# OPERATION & MAINTENANCE MANUAL

DFI No. 01006 Facility Type: Sediment Basin

Picture

Prepared: April 2016

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#### 1. Identification

Drainage Facility ID (DFI):	D01006
Facility Type:	Sediment Basin
Construction Drawings:	49V-077
Location:	District: 3
	Highway Number: 16
	Mile Post: 86.79 to 87.02
	Description: Facility is a ditch that collects hillside runoff and road sanding cinders upstream from a storm drain inlet. The storm drain is between M.P. 86.79 and 87.02, the ditch is ditch is between M.P. 86.80 and 86.85, and the inlet is at M.P. 86.82. The inlet and ditch are on the north side of the highway opposite from Suttle Lake.

#### 2. Facility Contact Information

Contact the Engineer of Record, Region Technical Center, or Geo-Environmental's Senior Hydraulics Engineer for:

- operational clarification
- maintenance clarification
- repair or restoration assistance

#### Engineering Contacts:

Region Technical Center Geo/Hydro/Environmental Unit Manager

Or

Geo-Environmental's Senior Hydraulics Engineer (503) 986-3365.

#### 3. Construction

Engineer of Record:

ODOT Designer -- Region 2 Hydraulics, Bo Miller, (503) 986-2738 Facility construction year: 2016 Contractor:

#### 4. Storm Drain System and Facility Overview

Road, and hillside runoff is collected in seven inlets. Five are on the road between the pavement edge and the fog line. They collect water if there is a snow berm at the pavement edge that collects runoff like a curb. Water flows past them and over the pavement edge if the snow is not there. Two inlets drain the sediment basin. It is a basin on the uphill side of the highway that collects hillside runoff and sanding cinders that are pushed or blown off of the road. The cinders and any soil washing off of the hillside settle out of the runoff when it flows through the basin. Sections of the basin are at near to level grades to slow the flow and promote settling. The storm drain and basin are shown on the attached drawings.

Two type "D" ditch inlets are the basin outlet and one is higher than the other. The lowest inlet grate should be covered or the basin cleaned when sediment builds up high enough to reach the lower inlet lip. The sediment can continue to collect until it reaches the lower edge of the upper inlet grate. The basin must be cleaned at this time. The upper inlet should always be open. A. Maintenance equipment access:

The basin is readily accessible from the highway edge. There are no guardrails. The ditch foreslope is 3 units horizontal to 1 unit vertical (3H : 1V).

B. Heavy equipment access into facility:

Allowed (no limitations)
Allowed (with limitations)
Not Allowed

Heavy equipment is not allowed within 3 feet of the basin edges. Foot traffic, only, is allowed within the basin and on the basin sides.

- C. Special Features:
  - Amended Soils
  - Porous Pavers
  - □ Liners
  - □ Underdrains

#### 5. Facility Haz Mat Spill Feature

No special features are included for Haz Mat. Standard operating procedures for Haz Mat in roadside ditches are to be used.

#### 6. Auxiliary Outlets (Basin Overflow)

The upper inlet to the storm drain is the auxiliary outlet. It should be fully open at all times. The lower inlet can be blocked if sediment reaches it, if desired.

The auxiliary outlets for this facility are:

Designed into facility:

□ Other, as noted below:

#### 7. Maintenance Requirements

Routine maintenance is cleaning the basin to the lines, grades, and cross-section shown on the attached drawings. Standard operating procedures for ditch cleaning are to be used. Annual cleaning is recommended.

#### 8. Waste Material Handling

Standard operating procedures for ditch spoils are to be used. Contact any of the following for more detailed information about management of waste materials found on site:

ODOT Clean Water Unit	(503) 986-3008
ODOT Statewide Hazmat Coordinator	(503) 229-5129
ODOT Region Hazmat Coordinator	(503) 986-2647
ODEQ Northwest Region Office	(503) 229-5263

## Appendix A

### Content:

Operational Plan and Profile Drawings



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## Appendix B

#### Content:

- ODOT Project Plan Sheets
  - o Cover/Title Sheet
  - Water Quality/Detention Plan Sheets

o Details





