

MILWAUKIE

Dogwood City of the West

City of Milwaukie
Public Works Department

10.01 Preventive Maintenance

STORM PIPE CLEANING

Standard Operating Procedure #10.01.007

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By

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Approved:



	9-9-13
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1.0 PURPOSE & APPLICABILITY

The purpose of this Standard Operating Procedure (SOP) is to establish uniform procedures pertaining to the practice and reporting of Stormwater Pipe Cleaning as performed by the City of Milwaukie Public Works department. This procedure is written to meet the requirements of the National Pollution Discharge Elimination System (NPDES MS4) Permit Schedule F, Section B and the Stormwater Management Plan (SWMP) Element #8.

The policies and procedures of this SOP are applicable to all City of Milwaukie personnel involved in the planning, preparation, conducting and reporting of pipe cleaning within the City of Milwaukie city boundaries.

The operator or inspector may deviate from these procedures when necessary due to unexpected or unique circumstances that may occur in the field. Any deviation must be discussed with supervisory personnel prior to implementation.

2.0 METHOD SUMMARY

Storm pipe cleaning is performed to remove accumulated sediment, debris and pollutants from the pipe. Maintenance is accomplished by jetting the lines with high pressure water and vacuuming the debris with the Vactor. The debris is hauled to COM PW yard to be de-watered within the Decant facility. Pipes are cleaned as necessary to maintain the conveyance of the storm system and meet the requirements of the SWMP.

3.0 DEFINITIONS

3.1 Vactor: truck mounted vacuum unit with debris storage tank

4.0 HEALTH & SAFETY CONCERNS

Personal protective equipment such as safety glasses for splashing material, gloves for handling possibly contaminated material or contact with dead or live animals. Some of the concerns are exposure to hypodermic needles, loud noises, flying debris, heavy traffic areas, broken pipes, high water pressure, uneven surfaces and the general use of heavy equipment such as the Vactor.

5.0 PERSONNEL QUALIFICATIONS

Personnel must have a Class B Commercial Driver's License with a Tanker Endorsement, traffic control certification, blood borne pathogens training, and Vactor operation training.

6.0 EQUIPMENT & SUPPLIES

Equipment and supplies include; safety glasses, traffic control equipment, hearing protection, hard copy maps, work boots, high visibility safety wear, first aid kits, gloves, radios or cell phones. Assignments may require at least two employees.

7.0 PROCEDURAL STEPS

- 7.1 Vactor pre- trip inspection and preparation (water, safety supplies, paper towels, hand sanitizer).
- 7.2 Determine area selection, route and map.
- 7.3 Upon arrival turn on required flashers and lights.
- 7.4 Use a spotter to guide you to the asset.
- 7.5 Assess traffic control needs, set up accordingly.
- 7.6 Pull grate or lid from asset.
- 7.7 Insert Vactor tube, turn vacuum on.
- 7.8 Vacuum all debris.
- 7.9 Replace asset lid or grate.
- 7.10 Secure hose reel and suction tubes on Vactor
- 7.11 Move to next asset.

8.0 RECORDS MANAGEMENT

The personnel performing the work will complete the work order that is generated by the Hansen program under each numbered asset in the database. The report hard copies will be retained in accordance with the current City of Milwaukie records retention policy and Oregon Administrative Rules 166-200-120.

9.0 REFERENCES

- 9.1 City of Milwaukie Stormwater Management Plan (2012) Brown & Caldwell and City of Milwaukie
- 9.2 NPDES MS4 Discharge Permit # 101348 (March 16, 2012) Oregon Department of Environmental Quality
- 9.3 Decant Facility Use & Maintenance SOP # 50.01
- 9.4 Vactor Operating Manual (2007)
- 9.5 City of Milwaukie Citywide Safety Manual (2002)

Revision Record

Revision	Date	Author	Description of change