



SPF Application Form
Section A - Cover Page

Fill out this Cover Page and save it to your files for future reference before uploading it on the SPF website.

Project Title The Macdonald Showcase Permaculture Garden Project

In one to three sentence(s), explain what your project is about:

This application to the Sustainability Projects Fund outlines a proposal for a showcase permaculture production area, which will be beside the future Community Engagement Center on the Macdonald campus. This garden will educate the estimated annual 20,000 visitors about sustainable agricultural production methods.

Indicate the McGill campus(es) where your project will be implemented:

Macdonald **Downtown** **Gault Reserve** **Bellairs Research Institute** **Other (Specify):** _____

Approximate Budget Requested to the SPF (\$): 18,320

Approximate Total Project Budget (incl. other sources of funding if applicable) (\$): 18,320

List 1 to 3 main item(s)/expense(s) for your project that SPF money will be used for (incl. approx. % of total budget): Plants for the garden (22%), Garden Coordinator Salary (62%)

Indicate which of the following team members...

... will be in charge of monitoring the project's budget (maximum 1 person): Christopher Wrobel

... will be the Project Lead (Project Lead will be the contact person for the SPF Staff): Audrey Wagner

The Project Lead stays for the entire duration of the project: **Y** **N**

If no, explain in a few sentences your leadership transition plan for one or both of the Project Lead for sustainable continuation of the project:

PROJECT TEAM MEMBERS (read details about [SPF Evaluation Criteria #5](#) for more information)

The SPF encourages your team to be inclusive of individuals who voluntarily self-identify as members of marginalized communities (e.g. women, Indigenous people, people of colour, LGBTTQI, student parents, members of ethnic minorities, immigrants, people with disabilities).

1. Project Team Member

First Name & Last Name Audrey Wagner **Affiliation (select one)** Undergraduate (UG)
Phone (daytime; only put #) +1 (514) 716-8207 **Specify if Other** _____
Email audrey.wagner@mail.mcgill.ca **Faculty/Unit/Organization** Agriculture, Environmental Science

2. Additional Project Team Member

First Name & Last Name Christopher Wrobel **Affiliation (select one)** Other (specify)
Phone (daytime; only put #s) +1 (514) 960-8495 **Specify if Other** Alumnus
Email christopher.wrobel@mail.mcgill.ca **Faculty/Unit/Organization** _____

3. Additional Project Team Member

First Name & Last Name Dylan Davies **Affiliation (select one)** Undergraduate (UG)
Phone (daytime; only put #s) _____ **Specify if Other** _____
Email dylan.davies@mail.mcgill.ca **Faculty/Unit/Organization** Agriculture, Environmental Science

4. Additional Project Team Member

First Name & Last Name Ella Martin **Affiliation (select one)** Undergraduate (UG)
Phone (daytime; only put #s) _____ **Specify if Other** _____
Email ella.martin@mail.mcgill.ca **Faculty/Unit/Organization** Agriculture, Environmental Science

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PROJECT TEAM MEMBERS (CONT'D)

5. Additional Project Team Member

First Name & Last Name Heather Gordon **Affiliation** (*select one*) Undergraduate (UG)
Phone (*daytime; only put #s*) _____ **Specify if Other** _____
Email heather.gordon2@mail.mcgill.ca **Faculty/Unit/Organization** Agriculture, Environmental Science

6. Additional Project Team Member

First Name & Last Name _____ **Affiliation** (*select one*) _____
Phone (*daytime; only put #s*) _____ **Specify if Other** _____
Email _____ **Faculty/Unit/Organization** _____

7. Additional Project Team Member

First Name & Last Name _____ **Affiliation** (*select one*) _____
Phone (*daytime; only put #s*) _____ **Specify if Other** _____
Email _____ **Faculty/Unit/Organization** _____

8. Additional Project Team Member

First Name & Last Name _____ **Affiliation** (*select one*) _____
Phone (*daytime; only put #s*) _____ **Specify if Other** _____
Email _____ **Faculty/Unit/Organization** _____

To list more members, fill a 2nd Cover Page form and save it separately. You may then e-mail it to [SPF Staff](#) directly, also specifying your project title.

OPTIONAL:

If applicable, total number of team members voluntarily self-identifying as members of marginalized communities: _____

Represented marginalized communities: _____

Specify if Other(s) and/or add more: _____

Relevant link(s): (*to website(s) or social media*)

How did you learn about the SPF? (*select one*) MOOS/SPF website **Specify if Other** _____

Have you already been part of an SPF project in the past? Y N If yes, specify project(s): _____

Please check the boxes to confirm that you have read and agree to the following information:

All of our project team members understand that the SPF is publicly funded and therefore, by default SPF projects are not confidential. We agree that if needed, the SPF Steward, the SPF Administrator and/or the SPF Working Group members read and/or share the application and/or communicate part of its content in the case where they would need to (e.g. to receive professional advice, connect our team to stakeholders, etc.).

If our project is approved, all our project team members agree that their name, email, and phone number as well as their participation to the project be disclosed (e.g. for contact information or through our application and progress/final reports published on the SPF website).

If you do not check this box, the SPF staff will communicate with you to know whose information to remove before sharing your project online.

All our project team members have read and understood the [SPF Terms & Conditions](#), and we confirm that we agree to respect them.

If any aspect of the [SPF Terms & Conditions](#) are unclear to you, contact the [SPF Staff](#) before you submit your application so that you can check this box in confidence. Also note that, if your project is approved, the Project Lead and the person monitoring the project's budget will have to confirm in writing (through email or signing the document) that they agree to the [SPF Terms & Conditions](#) before officially starting the project.



SPF Application Form

Section B - Project Overview

Answer the following questions and save this form to your files for future reference before uploading it on the SPF website with Section A - Cover Page.

Project Title The Macdonald Showcase Permaculture Garden Project

Project Lead Audrey Constance Wagner **Phone** +1 (514) 716-8207 **Email** audrey.wagner@mail.mcgill.ca

First & Last Name

Before you fill out this Project Overview, make sure you have consulted all related application documents online, including the [SPF Evaluation Criteria](#), the [SPF Glossary](#), the [SPF Project Flow Diagram](#), and the [SPF Sustainability Brief](#). Read all questions first before starting answering them. Answer **exactly** what is being asked: go straight to the point and stay clear and succinct. If need be, you will have a chance to include additional information in appendices at a later stage of the application process. The characters' limit (including spaces) is indicated for each question so that you can draft your answers in Word first if you want to (you will have to remove all formatting in Word before pasting here). Note that any skipped line will make you lose the line's characters (approx. 140 characters). Once you successfully pass this first stage of the application process, the SPF Staff will ask you to fill a Project Plan, in which you will specify your expected impacts, S.M.A.R.T. objectives and main activities, outputs, success indicators, stakeholders, main risks and mitigation measures, preliminary timeline, and costs. Although it is OK for you not to have all these details ready at this stage, having thought about them in advance will help you succeed in responding to the following questions.

Project Vision Permaculture teaching and research will be widely instilled in the agricultural curriculum.

A vision depicts the ideal future that someone is hoping for. Thus, a vision is a dreamed aspiration that someone intends to lead or contribute to, and it does not necessarily need to currently seem realistic. As such, tell us how you see McGill campuses in an ideal world once your project is completed successfully. The vision does not need to be completed within the timeline of the SPF funding.

Project Goal There will be greater awareness of permaculture at the Macdonald campus. This will lead to adopting more permaculture techniques in landscape maintenance at the Macdonald Campus, as well as more teaching of it.

A goal is the overarching desired tangible realization (and thus change) to be achieved within the project's lifespan. The goal contributes to the project's vision in a palpable and realistic manner. The project's goal may last longer than the SPF funding lifespan. In line with the SPF mandate, when achieved, your project's goal should result in a culture shift (e.g. change in ideas, habits, behavior).

1. What is the specific sustainability-related issue/challenge that you see on McGill campus(es) that you want to address? (530 char. max. ~80 words)

Permaculture is a method that combines ecological knowledge to create agriculturally productive ecosystems that sustain and regenerate natural resources. There is a growing awareness about this subject by students but a lack of teaching and associated research. With the exception of the food forest located a relatively far distance from the Arboretum, there are no permaculture model production areas to study and do applied research on.

2. What is your project idea and how will it help address the above issue/challenge? (2000 char. max. ~300 words)

This application outlines a proposal for a showcase permaculture production area which will be located in the Farm Center on the Macdonald Campus. It is modeled after a University of Massachusetts permaculture student initiative (Appendix 1). The showcase production area will be located across from the future Community Engagement Center. It is projected that over 20,000 visitors will come to the Center every summer and the permaculture garden will become part of the tour together with the future bee information center. Over a hundred species of herbs, flowers and vegetables will be put in. Most will be perennial native species and they will be placed in several designated areas to highlight some of the different possible designs that permaculture entails. These include a medicinal plant area which will be in the form of a herb spiral, two rain gardens, several flower beds that will attract pollinators, areas for several fruit trees and berry bushes, and a perennial vegetable bed.

The production area will utilize compost sourced from the Horticulture Center and bark chip mulch provided free of charge from a local tree contractor. The ultimate goal of the showcase garden will be to demonstrate a food production system that is water efficient and requires minimal fertilizer and pest prevention inputs. A website will be created that highlights all the beneficial features that the garden offers along with other educational elements about permaculture. Classes and tours will be conducted in the fall to enable students to visit the garden to learn about its specific features regarding sustainable agriculture. A video will be produced and posted on several websites detailing the manner in which the garden was created and all its unique characteristics. And an Awareness Week on Permaculture will also be organized by the McGill Permaculture Club in the fall semester to attract new project volunteers.

3. What impacts do you want your project to have on McGill structures, processes and/or systems? Also specify how this should positively transform peoples' behaviors/perspectives/habits on McGill campus(es). (935 char. max. ~135 words)

We would like to generate awareness about the possibilities and potential of permaculture. Through the promotion of awareness we hope that more permaculture practices will be employed on both campuses e.g. more use of native species, water efficient techniques, etc.... And we hope to bring the Macdonald campus closer together. Through various events, workshops, tours, and volunteering opportunities the project will increase networking between students and generate more involvement in the Macdonald community. People will also become more sustainable in their lifestyles (e.g. more recycling and composting of their kitchen waste).

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4. What institutional and financial arrangements will make these impacts continue after SPF funding? (530 char.max.~80 words)

All proceeds from the sale of produce from the permaculture garden will be reinvested into the maintenance of the garden. Workshops held at the garden will also generate money for the project. The McGill Permaculture Club will also provide volunteers for the project. And possibly some proceeds from the tours of the Community Engagement Center and the Showcase Garden will be given to us for project upkeep.

- ABOUT SUSTAINABILITY -

5. How do you intend to address social, environmental, and/or economic dimensions of sustainability in your project's objectives? (1350 char. max. ~200 words)

The design of the showcase garden will accentuate all these dimensions of sustainability. First of all, a combination of drought tolerant and native species, efficient irrigation (in the establishment year), and proper soil use (incorporation of compost and mulch) will minimize water input and enable a low maintenance, sustainable landscape. A permeable walkway will reduce storm water runoff and maintain natural drainage patterns.

Flowering plants will be selected that have successive blooms within a particular time frame and provide scent and color throughout the growing season. These plantings will attract pollinators such as birds, butterflies and other wildlife. They will also attract predatory insects on species that are pests on fruits and vegetables. Nutrient accumulating plants will be planted which can be chopped and dropped frequently throughout the growing season to feed the soil and thereby save on fertilizer costs. Certain herbs will be planted that act as pest deterrents.

All garden inputs will be recorded to maintain accounting transparency, and workshops will be conducted throughout the growing season to promote learning opportunities.

6. In addition to having sustainability-related objectives (Q5), how will you ensure that your project is also executed/ managed sustainably (e.g. material local sourcing; accessibility - see the [SPF Sustainability Brief](#))? (530 char.max. ~80 words)

We will source as much of the materials required for the garden locally as possible. Free compost from the Horticulture Center and free bark chip mulch supplied by a local tree cutting contractor will reduce the cost of the project. And signage will be employed to make the garden self-explanatory. We will use recycled materials to make the project signs.

Beside appear the five categories in which the McGill students, faculty, and staff think the University can make a positive difference within society. The [McGill Sustainability Strategy. Vision 2020](#), describes a specific vision and goals for each of these categories, as they were defined by the McGill direct stakeholders through a comprehensive consultation process.

7a. In the figure, check all the categories under which your project falls (you can select only one if no others apply to your project).

7b. Among the categories that you checked, select the one that you think is most relevant to your project:

Dominant Category: Connectivity

7c. How does your project concretely contribute to advancing the vision and goals described under the [Vision 2020](#) category that is most relevant to your project? (800 char. max. ~115 words)

The Macdonald Showcase Permaculture Garden Project will put to use an underused outdoor space at the Farm Center roughly about the size of a fifth of an acre. It is located opposite the projected Community Engagement Center where, once completed, it is projected that over 20,000 people will visit every summer to learn about sustainable agriculture. Students will design the garden by integrating their classroom knowledge with a course on permaculture toward developing a model sustainable production system. This area will also facilitate possibilities for applied student research and hopefully lead to more integration of permaculture into the core curriculum. This garden area will also help foster many new relationships with the community to which McGill belongs and vice versa.

Vision 2020 Categories

- Finance & Investment
- Diversity & Equity
- Transparency
- Inclusiveness
- Accessibility
- Experimentation
- Accountability
- Leadership
- Human Resources

- Materials
- Energy
- Food
- Water
- Transportation
- Land
- Living Lab



- Exploring Sustainability
- Collaborative
- Community-Engaged
- Social-Ecological Footprint
- Interdisciplinary
- Applied Student Research

- Citizenship
- Leadership
- Lifelong Learning
- Experiential Learning
- Sustainability Knowledge & Skills

- Wellness & Health
- Community Engagement
- Sense of Belonging
- Accessibility
- Community Spaces
- Knowledge Sharing

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Section B - Project Overview

8. How does your project relate to any current/past initiative(s) on McGill campus(es) (e.g. other SPF projects)? If applicable, also indicate: 1) how your project complements the initiative(s), and 2) how you will partner with them in implementing your project (e.g. working together on some activities, sharing material/resources/costs). (2000 char. max. ~300 words)

The Macdonald Showcase Permaculture Garden Project shares many similar goals with SPF0043, the Thomson House Garden Project that was installed in 2011. Both these projects aim to integrate a permaculture system within a food production unit, make an unused area more sustainable, interest the passerby and visitors in urban agriculture, attract pollinators and add biodiversity to the surroundings. However, this project will be on a larger scale than the Thomson House Garden project and will have a greater impact. This project also shares similarities to SPF0121 and SPF0142, which were effective in introducing permaculture concepts at Macdonald campus. The latter of these projects consisted of the design and implementation of a permaculture food forest, which is currently managed by the Macdonald Student Ecological Garden Project (MSEG). Although this permaculture site is a prime example of permaculture principles, it is too far removed from the campus to work as an effective permaculture awareness promoter. Thus, this project will build on these past permaculture projects and will be more high-profile and be more effective in permaculture education. The Macdonald Showcase Permaculture Garden Project plans to partner with MSEG to share knowledge, tools, mulch, compost, and other resources, since both projects are currently managing permaculture sites. Joint tours and workshops may also be given at both sites. Furthermore, this project may sell some of its produce at markets along with MSEG. We also plan to collaborate with the Farm to School initiative. Farm to School will be able to educate and work with autistic youth in the showcase permaculture garden by teaching tasks such as weeding, sowing, pest management, pruning, and harvesting.

9. List the other stakeholders on/off of McGill campus(es) that you will partner with for your project. (530 char. max. ~80 words)

Note: Under Stage 2 of the SPF application process, in the Project Plan, you will be asked to indicate your final key partners and specify how they will participate in your project. You will also be able to submit any documents that you want in appendices to demonstrate your communications and agreements with these key partners (e.g. support letters, emails).

The following are a list of all stakeholders that the project will partner with: The McGill Permaculture Club; Paul Meldrum, Director of the Farm Center; David Wees who teaches in the Ecological Agriculture specialization; MSEG and the Farm to School program; Graham Calder from P3 Permaculture that will teach the permaculture certificate to the students designing the showcase garden; the student designers of the showcase garden; Chris Wrobel, MSc., project member and alumnus; and the Macdonald campus community.

10. What key recommendations and/or lessons learned from current or past initiative(s) do you plan to build your project upon? (800 char. max. ~115 words)

One lesson can be learned from the Thomson House Garden Project (SPF #43) that applies to this project. Where possible, it is always preferable to go to a nursery and personally choose good quality plants for the project rather than having them delivered. The project will also exchange information with the MSEG on plant culture and sourcing good quality plant material. And it will adopt elements of MSEG's model of ensuring garden continuity after the initial garden proponents have graduated. There are also a number of lessons to be learned from projects SPF0121 and SPF0142, as outlined in Appendix 2. These include doing a soil test at different parts of the designated land area, and continually monitoring the plants in the garden for signs of both abiotic and biotic stressors.

- ABOUT SPF FUNDING -

11. Why do you think that your project should be funded by the SPF rather than by, or in addition to, another source of funding - i.e. what aspects of your project make it specifically relevant to the SPF mandate? (530 char. max. ~80 words)

This project requires an initial sum of seed money to establish itself. This does fit the requirement of the Sustainability Projects Fund. It is a permaculture project that is mostly composed of perennial species which should require relatively little maintenance in the years thereafter. Maintenance funding will be sourced by the McGill Permaculture Club in the years to come.

12. What other sources of funding have you approached for your project? If applicable, also provide the relevant details on these sources (e.g. responses given, amounts already committed, what these amounts will pay). (530 char. max. ~80 words)

No other sources of funding have yet been approached for this project. However, in the third year the project will start producing a harvest the proceeds of which will be reinvested into the project. And it is quite possible that since the project will become part of the tour for the Community Engagement Center, some proceeds from ticket sales will be passed onto the showcase garden project for maintenance.

Thank you! After you save it to your files, you can now upload this form and Section A - Cover Page on the SPF website to complete this first stage of the application process. The SPF staff will contact your team within two weeks to provide feedback and accompany you towards next stage - Project Plan. Congratulations for applying to the SPF!



SPF Application Form

Section C - Project Plan

Answer the following questions and save this form to your files for future reference before uploading it on the SPF website.

Project Title The Macdonald Showcase Permaculture Garden Project

Project Lead Audrey Constance Wagner **Phone** +1 (514) 716-8207 **Email** audrey.wagner@mail.mcgill.ca
First & Last Name (daytime)

Before you fill out this Project Plan, make sure you have consulted all related application documents online, including the [SPF Evaluation Criteria](#) and the [Project Plan Flowchart](#). Also make sure to consult the [SPF Glossary](#), as it clearly defines each term underlined in this form, as well as the [Sample Project Plan](#), which gives some concrete examples for each term. Last, also do not forget to refer back to your 'Section B - Project Overview' to make sure that all the details you specify here align with it. For more support, consult the SPF website and the SPF staff.

Project Vision Permaculture teaching and research will be widely instilled in the agricultural curriculum.
 As indicated in your Section B - Project Overview.

Project Goal There will be greater awareness of permaculture at the Macdonald campus. This will lead to adopting more permaculture techniques in landscape maintenance on the Macdonald Campus, as well as more teaching of it.
 As indicated in your Section B - Project Overview.

1. List 1 to 3 main impacts you expect/wish to have with your project - these must relate to the above Vision and Goal:
 As per question #3 of your Project Overview. If you think of more than 3 impacts, only indicate the ones you think are the most relevant to sustainability at McGill.

Expected/Desired Impact (200 char. max. ~30 words)	
A	Make students and staff more aware of the possibilities and potential of permaculture.
B	Bring more people at the Mac community together; more networking and more involvement in MAC community life.
C	More permaculture practiced across both campuses (ex. use of more native species, use of more water efficient techniques.)

2. List 4 to 7 of your objectives to reach the above impacts with your project. Make your objectives as S.M.A.R.T. as possible.
For each objective, indicate one key Success Indicator. (see [SPF Glossary](#), [Sample Project Plan](#), and [Sample Indicators](#))

Of your 4-7 objectives, you should have a minimum of one "monitoring" objective, one "outreach" objective, and two "other" objectives. A monitoring objective ensures or verifies the progress and effectiveness of your project, thus allowing you to learn from it. An outreach objective ensures that your project is adequately communicated to the McGill community to increase stakeholders' awareness of and/or participation in your initiative. These two types of objectives might lead to project monitoring and outreach activities (next question). The nature of the 2-5 other objectives is for you to decide and tailor to your project. If you have more than 7 objectives, only indicate the ones that relate best to the above impacts and thus to sustainability at McGill. For each objective, specify the key success indicator(s) that you think should be used to assess the objective's degree of achievement/completion. Your indicators can be qualitative or quantitative (e.g. number of participants, participant testimonials, website analytics, quantity of energy saved, etc.). See the document [Sample Indicators](#) for inspiration.

#	Type of Objective	S.M.A.R.T. Objectives (125 char. max. ~20 words)	Related Impact(s) (A, B, C)	Related Key Success Indicator(s) - also indicate targeted numbers for each (85 char. max. ~15 words) (ignore the circles for now)	
1	Outreach	Increase Macdonald community involvement and cohesion	B	10 regular garden volunteers and an average of 25 attendees at workshops	<input type="radio"/>
2	Monitoring	Greater awareness among the Macdonald community about permaculture	A,B,C	75% of poll responses in the fall will be positive, and 100 website views.	<input type="radio"/>
3	Other	Reduce the number of materials /resources used to create and maintain the garden design	A	Savings of 10% or more will be generated using recycled materials.	<input type="radio"/>
4	Other	More permaculture methods will be used on the grounds of both the Macdonald and downtown McGill campus	C	A 2% increase in native species being used on both campuses.	<input type="radio"/>
5	Other				<input type="radio"/>
6	Other				<input type="radio"/>
7	Other				<input type="radio"/>

3. List the 4 to 7 most important activities that you need to conduct to reach the objectives you listed before. Make these as S.M.A.R.T. as possible. Also indicate at least one output and a key success indicator per activity. ([Sample Project Plan](#))

Your main activities should relate to the objectives you listed. As such, if you consider this crucial to your project, you may end up having an activity that relates to your monitoring objective(s) (e.g. developing a survey, any other activity that will help you and other stakeholders learn through your project) or to your outreach objective(s) (e.g. producing and promoting a video about the project). For each activity, indicate the output(s) that will be created as a result, such as a deliverable (e.g. video, report), training, website, network, design plan, or any other output adding value to the project and helping reach objectives/impacts.

S.M.A.R.T. Main Activities (125 char. max. ~20 words)	Related Objective #(s)	Resulting Output(s)	Related Key Success Indicator(s) - also indicate targeted numbers for each (85 char. max. ~15 words) (ignore the circles for now)	
Recruitment for the PDC	1	Number taking PDC	Minimum of 7 McGill people taking the PDC	<input type="radio"/>
Design of the garden	1	Well tailored design	Design meets all our criteria	<input checked="" type="radio"/>
Recruit volunteers for the garden	1	Involved community	Number of volunteers per month	<input type="radio"/>
Design of the survey to poll garden visitors and the MAC community	2	Evaluation System	Number of people with a positive reaction to the garden project	<input checked="" type="radio"/>
Logging of all garden inputs	3	Material input measurement	Level of sustainability of the inputs	<input checked="" type="radio"/>
Hiring of a project coordinator	2	Successful management	Job position is equitable and manager is satisfied	<input type="radio"/>
Outreach to Campus Ground Managers at Macdonald and downtown McGill	4	More campus permaculture	Number of new permaculture methods incorporated	<input type="radio"/>

Provide any additional qualitative details that you would like to share with the SPF about your activities. (800 char.max.~115 w.)

We plan to maintain financial transparency throughout the project. Appendix 4 list many of the plants to be used for the project. However more plants will be added to this list, thereby increasing the cost to approximately \$4000. We will consult with the University of Massachusetts Permaculture Initiative to discover what challenges they faced and how they dealt with them. We will also ask them for details about their garden design , its continued maintenance, and the new opportunities that have evolved on the UMass campus resulting from the initial installation of the garden.

4. Now, about the circles...: Select a total of 3 success indicators that you wish to track more seriously and report on during your project out of all those you indicated for your objectives and activities. These 3 indicators should be the most relevant to your goal and to creating a culture of sustainability at McGill and they should be relatively easy to monitor.

When selecting your indicators, make sure that you will have/plan the time and resources you will need to allocate to monitor them throughout the course of your project. Before you start your project, the SPF may ask you to change a chosen indicator for another that seems more pertinent to the SPF or to the University sustainability reporting. Note that, in addition to these three indicators, you will be asked to track four other generic ones that will be specified in the Award Letter. You will be required to indicate progress towards your final 7 indicators in your progress and final reports to the SPF. Because the SPF values the experiences and learning that occurs during your project (not only results), these reports will also gather related information through open-ended questions.

We have selected the 3 Success Indicators that we wish to monitor during the project:

5. For all projects, there exist various risks, i.e. factors or preconditions whose probable presence or absence could negatively influence the successful achievement of the project's objectives. Please indicate 2 to 4 main risks for your project and the mitigation measures you intend to use/implement to reduce their likelihood. (advise if you have more to list)

It is particularly important that you list all risks to health and safety of the project's team members, direct and indirect stakeholders, and/or the environment.

Main Risks (65 charac. max. ~9 words)	Preventative Measures (65 char. max. ~9 words)
Construction of Engagement Center has negative effect on garden	Construction will be on the other side away from the garden
Shortage of volunteers	Recruitment through a mini speaker series and club networking
Weather conditions affecting plants	Plants will be continually monitored for signs of abiotic stress

If needed, list additional Main Risks in a separate appendix.

- 6. List the 3 to 10 stakeholders/partners on/off McGill campus(es) that will be involved with and/or impacted by your project, and indicate their respective role in your project.** *If your project team (as presented on Section A - Cover Page) does not include a student member or a faculty or administrative staff member, please make sure to have this group represented as part of your stakeholders/partners to better align with [SPF Evaluation Criterion #5](#).*

Stakeholder's Name(s)	Affiliation	Role in the project	Confirmed support/participation
Paul Meldrum	Director Farm Center	Logistical support	Yes
David Wees	Faculty Lecturer	Uses the project as a teaching tool	Yes
Graham Caulder	P3 Permaculture	Consultant and teacher of the P3 PDC	Yes
Chris Wrobel	MSc. Graduate, Project Member	Project adviser – experienced agronomist	Yes
MSEG	Mac Student Project	Adviser in plant cultivation	Yes
Farm to School	Mac Student Project	AgConnect program will use the garden	Yes
Macdonald Community		Source of volunteers	
Student Designers of Project		Garden Designers	Yes
Caroline Begg	Faculty Lecturer	Logistical support	Yes

- PRELIMINARY TIMELINE ASSUMING THAT PROJECT STARTS IN 3 MONTHS -

Note: *If your project is approved, you will be asked by the SPF staff to fill out a more detailed timeline before any funding can be allocated.*

Key Tasks and/or sub-tasks	Related Output(s)	Responsible Team Member(s) and Time <i>(initials + if paid, estimated # of hours to do task)</i>	Start Date	End Date
PDC Students Design Garden	Garden Design	CW	02-03-17	30-04-17
Hire Project Coordinator	Employee	AW, CW, DD, EM	15-03-17	15-04-17
Land prepared and surveyed	Land Ready	Paul Meldrum	01-05-17	08-05-17
Plants and mulch installed	Garden	AW, CW, DD, EM	09-05-17	31-05-17
Signage installed	Explanatory Tour	Garden Coordinator	31-05-17	21-06-17
Garden Maintenance	Aesthetic Design	Garden Coordinator	31-05-17	31-08-17
Video Created	Awareness Tool	Garden Coordinator	31-05-17	31-08-17
Cedar Mulch applied	Garden Pathways	Garden Coordinator	31-05-17	30-06-17
Website Created	Awareness Tool	EM, AW, Garden Coordinator	01-05-17	28-02-18

Provide any additional details that you would like to share with the SPF about your timeline. *(530 charac. max. ~80 words)*

With the uncertainty of the weather there could be a delay of 1-2 weeks with the planting schedule. The garden will be designed by a team of McGill students that will be taking the P3 Permaculture Design Certificate. However, there will be some input on the design by the project group members, Paul Meldrum and David Wees. Other Macdonald Faculty members may also be consulted to enable them to use the garden for teaching/research purposes.

- ADDITIONAL INFORMATION -

Qualifications: If applicable, a List of Tasks for each position to be funded and the CVs of those to be employed in the project are attached:

List of appendices, if any *(maximum 7 pages of appendices, excluding CVs, but including List(s) of Tasks for all positions to be funded):*

If a McGill department/unit is to contribute financially to your project, make sure to include a support letter from its Financial/Budget Officer confirming contribution. Note that the SPF Working Group will evaluate your project based on your main application forms (i.e. Sections A, B, and C), not on appendices.

Appendix #	Title/Topic of Appendix	Total Qty of Pages
1	University of Massachusetts Permaculture Initiative at a Glance	1
2	Lessons Learned from Permaculture Classes (SPF0121) and Permaculture Design (SPF0142)	1
3	Letters of Support from David Wees	1
4	List of Possible Plants to be Used and their Respective Cost	2
5	List of Tasks for each Funded Position	1
6	Letter of Support - Caroline Begg	1
7	Letter of Support - Jim Fyles	1

- BUDGET -

When completing this form, please refer to the [SPF Guide to Budgeting](#) for additional information and explanations. If you would like to submit a more elaborated Financial Model/Business Case in addition to this SPF project budget (for instance, because of the nature of your project; e.g. you plan to generate some revenues through selling some items, revenues that will then allow your project to become financially self-viable), please develop it separately and join it as an appendix to this application. If you need guidance on how to elaborate a Financial Model/Business Case, see [suggested resources on the SPF website](#).

REVENUES

Please indicate any funding you will receive or anticipate receiving to complete your project, including funds from McGill Departments and Units. Reminder: For McGill department/unit's financial contributions, make sure to include a letter from its Financial/Budget Officer confirming contribution in appendix. Note that this contribution will also need to be confirmed at the end of the project.

(A) Funding Source(s)	(B) Amount (\$)	(C) Status
1. Sustainability Projects Fund (SPF)	\$18,320.00	Unconfirmed
2.		
3.		
4.		
REVENUES GRAND TOTAL - add all (B)	\$18,320.00	

EXPENSES

1. Salaries & Wages (only if applicable)

If applicable, indicate the job position(s) under your project and the associated costs. See the [SPF Guide to Budgeting](#) for further instructions.

(A) Position Title	(B) ~# of Hours per Week	(C) ~# of Weeks	(D) Hourly Wage* (\$)	(E) Subtotal (\$) (B x C x D)	(F) 20% Benefits	(G) Total Cost (\$) (E x F)	(H) Funding Source(s)**
FullTimeSummer Coordinator 2017	33.75	15	\$13.75	\$6,960.94	1.2	\$8,353.13	SPF
Part Time Fall Coordinator 2017	15	12	\$13.75	\$2,475.00	1.2	\$2,970.00	SPF
					1.2		
					1.2		
Expenses Subtotal 1 - add all (G)						\$11,323.13	

Do you already have a specific person in mind for filling the above position(s)? Y N

Do you have a personal and/or professional affiliation with the above position(s)? Y N

If you answered 'Y' to one or both of the above questions, please disclose:

The full time summer coordinator position will be posted and a person will be hired from the applications that are received. Audrey Wagner would like to be the part time fall coordinator. Her resume is attached to this project application.

2. Other Expenses

Indicate all of the expenses associated with your project; think back to all of your project's activities and all of the items that you need to complete them. It may be beneficial to group by category (not required); if you do so, please use the following categories: Materials-Supplies, Equipment, Printing, Events, Transportation, One-time Profess. Fees, and Miscellaneous.

(A) Item Description (inputs)	(B) # of Units	(C) Unit Cost (\$)	(D) Total Cost (\$) (B x C)	(E) Funding Sources**	(A) Item Description (inputs)	(B) # of Units	(C) Unit Cost (\$)	(D) Total Cost (\$) (B x C)	(E) Funding Sources**	
P3 Consulting Fee			\$300.00	SPF	Peat Moss	4	\$9.49	\$37.96		
VolunteerRefreshment			\$250.00	SPF	Soil Test Kit			\$23.85		
Signage			\$1,000.00	SPF						
Plants and Seeds			\$4,000.00	SPF						
Organic Fertilizer			\$200.00	SPF						
Van Rental and Gas			\$300.00	SPF						
Tree Support Stakes			\$200.00	SPF						
Planting Tools			\$200.00	SPF						
Red Cedar Mulch	20	\$6.75	\$135.00	SPF						
Website Cost			\$350.00	SPF						
Expenses Subtotal 2 - add all (D)				\$6,935.00	Expenses Subtotal 3 - add all (D)				\$61.81	

EXPENSES GRAND TOTAL (Subtotals 1 + 2 + 3) \$18,319.94

* See the [SPF Guide to Budgeting](#) for the conditions and Hourly Wages applicable to hiring under the SPF.

** To indicate the one or many Funding Source(s) that will pay for the expenses, use their respective number as you listed under Revenues (SPF or other).

Thank you! After you save it to your files, you can now upload this form and any appendices on the SPF website to complete the application process. The SPF staff will contact your team within two weeks to provide feedback. Congratulations for applying to the SPF!

Appendix 1 University of Massachusetts Permaculture Initiative at a Glance

Gardens: Since the initial student proposal in 2009, The UMass Permaculture Initiative has created four edible, educational, and biodiverse permaculture gardens on campus. Starting with the flagship Franklin permaculture garden, the students transformed the 12,000 square foot grass lawn into a beautiful and highly productive garden. The following year the students demonstrated the regenerative capacity of permaculture with the Berkshire Garden, located on a formerly degraded, barren, eroded piece of land, converting it into a healthy, inviting edible-scape. Their most recent garden was built at the Chancellor's Hillside House, per request of the Chancellor himself.

Volunteers: To date, the gardens have involved over 2,500 volunteers, including students, staff, faculty, and local community members and organizations. They've incorporated over 1.5 million pounds of UMass compost, recycled cardboard, and wood chips.

Student Involvement: The program serves as a source of inspiration and an outlet for involvement for countless students. The gardens are designed and implemented by the student-led Permaculture Committee; a group of passionate students that engage and educate the campus community about permaculture and sustainability.

Harvests: The students have harvested almost 4,500 pounds total of local, sustainable, healthy produce to UMass Dining Services.

Plant diversity: The students planted over 2000 fruit trees, berry bushes, herbs, flowers and vegetables, including an incredible diversity of over 200 different species.

Awards and Recognition: UMass Permaculture has won seven national awards, including the White House Campus Champions of Change Challenge, for which they were voted the #1 college/university project by White House judges and the public, and invited to Washington DC for a special event with President Barack Obama in March, 2012.

Conference: The Permaculture Initiative hosts an annual conference, where over 160 participants from international colleges, universities, and businesses have come to learn why and how permaculture design is being used as the guiding framework for some of the most cutting edge sustainability programs around the world.

Appendix 2. Lessons Learned from Permaculture Classes (SPF0121) and Permaculture Design Certificate (SPF0142)

The project SPF0121 Permaculture Course validated the presence of a growing awareness and interest in permaculture at the Macdonald campus. Classes were well attended (an average of over 30 people per class) with a Facebook membership of over 400 people. The initiative led to another SPF project SPF0142 – Permaculture Design Course (PDC). Nine McGill students took the P3 PDC and designed a food forest area of half an acre on a former MSEG (Macdonald Student Run Ecological Garden) production area in the Arboretum. Both projects were very dynamic ones. The following lessons were learned from both projects:

- 1) The food forest is in an area that is located relatively far from the Macdonald campus. It is not very accessible and is on a steep slope that is not very well drained. There is also some natural predation of some of the plant species by a growing population of deer in the immediate area. For these reasons it is not an area suitable for mass visitation by the public.
- 2) The food forest was not accessible by farm machinery available at the Macdonald campus. The Showcase Permaculture Garden Project will have the benefit of trained people using Macdonald Campus tractor equipment if needed to prepare the land area designated for the project before its installation.
- 3) There was some crop loss in the food forest garden due to competition from a cover crop and to soil ph problems. The Showcase Garden Project will do ph tests of the soil at periodic intervals on the designated land for the project. And a cover crop will not be used –we will be covering the area with bark chip mulch.
- 4) The SPF0142 had some challenges sourcing some of the plants that were required for their design. We will work together with MSEG, the UMass permaculture initiative, and other individuals (such as Faculty) to identify reputable sources for the plant species in our design.



Faculty of
Agricultural and
Environmental Sciences

Faculté des
sciences de l'agriculture et
de l'environnement

DATE: December 21, 2016

TO: McGill Sustainability Projects Fund

FROM: David Wees, Dept. of Plant Science and Farm Management & Technology Program

RE: support for Macdonald Permaculture Garden Project

I am writing this letter in support of Audrey Wagner's and Chris Wrobel's initiative to create a Permaculture Garden at the Macdonald Campus Farm.

This project has numerous potential beneficial impacts for the McGill community. But the ones of most interest are, I think, educational. Indeed, it would serve as a potential site, readily accessible, for class field trips, such as for my Landscape Design course (FMTP 097). In addition, the information generated by the project could serve my course in Urban Horticulture (PLNT 312). It would also serve as an on-going science outreach project, opening the eyes of the general public to questions of food, agriculture and the environment. And finally, the permaculture garden could serve as a future "training ground" and incubator for students seeking an original and stimulating work experience.

If you have any questions, please feel free to contact me at (514) 398-7756 or by e-mail at david.wees@mcgill.ca

Sincerely,

David Wees, Faculty lecturer and associate director, FMT Program

Farm Management and Technology Program
Macdonald Campus
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Appendix 4. Plants for the Showcase Permaculture Macdonald Garden

Plant	Cost	Source **	Total
Welsh Onion	36 x \$13.00	R	\$108.00
Horseradish	3 x 2.45	R	7.35
Sweet Cicely	3 x 2.45	R	7.35
Globe Artichoke	3 x 2.45	R	7.35
Roman Chamomile	3 x 2.45	R	7.35
Purple Coneflower	12 x 5.75	J	69.00
Sylvetta Arugula	Packet 3.75	R	3.75
Sweet Woodruff	3 x 2.45	R	7.35
Good King Henry	3 x 3.20	R	6.60
Asparagus	10 at 16.00	R	16.00
Egyptian Walking Onion	30 at 30.00	R	30.00
Garlic Chives	3 x 2.45	R	7.35
Yarrow	3 x 2.45	R	7.35
Comfrey	12 x 1.95	R	23.40
Purslane	Packet 1.75	R	1.75
Black Eyed Susan	12 x 4.75	J	57.00
Wild Bergamot	3 x 2.45	R	7.35
Anise Hyssop	Packet 3.75	R	3.75
White Clover	Packet 3.00	R	3.00
Dragon's Blood	3 x 3.20	R	9.60
Rugosa Rose	1 x 18.00	R	18.00
Short-Tooth Mountain Mint	3 x 2.45	R	7.35
English Thyme	3 x 2.45	R	7.35
New Jersey Tea	Packet 5.00	R	5.00
Great Blue Lobelia	3 x 2.45	R	7.35
Hyssop-Leaf Mountain Mint	3 x 2.45	R	7.35
Lemon Balm	3 x 2.45	R	7.35
Alpine Strawberry	3 x 2.45	R	7.35
Climbing Strawberry	3 x 2.45	R	7.35
Rose La Reine Victoria	1 x 18.00	R	18.00
Ostrich Fern	10 x 9.00	R	90.00
Chives	3 x 2.45	R	7.35

Spearmint	3 x 2.45	R	7.35
Sage	3 x 2.45	R	7.35
French Tarragon	3 x 3.20	R	9.60
Oregano	3 x 2.45	R	7.35
Wild Sweet William	Packet 5.00	R	5.00
Grape, Concord	1 x 20.00	J	20.00
Stinging Nettle	3 x 2.45	R	7.35
Elderberry	1 x 12.00	R	12.00
English Lavender	3 x 2.45	R	7.35
Lovage	3 x 2.45	R	7.35
Pennyroyal	3 x 2.45	R	7.35
Bay Laurel	3 x 5.45	R	16.35
Askula Seabuckthorn	1 x 8.00	R	8.00
Male Seabucktorn	1 x 8.00	R	8.00
Woodland Sunflower	6 x 6.75	R	40.50
Cardinal flower	6 x 4.75	R	28.50
New England aster	10 x 4.75	R	47.50
New York aster	10 x 4.75	R	47.50
Golgiberry	1 x 27.50	J	27.50
Highbush blueberry	2 x 21.00	J	42.00
Raspberry	4 x 18.00	J	72.00
Red currant	2 x 21.00	J	42.00
Blackberry	2 x 21.00	J	42.00
Ligonberry	2 x 21.00	J	42.00
Wild ginger	12 x 2.55	R	47.50
Joe-Pye Weed	3 x 3.20	R	9.60
Aaron Cherry	1 x 85.00	J	85.00
Champion Quince	1 x 145.00	J	145.00
Flaming Fury PF-24C Peach	1 x 76.00	J	76.00
5 in 1 Pear Tree	1 x 97.00	J	97.00
4 in 1 Plum Tree	1 x 83.00	J	83.00
Total Cost (with a Delivery Charge of \$61.70 from Richters' Herbs included)			2142.90
Total Cost with Sales Tax included			\$2463.80

****R = Richters' Herbs in Goodwood, Ontario, and J = Jasmine Nursery in Ville Ste. Laurent, Quebec.**

Appendix 5. List of Tasks for each Work Position for the Showcase Garden Project

Project Coordinator (Full Time Summer 2017) List of Tasks:

- 1) Coordinate project volunteers
- 2) Garden maintenance – pruning, watering, weeding, monitoring of crop, harvest
- 3) Develop and contribute to educational website about the project and permaculture in general
- 4) Corresponding with outside stakeholders – emailing, calling people, attending meetings when required
- 5) Conducting workshops
- 6) Researching a one-day conference on permaculture
- 7) Helping to develop a promotional video
- 8) Keeping a record of all garden inputs and outputs
- 9) Contributing to the final SPF report on the project
- 10) Design of survey to measure the visitor's satisfaction with the showcase garden.
- 11) Distribution of surveys and collation of the results
- 12) Outreach to Campus Ground Coordinators at both the Macdonald campus and downtown

Project Coordinator (Part Time Fall 2017) List of Tasks:

- 1) Coordinate project volunteers
- 2) Garden maintenance – pruning, watering, weeding, monitoring of crop, harvest
- 3) Develop and contribute to educational website about the project and permaculture in general
- 4) Corresponding with outside stakeholders – emailing, calling people, attending meetings when required
- 5) Conducting workshops
- 6) Keeping a record of all garden inputs and outputs
- 7) Contributing to the final SPF report on the project
- 8) Design and distribution of surveys to evaluate awareness about permaculture on campus after orientation tours and an awareness week organized by this individual.
- 9) Collation of all survey results
- 10) Outreach to Campus Ground Coordinators at both the Macdonald campus and downtown

Audrey Constance Wagner

2238 Addington H4A 3G5 NDG MTL, QC, Canada
audreywtree@hotmail.ca
Cell: 514-716-8207
Home: 514-505-0867

Languages: Fully bilingual English and French, perfect written and spoken.

Education

McGill University

Sept. 2015 – Present

Major in Environment (BSc.), domain in Food Production and Environment

Faculty of Agricultural and Environmental Sciences

Minor in International Agriculture

(GPA: 3.97)

Dawson College in Environmental Science

2012 - 2014

Completed. *DEC* received. Graduated with Honors.

F.A.C.E. Arts and Music school – Primary and secondary

2001-2012

High school graduation diploma achieved.

Experience

- **Founder and President of the *McGill Permaculture Club*** Sept. 2016 - Present
 - As president of the McGill Permaculture Club I am tasked with organizing and hosting meetings, workshops, events and field trips. I am in charge of balancing the budget, communicating with stakeholders, marketing the club, and managing all club activities.

- **Founder and Associate of the *Sprouting Minds Project*** Jan. 2016 - Present
 - Sprouting Minds is a collective started by myself and fellow students which organizes and facilitates interactive workshops for youth in high-schools about food sovereignty and the environmental and socio-economic impacts of food production.

- **Executor of Merit360 Action Plan 001 at *World Merit*** June 2016 – Oct. 2016
 - During my time with World Merit I created an action plan to tackle the UN Sustainable Development Goals, specifically SDG15 Life on Land, which I then presented at the UN headquarters in NYC, in addition to co-founding the NGO *Just Leaves*.

- **Internship at *Maya Mountain Research Farm in Belize*** June 2016 – August 2016
 - I completed a 10 week internship at a permaculture farm in the Belizean tropical rainforest. While working with other interns to contribute to the maintenance of the farm, I designed and performed a research study of the biodiversity on the site.

- **Internship at Navdanya Biodiversity Conservation Farm in India** June 2015
 - During my three months in India, I completed a month-long internship with the Navdanya organization, founded by activist Vandana Shiva. My responsibilities included organizing learning seminars with the other interns and volunteers; performing agriculture-related tasks such as sowing seeds, harvesting crops, saving seeds, mulching, weeding; and conducting independent research related to sustainable agriculture.

- **Co-President of Dawson's Green Earth Club, the college's environment club** Fall 2014
 - During my time as Co-President I was in charge of problem solving, training volunteers and new club members, scheduling volunteer shifts, creating and organizing club meetings, awareness campaigns, information seminars, workshops, events, and activities for club members. I also had to mobilize students and advertise our events through social media and by creating information pamphlets and posters.

- **Exchanges on organic farms (WWOOFING)** 2014
 - My many experiences volunteering on various organic farms across Canada have allowed me to become an exceptionally fast learner and adapt and integrate myself well in a new environment. My tasks while WWOOFING included seeding, transplanting vegetables, harvesting, weeding, pruning, canning produce, and fixing an irrigation system.

- **Volunteering for McGill Macdonald Student-Run Ecological Gardens** 2015 - Present
- **Volunteering for Cycle AlimenTerre in NDG** 2015 - 2016
- **Volunteering for Santropol Roulant Meals On Wheels Program** 2015

Part-Time Work

- Front of House Cashier at *Mandy's Salad Bar* Nov. 2014 - Present
 - Personalized customer service, working well in a team, leadership, responsibility.

- Tea Guide at *David's Tea* (Eaton Center) Nov. 2011- July 2014

- Take-out counter employee at *Restaurant Chalet B.B.Q.* (NDG) July 2009 - Feb. 2011

Other Skills

- Outstanding organizational skills
- Strong leadership skills
- Excellent writing and communication skills

References available upon request



January 26, 2017

Letter of support for the “Macdonald Showcase Permaculture Garden Project”

I strongly support this project on the Permaculture garden project. Perennial plants along with edible trees constructed in a design such that water and energy are conserved are essential to urban and peri-urban systems that are striving for sustainability. Much of the Island of Montreal has the potential to establish more of these permaculture gardens that are not only aesthetically pleasing, but are a source of food for humans (and wildlife), habitat for birds and beneficial insects. Gardens should serve a multitude of functions and at the same time conserve the environment.

The permaculture club at the Macdonald Campus, of which Audrey Wagner, Dylan Davies and Ella Martin are members, is extremely active and they have the knowledge to successfully start and bring this project to completion. This garden will be a fantastic educational opportunity, not only for the undergraduate students on the campus in agriculture and the environment, but for the thousands of visitors that the Macdonald campus Farm receives every year. Students from elementary to high schools visit the campus farm, and this garden will showcase concepts and practices in permaculture to a very large number of future agriculturalists and environmentalists. The garden will be an excellent complement to the Mac farm, the Macdonald-Student Ecological Garden (MSEG), the Farm-to-School program and Ag-Connect (which is training youth with autism in agricultural practices), Les Poules du Campus Macdonald and the future Community Engagement Centre. All of the listed activities/projects are highly integrated and serve as educational opportunities for McGill undergraduates who have conducted applied student research projects and internships in many of these projects. As well many courses such as Ecosystem Management, Agro-ecosystems field course, Soil Nutrient Management, St Lawrence Ecosystem, Agri 310, Agri 490 and for the level 1 stage in Human Nutrition already use these projects as part of their educational activities. The Permaculture garden will bring another and much needed dimension to this whole system of food, environment, education and research projects located on the Macdonald Campus farm.

I strongly recommend that this project be granted funding. I have every confidence in the students managing the project – it will be a very successful and useful endeavour.

Sincerely,

Caroline Begg, Ph.D.

514-398-8749 Raymond R2-028, Email: caroline.begg@mcgill.ca

Advisor and coordinator for the Ecological Agriculture Specialization, Minor and Certificate, Mentor MSE Food Production & Environment Domain

Director of Stage (Internship), FMT Program,

Faculty Lecturer, Plant Science, McGill University, Associate Member, McGill School of the Environment (MSE), FAES



McGill

**Faculty of Agricultural
and Environmental Sciences**

**Faculté des sciences de
l'agriculture et de l'environnement**

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Department of Natural
Resource Sciences

Département des sciences
des ressources naturelles

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Ste-Anne-de-Bellevue
Québec, Canada H9X 3V9

January 30 2017

Sustainability Projects Fund
McGill Office of Sustainability

Dear Sustainability Projects Committee,

I am writing in support of the project proposal entitled "The Macdonald Showcase Permaculture Garden Project" submitted by Audrey Wagner and her colleagues.

For decades now, society has chosen to develop intensive and resource demanding forms of food production. This has been reflected in what is taught, researched and grown on the Macdonald campus. We have missed many opportunities to develop environmentally, socially and economically sustainable food production systems, with the effect that they have largely disappeared from our landscapes. This loss has become particularly critical as we come to understand the need to reduce our input of fertilizers and energy to reduce our output of greenhouse gasses and pollutants.

The Macdonald Showcase Permaculture Garden Project aims to to raise awareness of more sustainable alternatives to industrial agriculture by bringing the permaculture approach to the Campus in an accessible and public way. The Garden will become another focal point, along with the previously funded MSEG project, that I hope will encourage more teaching and research on sustainable agriculture. The high visibility of the Garden relative other initiatives will mean that many more people will be exposed the ideas and hopefully will incorporate them in their own thinking and food choices. The proponents of the project are keen and capable, and they are well supported by their neighbours at the Farm and on Campus, all of which enhances the potential for success. The seeds of the project are already planted in the minds and hearts of the people involved. Funding from the SPF is the 'compost' required to help those ideas grow and bloom into something that will support our learning inside and outside the Campus.

Yours sincerely,

James Fyles
Professor and Tomlinson Chair of Forest Ecology
Associate Dean (Student Affairs), Faculty of Agricultural and Environmental Sciences