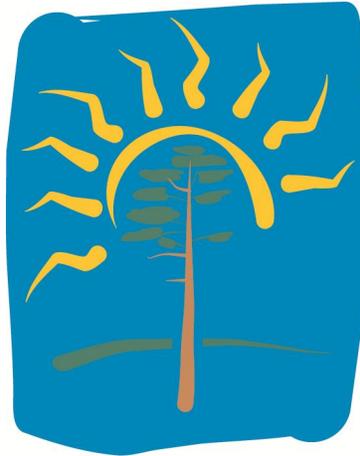


Scarborough Rouge River Survey Report



ONTARIO
CLEAN AIR
ALLIANCE

by:



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METHODOLOGY & LOGISTICS

Overview

- Ontario Clean Air Alliance Research commissioned Oraclepoll Research to conduct a telephone survey of residents, 18 years of age or older from the Provincial Riding of Scarborough Rouge River. The survey covered issues related to vote intent for the upcoming By-Election in the Riding and topics related to the Pickering Nuclear Station.
- This report represents the findings from that survey of n=800 residents that includes an executive summary and results by question section. A separate report contains the crosstabulation of results by demographic categories.

Study Sample

- The survey screened to certify that only voting age residents 18 years of age or older that were residents of the Riding were interviewed.

Logistics

- Surveys were conducted by telephone at the Oraclepoll call centre using person-to-person live operators from the days of August 4th and August 10th 2016.
- All surveys were conducted by telephone using live operators at the Oraclepoll call centre facility. The survey was conducted using person-to-person interviewing with computer-assisted techniques of telephone (CATI) and random number selection (RDD). The sample frame was inclusive of private numbers as well as cell phone-only households. A total of 20% of all interviews were monitored and the management of Oraclepoll Research supervised 100%.
- Initial calls were made between the hours of 6:00 p.m. and 9:00 p.m. Subsequent call-backs of no-answers and busy numbers were made on a (staggered) daily rotating basis up to 5 times (from 10:00 a.m. to 9:00 p.m.) until contact was made. In addition, telephone interview appointments were attempted with those respondents unable to complete the survey at the time of contact. If no contact was made at a number after the fifth attempt, the number was discarded and a new one supplanted it.

Confidence

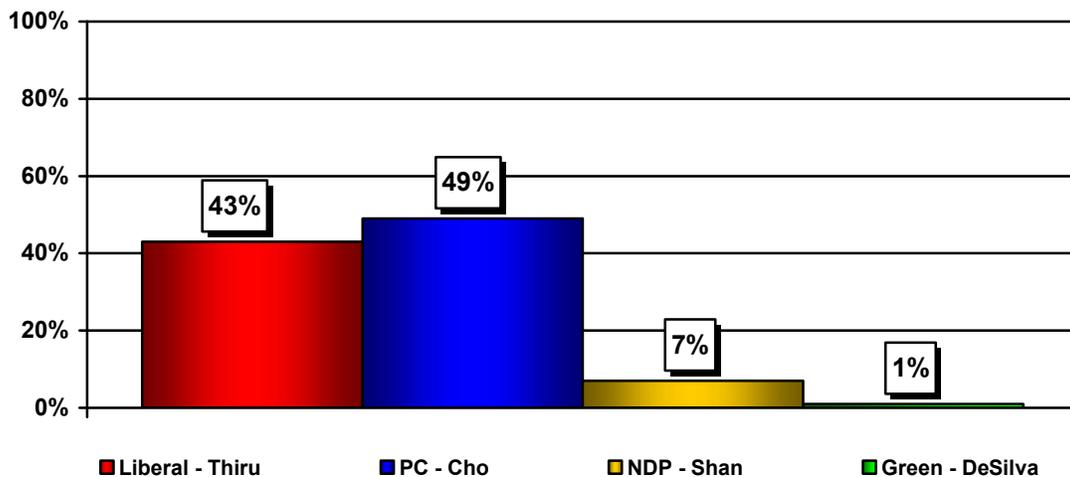
- The margin of error for the n=800 sample is $\pm 3.5\%$ 19/20 times.

EXECUTIVE SUMMARY

Vote Intent

After being screened to ensure that they were eligible voters of the Riding, all respondents were first asked about their vote intent for the upcoming Provincial By-Election in their Riding of Scarborough Rouge River. They were read the list of candidates and their associated Party

“Scarborough-Rouge River Liberal MPP Bas Balkissoon announced his resignation in March of this year and as a result a provincial by-Election will be held in the Riding on September 1st. Which Party and its local candidate would you most likely vote for?”



Among decided voters in the Riding, Raymond Cho and the PC’s have the backing of 49% of the electorate, while the Liberals and Piragal Thiru trail at this point in the campaign by 6% and sit at 43% support. The NDP and its candidate Neethan Shan are only backed by 7% of voters, while the Priyan De Silva Green ticket has 1% support. A total of 30% of voters remain undecided or do not know who they will back.

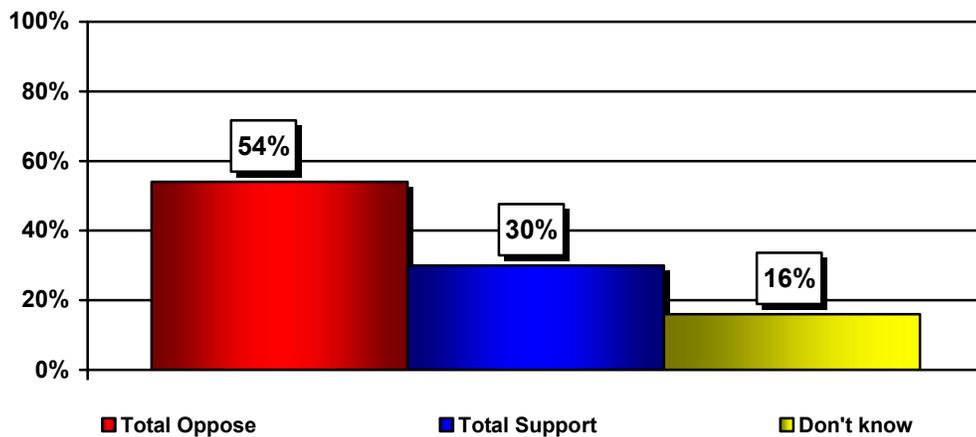
Decided PC support is strongest among older residents 65+ (60%), higher income earners in the \$90,000+ range (56%) and among more males (61%) compared to females (38%). Those more likely to vote Liberal include younger residents 18-34 (47%), lower earners in the under \$30,000 (50%) and \$30,000 - \$59,999 (52%) cohorts and females (54%) in relation to males (33%).

Keeping Pickering Open Until 2024

All respondents were then read the following preamble describing the Pickering Nuclear Station and were then asked if they opposed or supported keeping it open until 2024.

“The Pickering Nuclear Station is the oldest commercial nuclear station in Canada and the 4th oldest in North America. Its reactors have reached the end of their “design life” or the life that the plant’s components were designed to withstand. Ontario Power Generation wants to keep the Pickering Station operating until 2024.”

“Would you say that you strongly oppose, oppose, support or strongly support keeping the Pickering Nuclear Station operating until 2024?”



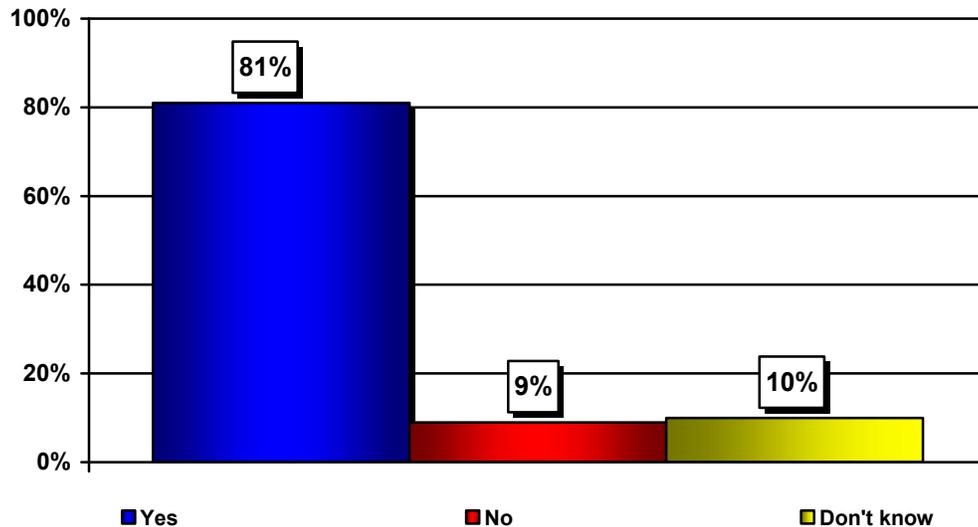
A 54% majority of voters oppose (26%) or strongly oppose (28%) keeping the Pickering Station open until 2024, compared to only three in ten or 30% that support (18%) or strongly support (12%) a continuation of its operation. A total of 16% did not know or had no opinion.

Opposition was strongest among 18-34 year olds (70%), Greens (100%) and NDP voters (83%), followed by Liberals (72%), but by only 44% of Tories. Support for keeping the Station open was higher among older residents 65+ (46%), PC (38%) and undecided voters (39%).

A Lower Cost Replacement

Next respondents were told about the operating costs of the Station and were then asked if it should be closed if a lower cost replacement was available.

“The Pickering Nuclear Station also has the highest operating costs [per kWh] of any nuclear station in North America. In your opinion, should the Pickering Nuclear Station be closed if a lower cost replacement for power is available?”



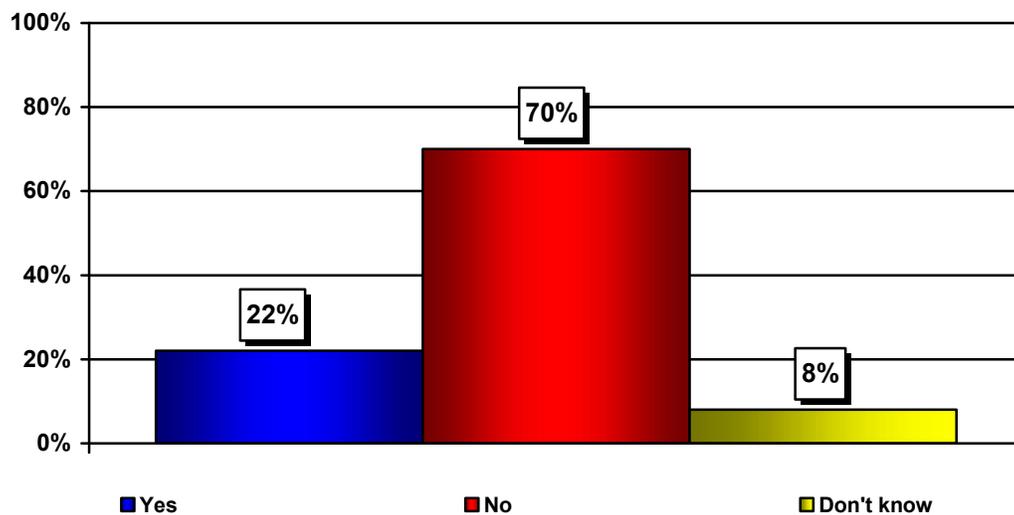
More than eight in ten or 81% of those surveyed were of the opinion that Pickering should be closed if a lower cost replacement was available. Only 9% do not feel it should be closed and 10% were unsure.

Support for closure in the event of a replacement was strongest among 18-34 year olds (88%), Green's (100%), followed by New Democrats (83%), Liberals (82%), undecided's (81%) and then Tories (78%).

Energy Exports & Pickering

The discussion moved to the Ontario's energy exports and the fact that they exceed the amount of energy produced at Pickering. Given the exports and cost of the Station, respondents were then asked if they felt that it should continue to remain open until 2024.

"Last year Ontario exported more electricity than was produced by the Pickering Nuclear Station. Given this surplus and the cost of producing energy at the Station, do you feel that the Pickering Nuclear Station should continue to operate until 2024?"



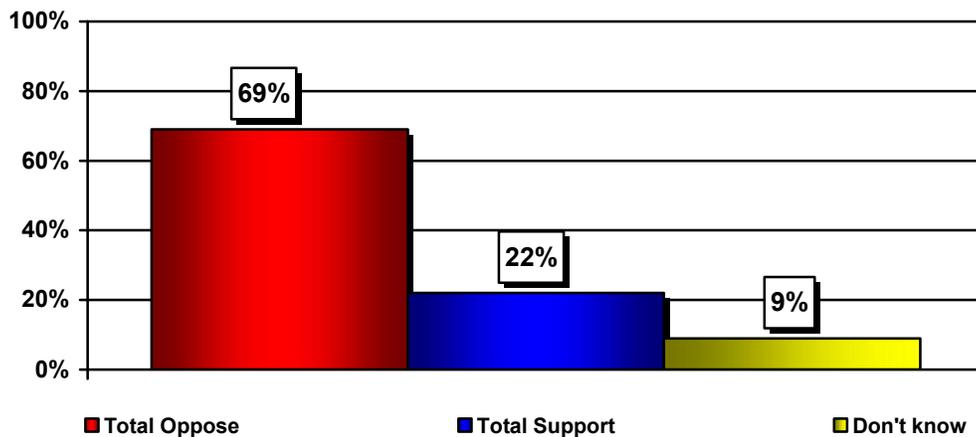
A high 70% of voters in the Riding do not feel that the Station should remain open in light of its costs and the energy surplus in the Province. Only 22% prefer Pickering to remain open until 2024 and 8% were unsure.

Those 18-34 (86%) and 35-50 (76%) were most likely to say no to the 2024 extension, as were all Green (100%) and a high number of NDP (89%) and Liberal (83%) supporters. A lower number of PC's or 53% do not want Pickering to remain open until 2024 compared to 33% that want it to stay in operation as do older voters (36% - stay in operation).

Licence Extension

Next respondents were asked about the opposition or support for a proposed extension of the Station's operating licence until 2024.

"The Pickering Nuclear Station's operating license expires in 2018. Would you say that you strongly oppose, oppose, support or strongly support Ontario Power Generation's proposal to extend its operations until 2024?"



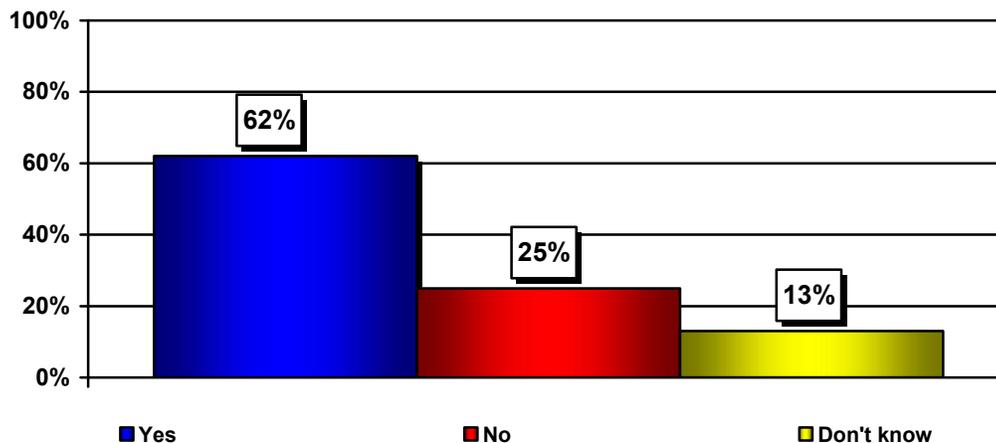
A total of 69% oppose (33%) or strongly oppose (36%) the licence extension, compared to only 22% that support (14%) or strongly support it (14%), while 9% did not know.

Opposition to the extension was higher among 18-34 (81%) and 35-50 year olds (72%). In addition, all Green voters (100%), followed by 86% of NDP and 80% of Liberals were in opposition. A lesser but still majority of PC's (61%) oppose the extension as do 63% of undecided voters.

Safety Measures

Two questions were asked to residents of the Riding about safety measures in the event of a nuclear accident or specifically remaining in their homes.

“In the event of a serious accident at the Pickering Nuclear Station, provincial emergency planners expect local residents to remain in their homes until further advised. Do you feel that this is a reasonable safety measure?”



Most or 62% feel that the expectation from emergency planners to remain in their homes in the event of an accident is a reasonable safety measure. One-quarter or 25% do not feel that this is reasonable and 13% were unsure. Older residents 65+ (70%) and PC's (69%) were most inclined to think of this as an adequate approach.

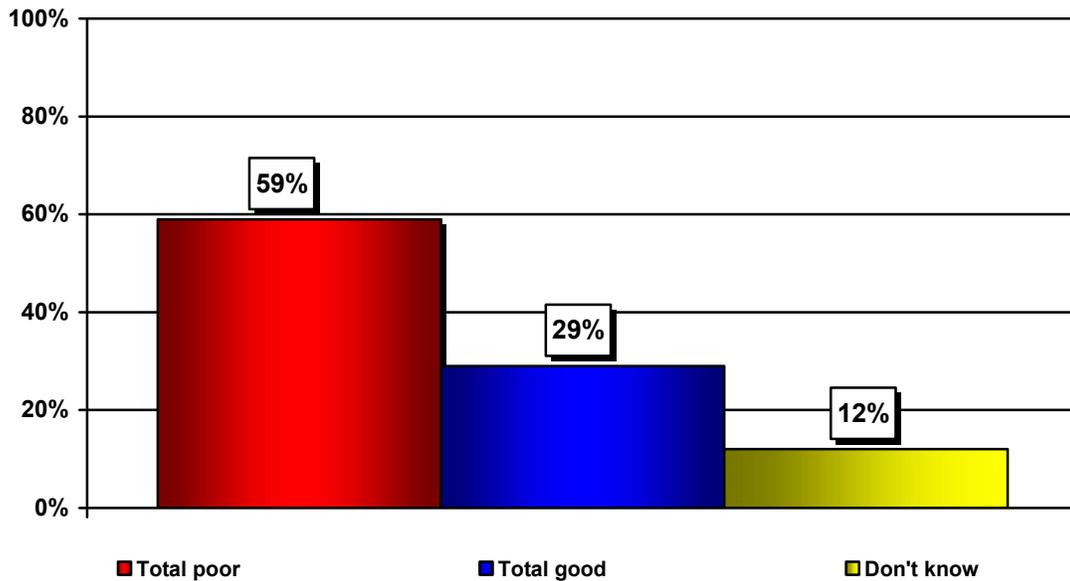
In a follow up question, respondents were asked about the **likelihood of them remaining in their homes during a major nuclear emergency**. A total of 62% said that they would be likely (26%) or very likely (36%), 28% would be unlikely (16%) or very unlikely (12%) and 10% did not know.

Communicating with Residents

Respondents were asked to rate the performance of the Province in communicating with those living around the Station about how to deal with a nuclear emergency.

“How would you rate the performance of the Province of Ontario in communicating with people living [in the radioactive fallout zone] around the Pickering Station about how to deal with a major emergency at the nuclear Station?”

“Would you say that they have done a very poor, poor, good or very good job at communicating with residents?”



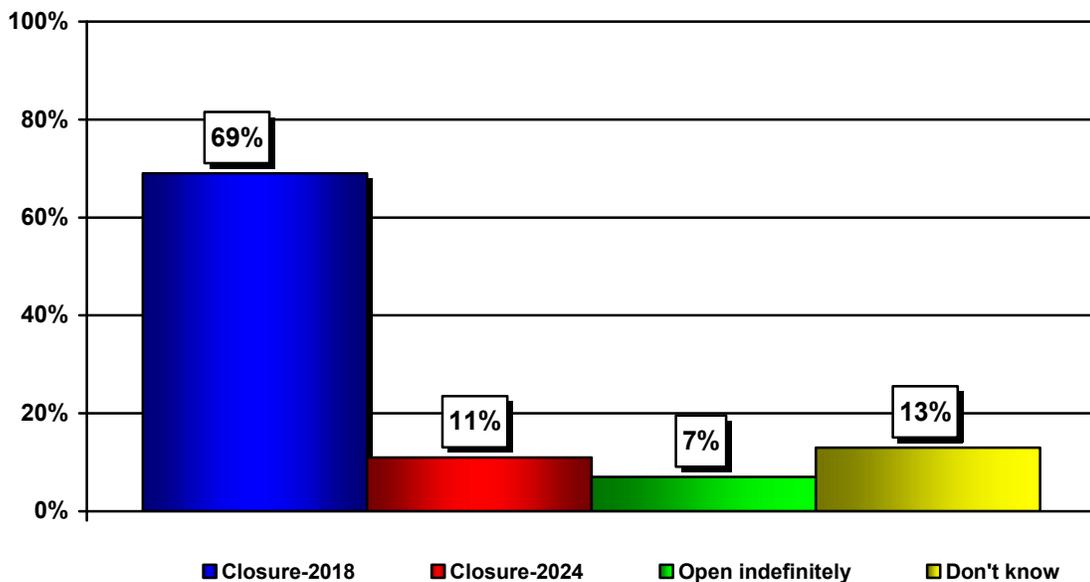
Almost six in ten or 59% feel that the Province has done a poor (32%) or very poor job (27%) at communicating, while only 29% think they have been good (24%) or very good (5%) and 12% were unsure.

Closure of Pickering – Timeline

A final preamble was read to respondents explaining the concentration of people around the reactors after which they were asked about when or if the Station should be closed.

“The Pickering Station has the highest concentration in North America of people living within 30 kilometres of nuclear reactors. Pickering has twice as many people living around it as live around the Indian Point nuclear station near New York City.”

“Given its age, cost of operating and location in a large urban area, would you support closing Pickering when its license expires in 2018, closing it in 2024 or do you feel it should remain open indefinitely?”



In the context of the population around the Station as well as its age and cost, a 69% majority feel that it should be closed in 2018. Only 11% want it to remain open until 2024, a low 7% open indefinitely and 13% did not know.

A 2018 closure date was most supported by those 18-34 (82%) and 35-50 (72%). When looking at vote intent, Green (100%) and NDP backers (83%) most want a 2018 deadline, followed by Liberals (78%), undecided's (69%) and PC's (58%).

RESULTS BY QUESTION

Q1. SCREENED TO ENSURE RESIDENT OF RIDING 18 YEARS OF AGE OR OLDER

Q2. Scarborough-Rouge River Liberal MPP Bas Balkissoon announced his resignation in March of this year and as a result a provincial by-Election will be held in the Riding. Which Party and its local candidate would you most likely vote for or be leaning towards if a By-Election were held in your Riding today?

DECIDED VOTE INTENT	
	Percent
Raymond Cho as the PC candidate	49.4
Piragal Thiru as the Liberal candidate	43.3
Neethan Shan as the NDP candidate	6.5
Priyan De Silva as the Green Party candidate	.9
Total	100.0

VOTE INTENT INCLUDING UNDECIDED'S	
	Percent
Raymond Cho as the PC candidate	34.4
Don't know / Undecided	30.4
Piragal Thiru as the Liberal candidate	30.1
Neethan Shan as the NDP candidate	4.5
Priyan De Silva as the Green Party candidate	.6
Total	100.0

Q3. The Pickering Nuclear Station is the oldest commercial nuclear station in Canada and the 4th oldest in North America. Its reactors have reached the end of their “design life” or the life that the plant’s components were designed to withstand. Ontario Power Generation wants to keep the Pickering Station operating until 2024.

Would you say that you strongly oppose, oppose, support or strongly support keeping the Pickering Nuclear Station operating until 2024?

	Percent
Strongly oppose	27.8
Oppose	26.3
Support	18.5
Strongly support	12.0
Don't know	15.5
Total	100.0

Q4. The Pickering Nuclear Station also has the highest operating costs [per kWh] of any nuclear station in North America. In your opinion, should the Pickering Nuclear Station be closed if a lower cost replacement for power is available?

	Percent
Yes	80.5
No	9.5
Don't know	10.0
Total	100.0

Q5. Last year Ontario exported more electricity than was produced by the Pickering Nuclear Station. Given this surplus and the cost of producing energy at the Station, do you feel that the Pickering Nuclear Station should continue to operate until 2024?

	Percent
Yes	21.9
No	70.3
Don't know	7.9
Total	100.0

Q6. The Pickering Nuclear Station's operating licence expires in 2018. Would you say that you strongly oppose, oppose, support or strongly support Ontario Power Generation's proposal to extend its operations until 2024?

	Percent
Strongly oppose	36.1
Oppose	32.8
Support	13.8
Strongly support	8.0
Don't know	9.4
Total	100.0

Q7. In the event of a serious accident at the Pickering Nuclear Station, provincial emergency planners expect local residents to remain in their homes until further advised. Do you feel that this is a reasonable safety measure?

	Percent
Yes	62.0
No	24.5
Don't know	13.5
Total	100.0

Q8. How likely is it that you would remain in your home during a major nuclear emergency? Would you be very unlikely, somewhat unlikely, somewhat likely or very likely?

	Percent
Very unlikely	12.0
Somewhat unlikely	15.5
Somewhat likely	26.1
Very likely	36.1
Don't know	10.3
Total	100.0

Q9. How would you rate the performance of the Province of Ontario in communicating with people living [in the radioactive fallout zone] around the Pickering Station about how to deal with a major emergency at the nuclear Station? Would you say that they have done a very poor, poor, good or very good job at communicating with residents?

	Percent
Very poor	26.8
Poor	32.1
Good	23.8
Very good	5.3
Don't know	12.1
Total	100.0

Q10. The Pickering Station has the highest concentration in North America of people living within 30 kilometres of nuclear reactors. Pickering has twice as many people living around it as live around the Indian Point nuclear station near New York City.

Given its age, cost of operating and location in a large urban area, would you support closing Pickering when its licence expires in 2018, closing it in 2024 or do you feel it should remain open indefinitely?

	Percent
By 2018 when its licence expires	68.5
By 2024	11.1
Remain open indefinitely	7.4
Don't know	13.0
Total	100.0

The final few questions are about you and your household that will be used for our analysis and reporting. Once again please be assured that your individual responses will remain completely confidential and that only overall results will be reported.

D1. In which of the following age categories do you belong?	
	Valid Percent
18-34	30.4
35-50	27.3
51-64	26.3
65 or older	16.1
Total	100.0

D2. What was your total combined household income before taxes in 2015	
	Valid Percent
Less than \$30,000	14.3
\$30,000 to \$59,999	11.9
\$60,000 to \$89,999	17.6
\$90,000 or more	26.3
Refused	30.0
Total	100.0

D3. GENDER	
	Valid Percent
Male	49.8
Female	50.3
Total	100.0