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| Version #1 | Date: 26/09/2017 |

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| **Project Title**:  Stormwater and Sewer Mapping and Infographic |
| **Project Main Purpose:**  The purpose of this project is to develop materials to help educate Vancouver staff, councillors and the public on the City of Vancouver’s stormwater and sewer systems. The media used for educational purposes is envisioned to be a series of maps and an infographic. |
| **Project Background/ Context:**  The City of Vancouver currently conveys rainwater from roofs and roads along with wastewater in one pipe to the Iona Wastewater treatment plant in Richmond, BC. During intense rainstorm the combined flow can exceed the capacity of the pipes and overflow into the ocean. It is anticipated that rainfall events will be more intense in the future due to climate change, exasperating the current situation.  The City of Vancouver is currently implementing strategies to eliminate the combined overflows by 2050, but educating staff and the public is a key component to the program’s success. |
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| **Outline of Project Details:**  Students will be asked use the existing City of Vancouver data to develop maps of the stormwater and sewer systems. Preliminary watersheds have been developed for the stormwater and sewer mains, the student are asked to review background data to confirm the watershed boundaries where possible. |
| **Deliverables:**  *This section pertains to what is expected at project completion. All SEEDS Projects require an executive summary, a report, and a presentation.*  **Required**  [Critical Milestones](https://sustain.ubc.ca/sites/sustain.ubc.ca/files/uploads/Critical_Milestones.docx) (please click on link for more information)  Executive Summary (2 page max.)  Report  Presentation  Other (e.g. prototypes, a demonstration, conceptual designs, full build, video, application, installation, etc.)  A series of 20 maps indicating the Metro Vancouver Trunk System, and the 19 City of Vancouver sub-watershed catchments.  Infographic summarizing background information on the False Creek watershed |
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| **Anticipated Outcomes:**  This project will help planning staff educate other City of Vancouver staff, councilors and the public on the stormwater and sewer systems. This project will also facilitate the planning process required to eliminate combined overflows by 2050.    The infographics may be used to educate staff, and the public about False Creeks watersheds. |
| **Anticipated Initiation and Completion Date:**  September 2017- December 2017 |
| **Special considerations:**  *Please list any special factors that the student(s) will need to take into account (equipment, location, constraints, existing material, etc.).* |
| **Potential information sources:**  GIS database consisting of: sewer, combined and stormwater pipes, watershed catchment areas. |
| **Desired Student Qualifications:**  *Please describe experience, background and skillset qualifications that students will need to have in order to successfully complete the project. This section will be used to match suitable students with your project.*   * ArcGIS Skills * Knowledge of the built and natural environment |
| **Budget (if any):**  The City of Vancouver can cover the cost of printing. Budget to be approved and discussed prior to implementation. |
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| **Part 2: Project team** |
| **Primary Staff Client:** Michelle Revesz  Michelle Revesz has recently joined the City of Vancouver after fourteen years as a consulting engineer and a researcher. Michelle is currently developing the City of Vancouver’s strategies to eliminated combined overflows by 2050.  As a consultant, Michelle specialized in water conservation, water supply, stormwater management, rainwater harvesting and water reuse. She has worked with Metro Vancouver, Vancouver Airport Authority, and many municipalities and developers though-out BC to optimizing the urban water cycle, reducing water consumption and wastewater flows. |

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| **Part 3: anticipated OperationaL staff, faculty and student responsibilities** |
| **Staff Client(s):**   * Review project proposal. * Attend initial project team “kick-off” meeting or workshop to review project proposal collaboratively, discuss expectations, identify resources, and to set agreed-upon project milestones. * Commit to ongoing communication engagement with the project member or team. This is typically through meetings, email communication or in-class workshops. * Review and provide comment on any submitted progress reports and draft report. * Attend final project report presentation. * Complete the end of term Project Evaluation Surveys. * Inform Program Representative if any work content is sensitive and/or confidential in nature, and what measures they would like to implement to manage this content. * If you are contacted by the media or initiate contact with the media please inform them that you are not speaking on behalf of the Program. If you expect that your project will receive media coverage please inform SEEDS Sustainability Program Representative.   **Faculty:**   * Explain how student will be graded for the project and how the project mark fits into the course mark. * Support student throughout project with expertise and advice as needed. * Ensure students understand their reports will be published and made available to the public. * Ensure students understand that they can opt out of having reports published by submitting a written request to the Program. * Attend student presentation of project. * Complete the end of term Project Evaluation Surveys. * If you are contacted by the media or initiate contact with the media please inform them that you are not speaking on behalf of the Program or the City of Vancouver. If you expect that your project will receive media coverage please inform Program Representative.   Photo credit will be given to the photographer in all instances so please tell us who took the photo. You will also need to have [photo consent forms](http://universitycounsel.ubc.ca/files/2011/01/Final-Consent-to-use-of-Image-Nov-23-10.pdf) signed by anyone who you photographed and submitted with the photograph.  Some tips to taking a good photo with your phone:   * Focus on capturing emotion and action * Take the photo with your phone positioned horizontally * Follow the rule of thirds (check out Wikipedia for a definition) * If you are taking pictures with people, expressions should be confident, honest, open, sociable, and bold (looking directly at the camera), where appropriate |