

Source ID and Diagnostic Monitoring Study Proposal

Title: Source Control Inspection Evaluation

Time Frame: Complete by July 31, 2018

Estimated Budget: \$100,000

Seattle Public Utilities and the City of Tacoma propose to work with the Source ID and Diagnostic Monitoring group within the Stormwater Action Monitoring Program to conduct a source control inspection evaluation to determine how long source control requirements/BMPs are implemented following a visit from a municipal inspector. The intended outcome of this evaluation would be information on how long businesses remember and implement source control requirements/BMPs following a visit from a municipal source control inspector. This information can help determine how frequent business inspections should be conducted to maximize the effectiveness of source control to control pollution. In addition, the study will provide Phase II communities with information on business inspection methods to help develop their programs.

The current NPDES MS4 Permit requires Phase I Municipalities in Western Washington to inspect 20% of “sites” annually to assure BMP effectiveness and compliance with source control requirements. The permit requires is implemented by permittees by visiting businesses to educate them about source control requirements and enforce the jurisdictions ordinance if source control violations are observed. This study would address questions about how effective business inspections are at getting businesses to implement source control to prevent pollution from entering the MS4. The study may provide information on the optimal length of time to revisit businesses between inspections.

Scope of Work

Study question: How effective is a full business inspection at changing the behavior of a business to comply with the Stormwater code and for how long do businesses implement the behavior change.

1. Design one 5–10-minute questionnaire to be used for a statistically significant valid number of businesses that have received a business inspection in the last 5-years.

The questionnaire will address the following topics:

- a. Recall of the inspection, materials provided, and/or information presented.
 - b. Rating of the materials provided (helpful, understandable—includes open-ended question)
 - c. Awareness, understanding, and implementation of key best management practices (BMPs).
 - d. Status of the implementation of the BMPs implemented because of the full business inspection.
 - e. Barriers to implementation and what would help the business overcome those barriers.
2. Attempt to conduct the survey by phone a statistically valid number of businesses that received a full business inspection in the last 5 years;

3. Compile results into a summary memo detailing the results of the survey, with an emphasis on what tools are most effective to help businesses understand and implement BMPs and how long do businesses implement BMPs following an inspection.

Schedule

Date	Activity
June 2017	Approval by SWG and develop funding agreement with Ecology
July 2017	Develop detailed Scope of Work. SPU has Cascadia Consulting under contract, and this work can be included in a work assignment.
August – October 2017	Work with staff at SPU and Tacoma to develop survey questions and develop survey population
November 2017	Conduct Survey
December 2017-February 2018	Compile Data, conduct analysis, prepare initial draft results
March 2018	Review draft report and provide comments
April 2018	Revise draft report
May 2018	Review revised draft and provide comments
June 2018	Finalize Report and communication to RSMP and Ecology