**Environment Accounts and Statistics Division** 

# Survey of Drinking Water Plants

# Reporting year 2013

### **CONFIDENTIAL** once completed

Si vous préférez ce questionnaire en français, veuillez nous appeler au 1-866-445-4323

	riease provide your email address.
	Email address
C0009	
	Please verify the business name, address and contact name, and correct where needed.
	Legal name (facility owner)
C0001	
	Business name (facility owner)
C0002	
	First name
C0008	
C0028	Last name
00020	
	Address (number and street)
C0004	
	City
C0005	
	Province, territory or state Postal code or zip code
C0006	C0007

### PLEASE READ BEFORE COMPLETING

This survey is conducted under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S-19. COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.

### **Survey Purpose**

This survey collects detailed information concerning the quantity and quality of water processed by facilities that withdraw raw water from the environment and produce potable water for consumption. The applicable facilities range from ones with complex treatment processes to basic groundwater well supplies that provide minimal or no treatment. This data will be used to track the state of stocks of water on a regional basis in Canada and will also be used in the development of environmental accounts and indicators. Your information may also be used by Statistics Canada for other statistical and research purposes.

### Confidentiality

Statistics Canada is prohibited by law from releasing any information it collects which could identify any person, business, or organization, unless consent has been given by the respondent or as permitted by the Statistics Act. Statistics Canada will use the information from this survey for statistical purposes.

### **Data-sharing Agreements**

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes

Information on data-sharing agreements and record linkages can be found on the last page of this questionnaire.

### Who should complete this questionnaire?

This survey should be completed by persons knowledgeable with the treatment processes, operating costs and water quality data.

### **Multiple Water Facilities/sources**

If there are multiple water facilities/sources associated with the facility identified on the mailing label, complete Sections 1, 2, 3 and 4 of this survey for the combined total of all facilities. Complete Section 5 for the facility that provided the largest portion of water by volume in 2013.

### Return of Questionnaire

Please return the completed questionnaire within 60 days of receipt using the enclosed envelope. If you are unable to do so, call 1-866-445-4323 to inform us of the expected completion date. You can also fax it at 1-888-883-7999. If you have lost the return envelope or need help, call us at 1-866-445-4323.

### **Fax or E-mail Transmission Disclosure**

Statistics Canada advises you that there could be a risk of disclosure during the transmission of information by facsimile or e-mail. However, upon receipt, Statistics Canada will provide the guaranteed level of protection afforded all information collected under the authority of the Statistics Act.

# Z PLEASE COMPLETE THIS QUESTIONNAIRE USING A BLACK BALLPOINT PEN. Person primarily responsible for completing this questionnaire: Last name Telephone number Extension C0054 Fax number First name Organization E-mail address

4-2300-59.1: 2013-07-22



Canadä

## **SECTION 1 – DRINKING WATER PLANT INFORMATION FOR 2013**

1. In 2013, did the facility identified on the mailing label withdraw water from the environment, in order to treat and/or

## FACILITY FOR WHICH THIS QUESTIONNAIRE IS COMPLETED

zone

convey potable water to a permanent community of 300 or more people?

	nclosed envelope. Thank you.			onnaire in the
SOURCE/RAW WAT	ER TYPE			
Indicate the percent	oured areas. Comments on any sec stage and type of source water (rav ities/sources associated with the fo ociated sources.	w water) obtained for p	rocessing by this facil	ity below. If there are
	er of production facilities for each s conveyed as potable water to a d		e raw water withdraw	n from the environmer
was freated and/or	conveyed as potable water to a d	·	PERCENTAGE	NUMBER OF PRODUCTION FACILITIES
Surface water		<b>61</b> 001	%	C1004
Groundwater		C1002	%	C1005
GUDI - Groundwater l	Under Direct Influence of surface v	water C1003	%	C1006
	ordinates for the facility that p er facilities/sources in the commo			Street type (Rd, Ave, etc
C1007	C1008		C100	* * * * * * * * * * * * * * * * * * * *
Name of township or	municipality		С	Postal code
Name of township or C1010	r municipality		С	
C1010  There is no c  Answer only one of c  Canada's "The Atlas c		le Earth" that can assis	e software, such as N t you in finding coord	atural Resources
C1010  There is no compared to the compared to	civic address  questions 6, 7 or 8. There are map of Canada: Toporama" and "Googl minutes, seconds or in Universal T	le Earth" that can assis	e software, such as N t you in finding coord	atural Resources
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eastings

Page 2 4230059021

northings

PLANT CAPACITY										
INSTRUCTIONS										
Capacity for 2013 is to be reported in the units used at the	e drinking wa	ater facili	ity. If t	here a	re m	ultiple	wate	er facili	ties/s	source
being reported for the facility identified on the mailing lat										
9. What was the maximum rated treatment capacity of this facility in 2013? (Specify the units in question 10.)		C1020							ΙΙ.	
0. Select the <b>unit</b> on the left and the <b>time period</b> on the rig	ht for the ca	pacity va	alue i	n que:	stion	9.				
UNIT	TIME	PERIO	D							
Cubic metres	C1023 1	Per sec	cond							
<sup>2</sup> Litres	2	Per mir	nute							
Mega Litres (1 million litres)	3	Per day	y							
Imperial gallons (1 imperial gallon = 4.5 litres)	4	Per yea	ar							
<sup>5</sup> U.S. gallons (1 U.S. gallon = 3.8 litres)	5	Other (	specii	fy):						
Other (specify units clearly):	C1024	1								
C1022										
			K					C102	5	
1. How many days in 2013 did the facility operate at greater	than 90% c	apacity?	?	<b></b>						
	•									
SECTOR USE AND POPULATION SERVED										
	-									
<ul> <li>Report the percentage of water used by the sectors ide</li> </ul>	entified and t									
		LI	A - 43				C 1114	! -1	4 ! £!1	
mailing label. If there are multiple water facilities/sources										
mailing label. If there are multiple water facilities/sources the combined total for all associated sources.	being report	ted for th	ne fac	ility ide	entifi	ed on	the n	nailing	label	l, repo
mailing label. If there are multiple water facilities/sources the combined total for all associated sources.  2. Of the total potable water produced, indicate the percentage.	being report	ted for th	ne faci	ility ide	entifi y bel	ed on ow. If	the n	nailing some	label porti	l, repor
mailing label. If there are multiple water facilities/sources the combined total for all associated sources.  2. Of the total potable water produced, indicate the percentaknown, indicate their percentages in the relevant boxes.	being report	ted for th	ne faci	ility ide	entifi y bel	ed on ow. If	the n only e "Do	some	label porti	l, report ons ar box."
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### **SECTION 2 – POTABLE WATER VOLUMES FOR 2013**

### **INSTRUCTIONS**

- 16. Report by month below the **volumes** of potable water produced by this drinking water facility. If there are multiple water facilities/sources being reported for the facility identified on the mailing label, report the combined total for all associated sources.
- 17. Monthly potable water volumes for 2013 are to be reported in the units used at the drinking water facility. Select the **unit of measure** (right column) for the volumes produced (left column) for all volumes reported in this section.

		VOLUMES	UNIT	
January	C2000		C2013 1	Cubic metres
			2	Litres
February	C2001		3	Mega Litres (1 million litres)
	C2002		4	Imperial gallons (1 imperial gallon = 4.5 litres)
March	02002		5	U.S. gallons (1 U.S. gallon = 3.8 litres)
A '1	C2003		6	Other (specify units clearly):
April			C2014	
May	C2004			
			. (	
June	C2005			
			W.	
July	C2006		10.	
A	C2007			
August				
September	C2008			
October	C2009		•	
	00010	<b>70</b>		
November	C2010			
Doggmbar	C2011			
December				
TOTAL C20	12			

18. Are potable water volumes metered or estimated?

G2015	1	Metered
	2	Estimated

SECTION 3 – WATER TREATMENT PROCESSES	5 FOR 2013
INSTRUCTIONS	
<ul> <li>In this section, report the treatment processes applied to Note: disinfection only (e.g. chlorination) is a treat</li> </ul>	
19. Are there multiple water facilities that withdraw raw water identified on the mailing label?	er directly from the environment being reported for the facility
C3000 1 Yes ► Go to question 20 3 No	lo > Go to question 22
20. Does each facility use the same water treatment process	s?
C3001 1 Yes ► Go to question 22 3 No	lo > Go to question 21
21. For the facility that produced the largest volume of potab it represents:	ble water, indicate what percentage of the total volume
% • Go to question 22 and respond for a potable water.	the facility that produced the largest volume of
22. Is the raw water withdrawn by this facility conveyed direction only (e.g. chlorination) is a treatment	
00000	lo Complete questions 23 to 62
INSTRUCTIONS	X
• In the "Process Used" column, confirm either yes or no	no to all the water treatment processes listed below.
UNIT PROCESSES FOR WATER TREATMENT	PROCESS USED
PRE-TREATMENT	YES NO  Either Yes or No must be checked for each line. Review
23. Microscreening	the entire list prior to making selections.
24. Other pre-treatment (specify):	
C3005	C3006 1 3
DISINFECTION/OXIDATION	
25. Chlorination (hypochlorites or chlorine gas)	C3007 1 3
26. Chlorine dioxide	C3008 1 3
27. Chloramination	C3009 1 3
28. UV irradiation	C3010 1 3
29. Ozonation	C3011 1 3
30. Application of potassium permanganate	Indicate "no" if only used to recharge a greensand filtration
31. Other disinfection/oxidation reagents	system.  continued on next page.

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	UNIT PROCESSES FOR WATER TREATMENT	PROCESS USED YES NO	
	CHEMICAL TREATMENT OR ADDITION	TEG NO	
32.	Fluoridation (if 'yes', mark all those applied)	C3014 1 3	If 'yes', mark all those applied.
33.	Alkalinity adjustment for process control	C3016 1 3	Sodium fluoride Sodium silicofluoride Hydro-fluosilicic acid Ammonium silicofluoride
34.	pH adjustment for process control	C3017 1 3	Ammonium siliconuonde
35.	Corrosion control – pH adjustment	C3018 1 3	
36.	Corrosion control – alkalinity adjustment	C3019 1 3	
37.	Corrosion control – inhibitors (if 'yes', mark all those applied)	C3020 1 3	If 'yes', mark all those applied.
	COAGULATION/FLOCCULATION & FILTER AID		Orthophosphates
38.	Coagulation – aluminum based coagulant	C3022 3	Polyphosphates  Silicates  Other
39.	Coagulation - ferric based coagulant	C3023 1 3	
40.	Other coagulant	C3024 1 3	
41.	Enhanced coagulation	C3025 1 3	
42.	Flocculation	C3026 1 3	
	CLARIFICATION/SEDIMENTATION		
43.	Sedimentation – conventional, tube, plate or high rate	C3027 1 3	
44.	Dissolved air flotation (DAF) – conventional or high rate	C3028 1 3	
45.	Other clarification – (sludge blanket, pulsed blanket, ballasted, solids contact or other)	C3029 1 3	continued on next page

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UNIT PROCESSES FOR WATER TREATMENT		-	U	OCESS SED
FILTRATION			/ES	NO
6. Filtration – granular media (single, dual or triple media)	C3030	1		3
7. Granular activated carbon – used as part of filter media	C3031	1	•	3
8. Granular activated carbon – used as separate unit process	C3032	1		3
9. Filtration – membrane (microfiltration)	C3033	1		3
Filtration – membrane (ultrafiltration)	C3034	1		3
1. Filtration – cartridge/bag	C3035	1		3
2. Filtration – slow sand	C3036	1	•	3
OTHER PROCESSES				
3. Aeration – transfer of oxygen or air to water	C3037	1	•	3
4. Air stripping – contacting water with air to transfer contaminants to air	C3038	1	•	3
5. Lime softening	C3039	1	•	3
6. Activated alumina	C3040	1		3
7. Ion exchange	C3041	1	•	3
8. Sequestering	C3042	1		3
9. Greensand filtration	C3043	1	•	3
Powdered activated carbon	C3044	1	•	3
Reverse osmosis or nano filtration	C3045	1		3
2. Other processes (specify):	C3047	1		3

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### SECTION 4 - ANNUAL TREATMENT COSTS FOR 2013 CALENDAR YEAR

### **CAPITAL EXPENDITURES**

#### **INSTRUCTIONS**

- Report capitalized costs for 2013 in Canadian dollars for the calendar year (January-December). If there are multiple
  water facilities/sources being reported for the facility identified on the mailing label, report the combined total for all
  associated sources.
- Provide capital costs related to the acquisition and treatment of source/raw water.
- Exclude costs associated with distribution.
- Include money spent to add, expand or upgrade physical assets such as:
  - » property » machinery
  - » buildings
    » processing equipment/infrastructure
- **Include** capitalized costs related to waste treatment processes (i.e. backwash/sludge processing and residuals disposal related to potable water production)
- Include construction and engineering costs such as:
  - » installation» contractor» retrofitting» engineering
  - » contingencies 
    » legal and related administrative fees
- Include indirect costs related to capital expenditures such as:

» housing» training» permitting» piloting» land» education

# OPERATION AND MAINTENANCE COSTS

### INSTRUCTIONS

- Provide Operation and Maintenance (O&M) costs for 2013 related to the acquisition and treatment of source/raw water. If there are multiple water facilities/sources being reported for the facility identified on the mailing label, report the combined total for all associated sources.
- Exclude costs associated with distribution.
- Include the following:
  - » materials (chemicals and replacement parts)
  - » labour (internal and external staff including laboratory personnel)
  - » energy
- Include other costs such as:
  - » waste disposal and residuals handling related to potable water production
  - » analytical/sampling costs
  - » any associated administration and service costs directly related to O&M (consultants, contractors)
  - » O&M costs related to waste treatment processes (i.e. backwash/sludge processing and residuals disposal related to potable water production)

### 64. 2013 O & M COSTS

Materials (chemicals and replacement parts)	C4001	\$ Millions	Thousands	Hundreds	X X
Labour (internal and external staff)	C4002	\$ Millions	Thousands	Hundreds	Cents X X
Energy	C4003	\$ Millions	Thousands	Hundreds	Cents X X
Other (specify): C4004	C4005	\$ Millions	Thousands	Hundreds	Cents X X
TOTAL	C4006	\$ Millions	Thousands	Hundreds	Cents X X

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### **SECTION 5 - RAW SURFACE WATER QUALITY DATA FOR 2013**

### **INSTRUCTIONS**

### Report for surface water only

• Complete this section for raw surface water sources only. Do not report for groundwater, groundwater under the direct influence of surface water (GUDI), or treated surface water. If the plant does not process raw surface water, skip to question 68.

### **Purpose**

- The purpose of this section is the compilation of source/raw water quality data comparable to the applicable limits in Provincial/Territorial and/or Guidelines for Canadian Drinking Water Quality (GCDWQ). Water quality data submitted should be comparable (based on method of testing) to these guidelines where applicable.
- If there are multiple water facilities/sources associated with the facility identified on the mailing label, complete this section for the facility that provides the largest portion of water by volume with available data that reflects the source/raw water quality processed by the facility.

### Number of samples per month

- Provide the number of samples, minimum, maximum, and average values for the parameters identified. If the number of samples is large due to on-line metering, enter 999.
- Enter 0 for the number of samples if the parameter is not monitored.

### Reporting water quality units

- Report each parameter only in the units indicated.
- Select the reporting units for Escherichia coli on page 10. If reporting presence/absence results, use the maximum
  column to report the number of positive samples (the average and minimum columns are not applicable for presence/
  absence results).

IMPORTANT: Any additional information or comments regarding the water quality data reported in this section should be provided in the comments section on page 13.

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# **SECTION 5 – RAW SURFACE WATER QUALITY DATA FOR 2013**

65. Report monthly values for Escherichia coli in raw water for 2013. See instructions on page 9.

Escherichia coli IN RAW WATER, 2013						
Select units repo	rted:					
Color	ny formina unite na	er 100 millilitres (cfu/100 r	nl )			
0		per 100 millilitres (Clu/1001)				
0			ioo iiiLj			
Prese	ence/Absence (P/A	y				
	Number of samples	Minimum	Maximum	Averege		
Month	per month (enter 0 if not	value per month	value per month	Average value per month		
	sampled, 999 for continuous	(not applicable if reporting P/A)	(Number of positive samples if reporting P/A)	(not applicable if reporting P/A)		
	monitoring)					
	C5071	C5072	C5073	C5074		
January	03071	0.0072	00070	00074		
	C5075	C5076	C5077	C5078		
February						
			30			
	C5079	C5080	C5081	C5082		
March	00070	00000		00002		
	C5083	C5084	C5085	C5086		
April		00001		0000		
		80				
	C5087	C5088	C5089	C5090		
May	03007	6,000	03063	63090		
	C5091	C5092	C5093	C5094		
June		00002				
	C5095	C5096	C5097	C5098		
July						
	C5099	C5100	C5101	C5102		
August						
	C5103	C5104	C5105	C5106		
September						
	C5107	C5108	C5109	C5110		
October						
	C5111	C5112	C5113	C5114		
November						
	C5115	C5116	C5117	C5118		
December						

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# **SECTION 5 – RAW SURFACE WATER QUALITY DATA FOR 2013**

66. Report monthly values for turbidity of raw water for 2013. See instructions on page 9.

Month	Number of samples per month (enter 0 if not sampled, 999 for continuous monitoring)	Minimum value per month	Maximum value per month ephelometric turbidity units	Average value per month
January	C5168	C5169	C5170	C5171
February	C5172	C5173	C5174	C5175
March	C5176	C5177	C5178	C5179
April	C5180	C5181	C5182	C5183
May	C5184	C5185	C5186	C5187
June	C5188	C5189	C5190	C5191
July	05192	C5193	C5194	C5195
August	C5196	C5197	C5198	C5199
September	C5200	C5201	C5202	C5203
October	C5204	C5205	C5206	C5207
November	C5208	C5209	C5210	C5211
December	C5212	C5213	C5214	C5215

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# **SECTION 5 – RAW SURFACE WATER QUALITY DATA FOR 2013**

67. Report monthly values for temperature of raw water for 2013. See instructions on page 9.

TEIVII EII/AI	URE OF RAW V	VAIEN, 2013		
Month	Number of samples per month (enter 0 if not sampled, 999 for continuous	Minimum value per month	Maximum value per month	Average value per month
	monitoring)		degrees Celsius (°C)	
January	C5216	C5217	C5218	C5219
February	C5220	C5221	C5222	C5223
March	C5224	C5225	C5226	C5227
April	C5228	C5229	C5230	C5231
May	C5232	C5233	C5234	C5235
June	C5236	C5237	C5238	C5239
July	<b>C</b> 5240	C5241	C5242	C5243
August	C5244	C5245	C5246	C5247
September	C5248	C5249	C5250	C5251
October	C5252	C5253	C5254	C5255
November	C5256	C5257	C5258	C5259
December	C5260	C5261	C5262	C5263

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SECTION 6 - COMMENTS	
68. A	pproximately how long did it take to collect the data and complete this survey?
CO	Hour(s) Minutes 910 C9909
09	110
69. W	e invite your comments on any section of this survey below. Please be assured that we review all comments ith the intent of improving the survey.
C9920	
C9913	
C9914	
C9915	
C9916	
C9917	
09917	
C9918	
C9919	
C9922	
C9923	
C9924	
C9925	
13020	
00000	
C9926	
C9927	
C9928	
C9929	
C9930	

### **GENERAL INFORMATION**

### **Data-sharing agreements**

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

Section 11 of the *Statistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survey, there are Section 11 agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, and the Yukon

The shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory. Section 12 of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under Section 12, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For this survey, there are Section 12 agreements with the statistical agencies of Prince Edward Island, the Northwest Territories and Nunavut as well as with Health Canada and Environment Canada.

For agreements with provincial and territorial government organizations, the shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

### **Record Linkage**

To enhance the data from this survey, Statistics Canada may combine it with information from other surveys or from administrative sources.

### Lost the return envelope or need help?

Call us at 1-866-445-4323 or mail to :

Statistics Canada, Operations and Integration Division, Central Reception, SC0505 Main Building 150 Tunney's Pasture Driveway Ottawa, Ontario, K1A 0T6

## Thank you for completing this questionnaire.

Please retain a copy for your records.

Visit our website at <a href="https://www.statcan.gc.ca">www.statcan.gc.ca</a>

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