Docket No. 161100672P1

Hinton, Alberta

Clerk of the

IN THE PROVINCIAL COURT OF ALBERTA CRIMINAL DIVISION

BETWEEN:

HER MAJESTY THE QUEEN

-and-

WEST FRASER MILLS LTD.

BEFORE THE HONOURABLE) On Thursday, the 23rd day of November, 2017.

AT HINTON, ALBERTA)

ORDER PURSUANT TO SECTION 234(1) OF THE ENVIRONMENTAL PROTECTION AND ENHANCEMENT ACT

WHEREAS West Fraser Mills Ltd. stands convicted of an offence contrary to the *Environmental Protection and Enhancement Act*, to wit:

Count 1: On or about the 20th day of September 2014, at or near Hinton, in the Province of Alberta, did release or permit the release into the environment of a substance in an amount, concentration or level or at a rate of release that causes or may cause a significant adverse effect contrary to section 109(2) of the *Environmental Protection and Enhancement Act* and did thereby commit an offence contrary to s. 227(j) of the *Environmental Protection and Enhancement Act*.

AND WHEREAS in addition to a fine of \$10,000.00 as against West Fraser Mills Ltd., imposed under the *Environmental Protection and Enhancement Act*, inclusive of victim fine surcharge, and having regard to the nature of the offence and circumstances surrounding its commission;

original filed court copy

the true copy of the:

For Clerk of the Court

IT IS HEREBY ORDERED that pursuant to the provisions of section 234(1) of the *Environmental Protection and Enhancement Act*, West Fraser Mills Ltd. shall comply with the following conditions:

- 1. That West Fraser Mills Ltd. hereby irrevocably instructs Blake, Cassels & Graydon LLP to forward \$240,000.00 that Blake, Cassels & Graydon LLP holds in trust for West Fraser Mills Ltd. to The Edmonton Space & Science Foundation operating under the firm name and style Telus World of Science Edmonton on or before December 8, 2017. The \$240,000.00 will be unconditionally forwarded to The Edmonton Space & Science Foundation operating under the firm name and style Telus World of Science Edmonton for the sole purpose of funding the The Edmonton Space & Science Foundation operating under the firm name and style Telus World of Science Edmonton educational project as detailed and described in Schedule "1" hereto. The specific address to which the funds should be forwarded is: The Edmonton Space & Science Foundation operating under the firm name and style Telus World of Science Edmonton, Attention: Annie Prud'homme-Genereux, Vice-President Science, 11211 142 St. NW, Edmonton, Alberta, T5M 4A1.
- 2. West Fraser Mills Ltd. shall only forward the funds as ordered in paragraph 1 to The Edmonton Space & Science Foundation operating under the firm name and style Telus World of Science Edmonton upon receiving confirmation from counsel for the Crown that The Edmonton Space & Science Foundation operating under the firm name and style Telus World of Science Edmonton and Her Majesty the Queen, in Right of the Province of Alberta, as Represented by the Minister of Environment and Parks, have fully executed Schedule "1". Should Schedule "1" not be fully executed by December 8, 2017, the funds referred to in paragraph 1 will be forthwith sent to the Clerk of the Court along with a copy of this Order. The Clerk of the Court will then deal with those funds as though they were payment of an

additional fine ordered by the Court with respect to Count 1, inclusive of any applicable surcharge.

- 3. All of the reports produced in accordance with the project described in paragraph 1 will be available to the public and may be posted on the website of Alberta Environment and Parks or elsewhere.
- 4. If any conditions or requirements of this Order cannot be met, counsel for the Alberta Crown Prosecution Service, Alberta Environment and Parks, The Edmonton Space & Science Foundation operating under the firm name and style Telus World of Science – Edmonton, and West Fraser Mills Ltd. can resolve any resulting issues by agreement, failing which the parties hereto shall appear before this Honourable court for further direction.
- 5. The term of this Order is for three years from the date hereof to allow sufficient time for completion of the project described herein.
- 6. This Order may be consented to in counterpart, by facsimile or otherwise.

DATED this 23 day of November, 2017, in Hinton, in the Province of Alberta.

Judge of the Frovincial Court of Alberta

ARPROVED AS TO FORM AND CONTENT BY:

Craig A. Kallal

Solicitor for the Specialized Prosecutions Branch

of the Alberta Crown Prosecution Service

Janice H. Walton

Solicitor and Agent for West Fraser Mills Ltd.

'Mall

I hereby certify this to be the true copy of the:

original

filed court copy

For Clerk of the Court

Schedule 6 197

RECIPIENT AGREEMENT

THIS AGREEMENT is to be effective commencing on the Effective Date,

BETWEEN:

HER MAJESTY THE QUEEN IN RIGHT OF ALBERTA

as Represented by the Minister of Environment and Parks

(the "Province")

AND:

THE EDMONTON SPACE & SCIENCE FOUNDATION

operating under the firm name and style of TELUS WORLD OF SCIENCE – EDMONTON (the "Recipient")

WHEREAS:

- A. The Province is the administrator of the Sentencing Fund;
- B. Pursuant to a court order issued by the Provincial Court of Alberta made on the Effective Date, West Fraser Mills Ltd. was ordered to pay the Sentencing Fund under the creative sentencing provisions of the *Environmental Protection and Enhancement Act*;
- The Recipient proposed performing and managing the Project using the Sentencing Funds; and
- D. The Province and the Recipient desire to have the Recipient use the Sentencing Fund to meet the Objectives,

THEREFORE the parties agree as follows:

- 1. Definitions and Interpretations
- 1.1. In this Agreement:
 - (a) "Contract Year" means each period of 12 months during the Term, the first of which commences on the Effective Date
 - (b) "Effective Date" means the date November 23, 2017;
 - (c) "Eligible Expenses" means an expense incurred for the Project that meets the Objectives, as further described and permitted by Schedule A;

(d) "Minister" means the Minister of Environment and Parks and any duly authorized representative of the Minister; | I hereby certify this to be the true copy of the:

original

__ filed court copy

For Clerk of the Court

Page 1 of 8

- (e) "Objectives" means the Recipient's objectives of increasing awareness regarding air quality in Alberta, with an emphasis on the vicinity of Hinton, as more fully described in Schedule B;
- (f) "Project" means the Recipient's project entitled "Air Quality Educational Initiative", as more fully described in Schedule B;
- (g) "Sentencing Fund" means the amount of \$240,000.00 and any additions to this amount in accordance with this Agreement; and
- (h) "Term" has the meaning as set out in Section 6.1
- 1.2. The following Schedules are incorporated into and form a part of this Agreement:

Schedule A - Eligible Expenses; and

Schedule B - The Project and the Objectives.

- 1.3. In interpreting this Agreement
 - (a) time is of the essence;
 - (b) a reference to any Act
 - (i) unless otherwise stated, is to the Act of the Province of Alberta; and
 - (ii) includes all regulations made pursuant to such Act, as such Act and associated regulations may be amended or replaced from time to time;
 - (c) words importing gender include all genders;
 - (d) words in the singular include the plural and vice versa;
 - (e) the word "include" and its inflected forms are not be to interpreted as limiting;
 - (f) headings are for convenience only;
 - (g) a waiver of any term or condition by one party is only effective if in writing, and any such waiver relates only to the specific breach and instance set out in the waiver;
 - (h) any discretion to be exercised by the Province under this Agreement, including where the Province "may" do something, is at the Province's absolute discretion; and
 - (i) where a time or date for doing something occurs on a Saturday or a day that is a holiday (as defined in the *Interpretation Act*), the time is deemed to be extended to the first following day that is not a Saturday or holiday.

2. The Grant

- 2.1. The Province will arrange to have the Sentencing Fund paid to the Recipient within a reasonable time after the Effective Date.
- 2.2. As consideration for the Province arranging for the payment of the Sentencing Fund to the Recipient, the Recipient will undertake and supervise the Project in accordance with the Objectives and the terms and conditions of this Agreement.
- 2.3. On receipt of the Sentencing Fund, the Recipient will promptly invest the amount into a separate, identifiable account, acceptable to the Province, to be maintained exclusively for the Project, and any interest earned on the Sentencing Fund is to be added to, and becomes a part of, the Sentencing Fund and subject to this Agreement.

3. Eligible Expenses

- 3.1. The Recipient will only use the Sentencing Fund for Eligible Expenses.
- 3.2. The Recipient will monitor the expenditure of all amounts from the Sentencing Fund and will promptly notify the Province of any of the following:
 - (a) the improper use of any portion of the Sentencing Fund; or
 - (b) a breach of any environmental law or noncompliance with any permit, licence or approval that is related to any aspect of the Project or an expense incurred using the Sentencing Fund.
- 3.3. If the Province believes an expense made using the Sentencing Fund may not be an Eligible Expense, then
 - (a) the Province will, promptly on becoming aware of the questionable expense, inform the Recipient of its concern and requesting such additional information or actions regarding the questioned expense as the Province may determine, and
 - (b) the Recipient will, within 30 days of the notice from the Province,
 - deliver to the Province any materials supporting how the questioned expense is an Eligible Expense, or
 - (ii) if the recipient cannot provide supporting materials evidencing that the questioned expense is an eligible expense, the Recipient will
 - 1. subject to Section 6.5, reimburse the Sentencing Fund by the amount of the questioned expense,
 - 2. provide evidence of the reimbursement to the Province, and
 - 3. take such additional actions as the Province may direct to correct or prevent a similar improper payment being repeated.

- 3.4. After receiving materials from the Recipient under Section 3.3(b)(i), the Province may, acting reasonably and consistent with the intent of the Project and the Objectives, make a final determination regarding whether the questioned expense was an Eligible Expense.
- 3.5. If the Province determines an expense is not an Eligible Expense under Section 3.4, the Recipient agrees to be bound by the decision of the Province and the Recipient will within 30 days of the decision of the Province comply with all of the requirements in Section 3.3(b)(ii).
- 4. Management of the Sentencing Fund and Reporting Obligations
- 4.1. When managing the Sentencing Fund and incurring Eligible Expense, the Recipient will adhere to investment and business practices that are at least consistent with those followed by a reasonably prudent person who is acting to
 - (a) avoid undue risk of loss;
 - (b) obtain a reasonable return; and
 - (c) receive reasonable value for services, supplies and assets purchased.
- 4.2. The Recipient will deliver to the Province within a reasonable time six months into each Contract Year a report setting out at least the following information:
 - (a) a brief description of all Eligible Expenses incurred;
 - (b) the amount of the Sentencing Fund remaining; and
 - (c) such other information the Province may reasonably request in advance.
- 4.3. Within 30 days of the end of each Contract Year, the Recipient will provide to the Province, in a form acceptable to the Province, a report covering the previous Contract Year that includes the following:
 - (a) all revenue accrued, including interest, from the Sentencing Fund;
 - (b) a description of all Eligible Expenses incurred detailing all services, supplies, equipment and other amounts spent using the Sentencing Fund together with a brief summary of the use to which they were put; and
 - (c) a brief description of the status of the Project and the results obtained to date.
- 4.4. Within 90 days of the end of the Term, the Recipient will provide to the Province a full report detailing
 - (a) all Eligible Expenses incurred,
 - (b) the Objectives and other results achieved, and

- (c) the overall results of the Project, including its successes and limitations.
- 4.5. In carrying out this Agreement, the Recipient will comply with all applicable:
 - (a) laws of the Province of Alberta and the federal laws of Canada applicable in the province;
 - (b) bylaws or resolutions of any municipal government; and
 - (c) permits, licences and approvals.
- 4.6. The Recipient acknowledges that the *Freedom of Information and Protection of Privacy Act* applies to all information and records provided by the Recipient to the Province and to any information and records provided to the Province in connection with the subject matter of this Agreement, and which are in the custody or under the control of the Province.
- 4.7. The Recipient will not make any public announcement or issue any press release regarding the entering into of this Agreement or receiving the Sentencing Fund, except in consultation with and the approval of the Province as to the contents of the announcement or press release.
- 4.8. The Province is not responsible for establishing, operating or supervising the Project, and the Recipient agrees to indemnify and hold harmless the Province from any and all third party claims, demands or actions for which the Recipient is legally responsible, including those arising out of negligence or wilful acts by the Recipient and its respective employees, contractors or agents in performing the Project or using Sentencing Funds.
- 5. Conflict Of Interest And Ethical Conduct
- 5.1. The Recipient will ensure there are no conflicts of interest or apparent conflicts of interest on the part of the Recipient and its employees in relation to
 - (a) making any expenditure using the Sentencing Fund, and
 - (b) the performance of any work done in relation to the Project, including the selection of any third party contractors or consultants.
- 5.2. Without limiting Section 5.1:
 - the Recipient will not influence, or seek to influence, or otherwise take part in a decision of the Province, knowing that the decision might further the Recipient's private interests;
 - (b) where any work under this Agreement or for the Project involves providing advice or making recommendations to the Province, or exercising discretionary authority that would provide a benefit to any other person, the Recipient will provide it advice or recommendation, or exercise its discretion impartially and without bias;

- (c) except for payments as set out in this Agreement, the Recipient will not accept any collateral gift, payment, commission or other direct benefit arising from this Agreement or performing the Project;
- (d) the Recipient will not incur any Eligible Expense where the payment would be made to a third party that would result in, or appear to cause, a conflict of interest;
- (e) on request by the Province, the Recipient will deliver copies of all written ethical standards, conflict of interest policies and codes of conduct established or observed by the Recipient in its business practices or in relation to its employees or subcontractors; and
- (f) the Recipient will, and will ensure its employees and subcontractors, comply with the Lobbyists Act.
- 5.3. If the Recipient becomes aware of any matter that causes or is likely to cause a conflict of interest, the Recipient will immediately provide notice to the Province and the Recipient will immediately cease the performance of any work relating to this Agreement or the Project unless the Province notifies the Recipient that such work may continue, as the Province may determine.

6. Term and Termination

- 6.1. The term of this Agreement (the "**Term**") commences the Effective Date and expires at the earliest of
 - (a) the end of the third Contract Year;
 - (b) 90 days after one party provides notice to the other party of its intention to end this Agreement; or
 - (c) the date the amount remaining in the Sentencing Fund is zero.
- 6.2. The Recipient will pay to the Province any portion of the Sentencing Fund remaining after the end of the Term within 15 days without further demand by the Province.
- 6.3. Notwithstanding any other provision of this Agreement, the Province may immediately and without notice terminate this Agreement, and the Recipient will immediately pay to the Province without further demand, all undisbursed amounts remaining in the Sentencing Fund to the Province if any of the following events occurs (or if the Province has a reasonable belief that any of the following may imminently occur):
 - (a) the Recipient ceases to be a registered charity, as determined by the Canada Revenue Agency.
 - (b) the Recipient is petitioned into bankruptcy or makes an assignment for the benefit of creditors
 - (c) the Recipient is adjudicated bankrupt or insolvent,

- the Recipient files a petition or institute any proceedings under any bankruptcy or (d) insolvency legislation,
- the Recipient has its chattels, equipment or supplies seized under process of law (e) for non-payment of debts, or
- the Recipient is the subject of an appointment of a receiver or trustee in (f) bankruptcy.
- The Recipient will immediately advise the Province if it has reason to believe any of the 6.4. events in Section 6.3 may occur, in which case the Province is deemed to have a reasonable belief that such event may imminently occur.
- If Sections 3.3(b)(i) or 3.5 apply after the expiry of the Term or the termination of this 6.5. Agreement, then instead of reimbursing the Sentencing Fund, the Recipient will pay the amount of the improper expenses to the Province without further demand.
- Any amount that the Recipient is required to pay to the Province under this Agreement is 6.6. a debt due to the Crown and may be recovered from the Recipient by an action in debt.

7. General

- Sections 3.3, 3.4, 3.5, 4.3, 4.4, 4.6, 4.7, 4.8, 5.3, 6.2, 6.6 and 7.2 survive the expiry of 7.1. the Term or the earlier termination of this Agreement
- Any notices or communication to be given by one party to the other under this 7.2. Agreement are to be given in writing and may be delivered to the other party at the following addresses, email addresses or facsimile numbers, or to such other person and contact information as a party may provide by notice:

To the Province:

To the Recipient:

Environment and Parks 15th Floor, Oxbridge Place 9820 106 Street Edmonton, AB T5K 2J6

11211 142 St. NW Edmonton, AB T5M 4A1

Attn:

Hanneke Brooymans,

Justice Liaison

Tele: 780-644-8355

Email: Hanneke.brooymans@gov.ab.ca

Annie Prud'homme-Genereux Attn:

Vice-President Science

780-0452-9100 x. 2242 Tele:

Email: apg@twose.ca

7.3. This Agreement

- constitutes the entire Agreement between the parties, (a)
- enures to the benefit of and is binding on the parties and their respective (b) representatives, successors and permitted assigns,

- (c) is not to be interpreted or construed as creating a relationship of principal and agent, employer and employee, partnership or joint venture between the parties,
- (d) is to be construed and interpreted in accordance with the laws applicable in the Province of Alberta and the federal laws of Canada applicable therein,
- (e) may only be amended in writing, and
- (f) may not be assigned by the Recipient without the prior written consent of the Province.

IN WITNESS WHEREOF the Parties have executed this Agreement effective the date first written above

HER MAJESTY THE QUEEN, in -Right of the Province of Alberta, as Represented by the Minister of Environment and Parks

Hanneke Brooymans, Justice Liaison

THE EDMONTON SPACE & SCIENCE FOUNDATION operating under the firm name and style of TELUS WORLD OF SCIENCE – EDMONTON

	4	1000 A	100	
Per:		1	File	
		Additional Control	And the second of the Park.	

Alan Nursall, President and CEO

Schedule A

Eligible Expenses

When utilizing the Sentencing Fund, the Recipient agrees an Eligible Expense is an expense actually incurred by the Recipient for the Project and in accordance with the Objectives.

The Recipient acknowledges and agrees that expenditures that do not meet the definition of an Eligible Expense include:

- expenses that do not meet the Objectives;
- expenses that have no connection to the Province;
- amounts incurred contrary to the conflict of interest and ethical conduct provisions in Section 5,
- expenses incurred conducting an activity
 - o in violation of any environmental law, or
 - that is not compliant with any required permit, licence or approval;
- amounts to pay any fine, penalty, restitution, clean up, or to correct a violation of any environmental law or noncompliance with any permit, licence or approval by the Recipient, its employees or any person acting on behalf of the Recipient;
- fees or honoraria paid to members of the Recipient unless in accordance with this Agreement and directly related to the Project, and
- out of province travel.

This list is not exhaustive and the Recipient is responsible to ensure all uses of the Sentencing Fund is only used for Eligible Expenses. If the Recipient is unsure whether a proposed expense is an Eligible Expense, it may contact the Province to discuss prior to incurring such expense.

Schedule B

The Project and the Objectives

The Project:

Project Components

This proposal is made of three components:

- 1. An exhibit on air quality at TELUS World of Science Edmonton
- 2. An exhibit on air quality in Hinton
- 3. A professional development program on air quality for Alberta science teachers

These components are described below

1. Exhibit on Air Quality at TELUS World of Science - Edmonton

Inside our existing Environment Gallery, TWOSE will build an air quality exhibit. The exhibit will feature a map of Alberta with a digital display allowing users to interact with the air quality data streaming-in live from communities around the Province. The data will be obtained from a reliable government site. In front of this giant map will be an interactive console where people can control the output. They will be able to choose a specific date and see the data change in a time-lapse fashion, or using the data they can answer questions prompted by the exhibit, or they can select from a series of pre-recorded time-lapses showing interesting events such as the smoke rolling into the Province from forest fires in BC, or the change in air quality during a 24hrs period.

2. Exhibit on Air Quality in Hinton

This exhibit will contain interpretative panels that educate visitors about air quality. It will provide information about the importance of air quality, what it is, and how it impacts health and the environment. The exhibit will have interactive capabilities so that visitors can select pre-recorded time lapsed video of the data to see how air quality changed as a result of specific events. It may contain sensory experiences allowing visitors to connect the information about air quality to their own personal experiences.

3. Professional Development Program on Air Quality for Science Teachers

Target Audience

Teachers of science in middle school and junior high schools are often assigned to the science curriculum without formal science training. They are therefore very receptive to professional development opportunities that can help them learn and then teach science in an engaging and hands-on manner. This is particularly true of teachers who live and

work in rural environments and have fewer opportunities to learn how to teach the science curriculum confidently.

We have chosen to target teachers for this proposal for three reasons.

- 1. First, teachers will serve as amplifiers, by disseminating information to their 30+ students.
- 2. Second, by training the teachers, we will have a longer impact because teachers will reuse the lesson plans and apply them to future classes, thereby reaching many more than the initial 30+ students reported throughout this proposal.
- 3. Finally, students are known to be a vehicle for changing the behaviour of people in their household; they bring their learning home and teach their parents what they learned. Thus, targeting teachers will result in influencing the teachers, the students, and their families. Targeting teachers is therefore an efficient way to reach Albertans.

Capitalizing on TWOSE's Existing Resources and Strengths

TWOSE's Science in Motion (SIM) program travels all over Alberta to deliver engaging science programming to elementary, middle school, junior high, and high school students. The staff, trained in education and in science, is recognized for its expertise throughout the province. The travels puts the staff in a unique position to bring professional development opportunities to science teachers throughout Alberta, particularly those located in rural areas. When they visit a remote community in the context of a Science in Motion program, they could offer a PD opportunity to all interested science teachers in the region.

The Classroom Unit on Air Quality

Teachers are busy and appreciate ready-made resources that they can use in their classroom. TWOSE will develop a high quality, inquiry-based, modular, 10 hour classroom unit on air quality. The unit will be adapted to meet the objectives of specific Alberta science curriculum that align with air quality issues, namely:

- Grade 4 Waste in our World
- Grade 7 Planet Earth
- Grade 9 Environmental Chemistry

The unit will include the lesson plans, teaching notes, activities instructions, student hand-outs, and equipment and supplies necessary to teach the unit. The unit accomplish the following objectives:

- Introduce students to different contributors to air quality (e.g., carbon monoxide, ground level ozone, hydrogen sulfide, lead, nitrogen dioxide, particulate matter, and sulfur dioxide)
- Explore how these gases impact health and the environment.
- Provide inquiry-driven activity that utilizes an air quality sensor to record and interpret how local factors affect changes in the surrounding gases (e.g. walking in and out of a building, walking near the tailpipe of a running truck, etc.).

Identify reliable resources of air quality data (from government and industrial
associations, such as the Environment Canada's Air Quality Health Index),
discuss why the class's air quality sensor may show different results, and learn to
analyze and interpret the reliable data.

As we develop this program, we will review existing resources and reach out to partners where appropriate (e.g. the lesson plans developed by AQHI, the self-built air sensor device from King's University Centre for Visualizations in Science). TWOSE's particular expertise is in creating engaging, hands-on activities and that will be the goal for these lesson plans.

Since teachers are often restricted in implementing a lesson plan by their available resources, the lesson plans and all of the resources necessary to teach the unit, including an air quality sensor, will be made available in a kit free of charge.

PD Workshop to Train Teachers in Air Quality Unit

Creating a teaching unit with all of its accompanying resources is a step forward, but this is no guarantee that teachers will take it up. Teachers need to feel comfortable and knowledgeable about a new science topic and they need to gain confidence in their abilities to teach the topic and facilitate the classroom activities. That's the magic step to go from a lesson plan to implementation in the classroom, and unfortunately that's the step that is missed when many organizations develop free lesson plans.

In order to significantly increase the adoption of the unit into the classroom, TWOSE will train teachers in how to teach this high quality, modular, 10 hour lesson plan about air quality that links to the Alberta curriculum. Teachers will leave the workshop with ready-to-use, free materials that align with curriculum and that they are confident and comfortable teaching, making it likely to translate into high rates of adoption in the classroom.

We anticipate creating a 3 hour PD workshop for teachers on how to use the air quality unit. Ahead of a trip to a remote community, SIM will contact science teachers at all schools in the region and invite them to attend a free PD workshop that trains them in using the air quality lesson plans and resources. When SIM visits the community to offer SIM programming, they will also offer a PD workshop and distribute the classroom materials. Special attention will be paid to the community of Hinton where SIM will return to offer this PD workshop at least once per academic year.

We will also offer these workshops at Teacher Conferences throughout the province.

Project Schedule

The anticipated schedule for the Project is as follows:

DATE	ACTION ITEM	TARGETS, IMPACT & REACH	DELIVERABLES/ MEASURABLE OUTCOMES
YEAR 1 (Jan	– Dec 2018)		
Toocher PD	on Air Quality		
Jan-June 2018	Development of the 10 hrs classroom unit on air quality (environmental scan of existing resources, collaboration with partners, development of hands-on activities on air quality, development of all materials, comparison of air quality sensor and selection for this project. Piloting and improvement based on feedback)		All materials for the 10 hrs unit (lesson plans, activity description, teaching notes, student hand-outs, selection and purchase or building of sensors)
Lulu Aug	Development of PD		All materials for the delivery
July-Aug 2018	workshop		of the 3hrs PD workshop
Sept – Dec 2018	Delivery of PD workshops to 4 communities (selected based on SIM's travel schedule) (Note: Hinton will be visited once between Sept 2018 and June 2019)	4 communities * 10 teachers/ community * 30 students/teacher = 1,200 students	Record Number of communities visited Number of teachers who attended PD workshop Number of students that each teacher teaches Evaluate quality of PD workshop and improve
	Year 1 Impact	 40 teachers 1,200 students (and 	d their families)
THE RESERVE OF THE PARTY OF THE	n – Dec 2019)	医生物 经分类 医水平性 医神经病	
Hinton Exhi			Design drawings for the
Jan – June 2019	Design the Hinton Exhibit and seek venue partners in Hinton		Design drawings for the exhibit
July – Dec 2019	Fabricate, Prototype, and Install Hinton Exhibit	Depending on location, could have exposure to all citizens of the town	Exhibit installed in Hinton
Teacher PD	on Air Quality		N
Jan - June 2019	Delivery of PD Workshop to 4 communities (selected based on SIM's travel schedule that year) and 2 teacher conferences.	PD 4 communities * 10 teachers/community * 30 students/teacher = 1,200 students	 Number of communities where workshop was offered (and list) Number of teacher conferences attended

		Teacher Conference 2 conference * 25 teachers/conference * 30 students/teacher = 1,500 students Total of 2,700 students impacted	and number of teachers at each session Number of teachers reached Number of students for each teacher Feedback on Air Quality Unit and improvements
Sept – Dec 2019	Delivery of PD Workshop to 4 communities (selected based on SIM's travel schedule that year). (Note: Hinton will be visited once between Sept 2019 and June 2020)	4 communities * 10 teachers/ community * 30 students/teacher = 1,200 students	Record Number of communities visited Number of teachers who attended PD workshop Number of students that each teacher teaches Evaluate quality of PD workshop and improve
	Year 2 Impact	 130 teachers 3,900 students (and Exhibit may reach n 	I their families) nost Hinton residents
YEAR 3 (Jan	- Dec 2020)		
TWOSE Exh	bit	And the Manager of the A	Design drawings for the
YEAR 3 (Jan TWOSE Exhi Jan – June 2019	Design the TWOSE Exhibit and seek air quality	Marie Ma	Design drawings for the exhibit
TWOSE Exhi Jan – June	bit Design the TWOSE Exhibit	Potential impact: 430,000 annual visitors to TWOSE	
TWOSE Exhi Jan – June 2019 July – Dec 2019	Design the TWOSE Exhibit and seek air quality expertise partner Fabricate, Prototype, and Install Exhibit	annual visitors to TWOSE	Exhibit installed in Hinton
TWOSE Exhi Jan – June 2019 July – Dec 2019	Design the TWOSE Exhibit and seek air quality expertise partner Fabricate, Prototype, and Install Exhibit	Potential impact: 430,000 annual visitors to TWOSE PD 3 communities * 10 teachers/community * 30 students/teacher = 900 students Teacher Conference 1 conference * 25 teachers/conference * 30 students/teacher = 750 students	exhibit Exhibit installed in
TWOSE Exh Jan – June 2019 July – Dec 2019 Teacher PD Jan – June	Design the TWOSE Exhibit and seek air quality expertise partner Fabricate, Prototype, and Install Exhibit on Air Quality Delivery of PD Workshop to 3 communities (selected based on SIM's travel schedule that year) and 1	PD 3 communities * 10 teachers/community * 30 students/teacher = 900 students Teacher Conference 1 conference * 25 teachers/conference * 30 students/teacher = 750	Exhibit installed in Hinton Number of communities where workshop was offered (and list) Number of teacher conferences attended and number of teachers at each session Number of teachers reached Number of students for

Dec 2020	Evaluation of program	Contact all recipient of PD workshop for survey to monitor implementation	 Number of teachers reached Number of students for each teacher Feedback on Air Quality Unit and improvements Survey results Number of students reached Measurement of learning outcomes Produce report of impact
Year 3 Impact		 75 teachers 2,250 students (and their families) >430,000 TWOSE visitors 	
TOTAL IMPACT		 245 teachers >7,350 students (and their famil >430,000 visito 	ies)

SV

The Objectives:

The objectives are:

- Equip Alberta science teachers, particularly those in remote communities, with the skills and resources needed to teach a unit on air quality that is linked to the Alberta Science Curriculum.
- Bring awareness to 440,000 Albertans about air quality issues, notably:

o The gases and factors that impact air quality

o The way in which air quality affects health and the environment

 Methods used to gather data on air quality and hands-on experience of the factors that affect it

 Reliable sources of information on air quality available to citizens and how to analyze and interpret the data.

• Engage the public so that they feel a personal stake in air quality

 Leverage existing resources and efforts in the community by partnering with air quality monitoring groups