/L	0.5	<0.5]
Atrazine+Desethyl-atrazine	ug/L	1 1	<1]	
Azinphos-methyl	ug/L	2	√ <2	1			!
Bendiocarb	ug/L	2	√ <2				
moxynil	ug/L	0.5	√<0.5				
Carbaryl	ug/L	5	√ < 5			1	
Carbofuran	ug/L	5	[⊸] <5			1	}
Chlordane (Total)	ug/L	0.012	[∼] <0.012				
a-Chlorodane	ug/L	0.006	< 0.006			1	
g-Chlorodane	ug/L	0.006	< 0.006			1	Ì
Oxychlorodane	ug/L	0.006	<0.006			1	1
Chloropyrifos	ug/L	1 1	√ <1				ĺ
Cyanazine	ug/L	1 1	¹ <1				
Diazinon	ug/L	1 1	√ <1		i		
Dicamba	ug/L	1	√ <1		i	ļ	4
Dieldrin	ug/L	0.006	< 0.006	1	!		
Diquat	ug/L	7	√<7				
2,4-Dichlorophenol	ug/L	0.5	< < 0.5			1]
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	₃ <1				
p,p'-DDE	ug/L	0.006	<0.006				
						j	

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: CRYSLER WELL SUPPLY

Report Number:

2300809

Date:

2003-02-06

ATT: Mr. Blair Henderson

Date Submitted:

2003-01-21

Project:

Sample Matrix:

Supply Water

				Sample Matri		Supply water	
	LAB ID:						
	Sam	ple Date:	2003-01-20				
}	Sa	ample ID:	CrW-01				
1		- !	1	!			
1					1		
PARAMETER	UNITS	MDL			 		
p,p'-DDD	ug/L	0.006	<0.006				
Diclofop-methyl	ug/L	0.9	9.0>،	ļ			
Dimethoate	ug/L	2.5	১ <2.5		1	Į.	l
Dinoseb	ug/L	1 1	₃ <1		1		
Diuron	ug/L	10	· <10	<u> </u>	i	}	1
Glyphosate	ug/L	10	[∡] <10	Į ,	{		
Heptachlor	ug/L	0.006	<0.006		1		
Heptachlor epoxide	ug/L	0.006	<0.006]]		
Heptachlor + Hept. Epoxide	ug/L	0.012	√ <0.012		}	1	
dane	ug/L	0.006	[√] <0.006	[ļ	1	1
alathion	ug/L	5	√ <5			1	
Methoxychlor	ug/L	0.024	√<0.024)	1	
Metolachlor	ug/L	0.5	√ <0.5	1	\	1	}
Metribuzin	ug/L	5	√ <5	ļ	Į .	Į.	
Paraquat	ug/L	1 1	∀ <1			1	
Parathion	ug/L	1	ે <1		1]	
Pentachlorophenol	ug/L	0.5	⁴ <0.5		1	1	
Phorate	ug/L	0.5	³ <0.5		1	1	
Picloram	ug/L	5	[√] <5				
PCB's (total)	ug/L	0.05	√<0.05			Ĭ	1
Prometryne	ug/L	0.25	[⊸] <0.25				
Simazine	ug/L	1	· <1				1
Temephos	ug/L	10	<10	1	l	ļ	l i
Terbufos	ug/L	0.7	<0.7	' I	İ	1	1
2,3,4,6-Tetrachlorophenol	ug/L	0.5	√<0.5	' l		1	l l
Triallate	ug/L	1	√<1	' I			
2,4,6-Trichlorophenol	ug/L	0.5	√<0.5]	
Trifluralin	ug/L	1	!<1				
2,4,5-T	ug/L	1	√<1				

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

MDL = Method Detection Limit

Comment:

APPROVAL:

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

Organic Lab 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:

230000135

Project:

Crysler WTP

Date Sampled:

January 6, 2003

Date Received: Date Printed: January 7, 2003

J

January 09, 2003

Orinking Water

Parameter	Unit	MOL	Sample Identification	on		
			Well #1 Raw	Well #1 Treated	Dist. Catholic School	Dist. Home Hardware
Total Chlorine	mg/L	0.05		1.27	1.11	1.03
Free Chlorine	mg/L	0.05	•	1.17	1.02	0.92
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		8	absent	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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

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

Krystyna Pipin, Laboratory Supervisor

£ • q

613-526-1244

Caduceon Env. Labs.

986:30 ED 80 net

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230000448

Project:

Crysler WTP

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

Date Printed:

January 16, 2003

Matrix:

Drinking Water

Parameter	Unit	MDL	Sample Identificatio	n		
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Satellite
Total Chlorine	mg/L	0.05		1.26	1.14	1.00
Free Chlorine	mg/L	0.05		1.18	1.04	0.90
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	26	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories 2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada Tel: (613)526-0123, Fax: (613)526-1244

Krystyna Pipin, Laboratory Supervisor

S.q

913-258-1544

Caduceon Env. Labs.

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

230000766

Project:

Crysler WTP

Date Sampled:

January 20, 2003

Date Received: Date Printed; January 21, 2003 January 23, 2003

Matrix:

Drinking Water

Attention. Dav	e marken						werry (1200)
	Parameter	Background	E. coli	Free Cl2	НРС	тс	Total Cl2
	Unit	/100mL	/100mL	mg/L	/mL	/100mL	mg/L
	MOL	1	1	0.05	2	1	0.05
Sample ID							
Well #1 Raw		12	absent			absent	
Well #1 Treated			absent	1.11	absent	absent	1.18
Dist. S.P.S			absent	0.98	2	absent	1.11
Dist. Post Office	•		absent	0.96		absent	1.06

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:

ntario Clean Water Agency

Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Page

Dave Markell

Certificate of Analysis

Report:

230001078

Project:

Crysler WTP

Date Sampled: Date Received:

January 27, 2003 January 28, 2003

Date Printed:

January 30, 2003

Matrix:

Drinking Water

Unit	MDL	Sample Identification	on		
		Well #1 Raw	Well # 1 Treated	Dist. Home Hardware	Dist. Sun Gas Bar
mg/L	0.05		1.17	1.02	1.14
mg/L	0.05		1.07	0.92	1.01
/100mL	1	absent	absent	absent	absent
/mL	2		24	absent	
/100mL	1	8			
/100mL	1	absent	absent	absent	absent
	mg/L mg/L /100mL /mL /100mL	mg/L 0.05 mg/L 0.05 /100mL 1 /mL 2 /100mL 1	mg/L 0.05 mg/L 0.05 /100mL 1 absent /mL 2 /100mL 1 8 /100mL 1 absent	Well #1 Raw Well #1 Treated mg/L 0.05 1.17 mg/L 0.05 1.07 /100mL 1 absent absent /mL 2 24 /100mL 1 8	Well # 1 Raw Well # 1 Treated Dist. Home Hardware mg/L 0.05 1.17 1.02 mg/L 0.05 1.07 0.92 /100mL 1 absent absent /mL 2 24 absent /100mL 1 8 /100mL 1 absent absent

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

ndustrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

230001156

Project:

Crysler WTP

Date Sampled:

Date Received: Date Printed:

January 28, 2003 January 29, 2003 January 30, 2003

Matrix:

Drinking Water

Krystyna Pipin, Laboratory/Supervisor

Parameter	Unit	MDL	Sample Identification
			Well #2 Raw Stand By
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:

230001386

Project:

Crysler WTP

Date Sampled:

February 3, 2003

Date Received:

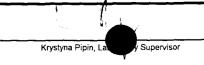
February 4, 2003

Date Printed: Matrix: February 06, 2003 Drinking Water

	,
:	Drinking W

			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Satellite	Dist. Standby Well Raw
Total Chlorine	mg/L	0.05		1.02	1.00	1.00	
Free Chlorine	mg/L	0.05		0.99	0.92	0.90	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		absent	2		
Background bacteria	/100mL	1	absent				absent
Total Coliforms	/100mL	1	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:

230001688

Project:

Crysler WTP

Date Sampled:

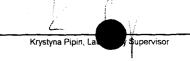
February 10, 2003

Date Received: Date Printed: February 11, 2003 February 13, 2003

Matrix:

Drinking Water

			Well # 1 Raw	Well # 1 Treated	Dist. Ecole Catholic	Dist. Sun Gas	Stand-By Well
Total Chlorine	mg/L	0.05		1.04	0.96	0.96	
Free Chlorine	mg/L	0.05		0.94	0.74	0.89	
E. coli	/100mL	1	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



Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr.

Chesterville, ON K0C 1H0 Attention: Dave Markell

Parameter Unit MDL

Sample Identification

Report:

Project:
Crysler WTP
Date Sampled:
Pebruary 17, 2003
Date Printed:
February 18, 2003
Date Printed:
February 20, 2003
Matrix:
Drinking Water

Certificate of Analysis (

			Well #1 Raw	Well #1 Treated	Dist. Home Hardware	Dist. Post Office	Stand By Well
Total Chlorine	mg/L	0.05		1.62	06.0	1.13	
Free Chlorine	mg/L	0.05		1.52	0.83	1.05	
E. coli	/100mL	Ħ	absent	absent	absent	absent	absent
нРС	/mr	8		8	absent		
Background bacteria	/100mL	н	1				7
Total Coliforms	/100mL	1	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:

230002327

Project:

Date Sampled:

Crysler WTP

Date Received:

February 24, 2003 February 25, 2003

Date Printed:

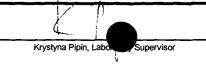
February 27, 2003

Matrix:

Drinking Water

Parameter	Unit	MDL	Sample Identification

			Well #1 Raw	Well #1 Treated	Dist. Elevated Tank	Dist. Home Hardware	Stand By Well
Total Chlorine	mg/L	0.05		1.50	1.44	1.32	
Free Chlorine	mg/L	0.05		1.40	1.30	1.23	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		340	absent		
Background bacteria	/100mL	1	absent				absent
Total Coliforms	/100mL	1	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:

230002638

Project:

Crysler WTP

Date Sampled:

March 3, 2003

Date Received:

March 4, 2003

Date Printed: Matrix: March 12, 2003

Drinking Water

Parameter	Unit	MDL	Sample Identification

			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Elevated Tank	Stand By Well
Total Chlorine	mg/L	0.05		1.75	1.67	1.53	
Free Chlorine	mg/L	0.05		1.67	1.53	1.48	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		2	absent		
Background bacteria	/100mL	1	2				3
Total Coliforms	/100mL	1	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:

230002990

Project:

Crysler WTP

Date Sampled:

March 10, 2003

Date Received:

March 11, 2003

Date Printed:

March 13, 2003

Matrix:

Drinking Water

			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Satellite	Stand By Well
Total Chlorine	mg/L	0.05		1.60	1.20	1.10	
Free Chlorine	mg/L	0.05		1.50	1.20	1.10	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		absent	8		
Background bacteria	/100mL	1	absent				absent
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

MDL

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention: Parameter Dave Markell

Unit

Certificate of Analysis

Report:

230003266

Project:

Crysler WTP

Date Sampled:

March 17, 2003

Date Received:

March 18, 2003

Date Printed:

March 20, 2003

Matrix:

Drinking Water

			Well #1 Raw	Well #1 Treated	Dist. Home Hardware	Dist. Ecole (Catholic School)	Stand By Well (Raw)
Total Chlorine	mg/L	0.05		1.56	1.39	1.41	
Free Chlorine	mg/L	0.05		1.47	1.29	1.29	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		absent	absent		
Background bacteria	/100mL	1	2				absent
Total Coliforms	/100mL	1	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:

230003601

Project:

Crysler WTP

Date Sampled:

March 24, 2003

Date Received:

March 25, 2003

Date Printed:

March 27, 2003

Matrix:

Drinking Water

			Well #1 Raw	Well #1 Treated WTP	Dist. Elevated Tank	Dist. SPS	Standby Well
Total Chlorine	mg/L	0.05		1.83	1.47	1.39	
Free Chlorine	mg/L	0.05		1.78	1.35	1.28	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		2	4		
Background bacteria	/100mL	1	15				
Total Coliforms	/100mL	1	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:

230003993 Crysler WTP

Project:

Date Sampled:

March 31, 2003

Date Received:

April 1, 2003

Date Printed: Matrix:

April 03, 2003

Drinking Water

			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Satelite	Stand By Well
Total Chlorine	mg/L	0.05		1.66	1.23	1.23	
Free Chlorine	mg/L	0.05		1.59	1.15	1.13	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		2	absent		
Background bacteria	/100mL	1	5				3
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

Sample Identification





Supervisor

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:

230004340

Project:

Crysler WTP

Date Sampled:

April 7, 2003

Date Received:

April 8, 2003

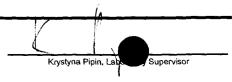
Date Printed:

April 10, 2003

Matrix:

Drinking Water

			Well #1 Raw	Well #1 Treated	Dist. Ecole	Dist. Home Hardware	Stand By Well
Total Chlorine	mg/L	0.05		1.18	1.07	1.16	
Free Chlorine	mg/L	0.05		1.15	0.99	1.07	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		absent	absent		
Background bacteria	/100mL	1	5				absent
Total Coliforms	/100mL	1	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:

230004784

Project:

Crysler WTP

Date Sampled:

April 14, 2003

Date Received:

April 15, 2003

Date Printed:

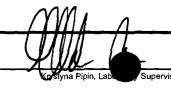
April 17, 2003

Matrix:

Drinking Water

			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. Satellite	Stand By Well
Total Chlorine	mg/L	0.05		0.95	1.20	1.13	
Free Chlorine	mg/L	0.05		0.90	1.06	1.03	
E. coli	/100mL	1	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





Certificate of Analysis

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr.

Chesterville, ON K0C 1H0 Attention:

Dave Markell

MOK Unit Parameter

Sample Identification

230005152 **Drinking Water** April 23, 2003 April 22, 2003 April 25, 2003 Crysler WTP Date Received: Date Sampled: Date Printed: Project: Report: Matrix:

			Well #1 Raw	Well #1 Treated	Dist. Tower	Dist. SDS	Stand By Well
Total Chlorine	mg/L	0.05		1.87	1.03	. 66.0	
Free Chlorine	mg/L	0.05		1.80	0.93	0.95	
E. coli	/100mL	1	absent	absent	absent	absent	absent
нРС	/mľ	8		absent	4		
Background bacteria	/100mL	1	16				7
Total Coliforms	/100mL	п	absent	absent	absent	absent	absent

absent

absent

Krystyna Pipin, Lab

2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada Tel: (613)526-0123, Fax: (613)526-1244

Caduceon Environmental Laboratories

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:

230005371

Project:

Crysler WTP

Date Sampled:

April 28, 2003

Date Received:

April 28, 2003

Date Printed:

April 30, 2003

Matrix:

Drinking Water

			Well #1 Raw	Well #1 Treated	Dist. Home Hardware	Dist. SPS	Stand By Well
Total Chlorine	mg/L	0.05		1.72	1.14	1.23	
Free Chlorine	mg/L	0.05		1.63	0.93	1.09	
E. coli	/100mL	1	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

Client: CRYSLER WELL SUPPLY

Chesterville, ON K0C 1H0 5 Industrial Drive

Attention: Mr. Blair Henderson

Report Number: Date:

2305690 2003-05-22 2003-04-25

Date Submitted:

Project:

P.O. Number: Matrix:

		·		_		
_		00	SEIMI	7/00	mg/L	
Supply Wate	GUIDELINE	MOE REG 459/00	LIBRIT	0	10.0	
		W W	TVDE	MAC	MAC	
Matrix:						
			+			
	244349	2003-04-24 CrW-01	TREATED	<0.10	0.17	
	_	Sample Date: Sample ID:	MDL	0.10	0.10	
		Samp Sar	UNITS	mg/L	mg/L	
			PARAMETER			
				N-NO2 (Nitrite)	Mayor (valuate)	

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



Client: CRYSLER WELL SUPPLY

5 Industrial Drive

Chesterville, ON K0C 1H0 Attention: Mr. Blair Henderson

Report Number: Date:

2003-05-22 2003-04-25 2305690

Date Submitted:

Project:

P.O. Number: Matrix:

	į					Matrix:		Supply Water	
	_	LAB ID:	244349	244350				GUIDELINE	
	Samp	Sample Date:	2003-04-24	2003-04-24					
	Sam	nple ID:	CrW-01	CrW-SYSTEM			W	MOE REG 459/00	0
PARAMETER	UNITS	MDL	TREATED	DISTRIBUTION			TYPE	TIMIT	STINITS
TABLE B COMPOUNDS (VOCs)									
1,1-dichloroethylene	ng/L	0.5	<0.5				MAC	14	[/01]
1,2-dichlorobenzene	ng/L	0.4	<0.4				MAC	200	1/011
1,2-dichloroethane	ng/L	0.7	<0.7				MAC	- ru	1/85
1,4-dichlorobenzene	ng/L	4.0	<0.4				MAC	າເດ	7 (Pon
Benzene	ng/L	0.5	<0.5				MAC	· rc	1/8n
Carbon Tetrachloride	ng/L	6.0	6.0>				MAC) - IQ	na/L
Dichloromethane	ng/L	4.0	<4.0				MAC	20	na/L
Ethylbenzene	ng/L	0.5	<0.5				AO	2.4	na/l
Monochlorobenzene	ng/L	0.2	<0.2				MAC	80	na/L
Tetrachloroethylene	ng/L	0.3	<0.3	*			MAC	30.	na/L
Toluene	ng/L	0.5	<0.5				AO	24	na/L
Trichloroethylene	ng/L	0.3	<0.3				MAC	20	ng/L
Vinyl Chloride	ng/L	0.5	<0.5				MAC	2	ng/L
Bromodichloromethane	ng/L	0.3	2.6	1.5					, ,
Bromoform	ng/L	0.4	<0.4	<0.4					
Chloroform	ng/L	0.5	7.8	4.0					
Dibromochloromethane	ng/L	0.3	8.0	0.7					
Trihalomethanes (total)	ng/L	2.0	11.0	0.9			MAC	100	ug/L
m/p-xylene	ng/L	1.0	<1.0)
o-xylene	ng/L	0.5	<0.5						
Xylene; total	ng/L	2.0	<2.0				AO	300	l/om
TABLE B SURROGATES)	}	i b
Toluene-d8	%		100	100				-	
4-bromofluorobenzene	%		85						
1,2-dichloroethane-d4	%		100						
				_					
				_					

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

ervisor APPROVAL
Mina Nas Organic L

Client: CRYSLER WELL SUPPLY

Chesterville, ON 5 Industrial Drive K0C 1H0

Attention: Mr. Blair Henderson

Report Number:

Date Submitted:

2003-05-22 2003-04-25 2305690

Project:

P.O. Number:

					Matrix:		Supply Water	
		LAB ID:	244349				GUIDELINE	
	Samp	Sample Date:	2003-04-24					
	San	Sample ID:	CrW-01		i	M.	MOE REG 459/00	ŏ
							i	
PARAMETER	STIND	MDL	TREATED			TYPE	TIMIT	STINIS
Organochlorine Pesticides (OCPs) & PCBs								
Aldrin	ug/L	0.006	<0.006					
Dieldrin	ug/L	0.006	<0.006					
Aldrin + Dieldrin	ug/L	0.012	<0.012			MAC	0.7	
a-chlordane	ug/L	0.006	<0.006			~		7,60
g-chlordane	ug/L	0.006	<0.006					
Oxychlordane	ug/L	0.006	<0.006					
Chlordane (Total)	ug/L	0.015	<0.015			MAC	7	ua/L
op-DDT	ug/L	0.006	<0.006					, Q
pp-DDD	ug/L	0.006	<0.006					
pp-DDE	ug/L	0.006	<0.006				- tip	
pp-DDT	ug/L	0.006	<0.006					
(DDT) + Metabolites	ug/L	0.024	<0.024			MAC	30	ua/L
Heptachlor	ug/L	0.006	<0.006					ų į
Heptachlor epoxide	ug/L	0.006	<0.006					
Heptachlor + Heptachlor Epoxide	ug/L	0.012	<0.012	-		MAC	ω	ua/L
Lindane	ug/L	0.006	<0.006			MAC	4	ua/L
Methoxychlor	ug/L	0.024	<0.024			MAC	900	ug/L
Trifluralin	ng/L	<u> </u>	4	-		MAC	45	uo/L
Polychlorinated Biphenyls (PCBs)	ug/L	0.1	<0.1		-	IMAC	ω ;	ug/l
CHLOROPHENOLS	_							i G
2,3,4,6-tetrachlorophenol	ug/L	0.5	<0.5			MAC	100	uo/l
2,4,6-trichlorophenol	ug/L	0.5	<0.5			MAC	υ 1	ug/L
2,4-dichlorophenol	ug/L	0.5	<0.5			MAC	900	ug/L
Pentachlorophenol	ug/L	0.5	<0.5			MAC	60	ug/L
PHENOXYACID HERBICIDES								q I
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	ug/L	_	4			MAC	280	ug/L
2,4-dichlorophenoxyacetic acid (2,4-D)	ug/L		<u></u>			IMAC	100 -	ug/L
Bromoxynil	ug/L	0.5	<0.5			IMAC	у	ug/L
Dicamba	ug/L	-1	1			MAC	120	ug/L
MDL = Method Detection Limit INC = Incomplete AD = Aesthetic Objective	OG = Operational Guideline	not Cuidoli		MAC - Maximum Allowable Consentration 1840 - Interior Mac) [

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



APPROVAL: Mina Nasi Organic La

Client: CRYSLER WELL SUPPLY

5 Industrial Drive Chesterville, ON

Attention: Mr. Blair Henderson K0C 1H0

Report Number: Date:

2305690 2003-05-22 2003-04-25

Date Submitted:

Project:

P.O. Number: Matrix:

						ı	Matrix:		Supply Water	_	
		LAB ID:	244349						GUIDELINE		
	Samp	le Date:	2003-04-24								
	San	nple ID:	CrW-01					×	MOE REG 459/00	00	
PARAMETER	UNITS	MDL	TREATED					TYPE	LIMIT	UNITS	
Diclofop-methyl	ng/L	6.0	6.0>					MAC	6	ua/L	
Dinoseb	ng/L	-	₹					MAC	10	l/on	
Picloram	ng/L	2	\$					IMAC	190	1/01	
CARBAMATES								}	?) j)	
Aldicarb	ng/L	6	• •					MAC	Ø	na/L	1
Bendiocarb	ng/L	7	7		-			MAC	40	1/00)
Carbaryl	ng/L	2	\$	_				MAC	06	l/Sn	
Carbofuran	ug/L	2	\$			•		MAC	06	J/Gn	
Triallate	ng/L	-	٧			-		MAC	230	1/01	
TRIAZINE & RELATED HERBICIDES								?	}))	
Alachlor	ng/L	0.5	<0.5					IMAC	co.	[/011	
Atrazine	ug/L	0.5	<0.5						,	i D	
De-ethylated atrazine	ng/L	0.5	<0.5								
Atrazine + N-dealkylated metabolites	ng/L	1.0	<1.0	_				IMAC	9	na/L	
Cyanazine	ng/L	Ψ-	٧					MAC	10	no/L	
Metolachior	ng/L	0.5	<0.5					IMAC	20	ng/L	
Metribuzin	ng/L	S	\$	-				MAC	80	ng/L	
Prometryne	ng/L	0.25	<0.25					IMAC	-	ng/L	
Simazine	ng/L	-	⊽			-		IMAC	10	na/L	
ORGANOPHOSPHOROUS PESTICIDES	_								_	·	
Azinphos-methyl	ug/L	7	7	<u> </u>				MAC	50	na/L	
Chlorpyrifos	ng/L	-	٧					MAC	06	na/L	
Diazinon	ng/L	-	₹					MAC	20	na/L	
Dimethoate	ng/L	2.5	<2.5					IMAC	20	1/01	
Malathion	ng/L	2						MAC	190	1/80	
Parathion	ng/L	-	₹					MAC	20	1/67	
Phorate	ug/L	0.5	<0.5					IMAC	2	1/011	
Temephos	ug/L	9	<10					IMAC	280	1/00	
Terbufos	ng/L	0.7	<0.7					MAC	} -)))	
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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 Nag

Organic L

REPORT OF ANALYSIS

CRYSLER WELL SUPPLY

5 Industrial Drive Chesterville, ON

K0C 1H0

Attention: Mr. Blair Henderson

Report Number:

Date:

2305690 2003-05-22

Date Submitted:

2003-04-25

Project:

P.O. Number:

Matrix

Cupply Mator

							Matrix:		Supply Wate	<u>r</u>
		LAB ID:	244349						GUIDELINE	
	Samı	ole Date:	2003-04-24	L						
	Sa	mple ID:	CrW-01		}			M	OE REG 459	′nn
			f	1	1	}) "	OF 1150 4091	00
PARAMETER	UNITS	MDL	TREATED	ļ	 		TYPE LIMIT UNITS MAC 150 ug/L IMAC 280 ug/L MAC 70 ug/L IMAC 10 ug/L			
DIURON & GLYPHOSATE	UNITS	MUL	IREATED		 			IYPE	LIMIT	UNITS
Diuron	ug/L	10	<10	ŧ	ļ			1	150	
Glyphosate	ug/L	10	<10	į .	ł		}			
DIQUAT & PARAQUAT	ug/L	1 '0	-10	ĺ	l	[INIAC	280	ug/L
Diquat	ug/L	7	<7	j	1			MAC	70	
Paraquat	ug/L	1	<1]	1]				
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MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration Comment:

APPROVAL:

Mina Nas

Caduceo vironmental Laboratories

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:

230005774

Project:

Date Sampled:

Crysler WTP May 5, 2003

Date Received: Date Printed:

May 5, 2003

May 07, 2003

Matrix:

Drinking Water

			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Satellite	Stand By Well
Total Chlorine	mg/L	0.05		1.29	1.15	1.09	
Free Chlorine	mg/L	0.05		1.22	1.03	1.00	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		4	14		
Background bacteria	/100mL	1	absent				absent
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

Sample Identification



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3282

Rev. 4

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO.: 220008649

			Client ID:		Well #1 Raw	Well #1 Treated	Tower	Home Hardware
			Sample ID:		B03-3282-1	B03-3282-2	B03-3282-3	B03-3282-4
			Date Collected	5 :	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		1.8	1.2	1.2
Total Chlorine	ppm			13-May-03		2.1	1.3	1.3
Total Coliform	cts/100mL	1	MOE E3371	13-May-03	< 1	< 1	< 1	< 1
Background	cts/100mL	1	MOE E3371	13-May-03	5			
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	8	

Krystyna Pipin, M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3282

Rev. 4

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO.: 220008649

			Client ID:		Standby		
			Sample ID:		B03-3282-5		
			Date Collected	d:	12-May-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed			
Free Chlorine	ppm			13-May-03			
Total Chlorine	ppm			13-May-03			
Total Coliform	cts/100mL	1	MOE E3371	13-May-03	< 1		
Background	cts/100mL	1	MOE E3371	13-May-03	< 1		
E coli	cts/100mL	1	MOE E3371	13-May-03	< 1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	13-May-03			

Krystyna Pipin M. Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3556

Rev. 3

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO.: 220008649

			Client ID:		Well #1 Raw	Well #1 Treated - 145642 County Road 13, Crysler	Crysler System Treated Ecole	Crysler System Treated SPS
			Sample ID:		B03-3556-1	B03-3556-2	B03-3556-3	B03-3556-4
			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		< 1	
E 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	4	••
Total Chlorine	mg/L			21-May-03		1.5	1.1	1.3
Free Chlorine	mg/L_			21-May-03		1.4	1.1	1.2

Krystyna Pipin, M∮Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3556

Rev. 3

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO.: 220008649

			Client ID:		Crysler Raw Standby		
			Sample ID:		B03-3556-5		
			Date Collected	d:	20-May-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed			
Total Coliform	cts/100mL	1	MOE E3371	21-May-03	< 1		
Background	cts/100mL	1	MOE E3371	21-May-03	< 1		
E coli	cts/100mL	1	MOE E3371	21-May-03	< 1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	21-May-03			
otal Chlorine	mg/L			21-May-03			
Free Chlorine	mg/L			21-May-03			

Krystyna Pipin, M.

Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3689

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

			Client ID:		Well #1 Raw	Well #1Treated - 15642 Country Road 13, Crysler	Tower Elevated Tank	Post Office
			Sample ID:		B03-3689-1	B03-3689-2	B03-3689-3	B03-3689-4
			Date Collecte	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
ackground	cts/100mL	1	MOE E3371	27-May-03	5			
Ecoli	cts/100mL	1	MOE E3371	27-May-03	< 1	< 1	< 1	< 1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	27-May-03		< 2	< 2	< 2
Total Chlorine	mg/L			27-May-03		1.6	1.2	1.4
Free Chlorine	mg/L			27-May-03		1.5	1.1	1.2



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3689

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

			Client ID:		Raw - Standby		
			Sample ID:	-	B03-3689-5		T
			Date Collected	d:	26-May-03		
Parameter	Units	M.D.L.	Reference Method	Date Analyzed			
Total Coliform	cts/100mL	1	MOE E3371	27-May-03	< 1		
Background	cts/100mL	1	MOE E3371	27-May-03	7		
E coli	cts/100mL	1	MOE E3371	27-May-03	< 1		
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	27-May-03			
otal Chlorine	mg/L			27-May-03			
Free Chlorine	mg/L			27-May-03			



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-3884

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

			Client ID:		Well #1 Raw	Well #1Treated	Dist. Home Hardware	Dist. S.P.S
			Sample ID:		B03-3884-1	B03-3884-2	B03-3884-3	B03-3884-4
			Date Collected	l:	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	31			
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	1.0	1.1
Total Chlorine	mg/L			03-Jun-03		1.4	1.0	1.1

Krystyna Pipin, M Sc. Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4124

Rev. 1

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

			Client ID:		Well #1 Raw	Well #1Treated	Dist. Ecole	Dist. Crysler Satellite
			Sample ID:		B03-4124-1	B03-4124-2	B03-4124-3	B03-4124-4
			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 coli	cts/100mL	1	MOE E3371	10-Jun-03	< 1	< 1	< 1	< 1
Heterotrophic Plate Count	cts/1mL	2	MOE E3371	10-Jun-03		6	2	
ree Chlorine	mg/L		n/a	10-Jun-03		1.4	1.1	1.0
Total Chlorine	mg/L		n/a	10-Jun-03		1.5	1.4	1.2



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4331

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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 #1 Raw	B03-4331-1	16-Jun-03	< 1	3	< 1	T	
Well #1Treated	B03-4331-2	16-Jun-03	< 1		< 1	6	1.3
Dist. Elevated Tank	B03-4331-3	16-Jun-03	< 1		< 1	< 2	1.1
ist. Paul Provost	B03-4331-4	16-Jun-03	< 1		<1		0.9



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4331

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:	Parameter:			
	Units:		mg/L		·
	MDL:				
	Reference Meth	nod:	n/a		
	Date Analyzed:		17-Jun-03		
Client I.D.	Sample I.D.	Date Collected			
Well #1 Raw	B03-4331-1	16-Jun-03			
Well #1Treated	B03-4331-2	16-Jun-03			
Dist. Elevated Tank	B03-4331-3	16-Jun-03			
ist. Paul Provost	B03-4331-4	16-Jun-03			



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4511

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 24-Jun-03

DATE REPORTED: 26-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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:		Total Coliform	Background	E coli	Heterotrophic Plate Count	
	Units:		cts/100mL	cts/100mL	cts/100mL	cts/1mL	
			1		1	2	
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	
	Date Analyzed:		24-Jun-03	24-Jun-03	24-Jun-03	24-Jun-03	
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-4511-1	23-Jun-03	< 1	< 1	< 1	T	
Well #1 Treated - 15642 County Road 13	B03-4511-2	23-Jun-03	<1		< 1	< 2	
un Gas	B03-4511-3	23-Jun-03	< 1		< 1	< 2	
SPS	B03-4511-4	23-Jun-03	<1		< 1		***************************************



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4511

Rev. 2

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 24-Jun-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:

Crysler WTP

WATERWORKS NO. 220008649

	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	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		24-Jun-03	24-Jun-03	24-Jun-03	24-Jun-03	23-Jun-03
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-4511-1	23-Jun-03	< 1	< 1	< 1		
Well #1 Treated - 15642 County Road 13	B03-4511-2	23-Jun-03	<1		< 1	< 2	1.29
un Gas	B03-4511-3	23-Jun-03	< 1		< 1	< 2	1.15
SPS	B03-4511-4	23-Jun-03	<1		< 1		1.20

Lenit,

Krystyna Pipin, N. Sc. Lab Supervisor

MDL = Method Detection Limit

Accreditea

The analytical results reported herein refer to the samples a

Jourcil of Canada and CAEAL for specific tests.

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(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-4834

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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					1
Well #1 Raw	B03-4834-1	30-Jun-03	< 1	<1	1		
Well #1 Treated - 15642 County Rd. 13, Crysler	B03-4834-2	30-Jun-03	<1	< 1		4	1.55
ost Office	B03-4834-3	30-Jun-03	< 1	< 1		< 2	1.30
SPS	B03-4834-4	30-Jun-03	< 1	<1			1.25



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-5172

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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:		08-Jul-03	08-Jul-03	08-Jul-03	08-Jul-03	08-Jul-03
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-5172-1	07-Jul-03	< 1	26	< 1		T
Well #1 Treated - 15642 County Rd 13	B03-5172-2	07-Jul-03	< 1	•	< 1	2	1.62
PS	B03-5172-3	07-Jul-03	< 1		< 1	< 2	0.95
Crysler Satellitte	B03-5172-4	07-Jul-03	< 1		< 1		0.91



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-5485

Rev. 1

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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 # 1 Raw	B03-5485-1	14-Jul-03	<1	1	< 1	Ţ	
Well # 1 Treated	B03-5485-2	14-Jul-03	< 1		< 1	< 2	1.43
ower Elevated Tank	B03-5485-3	14-Jul-03	< 1	•-	< 1	< 2	1.14
S.P.S	B03-5485-4	14-Jul-03	< 1		< 1		1.21



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-5485

Rev. 1

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:	Parameter:				
	Units:		mg/L			
	MDL:	MDL:		7		
	Reference Meti	nod:	n/a			
	Date Analyzed:		14-Jul-03			
Client I.D.	Sample I.D.	Date Collected				
Well # 1 Raw	B03-5485-1	14-Jul-03	T		T	
Well # 1 Treated	B03-5485-2	14-Jul-03				
Tower Elevated Tank	B03-5485-3	14-Jul-03				1
s.P.S	B03-5485-4	14-Jul-03	••			



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-5841

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:	Parameter: (Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:			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					-
Well #1 Raw	B03-5841-1	21-Jul-03	< 1	2	< 1	T	
Well #1 Treated	B03-5841-2	21-Jul-03	< 1	< 1	< 1	< 2	1.33
Home Hardware	B03-5841-3	21-Jul-03	< 1	< 1	< 1	< 2	1.06
ost Office	B03-5841-4	21-Jul-03	< 1		< 1		1.09



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6194

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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	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 #1 Raw	B03-6194-1	28-Jul-03	< 1	6	< 1		
Well #1Treated - 15642 County Rd 13	B03-6194-2	28-Jul-03	< 1		< 1	< 2	1.29
Dist. Home Hardware	B03-6194-3	28-Jul-03	< 1		< 1	< 2	1.21
Dist. S.P.S	B03-6194-4	28-Jul-03	< 1		< 1		1.17

CADU

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 06-Aug-03
DATE REPORTED: 08-Aug-03

SAMPLE MATRIX: Drinking Water

Adverse

nental Laboratories

duceon Enterprises Inc.)

REPORT No. B03-6484

Rev. 1

onmental Laboratories

:1V 7P1

10.:

Crysler WTP

NO. 220008649

	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	nod:	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 #1 Raw	B03-6484-1	05-Aug-03	< 1	9	< 1		
Well #1Treated - 15642 County Rd 13	B03-6484-2	05-Aug-03	<1		< 1	> 500	2.28
Dist.Post Office	803-6484-3	05-Aug-03	< 1		< 1	< 2	1.24
Dist. S.P.S	B03-6484-4	05-Aug-03	<1		< 1		1.40



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6751

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 08-Aug-03

DATE REPORTED: 11-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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:		Total Coliform	E coli	Heterotrophic Plate Count	Free Chlorine	
	Units:		cts/100mL	cts/100mL	cts/1mL	mg/L	
	MDL:	MDL: Reference Method:		1	2		
	Reference Met			MOE E3371	MOE E3371	n/a	
	Date Analyzed:		08-Aug-03	08-Aug-03	08-Aug-03	08-Aug-03	
Client I.D.	Sample i.D.	Date Collected		_		•	
Welll #1 Treated - 15642 County Road 13, Crysler	B03-6751-1	08-Aug-03	< 1	< 1	14	1.48	
Water Tower	B03-6751-2	08-Aug-03	< 1	< 1	< 2	1.23	



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6752

Rev. 3

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 09-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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:		Total Coliform	E coli	Heterotrophic Plate Count	Free Chlorine	
	Units:		cts/100mL	cts/100mL	cts/1mL	mg/L	
	MDL:		1	1	2		
	Reference Meth	nod:	MOE E3371	MOE E3371	MOE E3371	n/a	
	Date Analyzed:		09-Aug-03	09-Aug-03	09-Aug-03	09-Aug-03	
Client I.D.	Sample I.D.	Date Collected					
Well #1 Treated - 15642 County Road 13, Crysler	B03-6752-1	09-Aug-03	<1	<1	< 2	1.21	
Crysler Water Tower	B03-6752-2	09-Aug-03	< 1	< 1	< 2	1.65	



(Division of Caduceon Enterprises Inc.)

2.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6841

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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	1	2	
	Reference Meti	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 #1 Raw	B03-6841-1	11-Aug-03	< 1	6	< 1		
Well #1Treated - 15642 County Rd 13	B03-6841-2	11-Aug-03	< 1		< 1	< 2	1.55
ist. Elevated Tank	B03-6841-3	11-Aug-03	< 1		< 1	< 2	1.15
Dist. Crysler Satellite	B03-6841-4	11-Aug-03	< 1		< 1		1.16

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



(Division of Caduceon Enterprises Inc.)

C.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7172

Report To:

Ontario Clean Water Agency - Crysler

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.:

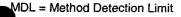
P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	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:		19-Aug-2003	19-Aug-2003	19-Aug-2003	19-Aug-2003	19-Aug-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-7172-1	18-Aug-03	< 1	< 1	< 1		
Well #1 Treated - 15642 County Rd 13	B03-7172-2	18-Aug-03	< 1		< 1	<2	0.94
Ecole	B03-7172-3	18-Aug-03	< 1		< 1	< 2	1.04
Home Hardware	B03-7172-4	18-Aug-03	< 1		< 1		0.80

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





(Division of Caduceon Enterprises Inc.)

C.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7524

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nam	ne:	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 Met	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		26-Aug-2003	26-Aug-2003	26-Aug-2003	26-Aug-2003	26-Aug-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-7524-1	25-Aug-03	< 1	170	< 1		Ţ <u></u>
Well #1Treated - 15642 County Rd 13	B03-7524-2	25-Aug-03	<1		<1	< 2	1.58
ist. Post Office	B03-7524-3	25-Aug-03	< 1		< 1	6	1.00
Dist. Crysler Satellite	B03-7524-4	25-Aug-03	< 1		< 1		0.83

Krystyna Pipin, M. Sc. Lab Supervisor

Client: CRYSLER WELL SUPPLY

5 Industrial Drive Chesterville, ON K0C 1H0

Attention: Mr. Blair Henderson

Report Number: Date:

2312455 2003-08-20 2003-08-13

Date Submitted:

Project:

P.O. Number: Matrix:

						_
			23	UNITS		
Supply Water	GUIDELINE		MOE REG 170/03	LIMIT		
			MO	TYPE		-
Matrix:						
Ma			 			
				-		
ľ						
	265633	2003-08-12	CRW-01	RAW	0.007	
	LABID	Sample Date:	mple ID:	MDL	0.001	
		Samp	Sal	UNITS	cm-1	
				PARAMETER		
				3	@ 254 nm	
					UV Absorbance @ 254 nm	
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:





(Division of Caduceon Enterprises Inc.)

C.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-7935

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0

Attention: Dave Markell

Attention. Dave IV

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nan	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 Met	nod:	MOE E3371	MOE E3371	MOE E3371	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 #1 Raw	B03-7935-1	02-Sep-03	< 1	6	< 1		
Well #1Treated - 15642 County Rd 13	B03-7935-2	02-Sep-03	< 1		< 1	2	1.19
ower - Elevated Tank	B03-7935-3	02-Sep-03	< 1		< 1	4	0.85
Dist. S.P.S	B03-7935-4	02-Sep-03	< 1		< 1		0.88



(Division of Caduceon Enterprises Inc.)

C.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-8322

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0 Attention: Dave Markell

DATE SUBMITTED: 09-Sep-03

DATE REPORTED: 11-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:

Crysler WTP

WATERWORKS NO. 220008649

	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 Met	hod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		09-Sep-2003	09-Sep-2003	09-Sep-2003	09-Sep-2003	09-Sep-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-8322-1	08-Sep-03	1	29	< 1		
Well #1Treated - 15642 County Rd 13	B03-8322-2	08-Sep-03	<1		<1	< 2	1.17
Dist. Ecole	B03-8322-3	08-Sep-03	< 1		< 1	4	0.85
Dist. Home Hardware	B03-8322-4	08-Sep-03	< 1		<1		0.70

Krystyna Pipin, M. Sc.

Lab Supervisor

Caduceon Environmental Laboratories.



(Division of Caduceon Enterprises Inc.)

C O C · ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-8722

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nam	ne:	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 Met	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		16-Sep-2003	16-Sep-2003	16-Sep-2003	16-Sep-2003	16-Sep-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-8722-1	15-Sep-03	< 1	4	< 1		
Well #1Treated - 15642 County Rd 13	B03-8722-2	15-Sep-03	<1	•	< 1	< 2	1.31
ist.Post office	B03-8722-3	15-Sep-03	< 1		< 1	50	0.92
Dist. Crysler Satellite	B03-8722-4	15-Sep-03	< 1		< 1		0.85

Krystyna Pipin, M. Sc.

Lab Supervisor



(Division of Caduceon Enterprises Inc.)

C.O.C.: ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-9092

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0

Attention: Dave Markell

DATE SUBMITTED: 23-Sep-03

DATE REPORTED: 25-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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nam	e:	Total	Background	E coli	Heterotrophic	Free Chlorine
	İ		Coliform			Plate Count	
	Parameter Sym	bol:	cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	Scheme Code:		1	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 #1 Raw	B03-9092-1	22-Sep-03	< 1	6	< 1		
Well #1Treated - 15642 County Rd 13	B03-9092-2	22-Sep-03	< 1		< 1	2	1.29
ist. Elevated Tank	B03-9092-3	22-Sep-03	< 1		< 1	6	1.05
Dist. S.P.S	B03-9092-4	22-Sep-03	< 1	••	< 1		1.18

Krystyna Pipin, M. Sc.

Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS
Final Report

REPORT No. B03-9533

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention:
Dave Markell

DATE SUBMITTED: 30-Sep-03

DATE REPORTED: 02-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:

Crysler WTP

WATERWORKS NO. 220008649

	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 Meti	nod:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		30-Sep-2003	30-Sep-2003	30-Sep-2003	30-Sep-2003	30-Sep-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-9533-1	29-Sep-03	< 1	5	< 1		
Well #1Treated - 15642 County Rd 13	B03-9533-2	29-Sep-03	< 1		< 1	< 2	1.13
list. Home Hardware	B03-9533-3	29-Sep-03	< 1		< 1	< 2	0.91
Dist. S.P.S	B03-9533-4	29-Sep-03	< 1		< 1		0.92

Krystyna Pipin, M. Sc.

Lab Supervisor

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

5 Industrial Drive Chesterville, ON

K0C 1H0

Attention: Mr. Blair Henderson

Report Number:

2313863

Date:

2003-09-11

Date Submitted:

2003-09-04

Project:

P.O. Number:

Supply Water

				 		Matrix:		Supply Water	r
		AB ID:	269943	 <u> </u>				GUIDELINE	
	Sample	Date:	2003-09-02						
	Samp	ple ID:	CRW-01-		}			DE REG 170/	02
		į (TREAT	<u> </u>	į		1/1	JE REG 170/	03
		i		l	Į				
PARAMETER	UNITS	MDL	TREATED				TYPE	LIMIT	UNITS
N-NO2 (Nitrite)		0.10	<0.10				MAC	1.0	mg/L
N-NO3 (Nitrate)		0.10	0.10	1	ł		MAC	10.0	mg/L
		(1	ł			10.0	
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MDL = Method Detection Limit INC = Incomplete AO = Aesthetic Objective OG = Operational Guideline MAC = Maximum Allowable Concentration Comment:

APPROVAL:

Ewan Mg

Client: CRYSLER WELL SUPPLY

5 Industrial Drive Chesterville, ON K0C 1H0

K0C 1H0
Attention: Mr. Blair Henderson

Report Number: Date:

Date Submitted:

7: 2313863 2003-09-11 4: 2003-09-04

Project:

P.O. Number:

							Matrix:		Supply Water	L	
		LABID	269944						GUIDELINE		_
	Samp	Sample Date:	2003-09-02								_
	San	Sample ID:	CRW-02- DISTRI					Σ	MOE REG 170/03	03	
PARAMETER	UNITS	MDI	DISTRIBITION			-		TABLE	1 11417	OFINIT	_
VOLATILE ORGANIC COMPOUNDS - VOCS										ONIO	_
Bromodichloromethane	ng/L	0.3	2.6					=			
Bromoform	ng/L	0.4	<0.4	_							
Chloroform	ng/L	0.5	9.9	_				-			
Dibromochloromethane	ng/L	0.3	1.0								
Trihalomethanes (total)	ng/L	2.0	10.2					MAC	100	ng/L	
VOC SURROGALES			,				_				
on-aliano :	%		86					-			
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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:





(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-9993

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

.O.C.: 42450

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nam	ie:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:	Units:		cts/100mL 1 MOE E3371	cts/100mL	cts/1mL 2 MOE E3371	mg/L
			1		1 MOE E3371		
			MOE E3371				n/a
			07-Oct-2003	07-Oct-2003	07-Oct-2003	07-Oct-2003	07-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-9993-1	06-Oct-03	< 1	> 200	< 1		
Well #1Treated - 15642 County Rd 13	B03-9993-2	06-Oct-03	< 1		< 1	< 2	1.06
ist. Tower	B03-9993-3	06-Oct-03	< 1		< 1	< 2	0.92
Dist. S.P.S	B03-9993-4	06-Oct-03	< 1		< 1		0.91

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

C.O.C.: 42483

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-10462

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0 Attention: Dave Markell

DATE SUBMITTED: 15-Oct-03

DATE REPORTED: 17-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:

Crysler WTP

WATERWORKS NO. 220008649

	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: M Date Analyzed: 1:		1 MOE E3371	1	2	
	Reference Meth				MOE E3371	MOE E3371	n/a
	Date Analyzed:			15-Oct-2003	15-Oct-2003	15-Oct-2003	16-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
CRW-01 Raw	B03-10462-1	14-Oct-03	2	60	< 1		
CRW-02 WTP	B03-10462-2	14-Oct-03	< 1		< 1	< 2	1.38
CRW-03 Ecole	B03-10462-3	14-Oct-03	< 1		< 1	< 2	1.08
PW-04 Crysler Sat.	B03-10462-4	14-Oct-03	< 1		< 1	•-	0.99

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS
Final Report

REPORT No. B03-10710

Report To:

O.C.: 42646

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nam	е:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:	Units: c M.D.L.: Reference Method: Method: 21		cts/100mL 1 MOE E3371	cts/100mL	cts/1mL	mg/L
	M.D.L.:					2	
	Reference Meth				MOE E3371	MOE E3371	n/a
	Date Analyzed:			21-Oct-2003	21-Oct-2003	21-Oct-2003	21-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-10710-1	20-Oct-03	8	85	< 1		
Well #1Treated - 15642 County Rd 13	B03-10710-2	20-Oct-03	< 1		< 1	< 2	1.09
ist. Post Office	B03-10710-3	20-Oct-03	< 1		< 1	<2	1.01
Dist. S.P.S	B03-10710-4	20-Oct-03	< 1		< 1		0.99

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

C O C · ---

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-11165

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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 Meth	od:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:	Date Analyzed: 2		28-Oct-2003	28-Oct-2003	28-Oct-2003	28-Oct-2003
Client I.D.	Sample I.D.	Date Collected					
Crysler Well No.1 Raw	B03-11165-1	27-Oct-03	< 1	< 1	< 1		
CryslerWell No.1 Treated	B03-11165-2	27-Oct-03	< 1		< 1	< 2	1.13
Sample 3	B03-11165-3	27-Oct-03	< 1		< 1	< 2	0.99
sample 4	B03-11165-4	27-Oct-03	< 1		< 1		0.95

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

C.O.C.: C-00209

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-11605

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 04-Nov-03

DATE REPORTED: 06-Nov-03

MDL = Method Detection Limit

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

40 Camelot Drive

Ottawa Ontario K2G 5X8

Tel: 228-1145 Fax 228-1148

JOB/PROJECT NO.:

P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:	I.D.L.:		cts/100mL cts/100mL 1 1	cts/100mL	cts/1mL 2	mg/L
	M.D.L.:				1		
	Reference Meth	od:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:	Date Analyzed: (04-Nov-2003	04-Nov-2003	04-Nov-2003	04-Nov-2003
Client I.D.	Sample I.D.	Date Collected					
Crysler Well No. 1 - Raw	B03-11605-1	03-Nov-03	(1)	7 ~	<1		
Crysler Well No. 1 - Treated	B03-11605-2	03-Nov-03	र र		<1 V	<2 i/	1.09
CRW-03-Sun Gas	B03-11605-3	03-Nov-03	<1 V		<1 /	<2 /	0.89
CRW-04-SPS	B03-11605-4	03-Nov-03	<1 /		_ <1 /		0.95

Now by Rated

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



(Division of Caduceon Enterprises Inc.)

C.O.C.: C-00210

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-11947

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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 Meth	od:	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 #1 Raw	B03-11947-1	10-Nov-03	1	53	<1 i		
Well #1Treated - 15642 County Rd 13	B03-11947-2	10-Nov-03	<1		<1_	40:	1.08
Dist. Ecole	B03-11947-3	10-Nov-03	<1 🗸		<1/	4 🗸	0.89
Dist,Crysler Satellite	B03-11947-4	10-Nov-03	<1 -		<1 /		0.86

Down 4/03 Futed

Krystyna Pipin, M. Sc.

MDL = Method Detection Limit



(Division of Caduceon Enterprises Inc.)

C.O.C.: C-00211

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-12392

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

					,	,	
	Parameter Nam	e:	Total	Background	E coli	Heterotrophic	Free Chlorine
			Coliform			Plate Count	
	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:		18-Nov-2003	18-Nov-2003	18-Nov-2003	18-Nov-2003	18-Nov-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-12392-1	17-Nov-03	1 i/	24 -	<1		
Well #1Treated - 15642 County Rd 13	B03-12392-2	17-Nov-03	<1 /		<1_	<2 -	1.15
Dist. 9 Queen St	B03-12392-3	17-Nov-03	<1 ~		<1/	ر 2 >	0.86
Dist. Home Hardware	B03-12392-4	17-Nov-03	<1 ~		<1 /		0.81
Crysler Well #2 Standby Raw	B03-12392-5	17-Nov-03	<1 v	6	<1		

port of

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

O.C.: C-00212

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-12760

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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	1	2	
	Reference Meth	od:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		25-Nov-2003	25-Nov-2003	25-Nov-2003	25-Nov-2003	25-Nov-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-12760-1	24-Nov-03	< 1	86	< 1		
Well #1Treated - 15642 County Rd 13	B03-12760-2	24-Nov-03	< 1		< 1	272	1.29
Dist. Tower	B03-12760-3	24-Nov-03	< 1		< 1	2	0.85
Dist.SPS	B03-12760-4	24-Nov-03	< 1	< 1	< 1		
Crysler Well #2 Standby Raw	B03-12760-5	24-Nov-03	< 1		< 1		0.88

Krystyna Pipin, M. Sc.



(Division of Caduceon Enterprises Inc.)

O.C.: C-00213

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-13125

Report To:

Ontario Clean Water Agency - Crysler

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:

Crysler WTP

WATERWORKS NO. 220008649

	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 Meth	od:	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 #1 Raw	B03-13125-1	01-Dec-03	2	46	< 1		
Well #1Treated - 15642 County Rd 13	B03-13125-2	01-Dec-03	< 1		< 1	< 2	1.27
Dist. SPS #1	B03-13125-3	01-Dec-03	< 1		< 1	< 2	0.91
Pist. Sunny's Gas	B03-13125-4	01-Dec-03	< 1	< 1	< 1		
Crysler Well #2 Standby Raw	B03-13125-5	01-Dec-03	< 1		< 1		0.92

Krystyna Pipin



(Division of Caduceon Enterprises Inc.)

O.C.: C-00214

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-13543

Report To:

Ontario Clean Water Agency - Crysler

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-Dec-03

DATE REPORTED: 11-Dec-03
SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.:

P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	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 Meth	od:	MOE E3371	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 #1 Raw	B03-13543-1	08-Dec-03	< 1	1	< 1		
Well #1Treated - 15642 County Rd 13	B03-13543-2	08-Dec-03	<1		< 1	< 2	1.64
Dist.Crysler Satellite	B03-13543-3	08-Dec-03	< 1		< 1	< 2	0.89
ist. SPS	B03-13543-4	08-Dec-03	< 1	6	< 1		
Crysler Well #2 Standby Raw	B03-13543-5	08-Dec-03	< 1		< 1		1.10

Krystyna Pipin Lab Supervisor



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS
Final Report

REPORT No. B03-13916

Rev. 1

Report To:

O.C.: C-00215

Ontario Clean Water Agency - Crysler

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

JOB/PROJECT NO.:

P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Nam	e:	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:	Inits:		cts/100mL 1 MOE E3371	cts/100mL	cts/1mL 2	mg/L
	M.D.L.: Reference Method:		1		1 MOE E3371		
			MOE E3371			MOE E3371	n/a
	Date Analyzed:		16-Dec-2003	16-Dec-2003	16-Dec-2003	16-Dec-2003	16-Dec-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-13916-1	15-Dec-03	1	38	< 1		
Well #1Treated - 15642 County Rd 13	B03-13916-2	15-Dec-03	< 1		< 1	< 2	1.12
Dist. Tower	B03-13916-3	15-Dec-03	< 1		< 1	< 2	0.88
Pist. Ecole	B03-13916-4	15-Dec-03	< 1	23	< 1		0.96
Crysler Well #2 Standby Raw	B03-13916-5	15-Dec-03	1		< 1		

Greg Clarkin

Lab Manager - Ottawa District



(Division of Caduceon Enterprises Inc.)

O.C.: C-00216 **CERTIFICATE OF ANALYSIS Final Report**

REPORT No. B03-14188

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0 Attention: Dave Markell

DATE SUBMITTED: 22-Dec-03

DATE REPORTED: 24-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:

Crysler WTP

WATERWORKS NO. 220008649

	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	n/a
	Reference Method:		MOE E3371 N				
	Date Analyzed:		22-Dec-2003	22-Dec-2003	22-Dec-2003	22-Dec-2003	22-Dec-2003
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-14188-1	22-Dec-03	< 1	< 1	< 1		
Well #1Treated - 15642 County Rd 13	B03-14188-2	22-Dec-03	<1		<1	< 2	1.12
Dist.SPS	B03-14188-3	22-Dec-03	< 1		< 1	< 2	0.90
ist. Home Hardware	B03-14188-4	22-Dec-03	< 1	3	< 1		
Crysler Well #2 Standby Raw	B03-14188-5	22-Dec-03	< 1		< 1		0.72

Krystyna Pipin Lab Supervisor

M.D.L. = Method Detection Limit



(Division of Caduceon Enterprises Inc.)

C.O.C.: C-00217

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-14415

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 29-Dec-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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter Name: Units: M.D.L.: Reference Method: Date Analyzed: Date Collected B03-14415-1 29-Dec-03 B03-14415-2 29-Dec-03	Total Coliform	Background	E coli	Heterotrophic Plate Count	Free Chlorine	
	Units:	D.L.: eference Method: ite Analyzed: Date Collected 03-14415-1 29-Dec-03 03-14415-2 29-Dec-03 03-14415-3 29-Dec-03 03-14415-4 29-Dec-03	cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L
	M.D.L.:		1	1	1	2	
	Reference Meth	od:	MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a
	Date Analyzed:		29-Dec-2003	29-Dec-2003	29-Dec-2003	29-Dec-2003	29-Dec-2003
Client I.D.	Sample I.D.						
Well #1 Raw	B03-14415-1	29-Dec-03	< 1	4	< 1	T	
Well #1Treated - 15642 County Rd 13	Units: M.D.L.: Reference Method: Date Analyzed: Sample I.D. C B03-14415-1 29 B03-14415-2 29 B03-14415-3 29 B03-14415-4 29	29-Dec-03	<1		< 1	< 2	1.48
Dist. Tower	B03-14415-3	29-Dec-03	3 <1		< 1	< 2	1.04
Dist. SPS	B03-14415-4	Ccts od: MO 29-E Date Collected 29-Dec-03 29-Dec-03 29-Dec-03 29-Dec-03	< 1	< 1	< 1		
Crysler Well #2 Standby Raw	B03-14415-5	29-Dec-03	< 1		< 1		1.01

Krystyna Pipin

AC

ACCUTEST LABORATORIES LTD.

CHAIN OF CUTODY RECORD

LAB USE ONLY ... Report Number: 2.513663

☐ 146 Colonnade Rd., Unit 8 Ottawa, ON K2E 7Y1 Ph: (613) 727-5692 Fax: (613) 727-5222

608 Norris Court
 Kingston, ON K7P 2R9
 Ph: (613) 634-9307 Fax: (613) 634-9308

Company Name:				A	ddress:	//	UDu.	STR	AL	DR	•		9 F	ax Resi	uits to:	448	'-16/6
Report Attention: DAUE MARI Phone:	KELC	ri.	···	c	ity/Prov:	II FER	VIVE	٤	Postal C	ode:	-14	60	□E	-mail R	esults t	o:	
HONE: 448-3098	Waterworks 2200	086	49	P	roject#				* Quotat	ion #			С	opy of l	Results	to:	
Invoice to: (if different from above)								·	SAME	PLE AN	IALYSI	SREQ	UIRED		T T	□ ⇔ Indicate: F	=Filtered or P=Preserved
			Sample Matrix	C=Comp. G=Grab	Number of Containers	Service Required ** R=Rush S=Standard	No2 = No3	740								Laboratory	CRITERIA REQUIRED * (i.e. MOE GUCSO, CCME, PWQO, ODWS, Québec) MOE Reg. #:
Sample ID	Date/Tir Collecte			ပီ		Sel 7	く								}		Other: MOE Reportable ?
CRW-01-TREAT	02/09/03	1040	DW	G	1	5	~					FC	Lz -	1.19	25/6	269943	Yes ☐ No □
CRW-02 DISTRI	02/09/03	1125	DW		Z	S		J				FC		-88		944	Yes ⊡ No 🗅
																	Yes ☐ No ☐
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Sampled By: BILL MICH	1665	Date/	rime: / 09	103		Shipped	l Via:	-			W	/aybill #:					Comments
Relinquished By:		Date/	Time:	<u> </u>		Receive	ed By:		···········		D	ate/Time) :		:		
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Caduceon Laboratories



Municipality	Crysler	Works # 220008649	Report To	Ontario (lean Wat	er Agend	у		Telephone: (613) 448-3098
Source	Wells	and the second s	Address	5 Industr	al Drive		The second secon		Fax: (613) 4	48-1616
Sample Type	and the second second in the second s	Sampler BILL MCCA. Sample Description 1 Raw 1 Treated - 15642 County Road 13, Crysler 857 8 FFICE 15128 SATELLITE		P.O. Box	460	ne , mad in proving performance	· · · · · · · · · · · · · · · · · · ·		Postal Code	K0C 1H0
Date Sample	0 28/08F	03 Sampler BILL MICHEL	S	Chesterv	ille, Ontar	io	response to the same of the sa			
Sample ID			Time	F CL2	T CL2	E. Coli	Total Coliform	Background	HPC	Reportable Sample
CRW-01	Well # 1 Raw		11.05		_	X	x	X		
CRW-02	Well # 1 Treated	- 15642 County Road 13, Crysler	11 15	1.58		X	x		x	X
CRW-03	PEST	o ffice	11 35	1. De		X	x		x	X
CRW-04	CKYSLER	SATELLITE	1146	. 83	-	X	x			x
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c.c. Township of North Stormont, Fax: (613) 984-2908

Caduceon Laboratories

B03-793S

Bacterialogical Sample Submission Form

Municipality	Crysler	Works # 220008649	Report To	Ontario C	lean Wat	er Agenc	y		Telephone: (613) 448-3098
Source	Wells		Address	5 Industr	al Drive				Fax: (613) 44	18-1616
Sample Type	Bacti	The street of the state of the	and the second s	P.O. Box	460			and the second s	Postal Code	K0C 1H0
Date Sample	02/09/03	Sampler BILL MIEHELS		Chesterv	ille, Ontar	io				
Sample ID		Sample Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	HPC	Reportable Sample
CRW-01	Well # 1 Raw		1030			X	x	X		
CRW-02	Well # 1 Treated -	15642 County Road 13, Crysler	1035	1.19		х	X		x	x
CRW-03	TOWER - 8	ELEUATED TANK	11.5	.85	_	х	x		x	x
CRW-04	S.P.S.		1120	- 88	-	X	x			X
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c.c. Township of North Stormont, Fax: (613) 984-2908

Caduce Laboratories



Municipality	Crysler	Works # 220008649	Report To	Ontario C	lean Wat	er Agenc	у		Telephone:	(613) 448-3098
Source	Wells	and the second s	Address	5 Industr	al Drive			n	Fax: (613) 4	48-1616
Sample Type	Bacti			P.O. Box	460				Postal Code	K0C 1H0
Date Sample	08/09/0	3 Sampler BILL MICHELS		Chesterv	ille, Ontar	io				
Sample ID		Sample Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	HPC	Reportable Sample
CRW-01	Well # 1 Raw		1050	-	_	х	x	x		
CRW-02	Well # 1 Treated	d - 15642 County Road 13, Crysler	1055	1.17	_	x	x		X	x
CRW-03	ECOLE		1150	-85	_	X	X		X	x
CRW-04	Home HA	LADWARE	12.00	.7	_	X	x			x
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c.c. Township of North Stormont, Fax: (613) 984-2908

Caduceon Laboratories 2378 Holly Lane, Ottawa, ON K1V7P1 Tel: (613) 523-0123 Fax: (613) 731-0851

Caduc Laboratories

Bo3-8333 Bacterialogical Sample Submission Form

Municipality	Crysler	Works # 220008649	Report To	Ontario (lean Wat	er Ageno	у		Telephone: (613) 448-3098
Source	Wells		Address	5 Industr		The second second	and the second s	The second secon	Fax: (613) 44	
Sample Type	the state of the s			P.O. Box	460	To a community of the company	THE PROPERTY OF THE PROPERTY O		Postal Code	
Date Sample	0 15/09/03	Sampler BILL MICHELS		Chesterv		io	manifest softwareness to a store or any conservation of	THE PARTY OF SHAPE SALES THE STREET		
Sample ID		Sample Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	HPC	Reportable Sample
CRW-01	Well # 1 Raw		1105	_	_	X	x	X		
CRW-02	Well # 1 Treated - 1	5642 County Road 13, Crysler	1110	1.31		X	X		X	X
CRW-03	POST OFF	168	1140	. 4		X	×		X	X
CRW-04	CRYSLEK	ATELLITE	1145	. 85	_	X	x			X
		The second secon					^			
at a way hay broken made		The second secon		**************************************	1.1 118878 p. 150 2,					
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		enteres that we will be already to a plant contract independent of the contrac								
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		Company of the compan						41 40 10 10 10 10 10		
Miles - B. 1883 And Sales College Miles and Sales and Sales and Sales and										
<u>_</u>		t, Fax: (613) 984-2908								

Caduceon Laboratories 2378 Holly Lane, Ottawa, ON K1V 7P1 Tel: (613) 523-0123 Fax: (613) 731-0851

Caduceon Laboratories



Municipality	Crysler	Works # 220008649	Report To	Ontario (lean Wat	er Agenc	У		Telephone:	(613) 448-3098
Source	Wells	and the same of th	Address	5 Industr	al Drive		•		Fax: (613)	448-1616
Sample Type	Bacti	and the second s		P.O. Box	460				Postal Code	K0C 1H0
Date Sample	02/09/03	Sampler BILL MICHELS		Chesterv	rille, Ontar	io				
Sample ID		Sample Description	Time	F CL2	T CL2	E. Coli	Total Coliform	Background	НРС	Reportable Sample
CRW-01	Well # 1 Raw		1110	_	_	X	x	X		
CRW-02	Well # 1 Treated - 1	5642 County Road 13, Crysler	1115	1.29		Х	X		X	X
CRW-03	ELEVATED T	TANK	1130	1.05	_	X	X		X	X
CRW-04	SPS		1140	1.18	_	X	x	1 1 M		×
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c.c. Township of North Stormont, Fax: (613) 984-2908



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Laboratory Locations/ Shipping Addresses

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Laboratory Locations/ Shipping Addresses

Kingston Lab - 285 Daiton Ave., Kingston, ON K7M 621, Tei (613) 544-2001 Fax: (613) 554-2770, Email: contactkingston@caduceonlabs.com Ottawa East Lab - 2378 Holly Lane, Ottawa, ON K1V 7P1, Tei (613) 526-0123 Fax: (613) 528-1244, Email: contactottawae@caduceonlabs.com (Shipping & Supplies) Ottawa West Lab - 40 Camelot Dr., Ottawa, ON K2G 5X8, Tei: (613) 228-1145 Fax: (613) 228-1148, Email: contactottawae@caduceonlabs.com (Administration) Moncton Lab - 150 Lutz St., Moncton, NB E1C 5E9, Tei: (506) 855-6472 Fax: (506) 855-8294, Email: contactmoncton@cadueonlabs.com



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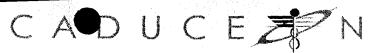


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Sample Matrix Legend: DW=Drinking Water WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge S=Soli Sed=Sediment PC=Paint Chips F=Filte

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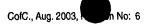
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Moncton Lab - 150 Lutz St., Moncton, NB E1C 5E9, Tel: (506) 855-6472 Fax: (506) 855-8294, Email: contactmoncton@caduceonlabs.com



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	Mott	- 		
Company					
Fax Number	800-268-6061	933	3-7930		
From	Dave 1	Narkell			
Date	Jan 10/0	3.			
Number of Pages	$\underline{\mathscr{B}}$ (includi	ng this page)			
Subject	Crysler	(220008	3649)		
Jon 6/0)3 a p	rouncial	meat	insy	recto-
	a bacti				
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Sample in	jas collec	ted from	a ta	at	
Desorne	aux Meat	s (Slaught	er House	· Boc	.h'
results	indicated >	500 HPL	NO E	<u>ste</u>	NO T. Col
The Loc	al Alateme	nt officer	has In	trick	d us
(as per	attachmer	t) to s	ample th	_sit	e,
or adjac	cent on	BU√ ∧ex	+ scher	Juled	5 ample
date	Monday J.	an 13/03			



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	Brenda
Company	MOR
Fax Number	268-6061
From	Dewe
Date	Jan 10/03
Number of Pages	(including this page)
Subject	Cyslu.
Part	233 as requested.
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P.03

Radiological | Exceeds IMAC

SEP-12-2000 09:27 MOE SPILLS ACTION CENTRE

♥ Ontario	of the	, Minigraru da Filmdronnam
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Notice of Drinking Water Analysis and Remedial Actions for Waterworks 21 Required under Drinking Water Protection Regulation

In most board with the Desiling Water Projection degelection, Lebergaries and Wester Works Overand that beautified provide and antiferation to the MOS Bette Action Collect (SAC) at "1-26-253-4666 or 1-476-255-2608 and the least Makind Pfficer of Moster (100H) of Indianter of asternia desire quality and accordance of antiferation and remaind applies when, Purpley, while 24 thans of the and neighborian, the purp shell provide setting neighborian on this completed form by Fax or the Spille Action Control of 1505-253-2611 and the local Making Officer of Houlds, Painter to notify skep pursue in accordance with the Republican constitutes an affirm under the Act. A page of the Spille Action Control of the Spil PART 1 - NOTIFICATION BY LABORATORY

| Indicators of Adverse | Physichem |

		IMAC Colavorder Exceeds Limit
	PILLS ACTION CENTRE by LABO	ORATORYTO: Briain Parle
One Jan. 9/2003	Time: 4:30 1.14	By Olive House
Laboratory Name OHday	Public Health Lab	Lames Brown Super Olling Hareh
	Laurent Blad:	Prosen Medical Lab Technologist
Email address		Marie 613-736-6800 For 613-736-6820
Waterwoods Home Das or M.	eaux Meats #223	Weirrorchi Economicy Contact
Water 270008649		Mane
LARRISM 1 Queen St.	Crysta ON	Presiden
Copy) Address		Hom 8 fall 8
NOTIFICATION OF WATER WE	· · ·	NOTIFICATION OF LOCAL MEDICAL OFFICER OF MEALTH
America Outario Ci	ean Water Agency	noncomon Idalia (E.D. H. U.)
Prince Bary Handercon		min special project officer
Day Jan 9/53 Laboratory Written Notification Pr	Time 3 = 30 f . MM Toparrel by: Name (please pr	Day Jan 9/03 Yime 13:30
(Lab Retults must be attached using	Past 3 of (open)	OZIVE HSUEIT
Signature O7a	thach	Jan. 9/03
	BY WATER WORKS OWNER	
indicators of Adverse	Phys/China U Exceeds M.	AC Rediological Esconds IMAC
Water Quality	☐ Exceeds IM	
LI THE HOSPICATION CENTRE OFFICE		there is no Laborousy multitation associated with the report WATERWORKS EMERGENCY CONTACT
JON 9/03	Time 16:30	Dave Markell
WARRANGE Crysle		Process Tect.
Water 22000 BI		Marca 613-448-3098 Fee 613-448-1616
Media Propag Provides Crel Heatherdan	Bawen worke	. 1
	HORAL NOTIFICATION BY OWNER	R REMEDIAL ACTIONS TAKEN BY OWNER:
MEDICAL OFFICER OF MEALT	HORAL NOTHICATION BY OWNER	Restricting torifaced Yes Ne
MEDICAL OPTICER OF MEALT See JOA 9/03 Non-Control LYNN	HORAL NOTHICATION BY OWNER	Resempting lairband Yes Ne Increase Olorian Dana Yes No Flushing Maint Yes 110
MEDICAL OFFICIA OF MEALTH SEL JON 9/03 LYNN NURSE	HORAL NOTHICATION BY OWNER	Resempting toirdnand
MEDICAL OFFICER OF MEALTH DES JON 9/03 LYNN NURSE	1 0 Pag 6 933-7930	Resempting lairdeand Yes No Increase Orlories Dase Yes No Floring Mains Yes Too Other Actions Yaken Yes No Describe:
NURSE 1-805-267-712	16:25 Page 933-7930 Blair Henderson	Resempting tojdaned Yes Ne Increase Offerice Dase Yes No Filebing Meins Yes Tto Other Actions Taken Yes No Describe:
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MEDICAL OPTICER OF MEALT DA 9/03 LYNN NURSE MAN 1-803-267-712 Marker Works Western Northeadan Carre A	Page 933-7930 Blair Henderson Proported by Name (please print)	Resempting toidhead Yes No No Increase Official Dase Yes No No Floring Mains Yes No Other Actions Taken Yes No No Describe: Other information attached Dave Mark
MEDICAL OPTICER OF MEALT Day John 9/03 LYNN Paris NURSE THE 1/800-267-712 Water World William Neitherhold	Page 933-7930 Blair Henderson Proported by Name (please print)	Resempting toidhead Yes No No Increase Official Date Yes No No Floring Mains Yes No No Other Actions Taken Yes No No Describe: Other information attached Dave Mark Date

JAN 09 2003 16:53 FR OTTAWA PUBLIC LAB Sample ID No. Physical/Chemical/Radiological Testing Laboratory 1402-0 For Ministry lite Only: Laboratory. Resolts Authorizediby: Sample Field ID No. ADVERSE ANALYTICAL RESULTS - For Perameters Listed in SCHEDULE 4 and 5 or in a C of A or Order Coffected (M/D/Y) Sample Type Location Drinking Water Protection Regulation Parameter ()ccurrence Report #: Result Authorization Unte: Unit MAC Page Date of Analysis (M/D/Y) 1 Ø

PART 3: Ministry of the Environment

Minterter de f Environnament

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

Labormory Sample Sample Field ID No.	4	Date/Time Collected (MJD/Y)	Sample Type / Location	Membr Cov	Membrave Filtration Const/190ml		P-A/100ml Presumptive! Confirmed (if applicable)	RPC/	Date of Analysis (M/D/Y)
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Log for OCWA Chesterville 1 613 448-1616 Jan 10 2003 1:32pm

Last Transaction

<u>Date</u>	<u>Time</u>	<u>Type</u>	Identification	<u>Duration</u>	<u>Pages</u>	Result
Jan 10	1:32pm	Fax Sent	18002686061	0:50	3	OK



Ministry of the Environment

113 Amelia Street

Comwalt ON K6H 3P1

FAX COVER SHEET

Ministère de l'Environnement

113 rue Amelia Comwall (Ontario) K6H 3P1

(613) 933-7402 Fax: (613) 933-6402

(613) 933-7402 Télécopisur: (613) 933-6402

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OCWA	RHEAL DELAQUIS			5			
COMMENTS AWQE - De	sormenly site J	AN6/	oz_ 41	18-1616			
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COMMENTS							
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COMMENTS			•	·			



Incident Summary:

(A)	Ontario
the Contraction	

Contact Name:		Name of Company:	
First Name Last Nam Michelle Jansen		OMAF Meat Inspection Division	- Guelph
Contact Mailing Address	design etter signer sterrer freder sterrer freder sterrer freder sterrer freder sterrer freder sterrer freder s	and anti-product is the second composition and is a second control of the composition in the first of the first of the second control of the second contro	
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Delivery Designator:	k yayakkitinin dagaa sahkuu saasakitaa siirramaataankayaree 166 - 15 Maakii minadaayaya yii 11 Ti saakuu	and the contract of the contra	Delivery Identifier:
Municipality:	Postal Station:	Province/State:	Postal Code:
North Stormont	ستنسب دفيات سنتشمص بالا دام ميدوفون درومهروا الارميان	Ontario	
Telephone Number: 519)826-3725	Extension:	Fax Number:	Email Address:
IOE Information			
Date & Time Reported to MOE: Office Receiving incident Report:	2003/01/09: 15:05 Cornwall Area Office	A A Balla (Brand Agail) (Calibra).	and the second s
ncident info Received By:	Rheal R. Delequis		
IOE Response:	Not Determined	Site's MOE Region:	Eastern Region
rate & Time of MOE Arrival at icene:			
laster Incident Report Number:		and the second section of the second section of the second section of the second section of the second section	The second of th
IAC Action Class:		و موسود و مساوره و مس	
ion-Standard Procedure (ERP):	O Yes No	ERP Name:	
RP Call-out Date:		ERP Call out Time:	The same of the sa
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Information and server	St. Art St. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	STATES OF THE ST	HANGE THE PARTY OF
Ontario Clean Water Agency failing Address: P.O. Box 460 Ch Physical Address: 5 Industrial Driv elephone: (613)448-3098, FAX: (Client #: 0905-5HMSDW, Client Ty	e,, Ontario, Canada (613)448-1616	Chesterville, Ontario, Canada, KOC 1H0	
ite(s)			-
Information Treatment Plant	•	nited Counties of Stormont, Dundas & G	lengarry

Elevated HPC count in water supply

pagalangan ga 1940 ka sa 1940 ka na na 1940 ka na na na na na na na na na na na na na		cannot be longer than 50 ch	- 14 trapid.					
Incident Descript	tion;	Caller reported that a water on January 6, 2003 during to count of 1380. Caller indica- have the MOE works number	Sarriple we Ne course Ned that S	of his lines	ection. An a	dyerse w	ater result was	reported wi
		Contacted the OCWA 0-Bal (220008049) and also confir the Catholic school, located	med that v	veter san	were co	lected by	the agency o	i the same o
		the meat shop. Chlorine ret MOE that resample could be	iduals we	e 1.02 ar	d 0.92 free d	hionne re	spectively. Of	CWA was ad
		the meat shop or adjecent to	the meal	apob ou	the same dis	ribution I	ne. Ne.	HUMBER COM
		Caller was contacted and pr	ovided wil	n the abo	ve informatio	1.		
Attachments:	The second substitution of the substitution of the second substitution of t					 -		
Date of Incident:		2003/01/06	Th	ne of Inc	ident:		15:38	
Sector/Source Ty					<u></u>			
Neurost Waterco		ļ	Į W	Mershed	Category Co	de:	†	
Environmental im	ipact:							
Nature of Impact:								
incident Cause:			inc	ident Re	eson:			
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JAN 09 2003 16:19 FR MOEE CORNWALL

613 **9**33 6402 TO 16134481616

P.04/05

Waste Management System Client :	Waste Management System
Name (Carrier):	CofA No (Carrier):

Reference Number:	5715-5HM887	File Storage Number:	SISTFI530
:Module:	Incident Reporting	Module Type:	Other - Drinking Water Monitoring Exceedance
Cross Reference:	(doc fink)	Task Link:	0388-5HMSAK 🖺
Created by:	Rheal R. Delaquis		The state of the s
Date Created:	2003/01/09	Data Completed:	
Bring Forward Date:		Bring Forward Resson:	
Status:	Recommended		
Program	Water - Communal	Activity	Pollution Incident Reports (ORIS)

District Provincial Officer:

Name:

Rheal R. Delaquis

Badge No: Work Unit:

591

Abatement

District Office:

Comwall Area Office 2003/01/09

Date:

Signature:

District Supervisor:

Name:

Work Unit:

District Office:

Date:

Signature:

Log for OCWA Chesterville 1 613 448-1616 Jan 10 2003 9:28am

Last Transaction

<u>Date</u>	<u>Time</u>	Type	Identification	Duration	<u>Pages</u>	Result
Jan 10	9:22am	Fax Sent	16139337930	5:52	8	OK

Log for OCWA Chesterville 1 613 448-1616 Jan 10 2003 9:20am

Last Transaction

<u>Date</u>	<u>Time</u>	<u>Type</u>	<u>Identification</u>	Duration	<u>Pages</u>	Result
Jan 10	9:18am	Fax Sent	18002686061	1:59	8	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 CORNWELL
Company	MOE Cornwell Rheal Delaquis
Fax Number	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
From	Dave Markell
Date	Jon 16/03
Number of Pages	(including this page)
Subject	Crysler Water.
Rheal,	find attached the results Jan 13/03 becti samples for The Dist SPS is directly
of the	Jan 13/03 becti samples for
Crysler	. The Dist SPS is directly
across	the street from Desormeaux
Abattio	

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Client

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markeil

Certificate of Analysis

Report:

230000448

Project:

Crysler WTP

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

Date Printed:

January 16, 2003

Matrix:

Drinking Water

Parameter	Unit	MDL	Sample Identificati	on		
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Satellite
Total Chlorine	mg/L	0.05		1.26	1.14	1.00
Free Chlorine	mg/L	0.05	•	1.18	1.04	0.90
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	26	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories 2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada Tel: (613)526-0123, Fax: (613)526-1244

Krystyna Pipin, Laboratory Supervisor

S • 9

913-258-1544

Caduceon Env. Labs.

q15:60 60 81 nst

Log for OCWA Chesterville 1 613 448-1616 Jan 16 2003 3:34pm

Last Transaction

DateTimeTypeIdentificationDurationPagesResultJan 163:34pmFax Sent1 613 933-64020:302OK



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 (6/3)933-7930 1800 268 6061
From BLAIR HONDERSON
Date <u>AU608/03</u>
Number of Pages (including this page)
Subject ADVENSE WATER QUALITY
WORK'S # 220008649
CRYSLER WIF - TREATED WATER
HPC>500 T.COLI-41 E.COLI-41
DISINFATED TAPS AT SAMPLE POINTS
& FLUSHED TAPS.
RE-SAMPLED C CIRYSIAN WIF &
C. CRYSIER WARN TOWER.
ENSURED CHLORINE FREE RESIDUAL
GREGAR THAN 0,5 mg/l
Grigner Han 0,5 mg/l Stair He.

♥ Ontario

Ministry of the Ministère de Endreament l'Environnement

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 1 - WRITTEN NOTICE BY LABORATORY

Indicators of Adverse Micro / Exceeds Standard Phys/Cl	Radiological Exceeds Standard						
Water Quality	CofA/Order Exceeds Limit						
Oral Notification to SPILLS ACTION CENTRE							
Person Contacted: Ruan.	Date: 08/08/03 Time: 1:15pm						
Person Notifying: Andrea Schneider	AWQI Notification No (s) 13910						
Laboratory Name: Gaduceon 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						
Crysler	Ontario Clean Water Agency						
DWS (Waterworks) # 220008649	Name Daye Markell						
Location 15/042 County Rd 13.	Position						
Telephone # of Waterworks (613) 448-3098	Phone # (613)448-3098 Fax # (613)448-1616						
Oral Natification to Drinking-Water System Owner	Oral Notification to Local Medical Officer of Health						
Person Contacted Blair Henderson.	Person Contacted Ivene . Marchand						
Position Officer Manager.	Position Admin Assistant.						
Date 08/08/03 Time 1:00pm	Date 08/08/03 Time 1:10pm.						
Laboratory Written Notification Prepared by: (Lab Results must be attached using Section 3 of this form) Andrea Schneider							
Signature Allchar Schneich	Date 08/08/03						
For Ministry Use Only:	Report No.						

Notice of Adverse Test Results and Other Problems
Notice of Issue Resolution at Drinking Water Systems (PIBS 4444E Version July 9, 2003)

(W) Ontario

Drinking-Water Systems Regulation O. Reg 170/03

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

Indicators of Adverse Water Quality	Misso Preside Standard		Rudiolog	ical Exceeds Stundard
Marci Amplity	Micro Exceeds Standard	Phys/Ch	CefA/Or	der Exceeds Limit
	Water Quality (operational / or associated lab notification		Details:	
Oral Notification to SP	ILLS ACTION CENTRE			
Date AUG 8/0:	3 Time / 3: 37	AWQI Noti	ification No (s) 13910	
Bowen Costanted	LA WYKE	-	DWS EMERGENCY CONTACT	
DIVO Manage	SLER WIF		Name SLAIR HENDE	2500
	220008649		Position PERATIONS INF	MAGER
DWS Person Providing			Phone # (6/3) 448 - 3098	Fax # (2/3 449-16/6
	EDICAL OFFICER OF HEA		CORRECTIVE ACTION(S) TAKE	N BY OWNER:
Date A/16 8/0	Time /3.56 /4	IZS RU	Resample/Re-test	ØYes □No
Person Contacted Ch	AUDETTE KARO	SE-	Disinfectant Restored/Increased	□Yes□No
(Sickett	***		Flushing Mains/Pipes	☐Ycs☐No
Position RECEP	TIONIST		Users Advised to Boll/Seck Alternate	☐Yes ☐No
	7120 Hax # (613) 933-	7930	OTHER - Describe:	
DWS Person Providing	Oral Notification			
Initial DWS Notificatio	FONDERS ON a Prepared by: BLAIR,	// -	Other information attached	
Signature // -	SKAIR	HENDE	Date / N/2 72	
Bleur	Hude		Date AUGUST 08/03	
SECTION 2 (b) - N	OTICE OF ISSUE RESOLU	TION – Se	ret. 16-9 O Reg. 170/03	
Date Resolved:		Date Resc	olution Notice Provided:	
Summary of Action Ta	ken and Results Achieved (in	clude test r	esults showing water quality is no longe	er adverse)
Prepared By:	Şi	ignature:		Date:
For Ministry Use Only	:		Report No.	

Notice of Adverse Test Results and Other Problems Page 3 of 4 Notice of Issue Resolution at Drinking Water Systems (PIBS 4444E Version July 9, 2003)

(8)	Ontario
-----	---------

Drinking-Water Systems Regulation O. Reg 170/03

SECTION 3:

ADVERSE ANALYTICAL RESULTS

For Indicators Listed in - Drinking-Water Systems Regulation

Microbiological Testing

AWQI 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	Date - Plates Prepared (M/D/Y)	Date - Plates Read (M/D/Y)	Date - Data Approved (M/D/Y)
No.					Total Colforms	TC Back- ground	E. coli /					
13910	B03-6434-2		05/08/03	Treated	0		0	-	>500	06/08/03	08/08/33	08/08/03
									ļ }			
									ļ			<u> </u>

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

Physical/Chemical/Radiological Testing

	DWIS Lab Sample ID No.	DWIS Sample Field ID No.	Date/Time Sample Collected (M/D/Y)	DWIS Sample Type , Location Identifier	Parameter	Result	Unit of Measure	Standard	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)
						1				
						1				
Results Authorized By: Andrea Schneider					Authorization Date: 08/08/03					
For Ministry Use Only:					Report No.:					

Notice of Adverse Test Results and Other Problems Notice of Issue Resolution at Drinking Water Systems (FIBS 4444E Version July 9, 2003) Page 4 of 4



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6484

Rev. 1

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 06-Aug-03

DATE REPORTED: 08-Aug-03
SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

JOB/PAOJECT NO.:

P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter: Units: MDL: Reference Method:		Total Coliform	Background	E coli	Heterotrophic Plate Count		
			cts/100mL	cts/100mL	cts/100mL	cts/1mL	mg/L	
			1	1	1	2]	
			MOE E3371	MOE E3371	MOE E3371	MOE E3371	n/a	
	Date Analyzed:		06-Aug-03	06-Aug-03	06-Aug-03	06-Aug-03	00-Aug-00	
Client I.D.	Sample I.D.	Date Collected						
Well #1 Raw	B03-6484-1	05-Aug-03	<1	9	< 1			
Well #1Treated - 15642 County Rd 13	B03-6484-2	05-Aug-03	<1		<1	> 500	2.28	
Dist.Post Office	B03-6484-3	05-Aug-03	<1	••	< 1	< 2	1.24	
Dist, S.P.S	B03-6484-4	05-Aug-03	< 1		< 1		1.40	

MDL = Method Detection Limit

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

The enalytical 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.

Krystyna Pipin, M. Sc. Lab Supervisor

Log for OCWA 613 448-1616 Aug 08 2003 4:02pm

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1.20	Transa	16:114711
		4 4 4 4 A A

DateTimeTypeIdentificationDurationPagesResultAug 8 4:01pmFax Sent180026860611:115OK

Log for OCWA 613 448-1616 Aug 08 2003 3:53pm

Last Transaction

<u>Date</u>	<u>Time</u>	<u>Type</u>	Identification	Duration	<u>Pages</u>	Result
Aug 8	3:51pm	Fax Sent	16139337930	1:58	5	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	ELIZABETH CHOPP
Company	-OcuA
Fax Number	<u>416) 314-5455</u>
From	BLAIR HERDENSON
Date	AUGO8/03
Number of Pages	(including this page)
Subject	ADVONSE WATER QUALITY
1128574	
ATTACE	WED ARE THEY WRITTEN NOTIFICATION
_	OH & MOE - / HAVE
	MARC ETHOEN.
Mny 1	DUBTIONS PLOASE CALL
613	-448-3098
	Blair
Cryst	en wTF+ Kemptwelle agro. Bldg

Log for OCWA 613 448-1616 Aug 08 2003 4:14pm

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Date Time Type Identification Duration Pages Result

Aug 8 4:10pm Fax Sent 14163145455 4:00 11 OK

Log for OCWA 613 448-1616 Aug 08 2003 4:17pm

Last Transaction

DateTimeTypeIdentificationDurationPagesResultAug 84:15pmFax Sent161396974522:0311OK



Chesterville Hub

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

Tal. (613) 448-3098

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

Fax

То	CINDY
Company	Occup
Fax Number	BLAIR HENDERSON
From	Blank Hensenson
Date	Auc 8/03.
Number of Pages	(including this page)
Subject	ADVERSE WATER
Crysl	Kemptnille Agroforety Bldg.
ORC	Kemptwille Agroforety Bldg.
Any	questions sleave call 448-3048
	Alan.
	Star



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6484

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 06-Aug-03

DATE REPORTED: 08-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:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter: Unite: MDL: Reference Method:		Total Coliform	Background	Heterotrophic Plate Count	Free Chlorine	_
			cts/100mL	1 MOE E3371	otc/1mL 2 MOE E3371	mg/L	
						r/a	
			MOE E3371				
	Date Analyzed:		06-Aug-03	06-Aug-03	06-Aug-03	06-Aug-03	
Client I.D.	Sample I.D.	Date Collected					
Well #1 Raw	B03-6484-1	05-Aug-03	< 1	9	••		
Well #1Treated - 15642 County Hd 13	B03-6484-2	05-Aug-03	< 1	••	> 500	2.28	.,
Dist.Post Office	B03-6484-3	05-Aug-03	< 1		< 2	1.24	
Dist. S.P.S	B03-6484-4	05-Aug-03	<1	==		1.40	

Krystyna Pipln, 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 campioc ac 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.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6751

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0

Attention: Dave Markell

DATE SUBMITTED: 08-Aug-03

DATE REPORTED: 11-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 520-0123 Fax 528-1244

JUB/PROJECT NO .:

P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:		Total Coliform	E coli	Heterotrophic Plate Count	Free Chiorine
	Units: MDL: Reference Method: Date Analyzed:		cts/100mL	cts/100mL 1 MOE E3371 08-Aug-03	cts/1ml. 2 MOE E3371 08-Aug 03	mg/L
						r/a
						08-Aug-03
Client I.D.	Sample I.D.	Date Collected				
Welli #1 Treated - 15642 County Road 13, Crysler	B03-6751-1	08-Aug-03	<1	<1	14	1.48
Water Tower	B03-6751-2	08-Aug-03	<1	< 1	<2	1.23

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 order written consent from Caduceon Environmental Laboratories.



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6752

Rev. 3

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON KOC 1H0
Attention: Dave Markell

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123 Fax 526-1244

DATE SUBMITTED: 09-Aug-03

DATE REPORTED: 12-Aug-03
SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO .:

P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter:		Total Collform	E coli	Heterotrophic Plate Count	Free Chlorine
	Units:		cts/100mL	cts/100mL	cts/1mL	mg/L
	MDL:		1	1	2	
	Reference Method: Date Analyzed:		MOE E3371 09-Aug-03	MOE E3371	MOE E3371 09-Aug-03	n/a
·						09-Aug-03
Client I.D.	Sample I.D.	Date Collected				
Weil #1 Treated - 15642 County Road 13, Crysler	B03-6752-1	09-Aug-03	< 1	<1	< 2	1.21
Orysler Water Tower	B03-6752-2	00 Aug 03	< 1	< 1	<2	1.65

Krystyna Pipin, M. Sc. Lab Supervisor

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

The analytical results reported basein 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.



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 MOIT
Company	
Fax Number	300-263 6061 613-533-7930
From	Dave Markell
Date	Aug. 13/03.
Number of Pages	(including this page)
Subject	Crysler Adverse Wester
- Az Per	Sched. 16-9 of regulations
Notice	of issue resolution.
- Works #	220008649
	report of Aug 8/03
- find	attached follow-up resamples
and	Section 2(b) of written Notice
of Issue	e resolution.
	Mul

Ontario

Miniplry of the Annistana out

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/C	Radiological Exceeds Standard	Exceeds Stundard
- Fays		Exceeds Limit
Indicator of Adverse Water Quality (operational / on-site observations or test result; no associated lab notification)	Details:	
Oral Notification to SPILLS ACTION CENTRE		
Date Aug 8/03 Time / 3: 37 AWQI No	otification No (s) 13 910	
Person Consected MICHAELA WYKE	DWS EMERGENCY CONTACT	
DWS Name CRYSLER WTP	Name SLAIR HENDENS	s.
DWS (Waterworks) # 220008649	Position DENATIONS /AANA	2/22
DWS Person Providing Oral Notification BLAIR HONDONSON	Position OPERATIONS IN ANA Phone # 46/3) 448-3098 Fax #	413 448-1616
Oral Notification to MEDICAL OFFICER OF HEALTH	CORRECTIVE ACTION(S) TAKEN BY	
Date A116 8/03 Time 1356 HES R	Resample/Re-test	ØYes □ No
Person Contacted CLAUDETTE LAROSE	Disinfectant Restored/ Incressed	□Yes□No
(Sicht Francy)	Flushing Mains/Pipes	□Yes□No
Position RECEPTIONIST	Users Advised to Boll/Seck Alternate	☐Yes ☐No
Phone # (800) 267-7/20 Kex # (6/3) 933-7930	OTHER - Describe:	
DWS Person Providing Oral Notification		
Initial DWS Notification Prepared by: BLAIR HEND	Other information strached	
Signature Slein Hundr	Date AUGUST 08/03	
SECTION 2 (b) - NOTICE OF ISSUE RESOLUTION - S	,	
	olution Notice Provided:	
Summary of Action Taken and Results Achieved (include test		se)
Treated wester at plant (orisinal problem) and	-
treated at water tower	(downstream) resimples	1 twice
all results good. All san	mie taps dissinfect	ed.
Prepared By: Dave Markell Signature:	Dave Nortell Dage: An	× 13/03
For Ministry Use Only:	Report No.	

Notice of Adverse Test Results and Other Problems

Page 3 of 4

Notice of Issue Resolution at Drinking Water Systems (PIBS 4444E Version July 9, 2003)



(Division of Caduceon Enterprises Inc.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6751

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON K0C 1H0
Attention: Dave Markell

DATE SUBMITTED: 08-Aug-03

DATE REPORTED: 11-Aug-03

SAMPLE MATRIX: Drinking Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 526-0123

Fax 526-1244

JUB/PROJECT NO .:

P.O. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter: Units: MDL: Reference Method: Date Analyzed:		1 MOE E3371 M	E coli cts/100mL 1 MOE E3371 08-Aug-03	Heterotrophic Plate Count cts/1 ml. 2 MOE E3371 08-Aug 03	Free Chlorine	
						mg/L	
						n/a	
						08-Aug-03	
Client I.D.	Sample I.D.	Date Collected					
Welli #1 Treated - 15642 County Road 13, Crysler	B03-6751-1	08-Aug-03	<1	<1	14	1.48	
Water Tower	B03-6751-2	08-Aug-03	< 1	<1	<2	1.23	

Krystyna Pipin, M. Sc. Lab Supervisor

MDL = Method Detection Limit

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The employed 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.)

CERTIFICATE OF ANALYSIS Final Report

REPORT No. B03-6752

Rev. 3

Report To:

Ontario Clean Water Agency - Crysler

5 Industrial Dr

Chesterville ON KOC 1H0
Attention: Dave Markell

DATE SUBMITTED: 09-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.Q. NUMBER:

Crysler WTP

WATERWORKS NO. 220008649

	Parameter: Units: MDL: Reference Method: Date Analyzed:		Total Collform	E coli	Heterotrophic Plate Count	Free Chlorine	
			cts/100mL	cts/100mL 1 MOE E3371 U9-Aug-U3	cts/1mL 2 MOE E3371 U9-Aug-03	n/a 09-Aug-03	
			1				
			MOE E3371 09-Aug-03				
Client I.D.	Sample I.D.	Date Collected					
Well #1 Treated - 15642 County Road 13, Crysler	B03-6752-1	09-Aug-03	<1	<1	<2	1.21	
Crysler Water Tower	B03-6752-2	00 Aug 03	< 1	< 1	< 2	1.65	

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.

Log for OCWA 613 448-1616 Aug 13 2003 10:45am

Last Transaction

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

Aug 13 10:43am Fax Sent 16139337930 1:32 4 OK

Log for OCWA 613 448-1616 Aug 13 2003 10:42am

Last Transaction

Date Time Type Identification Duration Pages Result

Aug 13 10:42am Fax Sent 18002686061 0:56 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	Dan A / Cindy S
Company	314-
Fax Number	46-314-5455 613-969-7452
From	Deure Markell.
Date	Avg 13/07.
Number of Pages	(including this page)
Subject	Orycle Adverse of Aug. E
- Attack	ed Notice of Issue Resulution
sent	to mot mot prot
- bacti	results were attached to their
copy	
,	
	Jane.
1	

Log for OCWA 613 448-1616 Aug 13 2003 10:52am

Last Transaction

Date Time Type Identification Duration Pages Result

Aug 13 10:52am Fax Sent 16139697452 0:32 2 OK

HP OfficeJet K Series K80 Personal Printer/Fax/Copier/Scanner Log for OCWA 613 448-1616 Aug 13 2003 10:50am

Last Transaction

Date Time Type Identification Duration Pages Result

Aug 13 10:49am Fax Sent 14163145455 0:58 2 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

rax		
То	Jan Gransen	
Company	0 MOE	
Fax Number	(613)933-6402	
From	Blair Henderson	
Date	aug 1.5/03	
Number of Pages	(including this page)	
Subject	Crysler Water Aug 5/03 Resul	t.
	·	

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

Log for OCWA 613 448-1616 Aug 15 2003 1:18pm

Last Transaction

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

Aug 15 1:17pm Fax Sent 1 613 933-6402 0:32 2 OK

Crysler Water Treatment

	101չ 1, 2003	OCWA	Obtain approval to purchase from Municipality.	Purchase 2 new chlorine pumps.	8
	September 30, 2004			Engineers Report (2nd)	L
	July 1, 2003	Municipality/OCWA/Engined	blan.	Well head protection and delineation plan.	9
			After area study complete, develop site specific		
	1 year from construction.	Fngineer	Engineer to provide	Instrumentation diagrams.	S
				As constructed drawings and Process	ĺ
	July 1, 2003	Munipality/Engineer	Engineer.	pump to waste.	Þ
			Municipality to purchase & install. Drwgs by	Install catch basin and discharge piping for	l
	Buibneq	Engineer/OCWA	drwgs.		
			Engineer to purchase equipment & provide		l
	July 1, 2003	Engineer/OCWA	dwgs.	Install flow meter on pump to waste line.	7
			Engineer to purchase equipment & provide		
	10ly 1, 2003	Engineer/OCWA	grwgs.	with auto switch over and spill containment.	l
			Engineer to purchase equipment & provide	Installation of Standby Sodium Hypochlorite tank	
RESOLVED	COMPLIANCE DATE	RESPONSIBILITY	АСТІОИ ЯЕQUІЯЕD	ISSUE	#

NOTIFICATION OF SODIUM EXCEEDANCE

Facility	Exceeds 20 mg/L	Notified MoH
Chesterville WTP	Yes	October 10, 2001
Winchester WTP	Yes	October 10, 2001
Moose Creek WTP	Yes	October 10, 2001
Finch WTP	Yes	October 10, 2001
Crysler	No	,

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.



FROM-

Ministry of the

Ministère

Environment

l'Environnement

Update

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.

Scott Burrows



MEMO

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 etrlinfo@kingston.net.

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

Sincerely,

Steve Garrett

Division of Caduceon Enterprises Inc.

133 Dellon Ave. Kingston, ON K7K 6C2 Tel: (813) 544-2001 Fax: (813) 544-2770 email: <u>etrickingston.nel</u>

05 March 2002

re: HPC reporting

To all drinking water clients:

You have probably already noticed the recent change we have made in reporting HPC results. Samples with no detection of HPC will now be reported as <10 cfu/mL. We recently changed our analysis protocol to incorporate 100 uL of sample instead of 1000 uL. This will allow us to more clearly identify and count plates at and above the objective of 500 cfu/mL. The ODWS objective for HPC is 500 cfu/mL so a results reported as <10 cfu/mL will be acceptable by the Ministry of the Environment.

I hope we have not caused any confusion with this recent change.

If you have any questions please do not hesitate to contact me at (613)544-2001.

Regard's

Steve Garrett Lab Manger

Attn: Bloin H. Dave M. Ministry of the Environment

Ministère de l'Environnement

Road 125, chemin Res

125 Resources Road Etobicoke ON M9P 3V8 125, chemin Resources Etobicoke ON M9P 3V5

Environmental Monitoring and Reporting Branch

RHEAL CHARBONNEAU CLERK 2 VICTORIA ST

2 VICTORIA ST. P.O. BOX 99 BERWICK ON KOC 1G0



April 2, 2001

To the Waterworks Owner:

Re: Water Works Owner User ID

Section 7 (5) of O. Reg. 459/00, the Drinking Water Protection Regulation, requires that the owner of a water treatment or distribution system submit notice of the identity of the laboratory conducting the analysis of their water samples to the ministry Director three working days prior to having that analysis carried out. This applies to the first time laboratory notification for new works or changes in laboratories being used for existing works.

A notice form entitled *Notification of Laboratory Services Provided to Water Works* was initially made available to works owners to satisfy this requirement on the Ministry's internet site http://www.ene.gov.on.ca/envision/WaterReg/Pibs4062.pdf). Information originally submitted on this form is now accessible over the internet through the Drinking Water Web Site (DWWS). The use of this web site will allow owners to promptly notify the Ministry on-line, of all future laboratory notifications. The internet address for DWWS is www.environet.gov.on.ca.

Water works owners require a User ID and password for each of their water works to access plant specific laboratory notification information in DWWS. A listing of the User IDs for each of your water works is provided below.

For security purposes the password for each of your works will be mailed in a separate letter. The provision to change your User ID and password online is now available and the Ministry is presently working on a system to allow water works owners to consolidate all their water works under one User ID and password.

(Over)



Thank you for your attention to this matter. If you have any questions regarding access to the web site, please call toll free 1-800-440-6389 or e-mail at service.desk@omafra.gov.on.ca.

Ed Piché, Director

CC: Jim MacLean, ADM, Environmental Sciences and Standards Bern Schnyder, Laboratory Services Branch

User ID	WorksNumber	WorksName
W220008649	220008649	CRYSLER WELL SUPPLY
W210003912	210003912	FINCH WELL SUPPLY
W220008033	220008033	MOOSE CREEK WELL SUPPLY

411

. 25.

Ministry of the Environment Ministère de l'Environnement

125 Resources Road Etobicoke ON MeP 3V6 125, chemin Resources Etobicoke ON M9P 3V6

Environmental Monitoring and Reporting Branch

RHEAL CHARBONNEAU CLERK 2 VICTORIA ST. P.O. BOX 99 BERWICK ON KOC 1GO



April 10, 2001

AH. Blain H.

To the Waterworks Owner:

Re: Water Works Owner Passwords

This is a follow up to the previous letter of April 2, 2001 providing you with the User ID for your waterworks.

Section 7 (5) of O. Reg. 459/00, the Drinking Water Protection Regulation, requires that the owner of a water treatment or distribution system submit notice of the identity of the laboratory conducting the analysis of their water samples to the ministry Director three working days prior to having that analysis carried out. This applies to the first time laboratory notification for new works or changes in laboratories being used for existing works.

A notice form entitled *Notification of Laboratory Services Provided to Water Works* was initially made available to works owners to satisfy this requirement on the Ministry's internet site http://www.ene.gov.on.ca/envision/WaterReg/Pibs4062.pdf). Information originally submitted on this form is now accessible over the internet through the Drinking Water Web Site (DWWS). The use of this web site will allow owners to promptly notify the Ministry on-line, of all future laboratory notifications. The internet address for DWWS is www.environet.gov.on.ca.

Water works owners require a User ID and password for each of their water works to access plant specific laboratory notification information in DWWS. A listing of the passwords for each of your water works is provided below.

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(over)



Thank you for your attention to this matter. If you have any questions regarding access to the web site, please call toll free 1-800-440-6389 or e-mail at service.desk@omafra.gov.on.ca.

AM-

Ed Piché, Director

cc: Jim MacLean, ADM, Environmental Sciences and Standards Bern Schnyder, Laboratory Services Branch

Password	WorksNumber	WorksName
W220008649	220008649	CRYSLER WELL SUPPLY
W210003912	210003912	FINCH WELL SUPPLY
W220008033	220008033	MOOSE CREEK WELL SUPPLY

Becorded Vote	208	AGATMS7
exerco Ir	hu Bun	
Declaration of Conflict	Skairman ef I-dorest	Chairman
•		Disclosed his/how/their intonest.
	,	U Vacaled his/how/their seat.
		Abstained from discussion and did not vole on the guestion.
		Ol-6



March 26, 2003

Chesterville Hub 5 Industrial Drive Chesterville, Ontario K0C 1H0

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

Township of North Stormont P.O. Box 99 2 Victoria Street Berwick, Ontario K0C 1G0

Attention: Rheal Charbonneau and Council

Dear Rheal and Council:

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

Attached please find the Annual Compliance Report for the Crysler 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 # 0088-5E4QN4.

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 Stormont 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 C of 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.



Page 2 March 26, 2003

Township of North Stormont

SUBJECT: Crysler 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.

Chry Montan

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

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.

c.c. John Kingsbury, Client Services Representative, Chesterville Hub, OCWA A stipulation of the Crysler Water Treatment Plant Certificate of Approval #0088-5E4QN4 requires the Owner prepare an Annual Report detailing compliance with all Terms and Conditions of the Certificate of Approval.

A brief description of the <u>Terms and Conditions</u> of the Certificate of Approval Number **0088-5E4QN4** 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

Crysler Water Treatment Facility

for the year

2002

prepared for the Township of North Stormont by the Ontario Clean Water Agency

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

The Annual Compliance Report for the Crysler 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) # 0088-5E4QN4, 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 Crysler Water Treatment Facility.

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

Conditions 1.1 through 1.5: Performance

Condition 1.1 The Crysler 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 # 0088-5E4QN4.

- Condition 1.2 (a) F
 - (a) Permit To Take Water #93-P-4006; Expiry Date February 28, 2003
 - (b) Should maximum total flow rate exceed the rate specified in PTTW # 93-P-4006, an application for amendment will be submitted.

Condition 1.3 The Crysler water treatment plant is operated to treat water at a rate not exceeding the maximum flow rate of 1170 L/min (1684.8 m³/day) (total).

- 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 1,170 L/min (1684.8 m³/day) (total).

<u>Condition 1.5</u> The disinfection facilities in the Crysler 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.

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;

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.

<u>Condition 2.1(e)(ii)</u> 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.

<u>Condition 2.1(e)(iii)</u> A fluoride 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 manufacturer's instructions.

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

<u>Condition 2.1(q)</u> 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.

Crysler 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 River 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 Crysler 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)

<u>Condition 3.8</u> - 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.

Condition 3.13 - 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 complaint 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 of issue of this Certificate to the end of the calendar year in which the Certificate is issued 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.

<u>Condition 4.1(d)</u> 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) A hydrogeological study was undertaken to establish whether or not the groundwater source is under the direct influence of surface water. The results of this assessment indicate that there is effective in situ filtration for the Crysler well water supply. As previously noted in the WESA GUDI report, the well site neighbours an expanding sand and gravel pit operation that may potentially reduce the current level of in situ filtration. Consequently, long term monitoring of the impact on in situ filtration by the sand and gravel pit is necessary.

The Municipality, in conjunction with the Raisin River 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 5.2</u> By July 1, 2003, the Municipality shall implement the following physical improvements to the works, in keeping with recommendations of the Engineer's Report and related correspondence:

- (a) All works and measures necessary to meet the requirements of Procedure B13-3
- (b) All works and measures necessary to ensure the effective treatment and integrity of the works, including but not limited to:
 - (i) stand-by hypochlorite solution storage tank with automatic switch-over when connected tank is empty or alternative approved by the Ministry. To address this condition, the Municipality has contracted Genivar Consulting Group to ensure the installation of a stand-by hypochlorite solution storage tank with automatic switch-over.

Condition 5.3 Genivar Consulting Group has submitted 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 5.2 above.

<u>Condition 5.4</u> The Municipality has obtained approval from the Ministry of the Environment to implement the upgrades stipulated in Condition 5.2 above, which are anticipated to be completed by July 1, 2003.

Crysler 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 September 30, 2004, 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 C of As

All previous water treatment facility Certificates of Approval have been replaced with C of A # 0088-5E4QN4.

Any works Certificate of Approval which are not subject to C of A # 0088-5E4QN4 remain in force. (i.e., distribution system or its portion including distribution storage facilities not associated with a water treatment process)

Crysler 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.

Crysler 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) There was no address change for the Owner or Operating Authority in 2002.
 - (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

Condition 9.3 There were no communications with the Ministry relating to Conditions 9.1 and 9.2.

Condition 10: Interpretation (Severability and Conflicts)

<u>Condition 10.1</u> 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.

Crysler 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 Crysler Water Treatment Facility is from a groundwater source. The Crysler 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 Crysler 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.

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

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. Genivar Consulting Group has been contracted by the Municipality of North Stormont to implement this work.

<u>Condition 2.1(c)</u>: 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. Genivar Consulting Group has been contracted by the Municipality of North Stormont 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. Genivar Consulting Group has been contracted by the Municipality of North Stormont to implement this work.

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

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

On August 26, 2002, a treated water sample from Well # 1 was found to exceed the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. Well # 1 treated water exceeded MAC for Heterotrophic Plate Count with a result of 600/ml. The Ministry of Environment and the Ministry of Health were immediately notified as per the Ontario Drinking Water Standards. There was a minimum chlorine residual in the distribution system of greater than 0.2 mg/L. Subsequent re-sampling indicated no adverse results.

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

In accordance with C of A 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 Crysler WTF is 1684.8 m³/day (1,170 L/min). The monthly average flow for the reporting period was 215 m³/day, and the maximum daily flow for the reporting period was 419 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 C of A Condition 4(c)(iv), attached 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>C of A 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 Crysler Water Treatment Facility during the reporting period along with the corresponding treated water flows.

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

- 1. <u>Hydrofluosilicic Acid</u> Hydrofluosilicic Acid with a concentration of approximately 25% is used for the fluoridation system. It is fed up to a single injection point located in the water pumping station. Fluoride levels are measured at the outlet of the pumping station through the use of a continuous fluoride analyzer, which provides a digital readout. Normal operations require a fluoride level between 0.5 and 0.8 mg/L leaving the pumping station. The chemical dosage range is 0.4 to 0.53 mg/L
- 2. <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 1.32 to 1.92 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 3.0 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

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

Approved by: Blair Henderson

Crysler 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** the 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.

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

Approved by: Blair Henderson

Crysler 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: March 25, 2003

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

Approved by: Blair Henderson

Crysler 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

ONTARIO CLEAN WATER AGENCY



ENVIRONMENTAL CONTINGENCY PLAN

Updated by: Dave Markell

Approved by: Blair Henderson

Crysler 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.

<u>APPENDIX II</u>

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:		•
NOTE: If there were multip complaint and note the num	le complaints, provide the name o ber and details in the "Descriptio	If the person who filed the initial n" field below
Date of Complaint:	03/19/2003	
Time of Complaint:	11:35:13 AM	•
ature of Complaint		
☐ Noise	☐ Water Supply Taste/Colo	our Water Pressure/No Water
☐ Visual	Service Problem	☐ Basement Flooding
Odour	Sludge Related	
Other:		
Description:	·	
Action taken in response:		
Was the source of the prob	olem identified?: ① Yes ① No	
-	facility/activity?: Yes No	If "Yes", describe:
mas the source an OCWA	racinty/activity:	ii ies , describe.
<u> </u>		

Comments:

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

APPENDIX III

Annual Summary of Raw Water Flows

Ministry Of The Environment
Ministère de l'Environnement

SANK MINISTRATION . . .

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

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

Year: 2002 Année				Permit No.: N° de permis	93-P-4006		
Source: Ground	lwater Well #1						
Name of Permittee: Nom du titulaire du pe	TOWNSHIP OF F	INCH (CRYSLER)					
Mailing Address: Adresse postale	O.C.W.A. 5 INDU	STRIAL DRIVE CHE	STERVILLE , ON	K0C1H0)		
Location Of Taking: Lieu de la prise d'eau 15642 COUNTY		Twp. or Municipality Canton ou municipality TOWNSHIP OF		NT	Concession: CON.'9	Lot: LOT 20	
Date Of Taking Date de la prise d'eau	Hours Of Taking Heure	Rate Of Taking Litres/sec Débit de prise d'eau	Amount Of Taking ṁ ³ Volume des prises		n Rate of Taking m ³ /day vement maximum	Remarks Observations	
JAN	89.50	17.47	5,616		211		
FEB	85.80	17.18	5,306		216		
MAR	92.60	17.55	5,838		215		
APR	98.10	17.31	6,106		363		
MAY	105.60	17.59	6,673		363		
JUN	100.50	17.82	6,443		236		
JUL	108.00	17.98	6,985		267		
AUG	116.30	17.81	7,457		288		
SEP	115.30	17.67	. 7,330		309		
ост	114.20	17.69	7,255		419		
NOV	102.10	17.78	6,529		269		
DEC	109.00	17.77	6,967		290		

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

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

Signature

Date

Sin Hereby fan 07/03

APPENDIX IV

Raw, Treated, & Distribution Analytical Results.

ONTARIO CLEAN WATER AGENCY WATER PLANT PERFORMANCE ASSESSMENT REPORT

MUNICIPALITY:

TOWNSHIP OF NORTH STORMONT

PROJECT:

CRYSLER WATER SUPPLY

PROJ. NUM.: WORKS NUM.: 7-0719 220008649 YEAR:

2002

WATER SOURCE: DESIGN CAP.:

GROUNDWATER

1.685 X 1000 m3/d

DESCRIPTION:

Two deep wells equipped with submersible pumps capable of delivering 19.5 L/s, a sodium hypochlorination

disinfection system, fluoride feed/injection system, and an elevated storage tank.

MONTH	SYSTE	M FLOWS (T	REATED)	HEALTH F	RELATED PA	RAMETERS	D	ISINFECTIO	N	BACTI (II	NDICATE NO	OF SAME	PLES)	RAW \	WATER
	TOTAL	AVG DAY	MAX DAY	AVG	AVG	AVG	AVG.FREE	AVG. TOT.	MIN. FREE	E.C. / T.C. N	lot Detected	E.C. / T.C	. Detected		
	FLOW	FLOW	FLOW	TURB.	SODIUM	FLUORIDE	CL2 RESID	CL2 RESID	CL2 RESID	HPC	< 500	HPC	>500	E.COLI.	E.COLI.
	1000 m3	1000 m3	1000 m3	(NTU)	(mg/l)	Resid.(mg/L)	Treated (mg/l)	Treated (mg/l)	Distrib. (mg/l)	TREAT	DIST	TREAT	DIST	ABSENT	PRESENT
JAN	5.616	0.181	0.211	0.06	4.00	0.53	1.22	1.54	0.60	15	25	0	0	5	0
FEB	5.306	0.190	0.216	0.07		0.54	1.07	1.37	1.00	12	20	0	0	4	0
MAR	5.838	0.188	0.215	0.08		0.53	1.17	1.43	1.00	12	20	0	0	4	0
APR	6.106	0.204	0.363	0.08		0.64	1.20	1.69	1.00	15	25	0	0	5	0
MAY	6.673	0.215	0.363	0.06		0.60	1.44	1.66	0.80	12	20	0	0	6	0
JUN	6.443	0.215	0.236	0.07		0.59	1.41	1.48	0.70	12	20	0	0	4	0
JUL	6.985	0.225	0.267	0.06		0.66	1.29	1.42	08.0	15	25	0	0	5	0
AUG	7.457	0.241	0.288	0.05		0.68	1.37	1.14	0.60	17	26	1	0	6	0
SEP	7.330	0.244	0.309	0.05		0.66	1.01	1.11	0.57	15	25	0	0	5	0
OCT	7.255	0.234	0.419	0.05		0.64	1.06	1.11	0.51	12	20	0	0	4	0
NOV	6.529	0.218	0.269	0.08		0.67	0.92	1.08	0.61	12	20	0	0	4	0
DEC	6.967	0.225	0.290	0.04		0.60	1.00	1.01	0.59	15	25	0	0	5	0
TOTAL	78.51									164	271	1	0	57	0
AVG		0.215		0.06	4.00	0.61	1.18	1.3	0.7					i	
ИAX		L	0.419	0.08	4.00	0.68	1.44	1.69	0.51						
CRITERIA		0.675	1.685	1.00	20.00	1.20	4.00		0.05			,			

MEETS ODWS	YES YES YES YES YES YES YES	
COMMENTS:	FLUORIDE SYSTEM IN OPERATION, JULY 1997. AS OF AUGUST 27, 2000, THE TREATED WATER IS TO BE SAMPLED AS PER ODWS	
REMEDIAL ACTION:		
AUTION.		

Chemical Sampling Results

Table B: Volatile Organics

		Treated	C 4	MAG	13.61.6	
Parameters Parameters	Units	Water	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	1.6 - 3.4	<0.3 - 1.8			
Bromoform	ug/L	< 0.4	< 0.4			
Chloroform	ug/L	4.0 - 10.0	3.6 - 5.1			
Dibromochloromethane	ug/L	<0.3 - 1.6	<0.3 - 0.6			
TOTAL THMs	ug/L	6.1 - 15.0	4.4 - 7.5	100		

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

Table C: Inorganics

Parameters	Units	Treated Water	System	MAC	IMAC	AO
Arsenic	mg/L	<0.001			0.025	-
Barium	mg/L	0.08		1.0		
Boron	mg/L	< 0.05			5.0	
Cadmium	mg/L	< 0.0001		0.005		
Chromium (Total)	mg/L	0.002		0.05		
Copper	mg/L	0.037				1.0
Iron	mg/L	< 0.01				0.30
Lead	mg/L	< 0.001	< 0.001	10.0		
Manganese	mg/L	0.01				0.05
Mercury	mg/L	< 0.001		0.001		
Nitrite	mg/L	< 0.1		1.0		
Nitrate	mg/L	<0.1 - 0.65		10.0		
Selenium	mg/L	< 0.001		0.01		
Uranium	mg/L	< 0.001		0.10		
Fluoride	mg/L	0.5 - 0.8		1.50		
Sodium	mg/L	4				200.00
Colour	TCU					5.00

Table D: Pesticides & PCB

n	-	Treated	MAC	IMAC	AO
Parameters	Units	Water	MAC		_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	30.0		
2,4-Dichlorophenoxy acetic acid					
(2,4 - D)	ug/L	<1.0		100.0	
Diclofop-methyl	ug/L	< 0.90	9.0		
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		280.0	
Heptachlor + Heptachlor epoxide	ug/L	<0.012 - <0.3	3.0		
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		50.0	
Metribuzin	ug/L	< 5.0	80.0		
Paraquat	ug/L	<1.0		10.0	
Parathion	ug/L	<1.0	50.0		
Pentachlorophenol	ug/L	< 0.5	60.0		30.0
Phorate	ug/L	< 0.5		2.0	
Picloram	ug/L	< 5.0		190.0	
Polychlorinated Biphenyls	ug/L	<0.05 - <0.3		3.0	
Prometryne	ug/L	< 0.25		1.0	
Simazine	ug/L	<1.0		10.0	
remephos	ug/L	<10		280.0	
Terbufos	ug/L	< 0.7		1.0	
2,3,4,6-Tetrachlorophenol	ug/L	< 0.5	100.0	2.0	1.0
riallate	ug/L	<1.0	230.0		
2,4,6-Trichlorophenol	ug/L	< 0.5	5.0		
2,4,5-Trichlorophenoxy acetic acid	ug/L ug/L	<1.0	280.0		20.0
Frifluralin	ug/L ug/L	<1.0	200.0	45.0	20.0

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	10.7	9.4	9.6	9.2	9.5	8.4	9.4	10.7	9.8	9.9	8.3	10.9	93.7
Average Chlorine dosage mg/l	1.92	1.77	1.66	1.50	1.42	1.30	1.34	1.43	1.33	1.32	1.27	1.54	
Kilograms of Flouride used	2.5	2.8	2.9	2.6	2.7	3.3	3.5	3.5	3.3	3.6	2.5	3.0	16.1
Average Flouride dosage mg/l	0.44	0.53	0.50	0.43	0.46	0.51	0.50	0.47	0.45	0.50	0.40	0.43	



Flow Meter Calibration Schedule

End Date: 12/31/2002



CHESTERVILLE HUB [CHES]

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	IN	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
1 CHESTERVILLE	E WWTLCS [5677]					
0000101571	METER FLOW RAW SEWAGE	DANF	COLL	, IN	08/01/2002	08/08/2000
WINCHESTER	WWI CS (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
0000101100		***************************************	, 2011			00
	WW&DS [5705]		DIOT	in r	00/04/0000	
0000101751 √0000101767	METER FLOW WELL 04	KENT	DIST	IN	08/01/2002	08/08/2000
	METER FLOW DISCH WELL 01	KENT	WWE	IN	08/01/2002	08/08/2000
0000101781	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
CHESTERVILL	E 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	LL .	IN -	08/01/2002	08/08/2000
0000101650	METER FLOW WELL 1 DISCH	NEPTU	WWE	IN	08/01/2002	08/08/2000
FINCH WW&D	S [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	WTL [6053]					
0000101150	METER FLOW RAW SEWAGE SPS	ENDRES	COLL	IN	08/01/2002	08/08/2000
CHRYSLER W	ATER WELL SYSTEM [6054]					
0000101100	METER FLOW TREATED DISCH	ENDRES	FLOW	IN	08/01/2002	08/08/2000
MOOSE CREE	K 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 OBER	FOOOS SO MANAL NE					
	K WWLCS [6990] METER FLOW LAGOON DISCH	AB8	FLOW	IN	08/01/2002	08/08/2000
0000101073	INE I EX LEGAL EVOCOLA DISCU	A00	LECAL	11 4	JOI 0 1/2002	J0/00/2000

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

SHOCK

ELECTRICAL SHOCK

Vork Order#			itted By			Page
	286888	Activity	A1100A MI	ETER FLOW		
quipment ID	0000101100		Description	METER FLOV	V TREATED DISCH	
te	FAC	6054	Description	CHRYSLER WA	TER WELL SYSTEM	
ıbunit Of						
ea	2	EASTERN/NORTHERN AREA	Sub-area	CHES	CHESTERVILLE HUB	
strict	NSTO	TOWNSHIP OF NORTH STORMON	T Loc	FLOW	FLOWMETER(FLOW N	MEASURING & R
c Qualifier	CRYSLER WTF	P, FLOW METER TREATED DISCH				
uipment Type	INSTRU	INSTRUMENTATION	Manufacturer	ENDRES	ENDRESS & HAUSER	CANADA LTD
ilding	PLAN	PLANT BUILDING	Building Level	G	GROUND LEVEL	
rvice Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	25		
g Monthly Usage	70.00		Total Usage	0.00		
odel#	30FH80-7D1ED)11F218	Warranty Expires		MTBF	0
rial #	TZ274502		Purchase Date		Purchase Cost	0.00
UTPUT: 4-20 mAdd ELOCITY SETTING ANGE 0 480 1,200 .OW THEO 0 5.55	:0 10 25 50 75 10 2,400 3,600 4,80	0 m3/D				
UTPUT THEO 45.	6 8 12 16 20 m/	Adc				
-			Initiated D Service #	date 01/08/2001	Scheduled 30/	08/2001 11:19
ssigned To				eate 01/08/2001		08/2001 11:19
ssigned To thorization udget #			Service #	ate 01/08/2001		08/2001 11:19
ssigned To thorization udget #	CHESTE	CHESTERVILL	Service #	ate 01/08/2001		08/2001 11:19
ssigned To uthorization udget # rew aint Type	CHESTE	CHESTERVILL	Service #	late 01/08/2001		08/2001 11:19
ssigned To sthorization sdget # rew aint Type iority	CHESTE	CHESTERVILL	Service #	late 01/08/2001		08/2001 11:19
ssigned To uthorization udget # rew aint Type lority oblem			Service #	late 01/08/2001	Due	
ssigned To athorization adget # rew aint Type rlority roblem roject	CHESTE 6054		Service #	late 01/08/2001	Due Out of Service	0
attiated By ssigned To uthorization udget # rew laint Type riority roblem roject ource	6054	CHRYSLER W	Service # LE HUB STAFF VATER WELL SYSTEM	ate 01/08/2001	Due Out of Service Potential Service Request	00
signed To Athorization adget # rew aint Type clority coblem coject ource ast Activity	6054 OG03	CHRYSLER W CORRECTIVE	Service #	late 01/08/2001	Due Out of Service	0
stigned To athorization udget # rew aint Type riority roblem roject ource ast Activity fork Order Commenual inspection and	6054 OG03 nts d calibration check	CHRYSLER W CORRECTIVE	Service # LE HUB STAFF VATER WELL SYSTEM	late 01/08/2001	Due Out of Service Potential Service Request	00
ssigned To uthorization udget # rew aint Type rlority roblem roject	6054 OG03 nts d calibration check	CHRYSLER W CORRECTIVE	Service # LE HUB STAFF VATER WELL SYSTEM	Pate 01/08/2001	Due Out of Service Potential Service Request	00
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1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5 (416)314-5600 Fax (416)314-8300

Report Da	ate	22/01/2002	11:20 AM	· · · · · · · · · · · · · · · · · · ·	Submitted By				Page 2
Work Ore	der# 2	286888		Activit	y A1100A	METER FL	_OW		
Test		(100A)	METER F	iow -					
Tool		Description						Qty Reqd	Qty Used
CALIBC		CERTIFIED	CALIBRATION E	QUIP.				1.0	00
Salpay 200 Jesses 44				- Waiyin	Parities.				
ANNUAL	ANNUAL PI	REVENTATIVE	E MTCE	A1100A	INTRODUCTION				
					This Preventative Mainte maintenance of the speci correct defects which are technical information that manual for further details	fied equipment. How not anticipated in this may be required, and	ever, maintenance procedure. This o	personnel are expe locument will not pr	cted to look for and ovide all the
					The "As Found" and "As are to be recorded on the	•	•	ies found and any n	epairs carried out,
					MAINTENANCE PROCE	DURE:			
JSP	JOB SAFET	TY PLANNING			1) Have a qualified technorcedure. TAKE TIME TO IDENTIFICANTROLLED. WORK	Y HAZARDS AND PL	.AN HOW EACH H	AZARD WILL BE E	LIMINATED OR
WPROT	WORK PRO	OTECTION			HEALTH & SAFETY AC' ISOLATE AND DE-ENEI PROCEDURE.				
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	218-076 5 0								
Labour Charge D		Tine To	\$12.5 A. S. A. A. A. A. A. A. A. A. A. A. A. A. A.	EPRO BERNALD CONTRACTOR OF THE STATE	A Digital property	5073714			Hours Worked
Constituent					·				
	in (4%)						 -		
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Report Date	22/01/2002 11:20 AM	Subm	itted By			-		Page 3
Work Order #	286888	Activity	A1100A	METER FLOW				
Started Res		Completed :: ***			a page 4			
Date 23/08/20	001 Time 00:00	By 80300		Date 23/08/2001	Time	00:00	Tiple5	2.00
TOPELH !		Condition		Conthy		\$ sai	of Reco	
Total Basys								
Paus (Stolly)		Sign-off		·				

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CALIBC

CERTIFIED CALIBRATION EQUIP.

Equipment Work Order

1.00

Report Date	16/01/2002 08:4	49 AM Submitte	ed By				Page 1
Work Order #	286888	Activity	A1100A	METER FLOW			
Equipment ID	0000101100		Description	METER FLOV	V TREAT	ED DISCH	
Site Subunit Of	FAC	6054	Description	CHRYSLER WA	TER WELI	LSYSTEM	
Area District Loc Qualifier	2 NSTO CRYSLER WTP,	EASTERN/NORTHERN AREA TOWNSHIP OF NORTH STORMONT FLOW METER TREATED DISCH	Sub-area Loc	CHES FLOW		STERVILLE HUB VMETER(FLOW ME	EASURING & REC
Equipment Type Building Service Status Avg Monthly Usage Model # Serial #	INSTRU PLAN IN 70.00 30FH80-7D1ED1 TZ274502	INSTRUMENTATION PLANT BUILDING IN SERVICE (INCL. STANDBY) 11F218	Manufacturer Building Level Expected Life Total Usage Warranty Expi	25 0.00 ires	GRO	RESS & HAUSER C UND LEVEL : : nase Cost	ANADA LTD 0 0.00
INT. DIA: 3" (80 mm) K FACT: 0.9105/-4 CONVERTER MAKE: Endress & Hau TYPE: Integral MODEL: Promag 30 F RANGE: 55.55 L/sec. OUTPUT: 4-20 mAdc VELOCITY SETTING: RANGE 0 480 1,200 FLOW THEO 0 5.55	H80-MD1ED11F21 H80-MD1ED11F2 (4,800m3/d) 0 10 25 50 75 100 2,400 3,600 4,800 13.8 27.77 41.66 5	%F.S. 1 m3/D 5.55 l/sec.	•	,			
OUTPUT THEO 4 5.6 Initiated By Assigned To	58 12 16 20 MA	OC .	Initiat Servi	ted Date 01/08/2001		Scheduled Due	
Authorization Budget # Crew Maint Type Priority	CHESTÉ	CHESTERVILLE I					
Source	6054 OG03	CHRYSLER WAT	ER WELL SYSTEM			ervice I Service Request Ivity Completed	□ □ 04/10/2001
Work Order Commen Annual inspection and ActDefn Comments METER O&M MANUA	nts calibration check of NL A1100A						
Safety Message SHOCK	Description ELECTRICAL S	SHOCK					
Tool	Description					Qty Reqd	Qty Used

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Equipment Work Order

Report Date 16/01/2002 08:49 AM Submitted By Page 2 Safety Procedures Message Description Activity Comments ANNUAL ANNUAL PREVENTATIVE MTCE A1100A 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 JSP 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 Date 23/08/2001 00:00 Ву 80300 Date 23/08/2001 Time 00:00 Hours 2.00 Result Condition Quantity Unit of Meas Total Usage Sign-off Data Group

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

Report Date	22/01/2002 03:0	02 PM	Submitted By				Page
Work Order #	347417	Activity	y OG	04 IN	SPECTION		
Equipment ID	0000170829			Description	METER FLOW		··
Site	FAC	6053		Description	CHRYSLER WWT	ΓL	
Subunit Of Area	2	EASTERN/NORTHERN AREA	Δ	Sub-area	CHES	CHESTERVILLE HUB	
District	NDUN	TOWNSHIP OF NORTH DUN		Loc	FLOW	FLOWMETER(FLOW)	MEASURING & RE
Loc Qualifier		ON: AERATION CELL PALME				, 2011	
							
Equipment Type	INSTRU	INSTRUMENTATION		Manufacturer	MILL	MILLTRONICS	
Building	GROU	GROUNDS/YARD	_	Building Level	G	GROUND LEVEL	
Service Status	IN	IN SERVICE (INCL. STANDB)	γ)	Expected Life	25		
Avg Monthly Usage	0.00			Total Usage	0.00		•
Model # Serial #				Warranty Expires Purchase Date	01/09/2000	MTBF Purchase Cost	0 0.00
Serial # Budget #				Ful Chase Date	01/09/2000	Fut Chiese Cost	
Asset Comments							
SEASONAL USE (SPI	RING & FALL DISC	CHARGE)					
Primary Element:				•			
Palmer-Bowlus Flume							
Size:27 " (.686 m)							
Calbrated flow: 0-373.	7 l/sec						
0-32287.7 m3/d O/P 4-20 mAdc							
O/P 4-20 MAGE							
Initiated By				Initiated D	Date 21/11/2001	Scheduled	
Assigned To				Service #		Due	
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	O G04	INSPEC	ETION		1	Out of Service Potential Service Reques Last Activity Completed	
Last Abuvity							
Work Order Commer Annual inspection cali Programming parame	oration check comp						
ing zo est tab Region) desemble		i gyztiniy	·Minare	Andrew Commencer			
JSP JOB SAFE	TY PLANNING		CONTROLLE). WORK PRACTICE	ES MUST BE IN ACC	EACH HAZARD WILL BE CORDANCE WITH THE OF VATER AGENCY SAFETY	CCUPATIONAL
MPROT WORK PR	OTECTION					CORDANCE WITH THE	
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(416)314-5600 Fax	(416)314-8300					
Report Date	22/01/2002 03:02 PM	Submit	ted By		Pag	je 2
Work Order #	347417	Activity	OG04	INSPECTION		
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Result	KCON	lition				
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250000000		Sign-off				
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INSTRUMENT

Report Date	22/01/2002 11:	18 AM Submitte	d By			Page 1
Work Order #	286886	Activity	A1150A M	ETER FLOW		
Equipment ID	0000101150		Description	METER FLO	W RAW SEWAGE SP	S
Site Subunit Of	FAC	6053	Description	CHRYSLER WV	VTL	
Area District	NSTO	EASTERN/NORTHERN AREA TOWNSHIP OF NORTH STORMONT	Sub-area Loc	CHES COLL	CHESTERVILLE HUI WASTE WATER CO	
Loc Qualifier	CRYSLER WAS	TE WATER TREATMENT SYSTEM: MET	ER FLOW DISCH LINE A	T SPS		
Equipment Type Building Service Status	INSTRU PS IN	INSTRUMENTATION PUMPING STATION BUILDING IN SERVICE (INCL. STANDBY)	Manufacturer Building Level Expected Life	ENDRES S01 25	ENDRESS & HAUSE UNDERGROUND LE	
Avg Monthly Usage Model # Serial #	720.00 30FH2H-MDIED V6-311147	11F21B	Total Usage Warranty Expires Purchase Date	0.00	MTBF Purchase Cost	0 0.00
INT. DIA: 8" (200 mm K FACT: 1.0616/4 LINING: CONVERTER MAKE: Endress & Ha TYPE: Integral	auser FH2H-MD1ED11F2 FH2H-MD1ED11F2 Fec. (19,200m3/d) C S: 0 10 25 50 75 100 800 9,600 14,400 19 22 55.55 111.11 16	9,200 m3/D 6.66 222.22 l/sec.	f, m	ted		
Initiated By Assigned To			Initiated I Service #		Scheduled 3 Due	0/08/2001 11:17
Authorization Budget # Crew Maint Type Priority	CHESTE	CHESTERVILLE H	IUB STAFF			
Problem Project Source	6053	CHRYSLER WWT	ι		Out of Service Potential Service Reque	□ sst □
Last Activity	A1150A	METER FLOW			Last Activity Completed	_
Work Order Comme Annual inspection an		completed				
ActDefn Comments METER O&M MANU						
<u>iie)</u>	A FEW	WEIER FLOW			and the second s	

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

eport Date	e 22/01/2002 11:18 AM	Submitted By		Page 2
Work Orde	er# 286886	Activity A1150A	METER FLOW	
Safety Mess SHOCK		E La Contraction of the Contract		Oty Regd
CALIBC	CERTIFIED CALIBRATION	EQUIP.		1.00
ANNUAL A		maintenance of the s correct defects which	n are not anticipated in this procedure. T that may be required, and it may be nec	nce personnel are expected to look for and his document will not provide all the
JSP JO	OB SAFETY PLANNING	are to be recorded of MAINTENANCE PR 1) Have a qualified to procedure. TAKE TIME TO IDEI CONTROLLED. Wo	n the Hansen Feedback Sheet. OCEDURE: echnician calibrate the unit, following the	
WPROT W	VORK PROTECTION	PROCEDURE.	NERGIZE THE EQUIPMENT IN ACCO	RDANCE WITH THE LOCK-OUT
A STATE OF THE STA		econyptactable-obles Regions (Axent		

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

Report Date	22/01/2002 11:18 AM	Subm	itted By			 Page 3
Work Order #	286886	Activity	A1150A	METER FLOW		
Startisti	01 00:00	completed:		Maria de la companya de la companya de la companya de la companya de la companya de la companya de la companya		2.00
(65)	confi			23/04/2001	=======================================	2.00
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Facility Work Order

Total Usage

Report Date	28/02/2003 03:11 PM	Submitte	ed By Jean Veille	eux			Page 1
Work Order #	515281	Activity	OG11A	ANNUA	L SAMPLING/TE	STING	
Facility ID	6054		Description	CHRY	SLER WATER W	ELL SYST	EM
Qualifier Area Sub-area Map#	2 EASTERN CHES CHESTERN		<u>District</u> <u>Location</u>	NSTO	TOWNSHIP OF I	NORTH STO	RMONT
Facility Type Complex Parcel	IND INDUSTRIAL		Service Status Date Built As Built	IN	IN SERV X Coord Y Coord Z Coord	ICE (INCL. S1	ANDBY)
Initiated By Assigned To			<u>Initiate</u> Servic	ed Date ce#	28/02/2003	Scheduled Due	01/01/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem	PROC 5	PLANT PROCES DURING SAMPL	SS MAINTENANCE LING ROUNDS				
Project Source Last Activity	6054 OG17	CHRYSLER WA	TER WELL SYSTEM			Service al Service Req tivity Complete	
ActDefn Comments Take samples of sy	nnual Sampling		nples and complete pa	aperwork a	s required.Record lev	rels and condit	ions that
Safety Procedures Message * Descript	ión:	Activity Confine	nis - ta papara 3	4		34 <u>5</u> 34 <u>5</u> 34	Marie Carlos
	AND EXIT NOTIFICATION AFETY PLANNING PROTECTION	THE SIT DURATI VACATE TAKE TI CONTRI HEALTI	TE. THE FOLLOWING ION. ON COMPLETIO ED AND SECURED. IME TO IDENTIFY HA	INFORMA ON OF DUT ZARDS AI CTICES M O THE ON	ATION SHOULD PRO TIES NOTIFICATION ND PLAN HOW EAC JUST BE IN ACCORD TARIO CLEAN WAT	OVIDE APPRO TO BE GIVE TH HAZARD V DANCE WITH ER AGENCY	N THAT SITE HAS BEEN VILL BE ELIMINATED OR I THE OCCUPATIONAL SAFETY MANUAL.
Labour Charge Date	Walter St. March	PROCE	DURE.	nplayee ID		Pay Type	

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

Facility Work Order

Report Date	28/02/2003 03:11 PM	Submitted	Ву	Jean Veilleux		Page 2
Work Order #	515281	<u>Activity</u>	OG11	1A A	NNUAL SAMPLING/TES	TING
Comments	Congline	tion wi	lr,	Gue	iter {	
Started Date for	→ Time	Completed By 00/3	<u>O</u>	Date:	planting Time	Hours /
Result	<u> </u>	oridition			Quantity	Unit of Meas
Data Group		Sign-off				

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

Facility Work Order

D	00:00:00:									
Report Date	28/02/2003	3 03:11 PM	Subn	nitted By	Jean Veill	eux				Page 1
Work Order #	515282		Activity	OG1	1Q	QUAR*	TERLY SAMPLING	3/TESTING	ì	
Facility ID	6054			<u>D</u>	escription	CHR	YSLER WATER W	/ELL SYST	EM	
Qualifier Area Sub-area Map #	2 CHES	EASTERN REG CHESTERVILLE			District Location	NSTO	TOWNSHIP OF	NORTH STO	RMONT	
Facility Type Complex Parcel	IND	INDUSTRIAL		<u>D</u>	ervice Status ate Built s Built	IN	IN SERV <u>X Coord</u> <u>Y Coord</u> Z Coord	ICE (INCL. S	randby)	
Initiated By Assigned To					Initiat Servi	ed Date ce#	28/02/2003	Scheduled Due	01/01/2003	3 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source	PROC 5		PLANT PROD DURING SAM CHRYSLER	MPLING RO	DUNDS		<u>Qut of S</u> P <u>otenti</u> s	Service al Service Rec	[]	
Last Activity	OG17	·	HYDRANT M	AINTENAN	ICE		Last Ac	tivity Complet	<u>ed</u> 26/1	11/2002
ActDefn Comments Take samples of sy	arterly Samplin les B,D,Nitrates collected at sew s stems following		tandards.Preserve	samples ar	nd complete p	aperwork a	as required.Record lev	rels and condi	tions that	
Safety Procedures Message Descript	ion - I		Activity Com	ments	4	4	The second secon		A MA	
EEN ENTRY	AND EXIT NO	TIFICATION	THE DUR	SITE. THE	FOLLOWING	INFORM	HEIR DESIGNATE H ATION SHOULD PRO TIES NOTIFICATION	OVIDE APPR	OXIMATE TI	ME AND
JSP JOB SA	FETY PLANNII	NG	TAKI CON HEA ISOL	E TIME TO ITROLLED LTH & SAF	. WORK PRA	CTICES N D THE ON	IND PLAN HOW EAC MUST BE IN ACCORI ITARIO CLEAN WAT QUIPMENT IN ACCOI	DANCE WITH ER AGENCY	THE OCCU SAFETY MA	IPATIONA ANUAL.
Charge Date	Time		(Type, Grew ID or Crew ID			nolovse II	garante de la constante de la	Pav Tvo	e Hours V	

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Facility Work Order

Report Date 28/02/2003 03:11 PM Submitted By Jean Veilleux Page 2 Work Order # 515282 QUARTERLY SAMPLING/TESTING <u>Activity</u> OG11Q Comments du e lui Time 00130 Quantity Unit of Meas Result Condition Data Group Sign-off.

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Ont	et W	fator Agency		· -				
1 Y		C 1709				Equipme	nt Wo	rk Order
To:- (4.1:	#I-14 No Frax	(±16, : 14 -8300						
Rei	<i>i</i>	07/02/2003 02		itted By	···			Page 1
Wor	+ #	502115	- Actionty	AU36M	ANALY	alDITY		
Ear	:::)	€000 101836		D.⊲crip	otion Att	URBIDITY CRYSI	_ER	
Site		FIC	6054	Dc Inti	on Chi	TER WELL SYSTEM		
Sub- Area Dis-		i Luun	EASTERN REGIC 4 TOWNSHIP OF NORTH DOWN	Sectionea Sectionea	M. CHall.	CHESTERVILLI WATER WELL	≣ HUB	
Eq. Bu		ILSTRU PO	INSTRUMENTAL ON PUMPING STATION BOILDING IN SERVICE (INC STANCE)	Manufact Building Expected	Level G	HACH CO. GROUND LEVE	iL	
Av. M Se	. raqe		IN SERVICE (INC., STEWARY)	Total disa War inty Purmase	ege 0.1. Expires	MTBF Purchase Cost	0).00
Init	o	<u></u>			Initiated Date Service #	3 Scheduled	i 01/01/:	2003 08:00
Pripring Pripring Pripring Pripring Prince P		6054	Crefe (d.)	ATER WELL SYSTI	EM	Out of Service Potential Service R Last Activity Comp	•	0
T		-183 6M	ANALYZER TURBIDITY					
J		Crew Type	Description.			Pay Type		Hrs Worked
. (),	and of the		OPERMI DE					
L. b			cription NPY WATER			Qty Reqd	1.00	Qty Used
		Stoo	ck Area	Stock Lo	С			
Ţ		Description				Qty Reqd		Qty Used
P		SOFT BRUSH					1.00	
P(-		PORTABLE TI	JRBIDIMETER				1.00	
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MC	ттн	L. PREVENTATIVE	MTCE Alough .	U NODUCT UN:				

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				tted By			Page
Work Order#	502109		Activity	A110 1M A	VALYZER CHLO	RINE	
Equipment ID	0000101101			Description	ANALYZER CI	HLORINE TREATED	FLUO
Site	FAC	6054		Description	CHRYSLER WAT	TER WELL SYSTEM	
Subunit Of							
Area	2	EASTERN REG	ION	Sub-area	CHES	CHESTERVILLE HI	JB
District	NSTO	TOWNSHIP OF	NORTH STORMONT	T Loc	DIST	WATER DISTRIBUT	TION
oc Qualifier	CRYSLER WT	P: ANALYZER CHL	ORINE - FLOURIDE	TRT WATER			
Equipment Type	INSTRU	INSTRUMENTA	TION	Manufacturer	WALL	WALLANCE & TIER	RNAN
Building	PLAN	PLANT BUILDIN		Building Level	G	GROUND LEVEL	
Service Status	IN	IN SERVICE (IN	CL. STANDBY)	Expected Life	25		
Avg Monthly Usage	720. 00			Total Usage	0.00		
Model #	U95-213 DEPC	DLOX 3		Warranty Expires		MTBF	0
Serial #	AZ91670			Purchase Date		Purchase Cost	0.00
Budget #							
Initiated By				Initiated I Service #		Scheduled Due	01/01/2003 08:00
4SSIGNED TO				OCI VICE II		Due	
Authoriz ation							
Budget #							
Crew	CHESTE		CHESTERVILLE	C LUID OTAEE			
			CHECHEN	E HOR STAFF			
Maint Type			CHESTERVICE	E HOR 21AFF			
			CHEOTERVICE	F HOR 21 WLL			
Maint Type Priority Problem			Oneonerwice	E HUB STAFF			
Priority Problem	6054			ATER WELL SYSTEM		Out of Service	
Priority	6054					Out of Service Potential Service Requ	
Priority Problem Project	6054 A1101M			ATER WELL SYSTEM			est 🗌
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER	A1101M NAN DEPOLOX 3		CHRYSLER W/	ATER WELL SYSTEM		Potential Service Requ	est 🗌
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER	A1101M NAN DEPOLOX 3 A1101M	ANALYZER (CHRYSLER W/ ANALYZER CH	ATER WELL SYSTEM		Potential Service Requ Last Activity Complete	est 🗌
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER Task Job Class	A1101M NAN DEPOLOX 3		CHRYSLER W/ ANALYZER CH CHLORINE	ATER WELL SYSTEM		Potential Service Requ Last Activity Complete	uest
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER Task Job Class	A1101M NAN DEPOLOX 3 A1101M Crew Type	ANALYZER (CHRYSLER W/ ANALYZER CH CHLORINE	ATER WELL SYSTEM		Potential Service Requ Last Activity Complete	uest [] ad 08/10/2002
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER Task Job Class OP Part #	A1101M A1101M Crew Type De	Description OPERATO	CHRYSLER W/ ANALYZER CH CHLORINE	ATER WELL SYSTEM		Potential Service Requ Last Activity Complete	uest
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER Task Job Class OP Part #	A1101M A1101M Crew Type De	Description OPERATO	CHRYSLER W/ ANALYZER CH CHLORINE	ATER WELL SYSTEM		Potential Service Requ Last Activity Complete	ed 08/10/2002 Hrs Work
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER Task Job Class	A1101M A1101M Crew Type De	Description OPERATO DRATIC ACID	CHRYSLER W/ ANALYZER CH CHLORINE	ATER WELL SYSTEM LORINE		Potential Service Requ Last Activity Complete	ed 08/10/2002 Hrs Work
Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIER Task Job Class OP Part # MURACID	A1101M A1101M Crew Type De ML Sto	Description OPERATO Scription URATIC ACID Ock Area	CHRYSLER W/ ANALYZER CH CHLORINE	ATER WELL SYSTEM LORINE		Potential Service Requ Last Activity Complete	ed 08/10/2002 Hrs Work

Crew Demnition			
Employee ID	Last	First	MI
00050	BARRIE	ANDREW	
00130	MICHELS	WILLIAM	
8025 2	HENDERSON	BLAIR	
802 85	KELLY	TONY	
803 60	MARKELL	DAVID	

1 Yonge Street, Suite 1700 Toronto. ON M5E-1E5 (416)31--5600 Fax (416)314-8300

WPROT WORK PROTECTION

Equipment Work Order

Report Date

07/02/2003 02:43 PM

Submitted By

Page 2

Report Date	07/02/2003 02:43 PM		dismitted By		Page			
Work Order#	502109	Acti∨ity	A1101M	ANALYZER CHLORINE				
Crew Demaition		<u> </u>						
Employee iD	Last			First	MI			
80636	VEILLEUX			JEAN				
quipment (D	Description							
here is no equipme	ent for this crew							
/ehicle::U	Description							
here are no vehicle	es for this crew							
afety Procedures lessage ⊃escript	ion	Activity (Conments					
EN SMTRY	AND EXIT NOTIFICATION			EVISOR OR THEIR DESIGNATE HAVE BEE				
JSP JOB SAFETY PL ANNING			SHE SITE, THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION, ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN WASATED AND SECURED. THE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR					
			CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL					
HTMOM HEMOI	LY PREV ENTATIVE MTCE		HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. INTRODUCTION:					
		1	matatenance of the specific contect defects which are n	ance Procedure has been developed to aid fixed equipment. However, maintenance person of anticipated in this procedure. This documnay be required, and it may be necessary to recommend the control of th	nnel are expected to look for a ent will not provide all the			
			The "As Found" and "As Le	eft" readings, as well as any abnormaticles for lansen Feedback Sheet.	und and any repairs carried ou			
		I	LULINING CHECKS:					
		:	1. A erify the operation of th 2. Check the operation of th 3) A crify that the alarm set	ne LCD display. points are operational.				
			•	the unit and replace o-rings and seals as req	uired.			
		l	MAINTENANCE PROCED	ONG.				
		;	2: Check the grit and impe	ple and Y-strainer bypass flow rates. Eller for proper circulation, and add crit as recoirs as required. Et the buffer solution pump rate as resulted.	quired.			
			enty that the manual b	ackwash system is operational. erioration and replace as required.				
			-	naft for wear and replace as required.				
			Socheck the electrolyte so	lution in the probe and top up as required.				

Labour	Choose Crew Type, Crew ID or	Job Class			Bert.
Charge Date Time Crew	Type Crew ID	Job Class	Employee ID	Pay Type	Hours Worked
03/01/03 0700			130	R	/

PROCEDURE.

(a) Calibrate the analyser using the approved method.

ISCLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT

1 Yonge Street, Suite 1700 Toronto, UN M5E-185

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

Equipment Work Order

Page 3 Report Date 07/02/2003 02:43 PM Scamitted By A1101M ANALYZER CHLORINE Activity Work ∪rder # 502109 Material Part Number Quantity Stock Area Time Charge Date Vehicle Choose Crew, Venicle Type or ID Usage Vehicle ID Lin Usage Time Crew Vehicle Type Charge Date 1 he 00130 Comments

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

Report Date	07/02/2003 02	:44 PM Subir	nitted By			Page 1
Wo rk Order#	502110	Activity	A1101M A	NALYZER CHLOF	INE	
Equipment ID	0000101101		Description	otion ANALYZER CHLORINE TREATED FL		
Site	FAC 6054		Description	CHRYSLER WAT	ER WELL SYSTEM	
Subunit Of						
Area	2	EASTERN REGION	Sub-area	CHES	CHESTERVILLE HUB	
District	NSTO	TOWNSHIP OF NORTH STORMON		DIST	WATER DISTRIBUTIO	N
Loc Qualifier	CRYSLER WTF	P: ANALYZER CHLORINE - FLOURIDE	TRT WATER			
Equi pment Type	INSTRU	INSTRUMENTATION	Manufacturer	WALL	WALLANCE & TIERNA	AN .
Building	PLAN	PLANT BUILDING	Building Level	G	GROUND LEVEL	
Service Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	25		
Avg wenning Usage	720. 00		Total Usage	0.00		
Model #	U95-213 DEPO	LOX 3	Warranty Expires	5	MTBF	0
Serial #	AZ91670		Purchase Date		Purchase Cost	0.00
Budget #						
Initiated By			Initiated	Date 07/02/2003	Scheduled 03	/02/2003 08:00
Assigned To			Service	#	Due	
Authorization						
Budget #						
Crew	CHESTE	CHESTERVIL	LE HUB STAFF			
Maint Type						
Priority .						
Problem						
Project	6054	CHRYSLE R /	VATER WELL SYSTEM		Out of Service	
Source					Potential Service Reques	t 🗍
Last Activity	A1101 M	ANALYZER C	HLOR INE		Last Activity Completed	08/10/2002
WALL SEE & TIER	A1101M	ANALYZER CHLORINE				
Job Ciaris	Crew Type	Description			Pay Type	Hrs Worked
OP	<u> </u>	O PERATOR				
Part :	Des	scription			Qty Reqd	Qty Used
MUR CID	MU	RATIC ACID			1	.00
		ck Area	Stock Loc			
Safet, Message	Description					
CHEM IN	CHEMICAL H	AZARD				
Cr ev/ sets ston				116.0		
Empire (ee ii)	Last		1881	First		М
0 000: .	BARRIE			ANDREW		
001.:	MICHELS			WILLIAM		
8 025	HENDERSON	<u> </u>		BLAIR		-
8 020t-	KELLY			TONY		-
8 036 .	MARKELL		\	DAVID		

1 You as Street, Suite 1700

Toro: ... ON MSE-1E5

Equipment Work Order

(416):114-560. J Fax (416)314-8300

07/02/2003 02:44 PM

Scomitted By

Page 2

Work Order#	502110	Activity	A1101M	ANALYZER CHLORINE	
Grew equation -					
Employee IU	Last			First	MI
8065	VEILLEUX			JEAN	
Equi; ment (D	Description				
The shouguipm	nent for this crew				
Vert. 10	Description				
They remid	les for this crew				
			700-20		

Safe... Salaties Мезании scription :

EEN

Activity Comments

TRY AND EXIT NOTIFICATION

EHSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEEN NOTIFIED OF ENTRY INTO THE SITE. THE FOLLOWING INFORMATION SHOULD PROMDE APPROXIMATE TIME AND LIGRATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN WACATED AND SECURED.

JSP JOB SAFETY PLANNING

WPR : WORK PROTECTION

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

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

MON RESENTATIVE MTCE

A1101M 1, FRODUCTION:

This Freventative Maintenance Procedure has been developed to aid field personnel in the care and as distensince of the specified equipment. However, maintenance personnel are expected to look for and clarect defects which are not anticipated in this procedure. This document will not provide all the to minical 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 abnormatics found and any repairs carried out, and to be recorded on the Hansen Feedback Sheet.

R JINNING CHECKS:

... verity the operation of the peristallic pump(s).

. Theak the operation of the LCD display.

Select that the alarm set points are operational.

Thook for leakage from the unit and replace o-rings and seals as required.

: VENANCE PROCEDURE:

Check for sufficient sample and Y-strainer bypass flow rates.

2. Check the grit, and impeller for proper circulation, and add grit as required.

Top up reageant reservoirs as required.

-- Check the PH and a fjust the buffer solution pump rate as exceined.

Verity that the manual backwash system is operational.

Check all tubing for deterioration and replace as required.

Check the mixer drive shaft for wear and replace as required.

Clean the probe.

seeds the electrolyte solution in the probe and top up as required.

Culibrate the analyser using the approved method.

CATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT

HOUZDURE.

Labu			Choose (Crew Type, Crew IL	or Job Class			
Chai	Unto	Time	Crew Type	Crew ID	Job Class	Employee ID	Pay Type	Hours Worked
10/0	2/3	0800				00130	 R	1

Onto a Gallan Water Agency 1 York | 17 cm, Seite 1700 Toroi | 1/2 | 1/25 (416) | 1/20 | 2 Fax (416)314-8300 Equipment Work Order **Report Date** 07/02/2003 02:44 PM Scomitted By Page 3 **Work Order #** 502110 Activity A1101M **ANALY**ZER CHLORINE Material Charm: Date Time Stock Area Part Number Quantity Veni Choose Crew, Vehicle Type or ID Chai Venacue (D Vehicle Type Lanusage Usage Com 10/03 00/30

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Report		07.02/2 003 02	2:44 PM		Saparitted By	v						Page 1	
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Equip	4)	0000101836	3			Desc	io n	ANALY7	= IRBIC	OITY CRYSLE	R		
Site		FAC:	6054			Describes	n	CHRYSL:					
Subunit		7 .					, ,		· I CIK VV	ELL SYSTEM			
Area District		2 H U 1	EASTERN RED TOWNSHIP CHE			Sub-aren		CHES		ESTERVILLE	HUB		
Loc Qu			TER TREATMENT		. "	L-UC		WWE	W	ATER WELL			
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Authoriz :													
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Part #										ļ			-
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Ontari 1 Yong Toron (416)31	in Water ⇔jency 1,0ete 1705 35 165 5 ∞ (416)31 (5300					Equipment Work Order
Report	07/0/2//200 3	02:44 PM		Sumitted By		Page 2
Safety / Messag	ores 1		e-disity	nents	<u></u>	
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				ne "//s Found" (1197/ [Jag to be recommend	് അ dings, as w വ മ അ Fee സംഭ്യ	and any repairs carried out,
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1 Yong: Tareet, Suite 1700 Toronic, 250 M5E-1E5 (416)31 - 5600 Fey (416)31

Equipment Work Order

Report Date	07/0 2/2003 02:44	PM Suba	itted By			Page 1
Work Order#	502 113	Activity	A1836Q AN	NALYZER TURBIDI	ΤΥ	
Equipment ID	0000101836		Description	ANALYZER TUR	BIDITY CRYSLER	
Site	FAC 60	054	Description	CHRYSLER WATE		
Subuni: Of		ACTEDNI DECIONI	C 4	CUEC	OUEOTED) WAS A WAS	
Area Distric:		ASTERN REGION OWNSHIP OF NORTH DUNDAS	Sub-area L⊍c	CHES WWE	CHESTERVILLE HUB WATER WELL	
Loc '. · · · · · ·		TREATMENT SYSTEM:				
Equips type	BASTRU IN	ISTRUMENTATIO:.	Manufacturer	НАСН	HACH CO.	
Buildis:		UMPING STATION BUILDING	Building Level	G	GROUND LEVEL	
Service mus Avg Meaning Usage	Es IN 720.0 0	I SERVICE (INCL, STALUBY	Expected Life Total Usage	25 0.00		
Model#	1720 D		Warranty Expires	0.00	MTBF	0
Serial #	00100007906		Purchase Date		Purchase Cost	0.00
Budget #						
Initiated By			Initiated E	Date 07/00/2093	Scheduled 01/	/01/2003 08:00
Assign a fo			Service #		Due	
Active Con			\mathcal{L}	, W	<i>j</i>	
Bost :			LAUX	7	/ ₂ / ₂	1
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Property					1.041.1	1 -
Project	6664	CHRYSLER /	WATER WELL SYSTEM	О	ut of Service	
Source				P	otential Service Request	: 🗆
Last Activity				L	ast Activity Completed	
T⊹sk	аБ3 6Q	ANALYZER TUREIDITY	(0,2) (1,2) (1,2)			
Jon Control	Crew Type	Description			Pay Type	
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dere Posts Work	SOAPY Stock A	OPERATOR/I (EC. FAN). water	Stock Loc		Qty Reqd 1. Qty Reqd	Oty Used
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Onto han Water Agency 1 cot, Suite 1700 ±1/45E-1E5 -0.00 Fax (416)314-8300 1 Yers. Torras

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Equipment Work Order

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Sare :	odines coption		Activay	v. J. macrit3 · .				
				a pe re cord ed on ti	e Ha nsen Feedba ck			
				.JRANG CHECKS:	the sample piping and	· · · · lines.		
				2.4 Chark display to 113				
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JSP	DB SAFETY PLA	NNING			EY HAZARDS AND .			E ELIMINATED OR
					CPRACTICES MUST			OCCUPATIONAL
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1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5

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

Equipment Work Order

Report Date	28/02/2003 03:	:11 PM	<u>s</u>	Submitted By	Jean Veilleux	<u> </u>					Page 1
Work Order#	515271		<u>Activity</u>	A1	101M A	NALYZE	R CHLO	RINE			
Equipment ID	0000101101				Description	ANA	LYZER CH	HLORINE TR	REATED	FLU	10
<u>Site</u> Subunit Of	FAC	6054	_		Description	CHRY	SLER WAT	ER WELL SYS	STEM		
Area	2	EASTERN RE			Sub-area	CHES	3	CHESTERV	ILLE HU	В	
<u>District</u>	NSTO		F NORTH STO		Loc	DIST		WATER DIS	STRIBUT	ION	
Loc Qualifier	CRYSLER WTP	: ANALYZER C	HLURINE - FL	OURIDE INT	WATER						
Equipment Type	INSTRU	INSTRUMENT			Manufacturer	WALL	-	WALLANCE		NAN	
Building	PLAN	PLANT BUILD			Building Level	G		GROUND L	EVEL		
Service Status	IN	IN SERVICE (I	NCL. STANDB	Y)	Expected Life	25					
Avg Monthly Usage	720.00				Total Usage	0.00				_	
Model #	DEPLOX 3 U-95	213			Warranty Expires			MTBF		0	
Serial #	AZ91670				Purchase Date			Purchase Co	<u>os</u> t	0.0)0
Budget#											
Initiated By					Initiated I	Date 2	28/02/2003	Schedu	uled 0	3/03/2	003 08:00
Assigned To					Service #	<u> </u>		Due			
Authorization											
Budget#						n					
Crew											
					<i>)</i> (مسا	با	/			,
						on	7	01/03			1
Maint Type						Tu		50/05	5	6	1
Maint Type Priority						The state of the s	The i	50/05	110	W	
Maint Type Priority Problem	6054		CHBA <i>a</i> i	ED WATER V	NELL SYSTEM	The state of the s		' (W	H	
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Maint Type Priority Problem Project Source Last Activity ActDefn Comments WALLANCE & TIERN Task Job Class OP Part # MURACID Safety Message CHEMHA	A1101M NAN DEPOLOX 3 A1101M Crew Type Description	ANALYZER Description OPERA ATTIC ACID k Area	ANALYZ		E		<u>(</u>	Out of Service Potential Service Last Activity Col	mpleted project of the control of th		08/10/2002
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MONTH MONTHLY PREVENTATIVE MTCE

JOB SAFETY PLANNING

JSP

HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. A1101M 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 OF CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL

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Equipment Work Order

Report Date

28/02/2003 03:11 PM

Submitted By

Jean Veilleux

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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) Verify the operation of the peristallic pump(s).
- 2) Check the operation of the LCD display.
- 3) Verify that the alarm set points are operational.
- 4) Check for leakage from the unit and replace o-rings and seals as required.

MAINTENANCE PROCEDURE:

- 1) Check for sufficient sample and Y-strainer bypass flow rates.
- 2) Check the grit and impeller for proper circulation, and add grit as required.
- 3) Top up reageant reservoirs as required.
- 4) Check the PH and adjust the buffer solution pump rate as required.
- 5) Verify that the manual backwash system is operational.
- 6) Check all tubing for deterioration and replace as required.
- 7) Check the mixer drive shaft for wear and replace as required.
- 8) Clean the probe.
- 9) Check the electrolyte solution in the probe and top up as required.
- 10) Calibrate the analyser using the approved method.

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

WPROT WORK PROTECTION

Data Group

Labour	in the second		Type Crew ID or d					A. C.
20/03/03	71mg	Crew Type (*)	DrewiD+ in ***	Job Class	Employee II		Pay Type	Hours Worked
Vehicle	a Espera	C	oose Grew: Vérilo	e Type of ID	The second second	1	Allegae Mariana Marian	No. 2 4272 2 7 7 7 1
Charge Date:	Time*	Crew Line Gard	Vehicle Type	Vehicle ID		13	Total Usage	Usage
Comments								
1110	5703		pleted - A - A - A - A - A - A - A - A - A -	1.17	Date		ing state of the s	Hours: /
Date	Time			0130	Uate			
Result		Condition				Quantity	<u>Unit</u>	of Meas

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Equipment Work Order

(416)314-5600 Fax	(416)314-8300									
Report Date	28/02/2003 0	3:11 PM	l <u>Submitte</u>	ed By	Jean Veilleu	ıx				Page 1
Work Order #	515272		Activity	A18	336M /	ANAL	YZER TUR	BIDITY		
Equipment ID	0000101836	5			Description	Α	NALYZER	TURBIDITY C	RYSLER	
Site	FAC	6054			Description	CI	HRYSLER W	ATER WELL SY	STEM	· · · · · · · · · · · · · · · · · · ·
Subunit Of Area	2 NDUN		ERN REGION		Sub-area		HES		VILLE HUB	
<u>District</u> Loc Qualifier			NSHIP OF NORTH DUNDAS EATMENT SYSTEM:		Loc		WE	WATER W	/ELL	
Equipment Type Building	INSTRU PS	PUMF	RUMENTATION PING STATION BUILDING		Manufacturer Building Level	G	ACH	HACH CO. GROUND I		
Service Status Avg Monthly Usage Model #	IN 720.00 1720D	IN SE	RVICE (INCL. STANDBY)		Expected Life Total Usage Warranty Expire		00	MTBF	(,
Serial # Budget #	00100007906				Purchase Date	ş		Purchase (_	0.00
Initiated By Assigned To					Initiated Service		28/02/200	3 <u>Scheo</u> <u>Due</u>	duled 03/03	/2003 08:00
Authorization Budget # Crew			Cons	7)/~~	H	103			
Maint Type Priority			\sim			Q	wfl	h	-	
Problem Project Source	6054		CHRYSLER WA	TER V	VELL SYSTEM		,	Out of Service Potential Service		0
Last Activity								Last Activity Co	ompleted	
Task	A1836M	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	LYZER TURBIDITY					**************************************		e e e e e
Job Class	Crew Type		Description					Pay T	Noe	Hrs Worked
OP			OPERATOR							
Part#	<u>De</u>	scription						Qty R	lead	Qty Used
WATERS	so	APY WA	TER						1.00	
	T	ock Area	1		Stock Loc	285 88				
Tool	Description							Qty R		Qty Used
BOTBRU	SOFT BRUS								1.00	ļ
PORTAT	PORTABLE	TURBIDII	METER					1	1.00	

	Safety Pro Message	Description	schivity	Comments Com
	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
1				VACATED AND SECURED.
	JSP	JOB SAFETY PLANNING		TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZARD WILL BE ELIMINATED OR
ì	1			CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL
J	,			HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL.
ĺ	MONTH	MONTHLY PREVENTATIVE MTCE	1836M	INTRODUCTION:
				This Preventative Maintenance Procedure has been developed to aid field personnel in the care and

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Ontario Clean Water Agency

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Equipment Work Order

Report Date

28/02/2003 03:11 PM

Submitted By

Jean Veilleux

Page 2

Safety Procedures Jessage 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.
- Ensure all remote display or recording devices are within acceptable limits.
 Eg: Chart recorders, Outpost5, SCADA systems.

WPROT WORK PROTECTION

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

Labour		Choose Cre	w Type, Crew.ID.or.	lob Class		in the second		Green Green
Charge Date	800	Crew Type	Grew ID 2	Job Glass	Employee ID 3	7.5	Pay Type	Hours Worked
Vehicle Charge Date	Times	Crow	Choose Crow. Vehic Vehicle Type	e Type of ID	A CONTRACTOR	Total Us	Sage V	Usage .
Comments «								
Started Date	Time		000000	Hamila 19	<u>Date</u>		n.	Hours
Result		Conditi	20		Quantit	Ý	<u>Unit of</u>	Meas
Total Usage								
Data Group			Sign-aff					

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Equipment Work Order

(410)314-30001 ax	(410)314-0300					
Report Date	27/03/2003 08	:34 AM <u>Subm</u>	itted By Jean Veille	eux		Page 1
Work Order #	528248	Activity	A1101M	ANALYZER CH	LORINE	
Equipment ID	0000101101		Description	ANALYZEF	R CHLORINE TREATED	FLUO
Site	FAC	6054	Description	CRYSLER W	ATER WELL SYSTEM	
Subunit Of Area District Loc Qualifier	2 NSTO CRYSLER WTF	EASTERN REGION TOWNSHIP OF NORTH STORMO : ANALYZER CHLORINE - FLOURI		CHES DISF	CHESTERVILLE HU DISINFECTION (UV,	
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU PLAN IN 720.00 DEPLOX 3 U-99 AZ91670	INSTRUMENTATION PLANT BUILDING IN SERVICE (INCL. STANDBY) 5213	Manufacturer Building Level Expected Life Total Usage Warranty Expir	_	WALLANCE & TIER! GROUND LEVEL MTBF Purchase Cost	0 0.00
Initiated By Assigned To		4	Servic		Due	1/04/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem	Z	naid Ch	acked	6.0k	2 3 W/h	
Project Source Last Activity	WEEKPM	CHRYSLER W	VATER WELL SYSTEM EEKLY CHECKLIST		Out of Service Potential Service Reques Last Activity Completed	28/02/2003
Iask : 1 " "	A1101M	ANALYZER CHLORINE	A Company	n F ario Succession	and the second s	
Job Class	Crew Type	<u>Description</u>			Pay Type	Hrs Worked
OP		OPERATOR				
Part#	Desc	ciption	Sec. 1	4.5	Qty Read	Qtv Used

Task + 1	A1101M	ANALYZER CHLORINE	Topological and the second sec	**************************************	A STATE OF
Job Class	Crew Type	<u>Description</u>		Pay Type	Hrs Worked
OP		OPERATOR			
Part#	Descript	on		Qty Regd	Qty Used
MURACID	MURAT	C ACID		1.00	
	Stock A	<u>ea</u>	Stock Loc		
Safety Message	<u>Description</u>				
СНЕМНА	CHEMICAL HAZA	RD			

Safety Pro Message		Activity	Comments	
EEN	ENTRY AND EXIT NOTIFICATION		ENSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEEN NOTIFIED OF ENTRY INTO	
JSP	JOB SAFETY PLANNING		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 CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL	
монтн	MONTHLY PREVENTATIVE MTCE	A1101M	HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. 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

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Equipment Work Order

Report Date

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Safety Procedures, Message - Description

Activity - Commen

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

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Charge Date Time Cre	wType Crew ID, 110	Job Class Employee IDs	Pay Tybe	Hours Worked
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	Charge Date	<u>Time</u>	Crew	Vehicle Type	Vehicle ID		Total Usage	Usage X	
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Comments Server	el or verified	writ with Hard	· nocket
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Equipment Work Order

27/03/2003 08:	34 AM Submitted	i By Jean Veilleux			Page 1
528250	Activity	A1836Q AN	NALYZER TURBIC	OITY	
0000101836		Description	ANALYZER TU	RBIDITY CRYSLER	
FAC	6054	Description	CRYSLER WATER	₹ WELL SYSTEM	
2 NDUN CRYSLER WAT	EASTERN REGION TOWNSHIP OF NORTH DUNDAS ER TREATMENT SYSTEM:	Sub-area Loc	CHES WWE	CHESTERVILLE HUB WATER WELL	
INSTRU PS IN 720.00	INSTRUMENTATION PUMPING STATION BUILDING IN SERVICE (INCL. STANDBY)	Manufacturer Building Level Expected Life Total Usage	HACH G 25 0.00	HACH CO. GROUND LEVEL	
1720D 00100007906		Warranty Expires Purchase Date			0 0.00
		Initiated Da Service #	ate 27/03/2003	Scheduled 01/04 Due	1/2003 08:00
	Ch	ecked (again	I Han	L ; ay.
				wish	
6054 WEEKPM			P		□ □ 28/02/2003
	528250 0000101836 FAC 2 NDUN CRYSLER WAT INSTRU PS IN 720.00 1720D 00100007906	528250 Activity 0000101836 FAC 6054 2 EASTERN REGION NDUN TOWNSHIP OF NORTH DUNDAS CRYSLER WATER TREATMENT SYSTEM: INSTRU INSTRUMENTATION PS PUMPING STATION BUILDING IN IN SERVICE (INCL. STANDBY) 720.00 1720D 00100007906 CAC	528250 Activity A1836Q Description FAC 6054 Description 2 EASTERN REGION NDUN TOWNSHIP OF NORTH DUNDAS CRYSLER WATER TREATMENT SYSTEM: INSTRU INSTRU INSTRUMENTATION PS PUMPING STATION BUILDING IN IN SERVICE (INCL. STANDBY) 720.00 1720D 00100007906 Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date Initiated Di Service #	528250 Activity A1836Q ANALYZER TURBIC 0000101836 Description FAC 6054 Description CRYSLER WATER 2 EASTERN REGION NDUN TOWNSHIP OF NORTH DUNDAS CRYSLER WATER TREATMENT SYSTEM: INSTRU INSTRU INSTRUMENTATION PS PUMPING STATION BUILDING IN IN SERVICE (INCL. STANDBY) FY20.00 1720D Warranty Expires 00100007906 Manufacturer HACH Expected Life 25 Total Usage 0.00 Warranty Expires Purchase Date Initiated Date 27/03/2003 Service #	528250 Activity A1836Q ANALYZER TURBIDITY 0000101836 Description ANALYZER TURBIDITY CRYSLER WATER WELL SYSTEM 2 EASTERN REGION NDUN TOWNSHIP OF NORTH DUNDAS Loc WWE WATER WELL CRYSLER WATER TREATMENT SYSTEM: INSTRU INSTRU INSTRUMENTATION PS PUMPING STATION BUILDING Building Level IN IN IN SERVICE (INCL. STANDBY) Total Usage Water Water Water Well Expected Life 25 Total Usage 0.00 Warranty Expires MTBF Purchase Date Purchase Cost Initiated Date Service # Due CHRYSLER WATER WELL SYSTEM Out of Service Potential Service Request

Iask	A18360	ANALYZER TURBIDITY	profession problems of the first		
Job Class	Crew Type	Description		Pay Type	Hrs Worked
1109		OPERATOR/MECHANIC			
Part#	<u>Descript</u>	ion		Qty Req₫	Qty Used
WATERS	SOAPY	WATER		1.00	
	Stock A	rea	Stock Loc		
<u>Tool</u>	Description			Qty Read	Qty Used
BOTBRU	SOFT BRUSH			1.00	
PORTAT	PORTABLE TURE	BIDIMETER		1.00	

Safety Procedures	Table 1			46 (40)
Message Description	Activity	Comments	3 B 3 B	The state of the s
	10 to 10 to			

3MONTH QUARTERLY MAINTENANCE

A1836Q 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

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Equipment Work Order

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Page 2

Safety Procedures Messages Description

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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

ENTRY AND EXIT NOTIFICATION

JOB SAFETY PLANNING

WPROT WORK PROTECTION

EEN

JSP

A1836Q

- 5) Inspect o-rings and lamp assembly for any defects.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 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 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

PROCEDURE.

Labour		<u>Choose Cre</u>	w Type: Crew ID or .	lob Class a first	Annual of the state of the state of	
Charge Date	Time	Crew Type	Crew ID	Job Class	Employee Divis	Pay Type Hours Worked
			_			

Vehicle 4		Chi	oose Crew. Vehicle Typ	ociDd 14 Table 1		entra esperante	Sept.
Charge Date	Ime	Crew	Vehicle Type	Vehicle ID	J	otal Usage	Usage.

Comments			

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Equipment Work Order

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Report Date	27/03/2003 08	:34 AM Submitte	ed By Jean Veilleux			Page 1
Work Order #	528252	Activity	A1836A AN	NALYZER TURBII	DITY	
Equipment ID	0000101836		Description	ANALYZER TU	RBIDITY CRYSLER	
Site Subunit Of	FAC	6054	Description	CRYSLER WATE	R WELL SYSTEM	
Area	2	EASTERN REGION	Sub-area	CHES	CHESTERVILLE HUB	
District	NDUN	TOWNSHIP OF NORTH DUNDAS	Loc	WWE	WATER WELL	
Loc Qualifier		ER TREATMENT SYSTEM:			·	
Equipment Type	INSTRU	INSTRUMENTATION	<u>Manufacture</u> r	HACH	HACH CO.	
Building	PS	PUMPING STATION BUILDING	Building Level	G	GROUND LEVEL	
Service Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	25		
Avg Monthly Usage	720.00		Total Usage	0.00		
Model #	1720D		Warranty Expires		MTBF	0
Serial #	00100007906		Purchase Date		Purchase Cost	0.00
Budget#						
Initiated By			Initiated D	rate 27/03/2003	Scheduled 01/04	1/2003 08:00
Assigned To			Service #	<u> </u>	Due Due	,,,2000 00.00
<u>Crosidition</u> 1.0						
<u>Authorization</u>			Redund l	<i>+</i> `		
Budget #		/	D dund		j	
Crew		<i>f</i> /	Rx WW	Y	40/03	
Maint Type		, V	'	anul "		
Priority			l	M' /		
Problem	0054			· \ /	Out of Service	
<u>Project</u>	6054	CHRYSLER WA	TER WELL SYSTEM	_	Dut of Service Potential Service Request	
Source	WEEKPM	DEDECOM WEE	KLY CHECKLIST	_	ast Activity Completed	
Last Activity	WEEKFIVI	PERI ORW WEE		<u>. </u>	ast Activity Completed	26/02/2003
Task Task	A1836A	ANALYZER TURBIOTTY	A CONTRACT OF STREET	Carrier Straffer	Property of the second	A CONTRACTOR OF THE PARTY OF TH
Job Class	Crew Type	Description			Pay Type	Hrs Worked
1109		OPERATOR/MECHANIC			1	1

Tesk	A1836A	ANALYZER TURBIDITY	Control of the Contro	Paralle of the Sale of the Sale	
Job Class	Crew Type	Description		Pay Type	Hrs Worked
1109		OPERATOR/MECHA	NIC		
Part#	Descript	ion		Qty Regd	Qty Used
WATERS	SOAPY	WATER		1.00	
	<u>Stock A</u>	r <u>e</u> a	Stock Loc		
<u>Tool</u>	<u>Description</u>			Qty Regd	Qty Used
BOTBRU	SOFT BRUSH			1.00	
PORTAT	PORTABLE TURE	BIDIMETER		1.00	

Safety Procedures
Message Description Activity Comments

ANNUAL ANNUAL MAINTENANCE

A1836A 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

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

Equipment Work Order

Report Date

27/03/2003 08:34 AM

Submitted By

Jean Veilleux

Page 2

Report Da	ate 27/03/2003 08:34	AM Submitted B	y Jean Veilleux	Page 2
Safety Pro Message	cedures Description	Activity - Commenta-		Tribanas Para Tr
<u> </u>		are to be rec	orded on the Hansen Feedback Sheet.	
		RUNNING C	HECKS:	
			leaks from the sample piping and drain lines. play for alarm conditions or fault messages.	
		MAINTENAI	NCE PROCEDURE:	
) Drain the	nple line. lead assembly from body of turbidimeter. body by removing plug from bottom of body. lubble trap from body. (Special tool available	
1			rain plug, fill body with a diluted chlorine solut	1
		, · · · ·	rior of body using a soft brush.	
		✓7) Drain chlo	rine solution and flush body.	
			inspect gaskets. Replace as required.	
		<i>,</i> ·	lamp, lens and photocell window.	
		· ·	calibration of unit following MFG guidelines/ u	ising a formazin solution or the HACH ICE
ΔΝΝΙΙΔΙ	ANNUAL MAINTENANCE	PICK system A1836A Measure 1 li	re of low turbidity water into calibration cylinde	er.
ANTOAL	ANTONE WINNING ENAMOR		assembly into calibration cylinder.	
		Swirl cylinde	r to remove air bubbles.	
		Press SYS F	RESET and 6 SIG AVG allow to stand until re-	ading stabilizes.
		Press 0.0 S		
		Prepare pipe		
			solution and add to calibration cylinder. d assembly allow to stand until reading stabili	700
		·		Divided in the surbidity of the dilution versions of the dilution versions.
		,	o-rings and lamp assembly for any defects.	THE Standard and the tarbidity of the amount
			head assembly into turbidimeter body.	
		13) Open sa	mple line valve, ensure proper sample flow ra	te
		_ ·	all remote display or recording devices are wit	hin acceptable limits.
			recorders, Outpost5, SCADA systems.	
EEN	ENTRY AND EXIT NOTIFICAT		RECT SUPERVISOR OR THEIR DESIGNA THE FOLLOWING INFORMATION SHOULD	TE HAVE BEEN NOTIFIED OF ENTRY INTO
1				TION TO BE GIVEN THAT SITE HAS BEEN
			AND SECURED.	Service Services
JSP	JOB SAFETY PLANNING			EACH HAZARD WILL BE ELIMINATED OR
		=	ED. WORK PRACTICES MUST BE IN ACC	
			SAFETY ACT AND THE ONTARIO CLEAN ' ND DE-ENERGIZE THE EQUIPMENT IN AG	
WPROT	WORK PROTECTION	PROCEDUI		CCORDANCE WITH THE LOCK-OUT
		PROCEDO	C.	
Labour	THE SECOND	Choose Crew Type, Crew ID or Job Cl	iss.	The second secon
		The second second	Slass Employee ID	Pay Type Hours Worked
Charge D		TIME CICHTERNAL SOU		
Muy	79/23 10:MIST		80636	R 2
Vehicle Charge D	anio I Time / C	Choose Crew, Vehicle Typ	vehice iD	Total Usage 1 Usage
			<u> </u>	

498 NTU

Past cal tite Pick 451 NTU Formy in

Flow at 300 stymen. Read in Output . MEI TO . 45

from Viller

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

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

Equipment Work Order

	10/04/2003 07	:47 AM Subm	itted By Jean Veil	leux		Page 1
Work Order#	537967	Activity	A1101A	ANALYZER CH	ORINE	
Equipment ID	0000101101		Description	ANALYZER	CHLORINE TREATED	FLUO
Site	FAC	6054	Description	CRYSLER WA	ATER WELL SYSTEM	
Subunit Of						
<u>Area</u>	2	EASTERN REGION	Sub-area	CHES	CHESTERVILLE HUB	}
<u>District</u>	NSTO	TOWNSHIP OF NORTH STORMO	NT <u>Loc</u>	DISF	DISINFECTION (UV, 0	CHLORINATION
Loc Qualifier	CRYSLER WTP	: ANALYZER CHLORINE - FLOURII	DE TRT WATER			
Equipment Type	INSTRU	INSTRUMENTATION	Manufact <u>ure</u> r	WALL	WALLANCE & TIERN	AN
Building	PLAN	PLANT BUILDING	Building Leve	l G	GROUND LEVEL	
Service Status	IN	IN SERVICE (INCL. STANDBY)	Expected Life	•		
Avg Monthly Usage	720.00	, , , , , , , , , , , , , , , , , , , ,	Total Usage	0.00		
Model#	DEPLOX 3 U-95	5213	Warranty Exp		MTBF	0
Serial #	AZ91670		Purchase Dat	e	Purchase Cost	0.00
Budget #						1 //
Initiate of Division			I Min-	Conversion		2 hill
Initiated By			initia:	ed Date 46/04/20	93 Scheduled Of	05/2003 08:00
Assigned To			Liebert Wall	YE#	Due	1.38°
Authorization			11 ester	1		1.12
Budget #		/* I		1)	\mathcal{L}	
Crew			<i>A</i> .	d	$\frac{1}{2}$	121
Maint Type		1	Indie	~ · // a	φ / 0 \supset	1.5
Priority		- I	\mathcal{N}^{-}	d. to		
Problem		(·W		\sim		
	6054	CHRYSLER W	VATER WELL SYSTEN	<i>y</i>	Out of Service	
<u>Project</u>						
Project Source			v	()	Potentia Service Request	, D
Source	WEEKPM	PERFORM W	EEKLY CHECKLIST	X	Fotentia/Service Request	☐ ☐ / 31/03/2003
Source	WEEKPM	PERFORM W.	EEKLY CHECKLIST	8		\cup
Source Last Activity			EEKLY CHECKLIST	(\cup
Source Last Activity	<u>A1101A</u>	ANALYZER CHLORINE	EEKLY CHECKLIST		ast Adminity Completed	31/03/2003
Source Last Activity Task Job Class		ANALYZER CHLORINE Description	EEKLY CHECKLIST			\cup
Source Last Activity Task Job Class INST	A1101A Crew Type	ANALYZER CHLORINE	EEKLY CHECKLIST		ast Adminity Completed	31/03/2003
Source Last Activity Task Job Class	<u>A1101A</u>	ANALYZER CHLORINE Description INSTRUMENT	EEKLY CHECKLIST		ast Adminity Completed	V31/03/2003

ANNUAL ANNUAL MAINTENANCE

A1101A 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.

RUNNING CHECKS

1) Test alarm set points.

Equipment Work Order

Report Da	ate 16/04/2003 07:47 AM	Submitted By Jean Veilleux	Page 2
Safety Pro- Message	cedures Description	Activity Comments	
		MAINTENANCE PROCEDURES	
		1) Isolate the analyser and turn the power off.	
		Clean and flush all water lines, strainers and tubing.	
		3) Remove the sample cell and clean with a weak solution of muriatic aci	id.(5%)
		 Clean and inspect the two electrodes. Ensure that the copper ring ele 	ectrode is not worn thin from
		water flow and the abrasive grit.	
		Inspect and replace any o-rings as required.	
		Reassemble the electrodes and the sample cell.	
		Adjust the flow control valve to the desired flow.	
		 Add a pinch of abrasive grit to the sample cell. This helps reduce the sample. 	scale build up on the electroo
		Calibrate the unit, and return to service.	
EEN	ENTRY AND EXIT NOTIFICATION	ENSURE DIRECT SUPERVISOR OR THEIR DESIGNATE HAVE BEE	
		THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE AP	
		DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GI	IVEN THAT SITE HAS BEEI
		VACATED AND SECURED.	D 14011 DE EL BANATED O
JSP	JOB SAFETY PLANNING	TAKE TIME TO IDENTIFY HAZARDS AND PLAN HOW EACH HAZAR	
		CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE W	
MEDOT	WORK PROTECTION	HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGEN ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE	
WPROT	WORK PROTECTION	PROCEDURE.	WITH THE LOCK-OUT
		FROGEDONE.	

Labour Choose Crew Type, Crew ID or	ob Class		
Charge Date Time Crew Type Crew ID	Job Class Employee ID	Pay Type	Hours Worked
Muy21/0)	70 636	R	1

Vehicle	Choo	se Crew, Vehicle Type	or ID			
Charge Date Time	Crew	Vehicle Type	Vehicle ID	27	Total Usage	Usage

Comments A	Laurel	1.30 4/x	Hack	sucket what	at 1.27.21-	- Cull
(0.)	<i>W</i> .	9/ /			- 0	

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Equipment Work Order

Report Date	22/05/2003	09:36 AM		Submitted By	Jean Veilleux						Page 1
Work Order #	550226		<u>Activity</u>	<u>(</u> A1	101M AN	IALYZ	ZER CHLOR	INE			
Equipment ID	000010110	01			<u>Description</u>	ANA	ALYZER CHI	LORIN	IE TREAT	ED FL	UO
<u>Site</u> Subunit Of	FAC	6054			Description	CRY	SLER WATER	WELL	SYSTEM		
Area District Loc Qualifier	2 NSTO CRYSLER W	EASTERN F TOWNSHIP VTP: ANALYZER	OF NORTH ST		Sub-area Loc WATER	CHE			STERVILLE FECTION (U		ORINATION
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU PLAN IN 720.00 DEPLOX 3 L AZ91670			ву)	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	WAL G 25 0.00		GROU MTBF	ANCE & TIE	0	00
Initiated By Assigned To					Initiated Da Service #	ate	22/05/2003		Scheduled Due	02/06/2	2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	6054 WEEKPM			LER WATER V RM WEEKLY (VELL SYSTEM CHECKLIST		Po		<u>rvice</u> Service Req ity Complete	uest	30/04/2003
Task	A1101M	ANALYZE	ER CHLORINE								
Job Class	Crew Type	Descri	iption				Std Hrs	Ē	Pay Type		Hrs Worked
ОР		OPER	ATOR				c	0.50			
Part #	<u>D</u>	<u>escription</u>						9	Qty Reqd		Qty Used
MURACID	M	NURATIC ACID								1.00	İ
	<u>s</u>	tock Area			Stock Loc						
Safety Message	Description						·				
СНЕМНА	CHEMICAL	. HAZARD									
Safety Procedures Message Description	מכ	2	Activity	Comments						Šą.	
	AND EXIT NOTI			THE SITE. TH DURATION. C VACATED AN TAKE TIME TO CONTROLLE	O IDENTIFY HAZAR D. WORK PRACTIC	ORMA F DUTI DS AN CES MU	TION SHOULD IES NOTIFICAT ID PLAN HOW JST BE IN ACC	PROVION TO EACH	IDE APPRO D BE GIVEN HAZARD W INCE WITH	XIMATE I THAT S ILL BE THE OC	E TIME AND SITE HAS BEEN ELIMINATED OF CCUPATIONAL
MONTH MONTHL	Y PREVENTAT	TIVE MTCE	A1101 M	INTRODUCTION	NFETY ACT AND TH ON: ive Maintenance Pro						

maintenance of the specified equipment. However, maintenance personnel are expected to look for and

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

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

Equipment Work Order

Report Date

22/05/2003 09:36 AM

Submitted By

Jean Veilleux

Page 2

Safety Procedures Message Description

Activity Comments

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

Labour		Choose	Crew Type, Crew II	or Job Class		4		1
Charge Date	Time	Crew Type	Crew ID	Job Class	Employee ID		Pay Type	Hours Worked
19/00/03					00130		e	1
	1) 1.1.	10.001	11	· / · ·	diam's t	7)	1 .	~
Comments	vigue	ar well	nair	poche	doreinter	·	lay.	-71.27.y/
range.	Mck. 1.	+13/2 -	CL SI	a plan	eyt as as	, 400.	zl	
Started			Completed		117-1 127-1			
Date	•	Time	Ву		Date	Time		Hours
Result			ndition		Quant	ia.	11.4.	f Meas
nesuit			HOROTI		Quant	iity	Unico	IVIERS
Total Usage								
				1	1) 1/1			
Data Group			Sign-off	flows	Vellen	<u> </u>		·

Ontario Clean Water Agency 1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5

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JSP

JOB SAFETY PLANNING

MONTH MONTHLY PREVENTATIVE MTCE

Equipment Work Order

Report Date	22/05/2003 09:3	6 AM	Submitted By	Jean Veilleux				P	age 1
Work Order #	550227	Activit	y A18	36M AI	NALYZE	R TURBIC	DITY		
Equipment ID	0000101836			Description	ANAL	YZER TU	RBIDITY CRYSI	.ER	
Site	FAC 6	6054		Description	CRYS	LER WATER	R WELL SYSTEM		
Subunit Of Area District Loc Qualifier	NDUN	EASTERN REGION TOWNSHIP OF NORTH DU R TREATMENT SYSTEM:	JNDAS	Sub-area Loc	CHES WWE		CHESTERVILLE WATER WELL	HUB	
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	PS I	NSTRUMENTATION PUMPING STATION BUILD N SERVICE (INCL. STAND	BY)	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	HACH G 25 0.00		HACH CO. GROUND LEVEL MTBF Purchase Cost	0 0.00	
Initiated By Assigned To				Initiated D Service #		2/05/2003	Scheduled Due	02/06/2003 08:	00
Source Last Activity	6054 WEEKPM		SLER WATER W			P	ut of Service otential Service Rec ast Activity Complet		003
Job Class	Crew Type	Description				Std Hrs	Pay Type	Hrs Wo	orked
OP		OPERATOR			~		0.50		
Part #	Descri	ption					Qty Reqd	Qty Us	ed
WATERS	SOAP	Y WATER						1.00	
	Stock	Area		Stock Loc			0. 5		
Tool	<u>Description</u>						Qty Reqd	Qty Us	<u>ea</u>
PORTAT	PORTABLE TUP	DIDIMETED						1.00	
Safety Procedures Message Description		Activity	Comments ENSURE DIRE	CT SUPERVISOR	OR THE	IR DESIGNA	TE HAVE BEEN N		TRY IN
	EAN NOTE TOA		THE SITE. THE	FOLLOWING INF N COMPLETION C	FORMATI	ON SHOUL	D PROVIDE APPROTION TO BE GIVE	OXIMATE TIME A	AND

A1836M 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

22/05/2003 09:36 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 PROCEDURE.

WPROT WORK PROTECTION

Charge Date	<u>Time</u>	Crew Type	Crew ID	Job Class	Employee ID	Pay Type	Hours Worked
me14/03					80036	R	1

Started	**************************************	Completed	Though the Assessment County County County		
Date	Time	Ву	Date	Time	Hours
Result		Condition	Quantity		Unit of Meas

Total Usage

Data Group

Sign-off fearabilling

FCEP:ih -7. 533 Pru - OK

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Equipment Work Order

Report Date	04/07/2003 10	:06 AM Submitted	d By Jean Veilleu	x		Page 1
Work Order#	580312	<u>Activity</u>	A1836Q A	NALYZER TUR	BIDITY	
Equipment ID	0000101836		Description	ANALYZER 1	URBIDITY CRYSLER	
<u>Site</u> Subunit Of	FAC	6054	Description	CRYSLER WAT	ER WELL SYSTEM	
Area District Loc Qualifier	2 NDUN CRYSLER WAT	EASTERN REGION TOWNSHIP OF NORTH DUNDAS TER TREATMENT SYSTEM:	Sub-area Loc	CHES WWE	CHESTERVILLE HUB WATER WELL	
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU PS IN 720.00 1720D 00100007906	INSTRUMENTATION PUMPING STATION BUILDING IN SERVICE (INCL. STANDBY)	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	HACH G 25 0.00	HACH CO. GROUND LEVEL MTBF Purchase Cost	0 0.00
Initiated By Assigned To			Initiated Service		Scheduled 01/0	07/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	6054 WEEKPM	CHRYSLER WAT PERFORM WEEK	ER WELL SYSTEM (LY CHECKLIST		Out of Service Potential Service Request Last Activity Completed	
CONTRACTOR AND AND AND AND AND AND AND AND AND AND	an we have					

<u>Task</u>	A1836Q	Δl	NALYZER TURBI	DITY	is a		113423				
Job Class	Crew Ty	/pe	Description				Std Hrs		Pay Type		Hrs Worked
1109			OPERATOR/ME	CHANIC				1.00			
Part #		Description	ĵ						Qty Reqd		Qty Used
WATERS		SOAPY W	PY WATER					1.00			
		Stock Area	a		Stock Loc						
Tool	Descrip	<u>tion</u>							Qty Reqd		Qty Used
BOTBRU	SOFT B	BRUSH								1.00	
PORTAT	PORTA	BLE TURBID	DIMETER							1.00	

Performance Indica	ator Description	E Prick	Hasting and	Measured Value
OLRB	ON LINE METER READING BEGIN	.715	13-63	14.56
OLRF	ON LINE METER READING FINISH	.555	,298	20.22
OM%D	ON LINE METER PERCENT OF DRIFT	2400	15%	189

Flow

320 ml/min

3MONTH QUARTERLY MAINTENANCE

ENTRY AND EXIT NOTIFICATION

JOB SAFETY PLANNING

WPROT WORK PROTECTION

EEN

JSP

Equipment Work Order

Page 2

Report Date 04/07/2003 10:06 AM Submitted By Jean Veilleux Safety Procedures Message Description Activity Comments 3MONTH QUARTERLY MAINTENANCE A1836Q 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. **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 Lisolate sample line. 2) Remove head assembly from body of turbidimeter. 3) Glean 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.

> Replace head assembly into turbidimeter body. Open sample line valve, ensure proper sample flow rate 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 THE SITE. THE FOLLOWING INFORMATION SHOULD PROVIDE APPROXIMATE TIME AND DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEEN

Press 20.0 STD the display will show the value of the 20.0 NTU standard and the turbidity of the dilution w

VACATED AND SECURED. 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 PROCEDURE.

Labour		Choose Crev	v Type, Crew ID or	Job Class					12	
Charge Date T	ime Cr	ew Type	Crew ID	Job Class	Eŋ	ployee ID	a		Pay Type	Hours Worked
17/05/03					Д	eau V.	ei	lled	R	1

A1836Q 5) Inspect o-rings and lamp assembly for any defects.

Equipment Work Order

Report Date	04/07/2003 10:06 AM	Subm	itted By Jean \	/eilleux		Page 3
Work Order#	580312	Activity	A1836Q	ANALYZER TURI	BIDITY	(/*
Started		Completed			1	Sa.
Date	Time	Ву		Date	<u>Time</u>	Hours
Result		Condition		Quantity		Unit of Meas
Total Usage						
Data Group		Sign-off				

MONTH MONTHLY PREVENTATIVE MTCE

Equipment Work Order

Report Date	03/10/2003 01	:08 PM	Submitted By	Jean Veilleux	<u> </u>			Page 1
Work Order#	601941	Activity	A18	336M A	NALYZER TUR	BIDITY		
Equipment ID	0000101836			Description	ANALYZER T	URBIDITY CRY	SLER	
<u>Site</u> Subunit Of	FAC	6054		Description	CRYSLER WAT	TER WELL SYSTE	М	
Area District Loc Qualifier	2 NDUN CRYSLER WAT	EASTERN REGION TOWNSHIP OF NORTH DU ER TREATMENT SYSTEM:	NDAS	Sub-area Loc	CHES WWE	CHESTERVIL WATER WELI		
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU PS IN 720.00 1720D 00100007906	INSTRUMENTATION PUMPING STATION BUILDI IN SERVICE (INCL. STANDE		Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	HACH G 25 0.00	HACH CO. GROUND LEV MTBF Purchase Cos	0	.00
Initiated By Assigned To				Initiated [Service #		Schedule Due	ed 01/08/2	2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	6054 A1836M		LER WATER W ZER TURBIDIT			Out of Service Potential Service F Last Activity Comp	<u>Reques</u> t	
Work Order Comme Missed verification b		d turbidity reading recorded in I	og book. 0.061	NTU				
Task	A1836M	ANALYZER TURBIDITY						
Tool	Description					Qty Requ	j	Qty Used
BOTBRU	SOFT BRUSH						1.00	
PORTAT	PORTABLE T	URBIDIMETER					1.00	
Performance Indica	itor Description	00			Low Value	High Value	Measure	ed Value
OLRB	ON LINE	METER READING BEGIN					0.0	61 NTU
OLRF	ON LINE	METER READING FINISH					0.0	61
OM%D	ON LINE	METER PERCENT OF DRIFT	<u> </u>				0	
Safety Procedures Message Descripti	On .	Activity	Comments	entonone. Viole III Violence Viole			FEBRUARY FEB	
_	AND EXIT NOTIFIC	CATION	THE SITE. TH DURATION. O VACATED AN	E FOLLOWING IN IN COMPLETION (D SECURED.	R OR THEIR DESIG FORMATION SHO OF DUTIES NOTIFI RDS AND PLAN H	ULD PROVIDE API ICATION TO BE GI	PROXIMAT VEN THAT	E TIME AND SITE HAS BEEN

A1836M INTRODUCTION:

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

Equipment Work Order

Report Date 03/10/2003 01:08 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 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 Completed Started Time <u>Date</u> <u>Date</u> 80636 24/09/2003 Time 08:00 **Hours** Result COMPLET Condition Quantity Unit of Meas Total Usage Jean Vellure Sign-off Data Group

Ontario Clean Water Agency 1 Yonge Street, Suite 1700 Toronto, ON M5E-1E5

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

Equipment Work Order

Report Date	03/10/2003 01	:04 PM	Submitted By	Jean Veilleux	(Page 1
Work Order #	601937	<u>Activi</u>	ty A11	01M A	NALYZER CHLC	DRINE	
Equipment ID	0000101101			<u>Description</u>	ANALYZER C	HLORINE TREA	TED FLUO
<u>Site</u> Subunit Of	FAC	6054		Description	CRYSLER WAT	ER WELL SYSTEM	
Area District	2 NSTO	EASTERN REGION TOWNSHIP OF NORTH S	TORMONT	Sub-area Loc	CHES DISF	CHESTERVILLE DISINFECTION	EHUB (UV, CHLORINATION
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU PLAN IN 720.00 DEPLOX 3 U-98 AZ91670	: ANALYZER CHLORINE - I		Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	WALL G 25 0.00	WALLANCE & T GROUND LEVE MTBF Purchase Cost	
Initiated By Assigned To				Initiated I		Scheduled Due	01/08/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	6054 A1101M		SLER WATER W YZER CHLORINE			Out of Service Potential Service Re-	- -
Work Order Comme Calibrated using Had		alyzer					
ActDefn Comments WALLANCE & TIEF	RNAN DEPOLOX 3	CL2 ANALYZER					
Task Safety Message CHEMHA	A1101M Description CHEMICAL HA	ANALYZER CHLORINE					
Safety Message	Description CHEMICAL HA	ZARD			Low Value	High Value	Measured Value
Safety Message CHEMHA Performance Indica OLRB	Description CHEMICAL HA tor Descriptio ON LINE	ZARD D METER READING BEGIN			Low Value	High Value	Measured Value 2.28 mg/L
Safety Message CHEMHA Performance Indica	Description CHEMICAL HA tor Descriptio ON LINE ON LINE	ZARD			Low Value	High Value	_
Safety Message CHEMHA Performance Indica OLRB OLRF	Description CHEMICAL HA tor Descriptio ON LINE ON LINE TEST ME	ZARD D METER READING BEGIN METER READING FINISH			Low Value	High Value	228 m/L

MONTH MONTHLY PREVENTATIVE MTCE

JOB SAFETY PLANNING

HEALTH & SAFETY ACT AND THE ONTARIO CLEAN WATER AGENCY SAFETY MANUAL. A1101M INTRODUCTION:

VACATED AND SECURED.

DURATION. ON COMPLETION OF DUTIES NOTIFICATION TO BE GIVEN THAT SITE HAS BEE

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

CONTROLLED. WORK PRACTICES MUST BE IN ACCORDANCE WITH THE OCCUPATIONAL

Equipment Work Order

Report Date

03/10/2003 01:04 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.

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

WPROT WORK PROTECTION

Started		Completed				legillijus.		li de la company
Date	Time	Ву 80636	Date	05/08/2003	<u>Time</u>	08:00	Hours	1.00
Result COMPLET		10 M P EF 1 P 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2					res estrución	
esult COMPLET		Condition		Quantity	L	<u>U</u>	nit of Meas	

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

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

Equipment Work Order

Report Date 03/10/2003 01:09 PM Submitted By Jean Veilleux Page 1 Work Order # 601936 **Activity** A1100A METER FLOW **Equipment ID** 0000101100 **Description** METER FLOW TREATED DISCH <u>Site</u> FAC 6054 Description CRYSLER WATER WELL SYSTEM Subunit Of 2 **EASTERN REGION** <u>Area</u> Sub-area CHES CHESTERVILLE HUB **District** NSTO TOWNSHIP OF NORTH STORMONT FLOWMETER(FLOW MEASURING & REC Loc FLOW Loc Qualifier CRYSLER WTP, FLOW METER TREATED DISCH Equipment Type INSTRU INSTRUMENTATION Manufacturer **ENDRES ENDRESS & HAUSER CANADA LTD** Building PLAN PLANT BUILDING **Building Level** G **GROUND LEVEL** Service Status IN IN SERVICE (INCL. STANDBY) Expected Life 25 Avg Monthly Usage 70.00 Total Usage 0.00 Model# 30FH80-7D1ED11F218 Warranty Expires <u>MTBF</u> 0 Serial # TZ274502 Purchase Date Purchase Cost 0.00 Budget # Initiated By 25/06/2003 **Initiated Date** 01/08/2003 08:00 **Scheduled** Assigned To Service # <u>Due</u> <u>Authorization</u> Budget # <u>Crew</u> Maint Type **Priority Problem** 6054 CHRYSLER WATER WELL SYSTEM <u>Project</u> Out of Service Source 5 4 1 Potential Service Request Last Activity A1100A METER FLOW Last Activity Completed 03/10/2003 Work Order Comments Annual inspection completed. ActDefn Comments METER O&M MANUAL

Safety Message	Description		
SHOCK	ELECTRICAL HAZARD		
<u>Tool</u>	Description	Qty Reqd	Qty Used
DIGMUL	DIGITAL MULTIMETER	1.00	
SIMULA	PROCESS SIMULATOR	1.00	

Performance Indicator	Description	Low Value	High Value	Measured Value
AOE%	AVERAGE OUTPUT ERROR PERCENT			. 56
IN1F	INPUT (1)			0.0
IN2F	INPUT (2)			18,7
IN3F	INPUT (3)			
N4F	INPUT (4)			
01	OUTPUT THEORETICAL (1)			4.00
O1M	OUTPUT MEASURED (1)			3.99
O2	OUTPUT THEORETICAL (2)			9.39

Comments

Equipment Work Order

03/10/2003 01:09 PM Report Date Submitted By Jean Veilleux Page 2 Work Order # 601936 A1100A **METER FLOW Activity** Performance Indicator Description Low Value High Value Measured Value O2M **OUTPUT MEASURED (2)** 9.21 О3 **OUTPUT THEORETICAL (3)** ОЗМ **OUTPUT MEASURED (3) OUTPUT THEORETICAL (4)** 04 O4M **OUTPUT MEASURED (4)** Safety Procedures Message Description <u>Activity</u> Comments ANNUAL ANNUAL MAINTENANCE INTRODUCTION: A1100A 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) Verify calibration parameters and programming parameters where applicable. 2) Ensure proper connections and grounding. 3) Check display for any alarm or error codes. ANNUAL ANNUAL MAINTENANCE A1100A MAINTENANCE PROCEDURE: 1) Have a qualified technician calibrate the unit, using actual flow method or flow simulator. 2) Calibration records must be kept for a period of five years. 3) Records shall include the level of accuracy of the equipment as found and as left. 4) Calibration test equipment shall be certified annually and certification dates recorded on the calibration record. Some test equipment may not require calibration 5) Record any adjustments, modifications or replacements made to the equipment during the calibration. 6) Verify accuracy of electronic outputs to the end device as required based on theoretical versus actual values .{Chart recorders, SCADA, Outpost 5} 7) Ensure all nameplate data is recorded and entered in WMS. 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. ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT WPROT WORK PROTECTION PROCEDURE.

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

Equipment Work Order

Report Date	ort Date 03/10/2003 01:09 PM			Submitted By Jean Veilleux					Page 3			
Work Order # 601936		Activity	A1100A	A METER FLOW					-			
Started			Completed									
Date 25/06/20	003 Time	08:00	By 80300		Date	03/10/2003	Time	11:13	Hours	2.00		
Result COMP	LET	Co	ondition A			Quantity		<u>ن</u>	nit of Meas			
Total Usage												
Data Group			Sign-off		an	() ill	ine					
***************************************						-,	V- —					

Equipment Work Order

Report Date	03/10/2003 12	:58 PM Submitted	d By Jean Veilleux				Page 1
Work Order#	628980	<u>Activity</u>	A1836M AN	IALYZER TURBIDI	TY		
Equipment ID	0000101836		Description	ANALYZER TUR	BIDITY CRYSL	.ER	
<u>Site</u> Subunit Of	FAC	6054	Description	CRYSLER WATER \	WELL SYSTEM		
Area District Loc Qualifier	2 NDUN CRYSLER WAT	EASTERN REGION TOWNSHIP OF NORTH DUNDAS 'ER TREATMENT SYSTEM:	<u>Sub-area</u> <u>Loc</u>		CHESTERVILLE WATER WELL	HUB	
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU PS IN 720.00 1720D 00100007906	INSTRUMENTATION PUMPING STATION BUILDING IN SERVICE (INCL. STANDBY)	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	G 25 0.00	HACH CO. GROUND LEVEL MTBF Purchase Cost	0 0.00	
Initiated By Assigned To			Initiated Da Service #	ate 22/09/2003	Scheduled Due	01/09/2003 (00:80
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity	6054 A1836M	CHRYSLER WAT ANALYZER TURE	ER WELL SYSTEM BIDITY	Pote	<u>of Service</u> ential <u>Service Req</u> t <u>Activity Complet</u> e	_	9/2003
Work Order Commo			- 4				
Task	A1836M	ANALYZER TURBIDITY	Dillionname 2004;		1954 Training 1944	TAGENTALIS S	Action Course
Tool	Description			III de sire.	Qty Reqd	Qty	Used
BOTBRU	SOFT BRUSH					1.00	
PORTAT	PORTABLE TO	URBIDIMETER				1.00	
Performance Indica	tor Descriptio	ם ביי ביי ביי ביי ביי ביי ביי ביי ביי בי		Lów Value Hig	ıh Value	Measured Val	<u>ue</u>
OLRB	ON LINE	METER READING BEGIN				.516	
OLRF		METER READING FINISH				,516	
OM%D	ON LINE	METER PERCENT OF DRIFT	Villiand			0	
Safety Procedures Message Description	<u>on</u>	Activity Comment	S Company				
EEN ENTRY	AND EXIT NOTIFIC	ATION ENSURE	DIRECT SUPERVISOR	OR THEIR DESIGNAT	E HAVE BEEN N	OTIFIED OF E	ENTRY INT

JOB SAFETY PLANNING

JSP

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

MONTH MONTHLY PREVENTATIVE MTCE A1836M INTRODUCTION:

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

Equipment Work Order

Page 2 03/10/2003 12:58 PM Submitted By Jean Veilleux Report Date 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 Completed Started Time 80636 <u>Date</u> 24/09/2003 Time 08:00 Hours 1.00 <u>Date</u> Unit of Meas Quantity Result COMPLET Condition Total Usage Jean Willing Data Group

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MONTH MONTHLY PREVENTATIVE MTCE

Equipment Work Order

Report Date	03/10/2003 12:	57 PM	Submitted By	Jean Veilleux			Page 1
Work Order #	628979	Activit	<u>y</u> A11	01M AI	NALYZER CHLO	RINE	
Equipment ID	0000101101			Description	ANALYZER C	HLORINE TREAT	ED FLUO
Site Subunit Of	FAC	6054		Description	CRYSLER WATI	ER WELL SYSTEM	
Area District Loc Qualifier	2 NSTO CRYSLER WTP:	EASTERN REGION TOWNSHIP OF NORTH S' ANALYZER CHLORINE - F		Sub-area Loc WATER	CHES	CHESTERVILLE DISINFECTION (HUB JV, CHLORINATION
Equipment Type Building Service Status Avg Monthly Usage Model # Serial # Budget #	INSTRU PLAN IN 720.00 DEPLOX 3 U-95 AZ91670	INSTRUMENTATION PLANT BUILDING IN SERVICE (INCL. STAND	DBY)	Manufacturer Building Level Expected Life Total Usage Warranty Expires Purchase Date	WALL G 25 0.00	WALLANCE & TI GROUND LEVEL MTBF Purchase Cost	
Initiated By Assigned To				Initiated D		Scheduled Due	01/09/2003 08:00
Authorization Budget # Crew Maint Type Priority Problem Project Source Last Activity Work Order Comme		ANALY	SLER WATER W	E		Out of Service Potential Service Req Last Activity Complete	
ActDefn Comments WALLANCE & TIEF		nandheld cl2 meter. Reading	s within 6% of ea	ch other. Left as is.			
Task Safety Message	A1101M Description	ANALYZER CHLORINE					
СНЕМНА	CHEMICAL HA	ZARD					
Performance Indica	tor <u>Description</u>		HIDOLOGIA SARVANI X		Low Value	High Value	Measured Value
OLRB		METER READING BEGIN					1.19 mg/s
OLRF TMFR		ER FIELD READING					1.19
Safety Procedures Message Description	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Activity	Comments				
	AND EXIT NOTIFICA		ENSURE DIRE THE SITE. THE DURATION. OI VACATED AND	FOLLOWING INF N COMPLETION C D SECURED.	FORMATION SHOU OF DUTIES NOTIFIC	LD PROVIDE APPRO ATION TO BE GIVEN	OTIFIED OF ENTRY INTO DXIMATE TIME AND I THAT SITE HAS BEE

A1101M INTRODUCTION:

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

Equipment Work Order

Report Date 03/10/2003 12:57 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. ISOLATE AND DE-ENERGIZE THE EQUIPMENT IN ACCORDANCE WITH THE LOCK-OUT WPROT WORK PROTECTION PROCEDURE. Comments Completed Started Date 24/09/2003 Time 08:00 **Hours** 80636 1.00 <u>Time</u> Date Unit of Meas Quantity COMPLET Condition Result Total Usage Lean Veillup Sign-off Data Group



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	Robert Walker.
Company	Accutest
Fax Number	727-5222.
From	Dave.
Date	
Number of Pages	6. (including this page)
Subject	LAB NOTIFICATIONS
As a	er your request.
None	of these CofA's require sampling other than tables, C 3 D.
any s	sampling other than tables
A', B,	, c 3 b.
,	
	Dave

ACCUTEST LABORATORIES LTD.

Ottawa • Kingston

NOTIFICATION OF LABORATORY SERVICES

Ontario Regulation 459/00

Mr. Blair Henderson CRYSLER WELL SUPPLY 220008649

Friday, February 21, 2003

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 CRYSLER 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 CRYSLER 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

CRYSLER WELL SUPPLY		220008649				
☐ Cyanide		DOC				
Chloramines	- 	TOC				
Turbidity		Zinc				
] NTA		Aluminum				
Colour		NDMA				
□ pH		Benzo(a)pyrene				
Conductivity		Radionuclides				
Hardness		Dioxins/Furans				
Alkalinity		Faecal Coliforms				

HP OfficeJet K Series K80 Personal Printer/Fax/Copier/Scanner Log for OCWA (613) 448-1616 Feb 21 2003 11:40am

Last Transaction

DateTimeTypeIdentificationDurationPagesResultFeb 21 11:37amFax Sent72752222:376OK



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 MOE To Company 416-235-5744 Fax Number From Date (including this page) **Number of Pages** Lab Services Update Subject work # 22000 8649



Ministry

Ministèra

nt

l'Environnement

2 of 18 Page 1 01 37 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.)

DATE OF SUBMISSION (definion/yy); // 2	5/03	DATE RECEIVED (44 mwyy):
NEW SUBMISSION D UPDATED SUBMISSION	F. 4	
	WATERWORKS II	NFORMATION
NAME OF WATERWORKS: CTYSTET	Water	WATERWORKS #: 22 0008649
LOCATION OF WATERWORKS 15642 Caunty 1. 1 Street # Bad Name		
contact Name: Dave Marke ((E-MAIL: a markell come com
PHONE: 613-448-3098 FAK: 613-	448-1616	E-Mail: d markell powa com
	•	Chesterville Ontario, KOC 1 HO
,		ONT PROVINCIAL, NAME
		D INDUSTRIAL, NAME
o private, name		O OTHER, NAME
		ODY
Please Provide a Check Next to All of the Paramete	ns that are Required	and Performed by ALL Accredited Laboratories For Analysis:
Please Provide a Check Next to All of the Paramete E. coli - Membrane Filtration	rs that are Required	
Please Provide a Check Next to All of the Paramete E. coli - Membrane Filtration Fecal coliform - Nembrane Filtration	ns that are Required	and Performed by ALL Accredited Laboratories For Analysis:
Please Provide a Check Next to All of the Paramete E. coli - Membrane Filtration Fecal coliform - Nembrane Filtration Total coliform - Membrane Filtration	rs that are Required	and Performed by ALL Accredited Laboratories For Analysis: Name of Accredited Laboratory:
Please Provide a Check Next to All of the Paramete E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform background - Membrane Filtration	rs that are Required	and Performed by ALL Accredited Laboratories For Analysis:
Please Provide a Check Next to All of the Paramete E. coli - Membrane Filtration Fecal coliform - Nembrane Filtration Total coliform - Membrane Filtration	es that are Required	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 Paramete E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPG- Membrane Filtration E.coli - Presence/Absence	es that are Required © © © © © © © © ©	And Performed by ALL Accredited Laboratories For Analysis: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane)
Please Provide a Check Next to All of the Paramete E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform background - Membrane Filtration HPG- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence	es that are Required	And Performed by ALL Accredited Laboratories For Analysis: 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 Paramete E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform background - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coli - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence	ors that are Required O O O	And Performed by ALL Accredited Laboratories For Analysis: Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane)
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Please Provide a Check Next to All of the Paramete E. coli - Membrane Filtration Fecal 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	that are Required	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
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NOTIFICATION OF LABORATORY SERVICES PROVIDED TO WATERWORKS (O. Reg. 459/00)

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DATE OF SUBMISSION (dd/mm/yy):	DATE RECEIVED (dd/mm/yy):	
NEW SUBMISSION U UPDATED SUBMISSION	Ç.	
	WATERWORKS INFORMATION	
NAME OF WATERWARD		
NAME OF WAIERWORKS:	WATERWORKS #:	
LOCATION OF WATERWORKS:		
	, Ontario, Town/City Postal Code	
Street # and Name	Town/City Postal Code	
CONTACT NAME:	POSITION / TITLE:	
PHONE: FAX:	E-Mail:	
ADDRESS:	Ontario	
Street # and Name	Town/City Postal Coa	e
WATERWORKS OWNER: DMUNICIPAL, NAME	PROVINCIAL, NAME	
□ FEDERAL, NAME	□ INDUSTRIAL, NAME	
	OTHER, NAME	
WATER SOURCE: D GROUND D SURFACE, N		
WATER SOURCE: GROUND SURFACE, N Please Provide a Check Next to All of the Parameters E. coli - Membrane Filtration	name of Water Body	
WATER SOURCE: GROUND SURFACE, N Please Provide a Check Next to All of the Parameters E. coli - Membrane Filtration Fecal coliform - Membrane Filtration	NAME OF WATER BODY	ls:
WATER SOURCE: GROUND SURFACE, M Please Provide a Check Next to All of the Parameters E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform - Membrane Filtration	NAME OF WATER BODY	ls:
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Please Provide a Check Next to All of the Parameters E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform - Membrane Filtration Total coliform background - Membrane Filtration HPC- Membrane Filtration E.coll - Presence/Absence Fecal coliform - Presence/Absence Total coliform - Presence/Absence E.coll - Most Probable Number Fecal Coliform - Most Probable Number	NAME OF WATER BODY That are Required and Performed by ALL Accredited Laboratories For Analysi Name of Accredited Laboratory: ACCUTEST LABORATORIES LTD Address: 8-146 Colonnade Ro. NEPEAN, ON K2E 771 Phone: (613) 727-5292 Fax: (613) 727-53	s:
Please Provide a Check Next to All of the Parameters E. coli - Membrane Filtration Fecal coliform - Membrane Filtration Total coliform - Membrane Filtration Fotal coliform background - Membrane Filtration HPC- Membrane Filtration E.coll - Presence/Absence Fotal coliform - Presence/Absence Total coliform - Presence/Absence E.coll - Most Probable Number Fecal Coliform - Most Probable Number	NAME OF WATER BODY To that are Required and Performed by ALL Accredited Laboratories For Analysi Name of Accredited Laboratory: ACCUTEST LABORATORIES LTD Address: 8-146 Colonnade RD. NEPEAN, ON KRETYI Phone: (613) 727-5692 Fax: (613) 727-52 E-Mail: Info@accutestlabs.com	s:
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Please Provide a Check	Next to All o	of the Parameters th	at are Required a	and Performed by ALL Accredited Laboratories for Analysis:
1,2-dichlorobenzene 1,4-dichlorobenzene 1,2-dichloroethane 1,1-dichloroathylene Benzene Carbon Tetrachloride Dichloromethane Monochlorobenzene All of the above Other Volatile Organic Prapproval, Order or Direct *Cyanide *Chloramines *Turbidity *Nitrilotriacatic acid (NTA * Found in Schedule 4 of Other Operational Param Approval, Order or Direct *Colour, Ph	arameter(s) the Regulation: CONDU	Tetrachloroethyler Trichloroethylere Trichloroethylere Trihalomethenes Totune Vinyl Chloride Xylene Ethylbenzene Identified in a MOE tion tified in a MOE Carti	Certificate of	Name of Accredited Laboratory: Accutest Laboratory: Address: 8-146 (OLONAME RD. NEPERN, ON KRETY! Phone: (613) 727-5892 Fax: (613) 727-5222 E-Mail: Info & accutestlabs.com Comments: Name of Accredited Laboratory: Accutest Laboratory: Accutest Laboratory: Accutest Laboratory: Nepern, ON KRETY! Phone: (613) 727-5692 Fax: (613) 727-5222 E-Mail: Info & accutestlabs.com Comments:
Barium Boron Cadmium Chromium Arsenic Mercury Uranium Sodium Fittoride All of the above Other Inorganic Paramete Approval, Order or Direct	tion;	Lead Manganese Selenium Mitrate + Nitrite	D D D D	Name of Accredited Laboratory: ACCUTEST LABORATORIES LOD. Address: 8-146 COLONNAPE RD. NEPEAN , ON KRE 7Y Phone: (613) 727-892 Fax: (613) 727-5222 E-Mall: info @ accudest labs. com Comments:



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1,2-dichlerobenzene 1,4-dichlerobenzene	0 0	Tetrachloroethylene Trichloroethylene	0	Name of Accredited Laboratory:
1.2-dichleroethane	ä	Tribalomethanes	3	Name of Accredited Laboratory:
1.1-dichloroathylene	0	Toluene	D	Name of Accredited Caboratory.
Benzene	a	Vinyi Chloride	C	Caduceon Environmental Laboratories (Camelol)
Carbon Tetrachloride	0	Xylene	6	
Dichtoromethane	•	Ethylhenzene	a	ADDRESS: 40 Camelot Dr.
Monochlorobenzene	13			Ottawa, ON.
	_			K2G 5X8
All of the above	•			
0# 1/-1-Fl- 0 Dr		s) Identified in a MOE Co	wificute of	PHONE: (613) 228-1145 FAX: (613) 228-1148
Approval, Order or Direc		2) Meilusen all 2 and 2 oc		E-Mail: eclarkin@arecolabs.com
				Name of Accredited Laboratory:
*Cyanide *Chloramines	E			
*Turbidity	ū			Name of Accredited Laboratory:
"Nitriiotriacetic acid (NT)	_			W Table
	•			Caduceon Environmental Laboratories (Kingston
* Found in Schedule 4 of	f the Regu	ulation		ADDRESS: 133 Dalton Ave. Kingston, ON.
Other Countings of Barre	ما وعاسمهم	lestified in a MOE Certific	cate of	K7K 6C2
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Approval, Order or Direc	tion;			
	tion;			
Approval, Order or Direc	tion;			PHONE: (613) 544-2001 FAX: (613) 544-2770
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Approval, Order or Direc	tion;		*	PHONE: (613) 544-2001 FAX: (613) 544-2770
Approval, Order or Direct	tion;		*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Mail: ctrl@kingston.net
Approval, Order or Direct Provincy of the	tion;	Copper		PHONE: (613) 544-2001 FAX: (613) 544-2770
Approval, Order or Direct Provincy of its a	tion;	Copper d	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Meil: etri@kingston.net Name of Accredited Laboratory:
Approval, Order or Direct Province in a serious Barious Barious Cadmium	tion;	Copper Iron Lead	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Mail: ctr)@kingston.net
Approval, Order or Direct Province of the Communication of the Communica	tion;	Copper Iron Lead Manganese	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Meil: ctr)@kingston.net Name of Accredited Laboratory: Name of Accredited Laboratory:
Approval, Order or Direct Provincy of the Barium Boron Cademium Chromium Arsenic	tion;	Copper Iron Lead	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Meil: ct/@kingston.net Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane)
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Approval, Order or Direct Particle Ordinal Barium Boron Cadmium Arsenic Mercury	tion;	Copper di Iron di Lead di Manganese Selenium di	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Meil: ct/@kingston.net Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane)
Approval, Order or Direct Particle of the Particle of the Particle Barium Boron Cadesium Chronium Artenic Mercury Uranium Sodium	tion;	Copper di Iron di Lead di Manganese Selenium di	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Meil: ct/@kingston.net Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane
Approval, Order or Direct Planting to it P Barium Boron Cadmium Chromium Artenic Mercury Uranium Sodium Fluoride	tion;	Copper di Iron di Lead di Manganese Selenium di	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Meil: etri@kingston.net Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON. K1V 7P1
Approval, Order or Direct Parties of its is a second of its is a secon	tion;	Copper di Iron di Lead di Manganese Selenium di	*	PHONE: (613) 544-2001 FAX: (613) 544-2770 E-Meil: ct/@kingston.net Name of Accredited Laboratory: Name of Accredited Laboratory: Caduceon Environmental Laboratories (Holly Lane) ADDRESS: 2378 Holly Lane Ottawa, ON. K1V 7P1
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1.2-dishlorobexzne 1.2-dishlorob	Please Provide a Check	Next to A	of the Parameters that a	HE HEAdmed	and Porformed by ALL Accredited Laboratories for Analysis:
1.4-dichlorobethane	1,2-dichlorobenzene	0	Tetrachlomethylese	a	Name of Accredited Laboratory:
1.2-dichloroethylene	1.4-dichlorobenzene	0		D	
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Carbon Tetrachloride C Sylene C Ethylbenzene C Phone: Fax: Phone					
Dichloropersane All of the above Cher Volsitie Organic Parameter(s) Identified in a NOE Certificate of Approval, Order or Direction: Cyanide Chloramines Found in Schedule 4 of the Regulation Other Operational Parameter(s) Identified in a NOE Certificate of Approval, Order or Direction: 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: mizichelli@criducconlabs.com Barium Colour: Reconcess Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium Barium B					
Mame of Accredited Laboratory: *Cyanide *Cyanide *Chloramines *Turbidity *Found in Schedule 4 of the Regulation Other Operational Parameter(s) Identified in a MOE Certificate of Approval, Order or Direction: *Pround in Schedule 4 of the Regulation Other Operational Parameter(s) Identified in a MOE Certificate of Approval, Order or Direction: Other Operational Parameter(s) Identified in a MOE Certificate of Approval, Order or Direction: Other Operational Parameter(s) Identified in a MOE Certificate of Approval, Order or Direction: Other Operational Parameter(s) Identified in a MOE Certificate of Approval, Order or Direction: Other Operational Parameter(s) Identified in a MOE Certificate of Approval, Order or Direction: Other Mame of Accredited Laboratory: PHONE: (613) 526-0123 FAX: (613) 731-0851 E-Mail: Other Mame of Accredited Laboratory: Mame of Accredited Laboratory: Address: Address: Phone: Fax: Phone: Fax: Other Morganic Parameter(s) Identified in a MOE Certificate of Comments:					Phone: Eav:
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NOTIFICATION OF LABORATORY SERVICES PROVIDED TO WATERWORKS (O. Reg. 459/00)

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Please Provide a Check N	ext to Al	of the Parameters the	t are Required :	and Performed by ALL Accredited Laboratories for Analysis:
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				Mississauga Ont LAZ 1P1
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				LIMIC:303-930-7333 LSY:303-920-7371
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*Nitriiotriacatic acid (NT	A) 🗆			Address: 185 Concession Rd.
•				Lakefield Ont KOL 2HO
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Other Operational Paren	neter(s) id	lentified in a MOE Certificate	e of	E Mail:dwingett@lakefield.com
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Please Provide a Check No	ext to	All of the Parameters that are Rec	quired :	and Performed	by ALL Accredited Lat	boratories for Analysis:
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andioco. n	Metribuzio Paraquat Parathion PCBs Pontschlorophenoi	ADDRESS: 133 Dalton Ave. Kingston, ON. K7K 6C2 PHONE: (613) 544-2001 FAX: (613) 544-2770
iromoxynii Carbosyl Carboswan Chlordene (Yotal) Chlorpysifos Cyanazine DVT + Metabolites	Phorate Picioram Prometryne Simazine Temephos Tribulos Tribulos	E-Mail: etrl@kingston.net
Diazinon Diazinon Dicamba Diclofop-methyl Dimethoate	Triffurntin	(2) Name of Accredited Laboratory (If applicable):
Dimethoase Dinoseb Diquat		Address:
Diuron	•	Phone: Fax:
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Revised -September 2002

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

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Aldicarb Aldrin + Dieldrin		Paracust	0	Phone: 519-822-2436 Fax :519-822-2849
Akrazine + Metaboliles		Parathion	Ď	
Azimphos-methyl		PCBa	_	E Mail:colleen@well-labs.com
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Carbaryl	0	Picioram	0	
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2,4,6-trichlorophenoi	ø	Lindane	1
2,4-D	٥	Malathion	Address: 5540 McADAM RD.
2,4,5·T		Methoxychior	MISSISSAUGA, ON LYZIPI
Alachior		Metolachior D	
Aidicarb		Metribuzin   Paraguat   D	Phone: (905) 890 - 2555 Fax: (905) 890 - 0370
Aldrin + Dieldrin		, -, -,	
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2,4,5-T		Methoxychlor		WATERLOO, ON .
Alachlor	0	Metolachior	0	
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Have you taken measures to ensure that ALL laboratories that you requirements for reporting data?	use are accradited for the specific testing and are aware/ of their
Yes No C Comments:	
Have you provided the appropriate laboratories with the Onlario M required to test but which are not listed in the Schedule 4, Onlario	inistry of the Environment standards for other parameters that you are Regulation 45900?
Yas D No D Comments:	
Prepared By (please print): Dave Markel Signature: Awa Awa Con	Date: 1000 1000 1000 1000 1000 1000 1000 10
THO. Process Tech	Man 3/03
Please send completed form to:	For further information contact:
Ministry of the Environment Laboratory Services Branch 125 Resources Road Etobicoke, Ontario M9P-3V6 Attention: Laboratory Director	Ministry of the Environment Laboratory Services Branch Customer Service Section Phone: (416) 235-8311
Fax: (416) 235-5744 or (416) 235-6312	

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

Log tor OCWA (613) 448-1616 Mar 03 2003 3:18pm

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

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# SODIUM HYPOCHLORITE (Naoci ) 12% SOLUTION

ct acement	This product is certified under NSP Sandard 60 for potable war
	• American Water Works Assec (AWWA) B-300-92
	Canadian General Standards Board
1	This product meet the following tembards:
xam mqq 80.	Cobalt (Co)
xem mqq 80.	Copper (Cu)
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प्रसम्ब व्यवस्य १.१	ं (३न) क्या
xxm #81.1	Carbonate (Ne ₁ CO ₂ )
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<b>357</b> -	Crystallizing Paint
02.1 - 21.1	Specific Gravity @ 15°C
7w/w 20.11 - 2.01	Available Chlorine
	Salastiae in Pite II solut
т <del>у</del>	Solutions are a clear light yellow liquid, also referred to as-Blase

CLEARTECH INDUSTRIES INC. 7480 SATH ROAD, MISSISSAUGA, ONTARIO, CANDA LAT 1L2 PHONE (905) 612-0566 FAX (905) 612-0575

TOLL RREE I-800-387-7503



#### **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

**AT** maintenance limited P.O. BOX 3000-2060 FISHER DRIVE PETERBOROUGH, ONT. K9J 8N4 TEL. (705) 745-5763 FAX (705) 745-0220

E-MAIL ADDRESS: info@swish.ca WEB PAGE: www.swish.ca WHITBY OTTAWA TIMMINS SUDBURY

(905) 666-1224 (613) 247-9550 (705) 267-7701 (705) 523-7490

KINGSTON BARRIE : LONDON WAWA

(613) 384-2410 (5) 721-4780 (9) 659-2101 (05) 856-2333

METRO TORONTO DARTMOUTH, N.S. BURLINGTON VT. MARCY, NY

(905) 829-9366 (902) 468-3756 (802) 864-0585 (315) 735-8354

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*X=P.S.T. EXEMPT

24 HOUR TRANSPORT "EMERGENCY" TOTAL

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Some items may be shipped under CFR49 (U.S.) IDG equivalent regulation DELIVERED BY TRUCK # FREIGHT SUBTOTAL G.S.T.

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(905) 666-1224

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7.4 E-MAIL ADDRESS: info@swish.ca WEB PAGE: www.swish.ca PETERBOROUGH, ONT. K9J 8N4 TEL. (705) 745-5763 FAX (705) 745-0220 10 CLEAR (CHESTERVILLE) S CHYSLER WIP CONTAINERS ARE NOW LEAVE AT MOOSE CREEK HA KIM BAKER 4.4 GALLON SIZE contact us at 866-466-6460 or e-main integralibles C EGY 460 JR FINCH 49 DER TOG reciprocal regulations -COTERVILLE 24 HOUR TRAMSPORT 'EMERGEMET' . T J. 11.0 ALL CANUTED "COLLECT" 513-995-5656 CUSTOMER P.O. NO. CUSTOMER FAX NO. ORDER PLACED BY CUSTOMER TEL. NO ORDER DATE TAKEN BY DATE REQUIRED INVOICE DATE C.O.D. PAGE 22546 hess 813-448-3098 613-448-1616 Apr/18/02 hess SWISH ORDER NO. K87856-01 SALES-PERSON 76 SHIP VIA G.S.T. NUMBER PPD/CHG COLL. PROV. TAX/EXEMP TERMS UST. NO. WHSE. X 783098 **NET 30 DAYS** 03 Swisk TRUCK R105105191 MANUFACTURERS IDENTIFICATION QTY. SHIPPED SWISH CODE DESCRIPTION LOCATION TO FOLLOW UNIT PRICE **EXTENSION** *** CHLOR/RM 4400-5 DEPOSIT ON EMPTY 20L CONTAINER **EACH** 3 17 RESIDUE LAST CONTAINED HYPOCHLORITE SOLUTION CLASS: 8(9.2) UN: 1791 PG: III ILL TANKS 4600-K CHLORINE SWISH BRITE 12% - KINGSTON ONLY PAIL 51 303 HYPOCHLORITE SOLUTION PCASS: 8(9.2) UN: 1791 PG: III 2/98 This is your packing slip *X=P.S.T. EXEMPT **TOTAL** Some items may be shipped under CFR49 (U.S.) TDB equivalent regulation

SE PUT CUSTOMER # ON REMITT

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**AUTH. SIGNATURE** 

PAYMENT DUE

NUMBER OF PIECES:

TOTAL DG. WEIGHT

_ 320

24 HOUR TRANSPORT "EMERGENCY" **CALL CANUTEC "COLLECT"** 

613-996-6666

S L mäintenance limited PO. BOX 3000-2060 FISHER DRIVE PETERBOROUGH, ONT. K9J 8N4 TEL. (705) 745-5763 FAX (705) 745-0220

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PACKING SLIP ALL CANUTEC "COLLECT" 513-996-6666 49 DFR TDG reciprocal regulations 24 HOUR TRANSPORT "EMERGENCY" 8.51 8.51 (905) 829-9366 (902) 468-3756 (802) 864-0585 (315) 735-8354 E-MAIL ADDRESS: info@swish.ca WEB PAGE: www.swish.ca OAKVILLE DARTMOUTH, N.S. BURLINGTON VT. MARCY, NY E NUST HAVE SEPARATE CREDIT FOR ALL CARBOYS RETURNED (613) 384-2410 (05) 721-4780 (519) 659-2101 (705) 856-2333 in Apple of (905) 666-1224 (613) 247-9550 (705) 267-7701 (705) 523-7490 S CHRESEN STATE AT THE AT

visit our new full e-commerce mebsite swishclean.co We will gladly set up your e-account for you. Plea contact us at 866-465-0433 or e-mail info@swish.ca

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May 30 / 02-

ORDER DATE

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AUTH. SIGNATURE

NUMBER OF PIECES:

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(905) 666-1224 (613) 247-9550 (705) 267-7701 (705) 523-7490 WHITBY OTTAWA TIMMINS SUDBURY

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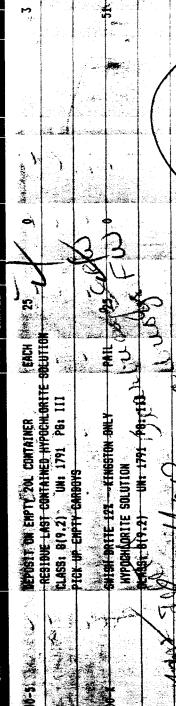
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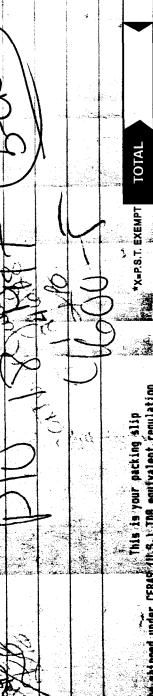
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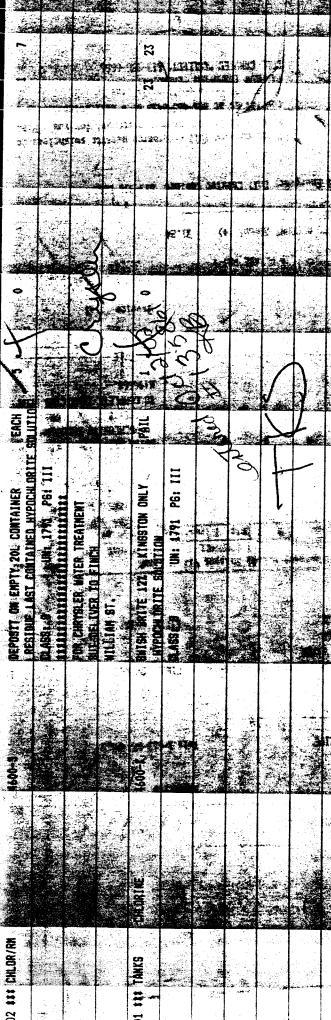
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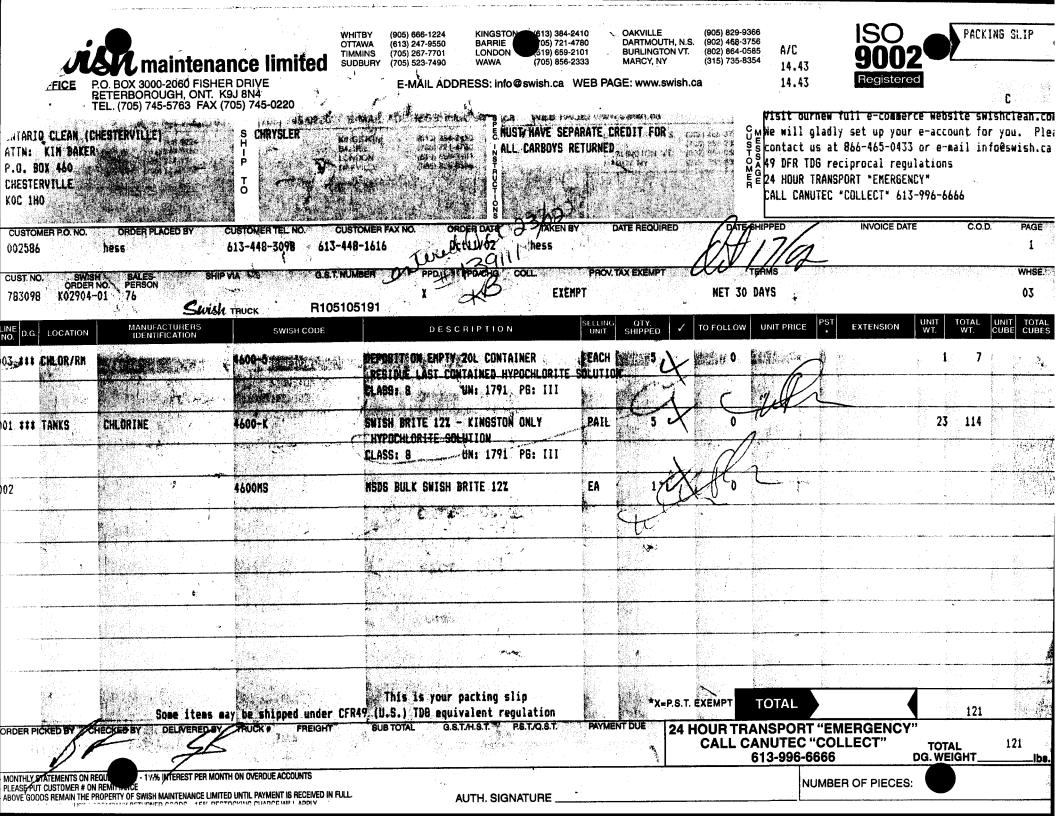
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X=P.S.T. EXEMPT

24 HOUR TRANSPORT "EMERGENCY

PAYMENT DUE

Some items may be shipped under CFR49 (U.S.) TDG equivalent regulation

DELIVERED BY

RDER PICKED BY

This is your packing slip

G.S.T/H.S.T

TOTAL

CALL CANUTEC "COLLECT" 613-996-6666

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VE GOODS REMAIN THE PROPERTY OF SWISH MAINTENANCE LIMITED UNTIL PAYMENT IS RECEIVED IN FULL. IT IN A PPROVAL MILS ACCOMPANY RETHRINED GOODS - 15% RESTOCKING CHARGE WILL APPLY. - 11/2% INTEREST PER MONTH ON OVERDUE ACCOUNTS IONTHLY SPATEMENTS ON REQUI

PRINT NAME

AUTH. SIGNATURE

O 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 JUNEAU 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 JUNEAU 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.

"FICATIONS 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
"VARANCE 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'ÉTAT DU CONTENU DES
"MARQUÉES ET CONSIGNÉES TEL QUINDIQUÉ CONTRATOR DES TIMES DE 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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SHIPPER Brennt	ag Canada Inc.	AGENT		· · · · · · · · · · · · · · · · · · ·	DESTINATAIRE/COM			_

**MEMORANDUM** <u>MÉMORANDUM</u>

PER PAR

...v. (U//UL)

THESE PRODUCTS ARE SOLD AND SHIPPED IN ACCORDANCE WITH THE CONDITIONS ON THE REVERSE SIDE OF THIS DOCUMENT

PER PAR

CES PRODUITS SONT VENDUS ET EXPÉDIÉS CONFORMÉMENT AUX CONDITIONS APPARAISSANT AU VERSO DE LA PRESENTE:

#FECT 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 CONTRACT (BILL OF LADING), GOODS DESCRIBED BELOW, IN APPARENT GOOD ORDER, EXCEPT AS NOTED (CONTENTS AND CONDITIONS OF CONTENTS OF PACKAGES UNKNOWN), MARKED, CONSIGNED AGAINST ORDER OF THE ROLL OF DELIVERY AT SAID DESTINATION.

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SHIPPER EXPÉDITEUR Bre	nntag	Canada Inc.	AG	ENT		-	DESTINATAIRE/C	ONSIGNÉE		

REV. (07/00)

THESE PRODUCTS ARE SOLD AND SHIPPED IN-CES PRODUITS SONT VENDUS ET

Brenntad Canada Inc. 16950 MCNEIL ROAD 3000 Jean Baptiste Deschar MOOSE CREEK, ON Lachine, PQ DESTINATION DESTINATION ar suud garii H8T 1E2 Canada KOC 1WO Canada a, to the annual BAL NUMBER RBAL 1341455 PO 26221006 Lachine CARRIER NAME / NOM DU TRANSPORTEUR PART HOOME LE GROUPE GUILBAULT LTD. 04.07.2003 RTATION MODE / MODE DE TRANSPORT Less Than Truck Load स्ति के <mark>देश विश्वकार कार्य क्षेत्र क्ष</mark>ाचार के - register listed and its connectation impor NO. AND DESCRIPTION OF PACKS D.G. PALLET WOODEN RETURNABLE # # Alde at 1971 and U 1.00 the troop is a visit to the same the के व 1000 : ना इंट्रॉन के व्यक्ति है विक्री 100 HE LOGRAMS each ASS 8. UN1791, PK GP 11 🛊 🐺 : Otto A. 11. ut., HYPOCHLORITE SOLUTIONS LASS 8. UN1791, F SODIUM HYPO10.8%(12% TRUEN RET18.9L NSF 32,00 KILOGRAMS DELCAN PRINTING BUILDING e กด้อยตัวสนด์ ค.ศ. Carre Morce ex meneral and Tyrest in 201 773 TOTAL WEIGHT FINE ! ** KILOGRAMS mat mind To The season of the satisfact of TOUR THE MEN CONT. 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MEMORANDUM

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

CES PRODUITS SONT VENDUS ET:
EXPÉDIES CONFORMEMENT AUX CONDITIONS

4.31.45

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TO: **DESPONSABILITÉ MAXIMALE POLIR PERTE OLLA** MAGE: AIRE SUIVRE FACTURE POUR EXPÉDITION PORT 2900 JEAN BAPTISTE DESCHAMPS 2 \$ LA LIVRE OU 4,41 \$ LE KILO. SAUF STIPUL YÉ EN RÉFÉRANT À NOTRE NUMÉRO DE LACHINE, PQ CONTRAIRE PAR LA VALEUR DÉCLARÉE.. Brenntag Canada Inc. SHIPPER EXPÉDITEUR THESE PRODUCTS ARE SOLD AND SHIPPED IN ACCORDANCE WITH THE CONDITIONS ON THE REVERSE SIDE OF THIS DOCUMENT CES PRODUITS SONT VENOUS ET EXPEDIES CONFORMEMENT AUX CONDITIONS **MEMORANDUM** 

APPARAISSANT AU VERSO DE LA PRESENTE.

ISSUED AT SHIPPER'S REQUEST ORIGIN 238 GLIDDEN ROAD SHIPPER Canada Colors and Chemicals Limited 1 BRAMPTON . CUSTOMER TEL# CUSTOMER ORDER NUMBER AND REQUISITION NUMBER 613 448-3098 115 356740 07-22-03 (MAIL ADDRESS - NOT FOR PURPOSE OF DELIVERY) - CHESTERVILLE CRYSLER WATER TREATMENT PLANT PACKING SLIP 15642 COUNTY ROAD # 13 CRYSLER TRUCK NO. TRALER NO. 016140 0016140 DAY AND ROSS COLLECT DRIVER TO CALL IHOUR PRIOR TO DEL Y 613-448-3098 DEL'Y BETWEEN 7:30 A. M-4:00PM HYDROFLUOSILICIC ACID (N/R) 198 195 65. OOKG 496000 FLUOROSILICIC ACID UN1778 PGII CLASS & HYDROFLUOSILIC ACID 25% LDT # 84308 ************ DRIVER: CALL 1 HR PRIOR TO TO DEL'Y AT: 1-613-448-3098 DEL 'Y BETWEEN 7: 30AM-4: 00PM TOR 4279126 9 ************** 16140 NOTE: IF THIS SHIPMENT DOES NOT CORRESPOND WITH THE ABOVE, NOTIFY C.C.C. ORDER DEPT. WITHIN 5 DAYS OF RECEIPT. IN CASE OF BREAKAGE OR LOSS IN TRANSIT, HAVE NOTATION MADE ON TRANSPORTATION BILL BEFORE SIGNING AND PAYING FREIGHT BILL. FOR TRANSPORT EMERGENCY, SPILL, LEAK, FIRE OR EXPOSURE CALL (416) 444-2112 - 24 HOUR NUMBER, CANUTEC (613) 996-6666 Shipper's / nrint in lieu of stamp. This is to certify that the above named articles are properly class described, packaged, marked and labelled, and are in proper condition transports on, according to the applicable regulations. TOTAL NO. OF PIECES/PKGS. Canada Colors and Chemicals Limited AGENT SHIPPER PACKING SLIP

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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 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.

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 DÉLIVRANCE DE CE CONTRAT DE TRANSPORT (CONNAISSEMENT), LES MARCHANDISES DÉSIGNÉES CL-DESSOUS, APPAREMMENT EN BON ÉTAT, SAUF LES REMARQUES FAITES DANS LA PRÉSENTE (LE CONTRAT DE TRANSPORT (CONNAISSEMENT), LES MARCHANDISES DÉSIGNÉES ET LO QUINDIQUÉ CL-DESSOUS, APPAREMMENT EN BON ÉTAT, SAUF LES REMARQUES FAITES DANS LA PRÉSENTE (LE CONTRAT DE TRANSPORTEMENT), LES MARCHANDISES ET CONNAISSEMENT), LES MARCHANDISES ET CONTRAT DE TRANSPORTEMENT DE LIVRAISON, POURVU QUE TELLE DESTINATION SOIT SUR SON PARCOURS, SINON À LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LES LIVRES À LI DAT LI LIVRES À LI DAT LI LIVRES À LI LIVRES À LI LIVRES À LI LIVRES À LI LIVRES À LI LIVRES À LI LIVRES À LI LIVRES À LI LIVRES À LI

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ECT ON THE DATE OF ISSUE OF THIS ORIGINAL SHIPPING CONTRACT (BILL OF LADING), GOODS DESCR AND DESTINED AS INDICATED BELOW, WHICH SAID COMPANY AGREES TO CARRY TO ITS USUAL PLACE OF DELIVER RECU SOUS RÉSERVE DES CLASSIFICATIONS ET TARIFS EN VIGUEUR À LA DATE DE DÉLIVRANCE DE CE CONNAISSEMENT ORIGINAL, OU BOUIS RÉSERVE DES RÈGLEMENTS RÉGISSANT LE TRA MARQUÉS EL TRANSPORTEUR.

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MOOC 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 FAFTES DA COLIS ÉTANT INCONNUS), MARQUÉES ET CONSIGNÉES TEL QUINDIQUÉ CI-DESSOUS, ET QUE LA COMPAGNIE SENGAGE À TRANSPORTER À DESTINATION À SON LIEU HABITUEL DE LIVRAISON, POURTUI DE Lachine Warehouse SHAPPER EXPÉDITEUR Brenntag Canada Inc. MOOSE CREEK WTP 3000 Jean Baptiste 16950 MCNEIL ROAD STREET ADDRESS ADRESSE (N° RUE) Lachine, PQ MOOSE CREEK, ON DESTINATION DESTINATION PROVINCE OR STATE PROVINCE OU ÉTAT Canada KOC 1WO Canada H8T 1E2 a side to the ORDER NO. Nº DE COMMANDE POINT OF ORIGIN / POINT D'EXPÉDITION CUSTOMER ORDER NO. N° DE COMMANDE DU CLIENT 1386393 PQ VERBAL Lachine DATE SHIPPET CARRIER NAME / NOM DU TRANSPORTEUR REQUIRED / DEMANDÉE 15.12.2003 LE GROUPE GUILBAULT LTD. NVOICE TO/BUYER-FACTURE À / ACHETELIR TRANSPORTATION MODE / MODE DE TRANSPORT Less Than Truck Load OCWA ROUTING / ITINÉRAIRE 45328092 NO. AND DESCRIPTION OF PACKS D.G.: DESCRIPTION OF ARTICLES AND SPECIAL MARKS DESCRIPTION DES ARTICLES ET INDICATIONS SPECIALES PALLET WOODEN RETURNABLE 1.00 **XILOGRAMS** each GP HYPOCHLORITE SOLUTIONS, CLASS 8, UN1791, SODIUM HYPO10.8%(12% TR)DCN RET18.9L NSF 32.00 KILOGRAMS DELCAN 2 4 2 4773 MOTAL WEIGHT KILOGRAMS *CLASS 8 CORROSIVE* PLACARDS REQUIRED 14 25 ** TRES IMPORTANT **** CAMION TAIL GATE REQUIS/ TRUCK WITH HYDRAULIC TAIL GATE REQUIRED APPELER AVANT LA LIVRAISON AU 1-613-448-3098 ******* y carbourser crypler and we was after the THE PROPERTY 21-0985 AND 24 HOUR NUM ERAP THIS IS TO CERTIFY THAT TH D. MARKED AND GROSS BRUT **BLE REGULATIONS OF** LABELLED AND ARE IN PROF TOTAL NO. OF PIECES/PKGS. NBRE TOTAL DE COLIS THE TRANSPORTATION OF DA IF CHARGES ARE TO BE PREPAID
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"PORT-PAYE" us los mesmans നാ**ര്** ആവര്സ TARE THE PARTY OF LA PRÉSENTE CERTIFIE QUE LI NET PREPAID CLASSIFIÉES, DÉCRITES, IDENI LE TRANSPORT CONFORMÉMEI * Software TRANSPORT DES MARCHANDIS THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE R KILOGRAM FORWARD INVOICE FOR PREPAID FREIGHT BRENNTAG CANADA ITES OTHERWISE TING OUR B/L NO. TO: 2900 JEAN BAPTIST 2 \$ LA LIVRE OU 4.41 \$ LE KILO. SAUF STIPULA CONTRAIRE PAR LA VALEUR DÉCLARÉE.. SUIVRE FACTURE POUR EXPÉDITION PORT EN RÉFÉRANT À NOTRE NUMÉRO DE LACHINE, PQ CONN À: AGENT DESTINATAIRE/CONSIGNÉE Brenntag Canada Inc. PER THESE PROTECTS ARE SOLD AND SHIPPED IN S. CES PRODUITS SONT VENDUS ET

**MEMORANDUM** 



Date from Jan 01, 2003 to Aug 31, 2003

n/Hub Name	Date	Course	Offered By	Status	tal Hours	Day
n Region Chesterville Hub> Legislated						
Barrie, Andr	ew			51.	00	
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	
	17-Feb-03	Water Treatment 3 Exam Prep.	BEC Technologies	Completed	22.00	
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	
	7-Apr-03	Water Quality Analyst	BEC Technologies	Completed	14.00	
	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	
Bortolussi, l	Lisa			23.	00	
	7-May-03	Environmental Compliance	OCWA	Passed	13.50	
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	
Huskinson,	Brian			42	25	
	5-Feb-03	Operations & Maintenance of Prominent Chemical Pum	Metcon	Completed	3.00	
	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	
	24-Mar-03	Endress + Hauser Equipment Operations & Maintenanc	Endress + Hauser	Completed	3.50	
	1-Apr-03	Water Distribution & Hydrant Repair	OCWA	Passed	20.25	
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	

Date from Jan 01, 2003 to Aug 31, 2003

rn Region						
Chesterville Hub>						
Legislated					_	
Lauzon, Mari		O and the second of Danie and Observed Danie	Matana	60.2	-	
	5-Feb-03	Operations & Maintenance of Prominent Chemical Pum	Metcon	Completed	3.00	(
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	1
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	1
	24-Mar-03	Endress + Hauser Equipment Operations & Maintenanc	Endress & Hauser	Completed	3.50	(
	27-Mar-03	Filter Operation & Maintenance	OWWA	Completed	8.00	•
	1-Apr-03	Water Distribution & Hydrant Repair	OCWA	Passed	20.25	;
	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	(
	30-Jul-03	Operation of Flow Control Valves	Controlex	Completed	4.00	(
Michels, Willi	am			38.7	5	
	5-Feb-03	Operations & Maintenance of Prominent Chemical Pum	Metcon	Completed	3.00	(
	6-Feb-03	CPR Refresher	Ortho Clinique	Completed	3.00	1
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	
	1-Apr-03	Water Distribution & Hydrant Repair	OCWA	Passed	20.25	
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	
Roach, Jim				26.0	D	
	27-Mar-03	Filter Operation and Maintenance	AWWA	Completed	8.00	
	24-Apr-03	Consolidated C of A's	OCWA, Tony Puim	Completed	0.50	(
	28-Apr-03	Consolidated C of A's	OCWA, Tony Puim	Completed	0.50	
	29-Apr-03	CP-C2 Chlorine Gas Leak	OCWA, Tony Puim	Completed	0.50	
	21-May-03	Confined Space Entry Training	Hetek Solutions Inc.	Completed	8.00	
	2-Jun-03	Bill 170/03	OCWA, Tony Puim, Dave McCully	Completed	0.50	
	17-Jun-03	Traffic Control	EUSA, Bill Hunt	Did Not Complete	1.00	(
	10-Jul-03	Lifting and Hoisting Training	Acu-Tec	Completed	7.00	

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



Date from Jan 01, 2003 to Aug 31, 2003

Region/Hub Name	Date 🙌	Course	Offered By	Status Tota	l Hours	Days *
Eastern Region <chesterville hub="">  Legislated</chesterville>						
Veilleux, Jean	n			24.50	J	
	21-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0.44
	14-May-03	Managing Multiple Priorities	Algonquin College	Completed	6.00	0.89
	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
	16-Jul-03	Operation of Electric Check Valve	Power Plant Supply Company	Completed	6.00	0.89
Non-Legislated						
Baker, Kimbe	•			17.00	į.	
	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
	16-Apr-03	How to use the Training Summary Database and eRepo	OCWA	Completed	1.50	0.22
	5-May-03	WIN AC/C	SSB	Completed	6.50	0.96
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.44
Henderson, I	Blair			39.50	)	
	17-Feb-03	Water Treatment 3 Exam Prep.	BEC Technologies	Completed	22.00	3.26
	28-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0.44
	6-Mar-03	State and Future Directions of Groundwater Initiat	Golder Associates	Completed	8.00	1.19
	27-May-03	Ontario Disabilities Act Training	OCWA	Completed	1.50	0.22
	27-May-03	Drinking Water Systems Regulation, Safe Drinking W	MoE	Completed	2.00	0.30
	11-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.44

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



Date from Jan 01, 2003 to Aug 31, 2003

stern Region						
<chesterville hub=""> Non-Legislated</chesterville>						
Kelly, Tony				27.	00	
•	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
	21-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0.44
	27-Mar-03	Filter Operation & Maintenance	OWWA	Completed	8.00	1.19
	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	3.00	0.44
	30-Jul-03	Operation of Flow Control Valves	Controlex	Completed	4.00	0.59
Markell, Dave	•			59.	50	
	21-Jan-03	PCT Training Part 2	OCWA	Completed	14.00	2.07
	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
	21-Feb-03	SDWA & Components of OCWA's EMS, Reg.435/93, Proce	RCA, OCWA	Completed	3.00	0.44
	6-Mar-03	State and Future Directions of Groundwater Initiat	Golder Associates	Completed	8.00	1.19
	4-Jun-03	Introduction to Reg. 170	OCWA	Completed	3.00	0.44
	5-Jun-03	Cross Connection	BEC Technologies	Completed	6.50	0.96

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



Date from Jan 01, 2002 to Dec 31, 2002

rn Region <chesterville hub=""></chesterville>						
Legislated						
Barrie, Andre	ew .			93.94		
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	0
	15-Jan-02	Basic Hoisting and Rigging Safety	EUSA	Completed	24.00	3
	23-Feb-02	Internet Searching and File Management	Community Access Program	Completed	3.00	C
	28-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	(
	28-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	(
	28-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	(
	5-Jul-02	Limitorque Valve Actuator	Vannes Famco	Completed	1.00	(
	11-Sep-02	Prepatory Chemistry	St. Lawrence College	Completed	45.00	(
	12-Sep-02	Contractor Safety Program	OCWA	Completed	5.06	
	24-Sep-02	Operation and Trouble Shooting SCADA System	Bristol Babcock	Completed	5.00	
	11-Dec-02	WHMIS Refresher/TDG Handling - Facilitated	OCWA	Passed	3.38	
Huskinson, I	3rian			81.38		
	9-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	
	15-Jan-02	Basic Hoisting and Rigging Safety	EUSA	Completed	24.00	
	28-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	
	28-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	
	28-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	(
	5-Apr-02	2002 Electrical Code Seminar	Electrical Safety Authority	Completed	3.50	(
	17-Jun-02	Instrumentation in Water/Wastewater Plants	St. Lawrence College	Completed	35.00	
	24-Sep-02	Operations & Troubleshooting SCADA System	Bristol Babcock	Completed	3.00	(
	28-Nov-02	Safe Use of Elevated Water Storage Facilities	Landmark Tank & Tower Services and Levitt-Safety	Completed	5.00	1
	11-Dec-02	WHMIS Refresher/TDG Handling - Facilitated	OCWA	Passed	3.38	(

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



Date from Jan 01, 2002 to Dec 31, 2002

ern Region <chesterville hub=""> Legislated</chesterville>						
Lauzon, Mark				53.75		
10	0-Sep-02	Environmental Compliance	OCWA	Completed	13.50	2.00
1	7-Sep-02	Water Quality Analyst	OCWA	Completed	20.25	3.00
2	4-Sep-02	Operations & Troubleshooting SCADA System	Bristol Babcock	Completed	3.00	0.44
29	9-Oct-02	Working with Confined Spaces	OCWA	Passed	13.50	2.00
30	0-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	0.52
Michels, William				58.2	5	
9-	-Jan-02	CPR Recertification	Embrun Ortho Clinique	Completed	3.00	0.44
19	5-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
2	8-Feb-02	HFS Acid	Brenntag Canada Inc.	Completed	1.00	0.15
2	8-Feb-02	Chlorine Gas	Brenntag Canada Inc.	Completed	2.50	0.37
2	8-Feb-02	Sodium Hypochlorite	Brenntag Canada Inc.	Completed	1.00	0.15
2	4-Sep-02	Operations & Trouble Shooting SCADA System	Bristol Babcock	Completed	3.00	0.44
3	0-Dec-02	WHMIS Refresher	OCWA	Passed	3.50	0.52

Date from Jan 01, 2002 to Dec 31, 2002

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n Region Chesterville Hub> Legislated						
Veilleux, Jea	n			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, Kimbe	erley			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



Date from Jan 01, 2002 to Dec 31, 2002

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ern Region <chesterville hub=""> Non-Legislated</chesterville>						
Henderson,	Blair			52	2.38	
	21-Feb-02	Client Connection & Client Manager	OCWA	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	.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





Date from Jan 01, 2002 to Dec 31, 2002

Région/Hub Name	Date	Course 4.	Offered By V	* Status T	otal Hours	Days 1
Eastern Region <chesterville hub="">  Non-Legislated</chesterville>						de transition of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
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

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

Login: C119452

Program Code 130072201

Program:

MOE OPERATIONS DIVISION Study: WATER, COMMUNAL

Project:

**EASTERN REGION - KINGSTON DIST** WTP MUNIC INSPECT/ADVERS NOTIF

Activity: Organization:

IEB Director's Office

Mail this copy to:

Org. ld: 3062

**MOE - CORNWALL AREA OFFICE** 

113 AMELIA STREET CORNWALL, ONT

FRANSSEN, JAN

K6H 3P1

Final reports to: FRANSSEN, JAN

Inquires to: RUSTY MOODY PAUL YANG

Telephone: 416-235-5863

Telephone: 416-235-6004

LOGIN DESCRIPTION: 220008649 CRYSLER WS JAN FRANSSEN 613-933-7402

1

MINISTRY OF THE ENVIRONMENT

OCT 1 2 2634

CORNWALL

Field Id T-1	Station ID 2200086497804 Sample ID C119452-0001	Sample Location Description TREATED WATER Sample Comment Description	Sampling Date 22 SEP 2004	Time 14:30	Zone 5	Sampler Information
MOE*LIM	S Products Requested:					
DW DW DW	E3051A MET3051	WD E3060B HG3060 WD WD E3226A PA3226 WD				WD E3172A F3172 WD E3364A DISNUT3364
Field Id W-1 MOE*LIM	Station ID 2200086497001 Sample ID C119452-0002 S Products Requested: E3371A TCEC3371	Sample Location Description WELL 1 RAW Sample Comment Description	Sampling Date 22 SEP 2004		Zone 5	Sampler Information
Field Id W-2 MOE*LIM: WD	Station ID 2200086497002 Sample ID C119452-0003 S Products Requested: E3371A TCEC3371	Sample Location Description WELL 2 RAW Sample Comment Description	Sampling Date 22 SEP 2004	Time 14:30	Zone 5	Sampler Information

Sample   Content   College   Content   College   Content   College   Content   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   College   Colle	-													
Bannble Comments Describtion:         Value         Units         Qual         Rmk1         Value         Units         Qual         Rmk1         Value         Units         Qual         Rmk1         Value         Units         Qual         Rmk1         Value         Units         Qual         Rmk1         Value         Units         Qual         Rmk1         Value         Units         Qual         Rmk1         Value         Units         Qual         Rmk1         Value         Units         Qual         Value         Units         Qual         Value         Units         Qual         Value         Units         Qual         Value         Units         Qual         Value         Units         Qual         Value         Units         Qual         Value         Units         Qual         Value         Units         Qual         Value         Value         Units         Qual         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         Value         V		Field Sample Sample MOE*LIMS Station Collect Da Sample Location Descripti		C11945 2004WD3 2200086 22 SEF TREATED V	1 2-0001 18-00171 1497804 192004 VATER			C1194 2004WI 22000 22 SI WELL	W-1 IS2-0002 IS3-00172 IS6497001 IP 2004 I RAW			C1194 C2004WD 220008 220008 22 SE WELL 2	V-2 52-0003 38-00173 86497002 IP 2004 RAW	
Copper		Sample Comments Description	ion:											
Copper         31.6         ug/L           Nickel         .4         ug/L           Zinc         8.9         ug/L           Cadmium         .02         ug/L           Lead         .23         ug/L           Iron         6         ug/L           Manganese         8.35         ug/L           Aluminum         .17         ug/L           Vanadium         .17         ug/L           Malybdenum         .8         ug/L           Malybdenum         .95         ug/L           Marinum         .17         ug/L           Silver         0         ug/L           Barium         .95         ug/L           Silver         0         ug/L           Barium         .01         ug/L           Strontium         .01         ug/L           Strontium         .01         ug/L           Titanium         .01         ug/L           Talanium         .01         ug/L           Uranium         .01         ug/L           Usoron         .0         ug/L           Ug/L         .0         ug/L           Usoron         .0	Listid	Parmname	Value	Units	Qual	Rmk1	Value	Units	Qual	Rmk1	Value	Units	Qual	Rmk1
Nickel 4. ug/L Zinc 8.9 ug/L Zinc 8.9 ug/L Cadmium .7 ug/L Lead .7 ug/L Lead .23 ug/L Iron 6 ug/L Iron 6 ug/L Manganese 8.35 ug/L Aluminum .17 ug/L Aluminum .17 ug/L Beryllium .95.8 ug/L Beryllium .95.8 ug/L Titanium .195 ug/L Titanium .01 ug/L Titanium .01 ug/L Titanium .01 ug/L Titanium .01 ug/L Cobalt .1 ug/L Arsenic .1 ug/L Cobalt .1 ug/L Cobalt .1dichloroethene .05 ug/L 1.1-dichloroethene .05 ug/L 1.1-dichloroethene .05 ug/L Chloroform .05 ug/L Chloroform .05 ug/L 1.1-dichloroethene .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.1-dichloroethane .05 ug/L 1.2-dichloroethane .05 ug/L 1.2-dichloroethane .05 ug/L 1.2-dichloroethane .05 ug/L 1.2-dichloroethane .05 ug/L 1.2-dichloroethane .05 ug/L 1.2-dichloroethane .05 ug/L 1.2-dichloroethane .05 ug/L	3051L1	Copper	31.6	ug/L	+/-2.90									
Zinc         8.9         ug/L           Cadmium         .02         ug/L           Chromium         .7         ug/L           Lead         .23         ug/L           Iron         6         ug/L           Manganese         8.35         ug/L           Aluminum         .17         ug/L           Molybdenum         .9         .9           Silver         0         ug/L           Barium         .0         ug/L           Beryllium         .0         ug/L           Silver         0         ug/L           Barium         .0         ug/L           Silver         0         ug/L           Beryllium         .0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Strontium         1.95         ug/L           Strontium         .0         ug/L           Titanium         .0         ug/L           Uranium         .0         ug/L           Uselenium         .0         ug/L           Uselenium         .0         ug/L           Uselenium         .0		Nickel	<b>.</b> 4	ng/L	+/-0.40									
Cadmium         .02         ug/L           Chromium         .7         ug/L           Lead         .7         ug/L           Iron         6         ug/L           Manganese         8.35         ug/L           Aluminum         .17         ug/L           Aluminum         .17         ug/L           Aluminum         .17         ug/L           Aluminum         .17         ug/L           Barium         .0         ug/L           Beryllium         .0         ug/L           Silver         0         ug/L           Barium         .0         ug/L           Silver         0         ug/L           Beryllium         .0         ug/L           Silver         0         ug/L           Strontium         .0         ug/L           Intanium         .0         ug/L           Intanium         .0         ug/L           Intanium         .0         ug/L           Uranium         .0         ug/L           Intanium         .0         ug/L           Up/L         .0         ug/L           Up/L         .0         <		Zinc	8.9	ug/Ľ	+/-1.10									
Chromium         .7         ug/L           Lead         .23         ug/L           Iron         6         ug/L           Manganese         8.35         ug/L           Aluminum         .3         ug/L           Aluminum         .17         ug/L           Vanadium         .17         ug/L           Molybdenum         .17         ug/L           Silver         0         ug/L           Barium         .17         ug/L           Barium         .0         ug/L           Silver         0         ug/L           Barium         .95.8         ug/L           Silver         0         ug/L           Barium         .0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Barium         .0         ug/L           Silver         .0         ug/L           Titanium         .0         ug/L           Uranium         .01         ug/L           Ush         .02         ug/L           Q/L         .02         ug/L		Cadmium	02	ug/L	+/-0.05									
Lead         .23         ug/L           Iron         6         ug/L           Manganese         8.35         ug/L           Aluminum         .3         ug/L           Vanadium         .17         ug/L           Molybdenum         .8         ug/L           Silver         0         ug/L           Molybdenum         .17         ug/L           Silver         0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Silver         0         ug/L           Strontium         195         ug/L           Titanium         10         ug/L           Thallium         10         ug/L           Uranium         10         ug/L           Arsenic         0         ug/L           Selenium         0         ug/L           Antimony         .57         ug/L           Choroethene         .05         ug/L           1,1-dichloroethene         .05 <td></td> <td>Chromium</td> <td>.7</td> <td>ug/L</td> <td>+/-0.50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Chromium	.7	ug/L	+/-0.50									
Iron         6         ug/L           Manganese         8.35         ug/L           Aluminum         .3         ug/L           Vanadium         .8         ug/L           Molybdenum         .8         ug/L           Molybdenum         .95.8         ug/L           Silver         0         ug/L           Barium         0         ug/L           Beryllium         0         ug/L           Titanium         .01         ug/L           Thallium         .01         ug/L           Uranium         .01         ug/L           Thallium         .01         ug/L           Uranium         .01         ug/L           Thallium         .01         ug/L           Uranium         .01         ug/L           Arsenic         .0         ug/L           Selenium         .0         ug/L           Antimony         .0         ug/L           Cobalt         .02         ug/L           Mercury         .02         ug/L           1,1-dichloroethene         .05         ug/L           1,1-dichloroethane         .05         ug/L <td< td=""><td></td><td>Lead</td><td>.23</td><td>ug/L</td><td>+/-0.23</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		Lead	.23	ug/L	+/-0.23									
Manganese       8.35       ug/L         Aluminum       .3       ug/L         Vanadium       .17       ug/L         Molybdenum       .8       ug/L         Silver       0       ug/L         Barium       0       ug/L         Beryllium       95.8       ug/L         Beryllium       0       ug/L         Beryllium       .01       ug/L         Beryllium       .01       ug/L         Titanium       .01       ug/L         Uranium       .01       ug/L         Thallium       .01       ug/L         Uranium       .01       ug/L         Dranium       .01       ug/L         Uranium       .01       ug/L         Dranium       .01       ug/L         Uranium       .01       ug/L         Uranium       .02       ug/L         Antimony       .02       ug/L         Cobalt       .02       ug/L         Mercury       .02       ug/L         1,1-dichloroethane       .05       ug/L         1,1-dichloroethane       .05       ug/L         1,2-dichloroethane       .05 <td></td> <td>Iron</td> <td><b>o</b></td> <td>ug/L</td> <td>+/-6.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Iron	<b>o</b>	ug/L	+/-6.00									
Aluminum .3 ug/L Vanadium .17 ug/L Vanadium .17 ug/L Molybdenum .8 ug/L Silver 0 0 ug/L Barium 95.8 ug/L Beryllium 0 ug/L Titanium 195 ug/L Titanium .01 ug/L Thallium .01 ug/L Boron .1 10 ug/L Boron .1 ug/L Boron .1 ug/L Selenium .0.2 ug/L Selenium .0.2 ug/L Chobalt .57 ug/L Mercury .02 ug/L Choroethene .05 ug/L 1.1-dichloroethene .05 ug/L 1.1-dichloroethene .05 ug/L Cis-1,2-dichloroethene .05 ug/L Cis-1,2-dichloroethane .05 ug/L 1,1-trichloroethane .05 ug/L 1,1-trichloroethane .05 ug/L 1,1-dichloroethane .05 ug/L 1,1-dichloroethane .05 ug/L 1,1-dichloroethane .05 ug/L 1,1-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,1-trichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroptopane .05 ug/L		Manganese	8.35	ug/L	+/-0.89									
Vanadium       .17       ug/L         Molybdenum       .8       ug/L         Silver       0       ug/L         Barium       95.8       ug/L         Beryllium       0       ug/L         Brontium       195       ug/L         Thallium       .01       ug/L         Uranium       1.01       ug/L         Boron       10       ug/L         Arsenic       .1       ug/L         Selenium       0       ug/L         Antimony       .0       ug/L         Cobalt       .0       ug/L         Mercury       .02       ug/L         Chloroethene       .05       ug/L         1.1-dichloroethene       .05       ug/L         1.1-dichloroethene       .05       ug/L         1.1-dichloroethene       .05       ug/L         1.1-dichloroethene       .05       ug/L         1.1-dichloroethane       .05       ug/L         1.1-dichloroethane       .05       ug/L         1.2-dichloroethane       .05       ug/L         1.2-dichloroethane       .05       ug/L         1.2-dichloroethane       .05       ug/L		Aluminum	ω	ug/L	+/-0.30									
Molybdenum       .8       ug/L         Silver       0       ug/L         Barium       0       ug/L         Beryllium       0       ug/L         Strontium       195       ug/L         Titanium       195       ug/L         Thallium       .01       ug/L         Uranium       1.01       ug/L         Boron       10       ug/L         Arsenic       .1       ug/L         Selenium       0       ug/L         Arsenic       .1       ug/L         Selenium       0       ug/L         Arsenic       .0       ug/L         Cholat       .0       ug/L         Arimony       .02       ug/L         Choroethene       .05       ug/L         1.1-dichloroethene       .05       ug/L         1.1-dichloroethene       .05       ug/L         1.1-dichloroethene       .05       ug/L         1.1-dichloroethane       .05       ug/L         1.1-dichloroethane       .05       ug/L         1.1-dichloroethane       .05       ug/L         1.1-dichloroethane       .05       ug/L <td< td=""><td></td><td>Vanadium</td><td>.17</td><td>ug/L</td><td>+/-0.08</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		Vanadium	.17	ug/L	+/-0.08									
Silver         0         ug/L           Barium         95.8         ug/L           Beryillium         0         ug/L           Strontium         195         ug/L           Titanium         2         ug/L           Thallium         .01         ug/L           Tranium         1.01         ug/L           Boron         10         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Arsenic         .1         ug/L           Cobalt         .02         ug/L           Mercury         .05         ug/L           Choroethene         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L		Molybdenum	œ	ug/L	+/-0.21									
Barium         95.8         ug/L           Beryillium         0         ug/L           Strontium         195         ug/L           Tritanium         2         ug/L           Thallium         .01         ug/L           Uranium         1.01         ug/L           Boron         10         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Arsenic         .1         ug/L           Cobalt         .02         ug/L           Mercury         .05         ug/L           Chloroethene         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           1,2-dichloroethane         .05		Silver	0	ug/L	+/-0.05									
Beryllium         0         ug/L           Strontium         195         ug/L           Tritanium         .2         ug/L           Thallium         .01         ug/L           Uranium         1.01         ug/L           Boron         10         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Antimony         .57         ug/L           Cobalt         .02         ug/L           Mercury         .05         ug/L           Chall         .05         ug/L           1,1-dichloroethene         .05         ug/L           1,1-dichloroethene         .05         ug/L           1,1-dichloroethene         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           1,2-dichloroethane		Barium	95.8	ug/L	+/-7.60									
Strontium         195         ug/L           Titanium         .2         ug/L           Thallium         .01         ug/L           Uranium         1.01         ug/L           Boron         10         ug/L           Arsenic         .1         ug/L           Selenium         .0         ug/L           Antimony         .57         ug/L           Cobalt         .02         ug/L           Mercury         .05         ug/L           Chloroethene         .05         ug/L           1,1-dichloroethene         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,1-dichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L		Beryllium	0	ug/L	+/-0.05									
Titanium         .2         ug/L           Thallium         .01         ug/L           Uranium         1.01         ug/L           Boron         10         ug/L           Arsenic         .1         ug/L           Selenium         0         ug/L           Antimony         .57         ug/L           Cobalt         .02         ug/L           Mercury         .05         ug/L           Chloroethene         .05         ug/L           1,1-dichloroethene         .05         ug/L           1,1-dichloroethene         .05         ug/L           1,1-dichloroethene         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L		Strontium	195	ug/L	+/-18.00									
Thallium       .01       ug/L         Uranium       1.01       ug/L         Boron       10       ug/L         Arsenic       .1       ug/L         Selenium       0       ug/L         Antimony       .57       ug/L         Cobalt       .02       ug/L         Mercury       .05       ug/L         Chloroethene       .05       ug/L         1,1-dichloroethene       .05       ug/L         1,1-dichloroethene       .05       ug/L         1,1-dichloroethane       .05       ug/L         1,1-trichloroethane       .05       ug/L         1,1-trichloroethane       .05       ug/L         1,2-dichloroethane       .05       ug/L		Titanium	'n	ug/L	+/-0.50									
Uranium       1.01       ug/L         Boron       10       ug/L         Arsenic       .1       ug/L         Selenium       0       ug/L         Antimony       .57       ug/L         Cobalt       .02       ug/L         Mercury       .05       ug/L         Chloroethene       .05       ug/L         1,1-dichloroethene       .05       ug/L         1,1-dichloroethene       .05       ug/L         1,1-dichloroethene       .05       ug/L         Chloroform       .05       ug/L         1,1-trichloroethane       .05       ug/L         1,1-trichloroethane       .05       ug/L         1,2-dichloroethane       .05       ug/L         1,2-dichloroethane       .05       ug/L         1,2-dichloropropane       .05       ug/L		Thallium	.0	ug/L	+/-0.05									
Boron 10 ug/L Arsenic 1 ug/L Selenium 0 ug/L Antimony .57 ug/L Cobalt .02 ug/L Chloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L Chioroform .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L Chloroform .05 ug/L 1,1-dichloroethene .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,1-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L		Uranium	1.01	ug/L	+/-0.08									
Arsenic .1 ug/L Selenium 0 ug/L Antimony .57 ug/L Cobalt .02 ug/L Chloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L Cis-1,2-dichloroethene .05 ug/L cis-1,2-dichloroethene .05 ug/L Chloroform .05 ug/L 1,1-trichloroethane .05 ug/L 1,1-trichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L Carbon tetrachloride .2 ug/L Benzene .05 ug/L		Boron	6	ug/L	+/-3.00									
Selenium         0         ug/L           Antimony         .57         ug/L           Cobalt         .02         ug/L           Mercury         .02         ug/L           Chloroethene         .05         ug/L           1.1-dichloroethene         .05         ug/L           1.1-dichloroethene         .05         ug/L           1.1-dichloroethene         .05         ug/L           cis-1,2-dichloroethene         .05         ug/L           1,1-trichloroethane         .05         ug/L           1,1,1-trichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           0,5         ug/L         ug/L           1,2-dichloroethane         .05         ug/L           0,5         ug/L         ug/L           0,5         ug/L		Arsenic	<u>.</u>	ug/L	+/-0.10									
Antimony .57 ug/L Cobalt .02 ug/L Mercury .02 ug/L Chloroethene .05 ug/L 1.1-dichloroethene .05 ug/L 1.1-dichloroethene .05 ug/L Tert-butyl methyl ether .05 ug/L trans-1,2-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-trichloroethane .05 ug/L Cis-1,2-dichloroethane .05 ug/L Cis-1,2-dichloroethane .05 ug/L 1,1-trichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L Carbon tetrachloride .2 ug/L		Selenium	0	ug/L	+/-1.00									
Cobalt .02 ug/L Mercury .02 ug/L Chloroethene .05 ug/L 1,1-dichloroethene .05 ug/L Tert-butyl methyl ether .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-dichloroethene .05 ug/L 1,1-trichloroethene .05 ug/L 1,1-trichloroethane .05 ug/L 1,1-trichloroethane .05 ug/L 1,1-trichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L 1,2-dichloroethane .05 ug/L		Antimony	.57	ug/L	+/-0.15									
Mercury         .02         ug/L           Chloroethene         .05         ug/L           1,1-dichloroethene         .05         ug/L           Dichloromethane         .2         ug/L           Tert-butyl methyl ether         .05         ug/L           trans-1,2-dichloroethene         .05         ug/L           1,1-dichloroethane         .05         ug/L           cis-1,2-dichloroethene         .05         ug/L           Chloroform         .04         ug/L           1,1-trichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L           2         ug/L         ug/L           3,2-dichloroethane         .05         ug/L           1,2-dichloroethane         .05         ug/L		Cobalt	.02	ug/L	+/-0.02									
Chloroethene       .05       ug/L         1,1-dichloroethene       .05       ug/L         Dichloromethane       .2       ug/L         Tert-butyl methyl ether       .05       ug/L         trans-1,2-dichloroethene       .05       ug/L         1,1-dichloroethane       .05       ug/L         cis-1,2-dichloroethene       .05       ug/L         Chloroform       0.4       ug/L         1,1-trichloroethane       .05       ug/L         1,2-dichloroethane       .05       ug/L         Carbon tetrachloride       .2       ug/L         Benzene       .05       ug/L         1,2-dichloroethane       .05       ug/L	3060L1	Mercury	.02	ug/L	<b>∨=W</b>									
oroethene       .05       ug/L         nethane       .2       ug/L         I methyl ether       .05       ug/L         -dichloroethene       .05       ug/L         -roethane       .05       ug/L         chloroethene       .05       ug/L         m       0.4       ug/L         hloroethane       .05       ug/L         oroethane       .05       ug/L         strachloride       .2       ug/L         .05       ug/L         oropropane       .05       ug/L	3144L1	Chloroethene	.05	ug/L	<b>∨=</b> W									
methane         .2         ug/L           I methyl ether         .05         ug/L           -dichloroethene         .05         ug/L           -roethane         .05         ug/L           -chloroethene         .05         ug/L           -m         0.4         ug/L           -m         0.5         ug/L           -m         0.5         ug/L           -roethane         .05         ug/L           -roethane         .05         ug/L           -roethane         .05         ug/L           -roethane         .05         ug/L           -roethane         .05         ug/L           -roethane         .05         ug/L           -roethane         .05         ug/L		1,1-dichloroethene	.05	ug/L	<b>M=&gt;</b>									
I methyl ether .05 ug/L dichloroethene .05 ug/L broethane .05 ug/L chloroethene .05 ug/L m 0.4 ug/L hloroethane .05 ug/L strachloride .2 ug/L bropropane .05 ug/L		Dichloromethane	'n	ug/L	<b>V=W</b>									
-dichloroethene .05 ug/L  roethane .05 ug/L  chloroethene .05 ug/L  m 0.4 ug/L  hloroethane .05 ug/L  roethane .05 ug/L  strachloride .2 ug/L  ropropane .05 ug/L		Tert-butyl methyl ether	.05	⊔g/L	<b>≥</b>									
procethane         .05         ug/L           chloroethene         .05         ug/L           m         0.4         ug/L           hloroethane         .05         ug/L           proethane         .05         ug/L           strachloride         .2         ug/L           oppropane         .05         ug/L		trans-1,2-dichloroethene	.05	ug/L	<b>&lt;=₩</b>									
chloroethene       .05       ug/L         m       0.4       ug/L         nloroethane       .05       ug/L         proethane       .05       ug/L         strachloride       .2       ug/L         propropane       .05       ug/L         propropane       .05       ug/L		1,1-dichloroethane	.05	ug/L	\$									
m 0.4 ug/L hloroethane .05 ug/L croethane .05 ug/L strachloride .2 ug/L strachloride .05 ug/L strachloride .05 ug/L		cis-1,2-dichloroethene	.06	ug/L	<b>V=V</b>									
hloroethane         .05         ug/L           proethane         .05         ug/L           strachloride         .2         ug/L           .05         ug/L           propropane         .05         ug/L		Chloroform	0.4	ug∕L	4									
oroethane .05 ug/L strachloride .2 ug/L .05 ug/L oropropane .05 ug/L		1,1,1-trichloroethane	.05	ug/L	<b>V=V</b>									
strachloride .2 ug/L .05 ug/L .ropropane .05 ug/L		1,2-dichloroethane	05	ug/L	<b>&lt;=₩</b>									
.05 ug/L propropane .05 ug/L		Carbon tetrachloride	io	ug/L	<b>V=V</b>									
.05 ug/L		Benzene	.05	ug/L	V=W									
		1,2-dichloropropane	.05	ug/L	<b>/=</b> ₩									

3408L1	3371L7	3226L1 3364L1	317013															3144L1	Listid		
Total Coliform Background Escherichia coli Heterotrophic bacteria (HB35)	Nitrogen; nitrite Nitrogen; nitrate+nitrite Phosphorus; phosphate Total coliform	NT: Total Coliforms Nitrogen; ammonia+ammonium	Trihalomethanes; total	1,3-dichlorobenzene	1,4-dichlorobenzene	1,1,2,2-tetrachloroethane	o-xvlene	Bromoform	m- and p-xylene	Ethylbenzene	Chlorobenzene	Tetrachloroethene	Dibromochloromethane	1,1,2-trichloroethane	1,2-dibromoethane	Toluene	Bromodichloromethane	Trichloroethene	Parmname	Sample Comments Description:	Field (D. Sample ID: MOE*LIMS ID: Station ID: Collect Date: Sample Location Description:
10.	.001 0.169 0.0012	Non-1	2 2 3 5	G G	.05	io į	G 6	) Ti	.05	.05	26	.05	iv	<u>`</u>	<u>.</u>	.05	'n	G	Value		
c/mL	mg/L mg/L	farget Textual result mg/L <t< th=""><th><u></u></th><th>[6]  </th><th>ug/L</th><th>ű G</th><th>ב ה ה</th><th>, ig/</th><th>ug/L</th><th>ug/L</th><th>ug/L</th><th>ug/L</th><th>J/Bn</th><th>ug/L</th><th>ug/L</th><th>ng/L</th><th>ug/L</th><th>ug/L</th><th>Units</th><th></th><th>C118 2004W 22000 22 S TREATE</th></t<>	<u></u>	[6] 	ug/L	ű G	ב ה ה	, ig/	ug/L	ug/L	ug/L	ug/L	J/Bn	ug/L	ug/L	ng/L	ug/L	ug/L	Units		C118 2004W 22000 22 S TREATE
<b>^</b>	<b>4</b>	l result	<b>V=</b> ₩	^: ¥ ¥	<b>V=</b> V	<b>√=</b> W	^ <u>+</u> ₹	^# ¥	<b>V=V</b>	<b>∨=</b>	<b>V=</b> ∨	<b>V=&gt;</b>	<b>₩</b>	<b>₹</b>	/¥=>	W=>	<b>∨=</b> ₩	W=>	Qual		T-1 C119452-0001 2004WD38-00171 2200086497804 22 SEP 2004 TREATED WATER
																			Rmk1		
0.0	0.0																		Value		
c/100mL c/100mL	c/100mL																		Units		C11 2004V 2200 22 WELI
																			Qual		W-1 C119452-0002 2004WD38-00172 2200086497001 22 SEP 2004 WELL 1 RAW
																			Rmk1		
0.0	3.0																		Value		
c/100mL c/100mL	c/100mL																		Units		C119 2004W 22000 22 S VELL
																			Qual		W-2 C119452-0003 004WD38-00173 2200086497002 22 SEP 2004 WELL 2 RAW
																			Rmk1		

CODE	DESCRIPTION
<	ACTUAL RESULT IS LESS THAN THE REPORTED VALUE
<=W	NO MEASURABLE RESPONSE (ZERO): <reported td="" value<=""></reported>
<t< th=""><th>A MEASURABLE TRACE AMOUNT: INTERPRET WITH CAUTION</th></t<>	A MEASURABLE TRACE AMOUNT: INTERPRET WITH CAUTION
APS	ADDITIONALPEAK, SMALL, NOTPRIORITY POLLUTANT
NDAE	NO DATA: ABSENT NT: ESCHERICHIA COLI
NDAT	NO DATA: ABSENT NT: TOTAL COLIFORMS
NDDN	NO DATA: NOT DETECTED NT: DETERIORATION INDICATORS
NDID	NO DATA: INSUFFICIENT DATA TO PERFORM CALC.

Login: C119452

**NON-TARGET TEXTUAL RESULT** 

Sample ID C119452-0001	Listid: 3226L1	Parmname	NT: Total Coliforms	Value:	Qual: NDAT	Remarks
Absent						
Sample ID C119452-0001	Listid: 3226L1	Parmname	NT: Escherichia coli	Value:	Qual: NDAE	Remarks
Absent						
Sample ID C119452-0001	Listid: 3226L1	Parmname	NT: Deterioration Indicators	Value:	Qual: NDDN	Remarks

Not Detected

#### **TEXT COMMENTS**

Sample ID C119452-0001 Matrix : Drinking	Water Method:	E3144B	Product: VOL3144	Parameter: Carbon tetrachloride

Mass spectrometric analysis has confirmed the presence of a C8 alkane in this sample.

** End of Report **



Water and Earth Science Associates Ltd. 3108 Carp Rd, Box 430, Carp (Ottawa) Ontario Canada KOA 1L0

Telephone: 613-839-3053 Fax: 613-839-5376

E-mail: wesacarp@wesa.ca

# FACSIMILE COVER SHEET

D	A'	T	E:
~	7		-

February 20, 2004

TO:

Rheal Charboneau - 1-613-994-2908

James C. Johnston - 944-7216

PROJECT NO.:

**B3018** 

SUBJECT:

Proposal for Well Head Protection Program'

Finch Communal Water Supply

MESSAGE:

Please see attached.

Don NOE

Blair OCWN

Blair OCWN

15 the oftwolved 12 order.

Call me to Verify for council

OK on the 9th of March 2004.

FROM: Robert Hillier

Total pages transmitted, including cover sheet: 7
If all pages are not received, please call 613-839-3053.

Originals to follow?

by Mail by Counter

by E-mail No



February 20, 2004 File# CB3018

Township of North Stormont 2 Berwick Victoria Street P.O. Box 99 Berwick, Ontario K0C 1G0

Attu: Mr. Rheal Charbonneau, Clerk-Treasurer FAX: 1-613-984-2908

Re: Proposal for Well Head Protection Program

Finch Communal Water Supply

Dear Mr. Charbonneau:

The following presents a work plan and cost proposal to prepare a Wellhead Protection Program (WHPP) for the Village of Finch Communal Well System. It is our understanding that the Ministry of Environment's Certificate of Approval (C of A) for the water supply system requires the implementation of a WHPP to monitor aquifer conditions and to identify and protect the area of recharge of the wells from the risk of man-made activities".

The main components of a WHPP include the following:

- 1. Delineation of Wellhead Protection Areas Well Capture Zones
- 2. Development of an Aquifer Monitoring Program, and
- 3. Development of a Land Use Risk Rating Map (Using the Well Capture Zones) to provide direction for appropriate wellhead and aquifer protection strategies

The following work program is proposed to complete the WHPP. Please note that this work program has been developed, assuming that no additional subsurface investigation through drilling and/or test pitting is required for the site. Also, the wellhead protection areas for the Village of Finch, as mapped/modelled within the EOWRC's "Municipal Groundwater Study, Township of North Stormont, October 2003." will provide the basis for delineation of wellhead protection areas. If additional subsurface investigation is deemed necessary during the course of this study, the Township will be notified of this requirement in writing.

### Task 1: Hydrogeological Information Review and Site Inspection

The purpose of this task is to compile and review all existing chemical and physical hydrogeological information for the site to identify past groundwater quality issues, if any, and to identify any deficiencies in the existing physical hydrogeological information for the site.

Information that will be compiled and reviewed includes:

- All past site hydrogeological reports related to the communal wells. Specifically, all
  information relating to past aquifer testing of the communal wells and all subsurface
  characterization studies describing soil stratigraphy and soil texture (i.e. grain size
  distribution) on the property.
- Available hydrogeological and/or geotechnical reports, environmental site assessments, licenses and permits.
- All historical 'raw' water quality data obtained for the communal wells since their commissioning.
- A review of the wellhead protection areas for Finch mapped/modelled within the EOWRC's "Municipal Groundwater Study, Township of North Stormont, October 2003."
- A review of recent topographic maps and air photos for use in further mapping of Well Capture Zones in the vicinity of the supply wells.

In conjunction with the background information review a site inspection will be conducted to carry out the following:

- An inspection of the communal wells will be made to investigate their general physical condition and their relative location to neighbouring surface water features and land use activities.
- Any existing site monitoring wells will be identified and inspected for their general
  physical condition. If possible, static groundwater elevation data will be collected from
  these wells.
- Any existing neighbouring domestic wells will be identified and assessed for their appropriateness for inclusion in an aquifer monitoring program.
- The site area within 500 metres of the wellhead will be inspected to identify potential
  sources of contamination that could contribute to microbiological contamination and/or
  general degradation of both surface water and groundwater quality (i.e. manure runoff
  from neighbouring agricultural lands, road salting, petroleum outlets, etc.).

## Task 2: Data Analysis and Reporting

The results of the study will be compiled in the WHPP report which will include all 'new' supporting data along with references to 'past' data sources used in developing the conclusions of the study. The report will include site maps showing the groundwater Time-of-Travel (TOT)

capture zones determined in the "Municipal Groundwater Study, Township of North Stormont" along with any modified boundaries based on additional site specific interpretations by WESA. A Land Use Risk Rating Map (Using the Well Capture Zones) will be generated to provide direction for appropriate wellhead and aquifer protection strategies. A recommended long term monitoring program to monitor changes in the physical and chemical hydrogeology of the aquifer will be presented. Ideally, this monitoring program will use existing monitoring wells and/or nearby domestic wells to monitor static water levels and aquifer water quality up gradient of the wellhead.

The report will be prepared and signed by a qualified bydrogeologist.

### COST ESTIMATE

The hourly rates for WESA personnel whom might be involved in this project are as follows:

Personnel	Hourly Rate
Tami Sugarman, B.Sc Francois Richard, Ph.	\$ 105.00 \$ 80.00 \$ 90.00 \$ 65.00

The cost estimate to carry out the work discussed above is summarized in the table below. The total estimated costs represent an upset limit inclusive of all professional fees and disbursements, but do not include GST. Should the project work be completed in less than the estimated time, the professional fees will be reduced accordingly based on the hourly rates noted above.

	Task	Professional Fees		Disburseme	nts	Total
			Field Expense	Office	Laboratory Analyses	
1.	Background Review and Preliminary Site Inspection	1,660	235	50	a	1,945
2.	Data Analysis and Reporting	2,800	0	200	0	3,000
To	tals	\$ 4,460	\$ 235	\$ 250	\$ 0	\$ 4,945

Estimated Project Total \$4,945 (excluding GST)

This project will be completed in accordance with WESA's Standard Terms and Conditions for Consulting Services, a copy of which is attached. Please review the attached conditions and return a signed copy of the authorization to our office in order for us to proceed with this work plan. Thank you once again for requesting this proposal. Please do not besitate to contact me if you have any questions regarding the work plan, proposed schedule, or budget. WESA is prepared to commence this work immediately upon notification from the client.

Sincerely,

Robert J. Hiller, B.Sc., P.Geo.

Hydrogeologist

Encl.

cc; James C. Johnston, Kostuch Engineering. Fax: 944-7216

Ref: B3018 Feb20-04Prd.doc