

## Saginaw Valley State University Operations and Maintenance Activities Assessment

The EGLE NPDES Phase II MS4 Discharge Permit Application requires a procedure for assessing the applicant's operation and maintenance activities for the medium and low potential to discharge pollutants to surface waters of the state. The assessment identifies all pollutants that could be discharged from each applicable operation and maintenance activity and the BMPs being implemented or to be implemented to prevent or reduce pollutant runoff. This inventory will be updated annually as facilities add/remove BMPs to address new and existing operation and maintenance activities.

The procedure will include assessing the following university operation and maintenance activities:

- Driveway, parking lot, and sidewalk maintenance (e.g., pothole, sidewalk, and curb and gutter repair)
- Catch basin inspection and clean out
- Cold weather operations (e.g., plowing, sanding, application of deicing agents, and snow pile disposal)
- Managing vegetative properties

Saginaw Valley State University (SVSU) is responsible for parking lot and sidewalk maintenance, cold weather operations of snow plowing and snow pile disposal, managing vegetated properties, and vehicle washing and maintenance. Catch basin inspection is conducted by a consultant. Catch basins are cleaned as necessary by a contractor. Please see Table 1 on the next page for a list of Saginaw Valley State University's Operation and Maintenance Activities, that have low to medium potential for pollutants to be discharged, the pollution potential, and the BMPs implemented to prevent and/or reduce pollutant runoff.

**Table 1. Operation and Maintenance Activities**

<b>Municipal Operation and Maintenance Activity</b>	<b>Pollutants that could be Discharged</b>	<b>Pollution Potential</b>	<b>BMPs Implemented to Prevent and/or Reduce Pollutant Runoff</b>
<b>Driveway, Parking Lot and Sidewalk Maintenance</b>	Sediments, debris, deicing agents, vehicle fluids	Medium	Catch basin (CBs) sumps inspection and cleanout, vegetation buffers, sweeping as needed, spill cleanup.
<b>Cold Weather Operations – Snow Plowing and Pile Disposal</b>	Debris and pollutants from the road, deicing agents, sediment.	Medium	Plowing and staging snow piles on vegetation away from CBs, or drains, maintaining vegetated buffers. Use of deicers in key areas for safety concerns. Minimize use of deicers on paved areas.

<b>Municipal Operation and Maintenance Activity</b>	<b>Pollutants that could be Discharged</b>	<b>Pollution Potential</b>	<b>BMPs Implemented to Prevent and/or Reduce Pollutant Runoff</b>
<b>Managing vegetative Properties</b>	Grass clippings, pesticides, fertilizers (if used)	Low	Education of staff to keep grass clippings away from CBs. Mow high when possible, manage vegetative buffers by drains and in detention basins, seed bare areas. If spraying either contract out or have USDA Certified staff do spraying. Fertilizers must have no or low phosphorus and soil tested before applications. Use mulch for erosion prevention.
<b>Vehicle Washing and Maintenance</b>	Detergents and debris from vehicles	Medium	All SVSU owned vehicles are washed and maintained as needed inside at the SVSU Garage.

Parking lot and sidewalk maintenance are performed on an as needed basis. All work shall conform to Part 91 requirements for SESC. It is noted that public educational institutions must meet construction standards dictated by the State of Michigan and that all pertinent state building codes and necessary permits for construction must be adhered to or the state will not issue a permit to construct for the university.

Saginaw Valley State University performs snow plowing of roadways, driveways and parking lots. Snow is moved off sidewalks with mechanical sweepers. When necessary, snow piles generated from snow plowing are relocated to vegetative areas. Equipment capable of completing the snow removal work is used according to the manufacturers' operating instructions.

SVSU's maintenance staff is responsible for vehicle maintenance. This is done on an as needed basis. Maintenance is performed inside the garage at the campus maintenance complex. This is addressed in the SVSU SWPPP.

Sweeping and catch basin cleaning are performed by outside contractors obtained through the bid process. Detailed requirements for disposal of the sweeping and catch basin wastes are included in the bid contract language.

Vegetated properties managed by the Saginaw Valley State University maintenance staff will use the best management practices as described in their standard operating procedures manual for building and grounds maintenance.

**Measurable Goals**

- Quantifiable estimates when sweeping is done or CBs are cleaned out.

- Amount of deicers used per year.
- Conditions of parking lots and sidewalks at the end of each year.