

53133K

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Catch Basin Effectiveness Study

Jenée Colton, King County Stormwater Work Group meeting November 14, 2018





Department of Natural Resources and Parks Water and Land Resources Division How can we use WW catch basin I&M records to inform inspection frequency needs?



127 Surveys

- 48 Answered
- 31 Supplied Data

8 Loaded in Database



Survey Highlights

Catch Basin Inspection Schedules



Catch Basin Definitions



Data Analysis

Kalama, WA Photo Credit: Joe Mabel

257B

TC

IT18











Data Quality Issues

Things that make you go hmmm.....





Confidence Tiers Low – less confidence High – more confidence

Percent of CBs Failing Within 2 Years: Low Confidence Tier Data



Clarifications on Alternative Schedules

Definition of a Circuit



Less Frequent

- No Ecology approval necessary
- Documentation of proposed schedule based on 2 x # years
- Circuits based on land use, traffic density, etc...similar maintenance needs



Marysville Circuits



• Implement/tighten data quality control (QC) protocols



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- Migrate data collection and management to integrated digital system.
- Consider less frequent inspection schedule with inspection data.
- Revisit the definitions of a circuit.



Recommendations to Ecology and SWG

• Standardize the definition of a catch basin to improve use of inspection data.



Recommendations to Ecology and SWG

- Standardize the definition of a catch basin to improve use of inspection data.
- Conduct field study of CB dynamics to allow for long-term, sciencebased prediction of CB sediment accumulation.



Acknowledgements

King County

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Program Implementation



