

Phase 1 NPDES Road Maintenance Compliance Requirements

 S5.C.8.b.iv. Illicit Discharge and Detection Elimination (IDDE) staff training

Train all field staff who may come into contact with an illicit discharge

• S5.C.8.b.vii Response Process

Establish procedures to respond to illicit connections

S5.C.9.b.iii (1) Annual Facility Inspection

Create system to annually inspect county owned stormwater facilities

S5.C9.b.iii (2) Major Event Inspection

Create system to spot check facilities after major storm events

Phase 1 NPDES Road Maintenance Compliance Requirements

S5.C.9.b.iv Catch Basin Maintenance Annual Inspections

S5.C.9.b.v. Records

Maintain records of inspections, maintenance actions, and repairs

 S5.C.9.b.vi Road and Parking Lot Maintenance Establish practices to reduce pollutants from parking lots and roads

S5.C.9.b.vii Road and Park
 Maintenance

Review and update policy on controlling pollutants from County maintained facilities

Phase 1 NPDES Road Maintenance Compliance Requirements

S5.C9.b.viii Employee Training

Develop a training program to protect water quality

S5.C.9.b.ix. Implement Stormwater
 Pollution Prevention Plan
 (SWPPP) for Facilities

Develop SWPPPs for all County equipment storage/maintenance facilities and materials storage facilities not already covered by an NPDES permit



S5.C.8.b.iv. IDDE Staff Training

All County Road Maintenance staff receive IDDE training every year consisting of:

- 15 minute IDDE training video produced by the EPA and the state of Michigan
- Powerpoint presentation focusing on common problems

Organic Sheen



Turbidity



Foaming & Tannins



\$5.C.8.b.iii (1) Response Process

Field Staff Report Illicit Discharges to Supervisors

Below is the reported information:

- Is the connection actively discharging?
- Is there an odor associated with the discharge?
- When was the illicit discharge found?
- Where is the illicit discharge?
- When did the material spill





S5.C.9.b.iii (1) Annual Facility Inspection

Pierce County Road Operations employs an asset management system for annual inspections of Stormwater Treatment and Flow Control Facilities

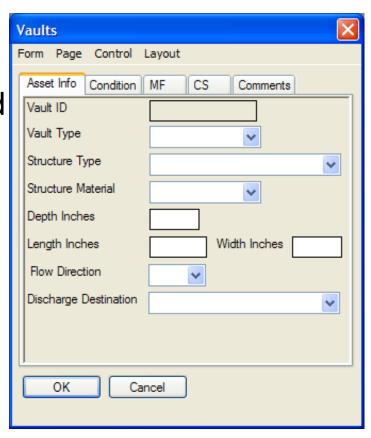
Data is collected in Arcpad with laptop computers

Data is processed and stored in

Maintenance Connections

Work is then prioritized and scheduled





S5.C.9.b.iii (2) Major Event Inspections

All potentially damaged permanent treatment and flow control facilities need to be inspected after a 10 year 24 hour rainfall event occurs

Completed via watershed approach

Return Frequency 24 Hour Storm Event (Years)	Tacoma/Puyallup Southern Pierce County	Gig Harbor	Key Peninsula North
.5	1.28	1.6	1.92
2	2.0	2.5	3.0
5	2.5	3.0	3.5
10	3.0	3.5	4.3
25	3.5	4.0	4.5-5.0
50	3.8	4.5	5.0-5.5
100	4.1	4.8	5.5-6.0

S5.C.9.b.iv Catch Basin and Inlet Maintenance

Three options:

- 1)Circuit based
- 2)Inspect all and clean only where needed
- 3)Schedule based on maintenance records of double the length of time of the proposed inspection frequency or
- 4)Written statements to document a less frequent maintenance schedule

Pierce County started with a circuit based approach and

moved to the inspect all option



S5.C.9.b.v Records

Pierce County has implemented an asset management system which tracks maintenance actions digitally

- All roadside maintenance features are inspected regularly
- Laptop computers in all Vactor trucks
- Scheduling and work orders are generated via maintenance connections







S5.C.9.b.vi Road Maintenance Policies to Reduce Stormwater Impacts

The following activities shall be addressed:

- Pipe Cleaning
- Culvert Cleaning
- 3) Ditch Maintenance
- 4) Street Cleaning
- 5) Road Repair and Resurfacing

- 6) Snow & Ice Control
- 7) Utility Installation
- 8) Vegetation Management
- 9) Dust Control
- 10) Pavement Striping
- Pierce County has adopted the Regional Road Maintenance Guidelines which directs how to perform these activities and protect water quality
- Guidelines are outcome based
- Guidelines may be found at

//www.co.pierce.wa.us/pc/abtus/ourorg/pwu/roadops/ESA_Manual.htm

S5.C.9.b.vii Road Maintenance Policies to Reduce Stormwater Impacts from lands owned or maintained by permittee

Similar to S5.C9.b.vi, addresses:

- Application of Fertilizers and Pesticides
- 5) Building Cleaning and Maintenance
- 2) Sediment and Erosion Control
- 3) Landscape Maintenance
- 4) Trash Management
- Pierce County has adopted the Regional Road Maintenance Guidelines which covers some of these activities
- Developed an IVM plan
- Developed a Stormwater Pollution Prevention Plan for all facilities

S5.C.9.b.viii Employee Training

Pierce County is an active member in the Regional Road Maintenance Forum. As a forum member, all employees are trained on the proper selection, installation, monitoring and removal of Best Management Practices

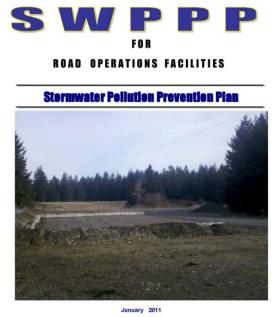
- Regional Forum BMP training meets CESCL certification
- Field and classroom sessions
- Partners include the UW, NMFS, and Ecology



S5.C.9.b.ix Implement Stormwater **Pollution Prevention Plans (SWPPP's) for All Facilities**

- Pierce County has developed SWPPP's for all facilities
- Living document that tracks all of the activities at the facility designed protect water quality
- Training records
- Facility maintenance
- ✓ Spills
- ✓ Inspections







Road Operations Division

Contacts:

Jeff Rudolph (253) 798-7693

<u>@co.pierce.wa.us</u>

