

# **BC Clean Air Research Fund**

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## **Final Report**

April 1, 2015 to April 4, 2016

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April 4, 2016

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## **PROJECT OVERVIEW**

### ***Abstract***

The research objectives of the Open Burning Practices and Policy Options Study for the Fraser Valley Regional District (FVRD) were:

1. Assess the current open burning situation in the FVRD
2. Assess the impact of open burning on air quality in the FVRD
3. Review of existing open burning policies
4. Proposed solutions to reducing open burning in the FVRD

SNC-Lavalin was retained by the FVRD for these purposes. They conducted a series of interviews, data assessments, and case study analyses to conclude with the project's final report (Appendix 1).

Open burning was found to constitute as much as 7% of the total particulate matter (PM) loading to the region, but could be higher due to some data limitations. This represents a significant portion of the PM within the region, which is a substantial health and environmental concern.

Consultant recommendations to address these concerns included identification of a consistent burn period across municipalities, restricting open burning on properties smaller than one hectare, developing an open burning best management practices guidance document for landowners, development of an open burning bylaw that would apply to the region's electoral areas, and to conduct a feasibility study for looking at viable alternatives that may be offered within the region (e.g., wood drop off programs). Acting on these recommendations is the primary intent of the next phase of this project, which has tentatively been approved for additional BC Clear funding.

## FINANCIAL OVERVIEW

### *Revenue Description*

*Table 1 Projected Total Project Revenue (cash and in-kind)*

Organization	2014/15		2015/16		Total
	Cash	In-kind	Cash	In-kind	
BC CLEAR - Fraser Basin Council			\$15,000	0	\$15,000
FVRD			\$20,503	\$12,680	\$33,183
BC Ministry of Environment			0	\$750	\$750
Metro Vancouver			0	\$750	\$750
<b>TOTAL</b>			<b>\$35,503</b>	<b>\$14,180</b>	<b>\$49,683</b>

*Table 2 Actual Revenue for Reporting Period (cash and in-kind)*

Organization	2014/15		2015/16		Total
	Cash	In-kind	Cash	In-kind	
BC CLEAR - Fraser Basin Council			\$15000 <sup>1</sup>	0	\$15,000
FVRD			\$20,476.51	\$12,680	\$33,156.51
BC Ministry of Environment			0	\$750	\$750
Metro Vancouver			0	\$750	\$750
<b>TOTAL</b>			<b>\$35,476.51</b>	<b>\$14,180</b>	<b>\$49,656.51</b>

*Note: Please attach copies of letters or agreements confirming additional funds.*

### ***Please explain revenue discrepancies (if any)***

No substantial discrepancies occurred with respect to project revenue.

<sup>1</sup> \$11,250 has been received from the FVRD from the Fraser Basin Council to-date for this project. An additional \$3750 is anticipated upon submission of the final report.

### ***Expenses Description***

*Table 3 Projected Expenses for Reporting Period (cash and in-kind)*

<b>Project Costs</b>	<b>Expenses</b>		
	All Sources		
	Cash	In-kind	Total
Salaries and fees	\$35,503	\$9,180	\$44,683
Travel and accommodation			
Equipment and supplies		\$5,000	\$5,000
Communications and outreach			
Analysis			
<b>TOTAL PROJECT COSTS</b>			<b>\$49,683</b>

*Table 4 Actual Expenses for Reporting Period (cash and in-kind)*

<b>Project Costs</b>	<b>Expenses</b>		
	All Sources		
	Cash	In-kind	Total
Salaries and fees	\$35,476.51	\$9,180*	\$44,656.51
Travel and accommodation			
Equipment and supplies		\$5,000*	\$5,000
Communications and outreach			
Analysis			
<b>TOTAL PROJECT COSTS</b>			<b>\$49,656.51</b>

\* In-kind values were estimated for the amount of staff time required and the value of the air quality monitoring data utilized for this project

### ***Please explain expense discrepancies (if any)***

No substantial discrepancies occurred with respect to project expenses.

## RESULTS OVERVIEW

### *Activity Description*

*Table 5 Summary of Activities for the Reporting Period*

Activity	Completion Date	Description of Results
Project Initiation	May 15, 2015	Project started with kick-off call with consultant and ensuring timelines, budgets, and objectives are all well understood by all.
Draft Report	Oct 15, 2015	Draft report submitted to FVRD. Staff to review and to follow-up with consultants for needed amendments and additions.
Final Report	January 29, 2016	Final report submitted, including all recommendations, analysis, and attachments.

### *Please explain activity discrepancies (if any)*

There was a minor delay in receipt of the final report from the original timeline (January 2016 versus November 2015) due to an underestimation of the time required to schedule the various interviews required for the project and of the time needed to obtain the necessary air quality data for the project.

### *Deliverable Description*

**Please include copies of all deliverables with the final report (e.g. publications, presentations, research reports, etc.). The final report will be considered incomplete without copies of the project deliverables.**

*Table 6 Summary of Key Deliverable Accomplishments for the Reporting period*

Deliverable	Description	Description of Results
Final report and files	Final report covering Goals 1-4 and supporting files.	Final report includes recommendations, analyses, references, as well as supporting documents used to complete the study, including ventilation index analysis, interview questions, and an overview of Forced Air Assistance technologies.

### *Please explain deliverables discrepancies (if any)*

No substantial discrepancies occurred with respect to project deliverables.

## **DELIVERABLES**

**Appendix 1:** *Final Report: SNC-Lavalin, Inc., 2015. Fraser Valley Regional District Open Burning Practices and Policy Options. January 29, 2015. Prepared for: Fraser Valley Regional District.*