# Sample SWPPP for Recycling Facilities

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**Certification Statement** 

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## **GENERAL FACILITY INFORMATION**

Name of Facility:
Facility Address:
Facility Contact:
Name:
Title:
Telephone:
Mailing Address:
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Owner:
Facility Operator:(if different from Owner)
Certified Storm Water Operator
Certification Number
Standard Industrial classification (SIC) Code:
Permit Information: Type: ( ) General ( ) Individual
Designated Name:
Permit Number:
Effective Date of Coverage:
Number of Storm Water Outfalls:
Receiving Waters:
Emergency Contact:
Name:
Telephone:

## 1.0 OVERVIEW

### 1.1 INTRODUCTION

This storm	water pollution prevention plan (SWPPP) covers the operations at It has been
Elimination accordance and its ope facility, recontrol mea	as required under Part I.B of Michigan's National Pollutant Discharge System (NPDES) general permit for storm water discharges and in with good engineering practices. This SWPPP describes this facility rations, identifies potential sources of storm water pollution at the commends appropriate best management practices (BMPs) or pollution assures to reduce the discharge of pollutants in storm water runoff, and reperiodic review of this SWPPP.
structural c	PP becomes effective as of The non-ontrols will be implemented by Structural I be in place by
<b>1.2</b> OBJ	ECTIVES
waters by r water runof	the storm water permit program is to improve the quality of surface educing the amount of pollutants potentially contained in the storm f being discharged. Industrial facilities subject to an NPDES permit re and implement an SWPPP for their facility.
The objecti 1.	ve of this SWPPP is three-fold: to identify potential sources of pollution at
	(facility name)
2.	to describe best management practices (BMPs) consistent with BMPs for the scrap processing and recycling industry which are to be used at(facility name)
3.	to provide other elements such as, but not limited to, a facility inspection program, site compliance evaluation program, record keeping and reporting program that will help
	(facility name)
	comply with the terms and conditions of their storm water discharge permit

## 2.0 STORM WATER POLLUTION PREVENTION TEAM

The storm water pollution prevention team is responsible for developing,
implementing, maintaining, and revising this SWPPP. The members of the team
are familiar with the management and operations of

		<del></del> '
(facility name)		
maintaining, record keeping employee training, conducti	and their primary responsibilities (i.e. implement , submitting reports, conducting inspections, ng the annual compliance evaluation, testing for ning the required certifications) are as follows:	
Name & Title	Responsibility	

Name & Title	-	Responsibility	 
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### 3.0 POTENTIAL SOURCES OF POLLUTANTS

#### 3.1 SITE MAP

Figure 1 presents a site map of the facility showing the following features (as required by the permit):

- property boundaries
- · buildings and other permanent structures
- · storage or disposal areas for significant materials
- storm water discharge outfalls
- location of storm water inlets contributing to each outfall
- outlines of drainage areas contributing to each outfall
- location of NPDES permitted discharges other than storm water
- structural runoff controls and storm water treatment facilities
- · areas of vegetation
- areas of exposed and/or erodible soils
- impervious surfaces (roof tops, asphalt, concrete)
- names and locations of receiving waters
- areas of known or suspected impacts on surface waters as designated under Part 201 of the Natural Resources and Environmental Protection Act of 1994, Public Act 451 (formerly Act 307).
- locations where the following activities are exposed to storm water:
  - fixed fueling operations
  - vehicle and equipment maintenance and/or cleaning areas
  - loading/unloading areas
  - waste treatment, storage, or disposal areas
  - liquid storage tanks
  - scrap processing areas
  - equipment operating areas
  - storage areas
- · any other areas deemed appropriate

## FIGURE 1.

#### 3.2 INVENTORY OF EXPOSED MATERIALS

The permit requires a general inventory of significant materials on site. For each significant material on site an evaluation is to be conducted to determine the potential for these materials to be contributed to the runoff being discharged from the facility. Areas to focus on may include:

- loading and unloading areas
- scrap processing areas [receiving, sorting, storage, processing (bale press, shearing, torching, shredding, briquetting, wire chopping, crushing, turning, flattening), shipment, etc.]
- other material handling operations (fuel pumps, etc.)
- outdoor storage areas (scraps, solvents, parts, etc.)
- processes which generate dust or particulate matter
- roof vents, stacks, and blowers
- waste generating areas
- waste disposal practices (tanks for oils, fuels, hydraulic fluid, antifreeze, and lubricating oils; trash dumpsters; etc.)
- · maintenance and cleaning practices for vehicles and equipment
- sites of environmental contamination
- areas where spills of polluting materials (salt and any material listed on Michigan's Critical Materials Register) have occurred in the past three years
- · any other areas deemed appropriate

Include the ways in which these materials might be exposed to the storm water runoff. And identify the outfalls from which the materials may be discharged if a release should occur.

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The permit requires a listing of oil and other polluting materials that have been spilled or leaked over the three years prior to the completion of the plan be included in the plan. Also include the date, volume of materials, the exact location of each release, and the actions taken to clean up the materials and/or prevent exposure of the materials to storm water runoff or contamination of surface waters of the state. (If there have been no spills of polluting materials, state that in this section).

DATE	BAATEDIAL	WOLLING.	LOCATION	
DATE	MATERIAL	VOLUME	LOCATION	ACTIONS TAKEN
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### 3.4 SUMMARY OF SAMPLING DATA

Not all facilities will have sampling data available. If there is data available for your facility it is to be included in the SWPPP. If there is no data available, please state that in this section.

The following is a summary of the sampling data available f	or
(facility name)	

Include sampling date, sampling location, parameters measured, range of concentrations for each parameter, sample collector, sample analyst, and a list of any changes in conditions that suggest the storm water data is no longer indicative of the current conditions at the facility.

Date	Location	Parameter	Range	Collector	Analyst	Changes
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### 4.0 BEST MANAGEMENT PRACTICES

Storm water management of be implemented to reduce to	controls, or bes he amount of p	t manageme pollutants in	ent practices (BMPs), will storm water discharged
from			<u> </u>
(facility name) The permit requires that the selected where applicable.	following cate	gories of BM	IPs to be considered, and
4.1 NON-STRUCTURAL	. CONTROLS		
Non-structural controls are paramount of pollution getting i implemented to address the structural changes to the factorial been selected for implementation.	into surface wa problem at the cility. The follo	iters. There e source. Th	are generally ney do not require any
will help to uncover on Thus, allowing for ma  The following equipmon maintenance progran	nce involves the uipment and of onditions which intended to present/activities when (Examples:	perational syn might lead revent such vill be include storage tank	rstems. These inspections to a release of materials. a release.
Equipment	Tasks		Frequency
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ent. This will reduc tact with storm wate re included in our go uids, refrigerant, and in accurate inventor	ed to maintain a clean and se the potential for significant er.  ood housekeeping routine. d deploying air bags prior to ry, putting hoods down on areas and floors, etc.)
Tasks	Frequency
R	
1	ractices are design ent. This will reduct tact with storm water included in our guids, refrigerant, an accurate inventore, sweeping paved

#### Spill Prevention and Response Procedures

Spills and leaks together are the largest industrial source of storm water pollution. Thus, this SWPPP specifies material handling procedures and storage requirements for significant materials. Equipment and procedures necessary for cleaning up spills and preventing the spilled material from being discharged have also been identified. All employees have been made aware of the proper procedures.

The follow procedures have been developed for spill response for our facility. (Examples of areas to include: vehicle dismantling areas, waste fluid storage areas, parts cleaning areas, solvent storage areas, etc.)

Area	Materials Present	Response Plan Location
•		

#### Sedimentation Control Measures

There may be certain areas at the facility that are prone to soil erosion. These areas need to be protected, and the soil kept out of the storm water discharge. (If there are no areas prone to soil erosion state that in this section.)

Area of Concern		Control Measures
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#### Employee Training

Employee training will be a major component in ensuring the success of the facilities SWPPP. The more knowledgeable all employees are about the facility's SWPPP and what is expected of them, the greater the chance that the plan will be successful.

The following is a description of the employee training programs to be implemented to inform appropriate personnel at all levels of responsibility of the components and goals of this SWPPP. (Examples: good housekeeping practices, spill prevention and response procedures, waste minimization practices, customer education on facility policies, etc.)

Topic	Employ	yees Included	Frequency	
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### List of Significant Materials Still Present

After the implementation of the non-structural controls the following significant materials are expected to be present in the storm water discharge. These materials will be addressed through the use of structural controls.

After the implementation of non-structural controls the following materials are expected to still be present in the storm water being discharged from the facility. (If there will be no significant materials present after the implementation of non-structural controls, state that in this section.)

Material	Location	" Outfall	Planned Control Measure
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#### 4.2 STRUCTURAL CONTROLS

Structural control measures will be necessary to control any pollutants that are still present in the storm water after the non-structural controls have been implemented. These types of controls are physical features that control and prevent storm water pollution. They can range from preventive measures to collection structures to treatment systems. Structural controls will require construction of a physical feature or barrier.

#### Preventive Measures

Preventive measures are control which are intended to prevent the exposure of storm water to contaminates.

The following preventive measures have been chosen for this facility. (Examples: signs and labels, safety posts, fences, a security system, coverings over areas of concern, etc.)

Area	Material	Control Measure

#### Diversions

Diversion practices are structures (including grading and paving) that are used to divert storm water away from high risk areas and prevent contaminants from mixing with the runoff, or to channel contaminated storm water to a treatment facility or containment area.

The following areas are to be protected through the use of diversion structures. (Examples: storage areas, processing areas, past spills, etc.)

Area	Material	Control Measure
	ξ.	
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#### Containment

Containment areas are structures designed to hold pollutants or contaminated storm water to prevent it from being discharged to surface waters. These structures can range from drip pans to large containment areas required for Pollution Incident Prevention Plans (PIPP) or Spill Control and Countermeasures (SPCC) plans.

Containment structures will be/have been installed in the following areas. (Examples: containment around waste fluid storage areas, drip pans under valves and pipe connections, curbing around dismantling areas or parts storage areas, etc.)

Area	Material	Control Measure
,		

#### Other Controls

There are other control measures that can be used that may not fit into one of the previously mentioned categories. The use of such controls is encouraged.

The following additional controls have to be used at the facility. (Examples: sumps, oil/water separators, sand filters, vegetative filters, basins [collection, retention, detention], reduce, reuse. and recycle materials, etc.)

Area	Material	Cor	itrol Measure
			4
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The following is a list of Best management Practices (BMPs) commonly used at auto recycling facilities.

Activity	Purpose	BMPs
Vehicle Dismantling		
Antifreeze/Coolant	Eliminate Exposure	Drain prior to dismantling and resell or recycle
Batteries	Minimize Exposure	Remove and place in covered storage area on a paved surface that is bermed or in plastic containers with lids
Brake Fluid	Eliminate Exposure	Drain using suction. Remove and drain parts with fluids. Store fluids in holding tanks and recycle
Refrigerant	Minimize Air Pollution	Evacuate prior to dismantling and when part is removed.
Gasoline/Diesel	Eliminate Exposure	Drain prior to vehicle storage. Filter, pump into holding tanks. Sell or reuse.
Motor Oil	Eliminate Exposure	Drain prior to dismantling and parts removal. Store in holding tanks and recycle.
Transmission Oil	Eliminate Exposure	Drain prior to dismantling and parts removal. Store in holding tanks and recycle.
Tires	Minimize Exposure	Remove and store in Semi-trailer, indoors, or under cover. Sell or recycle.
Oil Filters	Eliminate Exposure	Drain oil and properly dispose or recycle.
Vehicle Parts	Eliminate Exposure	Wash or clean in contained area. Store in plastic containers, covered area, or indoors.
Parts Cleaner	Eliminate Exposure	Recover and recycle.
Air Bags	Eliminate Exposure	Deploy airbags per guidelines or remove intact for reuse and store under cover.
Auto/Parts/ Material Storage		
Display Autos	Minimize Exposure	Use drip pans under stored vehicles. Replace hoods after parts removal. Reduce holding time for scrap disposal.
Burnt Autos	Minimize Exposure	Cover with plastic sheet, and remove for scrap disposal promptly.
Separated Components	Eliminate Exposure	Confine to designated area. Store under cover. Curb, berm, or dike as needed.
Autobody	Minimize Exposure	Replace hoods after parts removal. Reduce holding time for scrap disposal. Minimize inventory during wet season.
Scrap Parts	Eliminate Exposure	Store under cover and dispose of promptly.
Material and Liquid Wastes	Improve Materials Management	Keep separate and label. Track recycling. Dispose of properly.

Activity	Durnoss	DMD
	Purpose	BMPs
<u>Site Management</u>		
Spills	Contain/clean up pollutants	Prepare for clean up spills. Use rags/ adsorbent snakes to containment. Dispose of properly.
Site Grading	Minimize Exposure	Repave area to direct flows away from storage and waste areas.
Dismantling Area	Minimize Exposure	Roof or cover to eliminate rain-in.  Berm to eliminate storm water run-on.
Waste and Liquids	Good Maintenance	Inspect to ensure integrity of tanks, containers, pipings, and valves. Install safeguards against accidental releases.
Washwaters	Waste Minimization	Recycle and reuse or release to sanitary sewer if allowed.
Employee Training	Waste Minimization	Train employees regularly on proper and environmentally safe practices.
Customer Education	Waste Minimization	Inform and require customers who remove parts to do so properly and appropriately dispose of waste.
Materials Inventory	Good Management	Maintain proper inventories of vehicles processed, materials stored, and wastes recycled or disposed.
Storm Water Treatment		
Flow Dissipation	Remove Pollutants	Directs flow discharge over coarse gravel or cobblestones to facilitate settling out of particulates and sediment.
Vegetative Belts	Remove Pollutants	Direct flow discharge over vegetative belts or biofilters to enhance pollutant removal.
Sand/Gravel Filters	Remove Pollutants	Allow storm water from open parts storage areas to pass through a sand/gravel filter with drain holes. Sand layer must be periodically replaced.
Detention Ponds	Remove Pollutants	Capture storm water runoff from high activity areas. Skim off surface oil and remove bottom sediment. Reuse or evaporate runoff water.
Oil/Grit and Oil/Water Separators	Remove Pollutants	Direct flows from high activity areas through oil/water separators. Off-line separators to bypass large storms are preferable. Maintain regularly.
Flotation/Coagulation	Remove Pollutants	Store runoff flows, equalize, and provide flotation/coagulation. High operation and maintenance costs. Inappropriate if used only intermittently.
Industrial Sewer Piping	Remove Pollutants Offsite	Pretreat as required and pipe to sanitary sewer if allowed.

### 5.0 NON-STORM WATER DISCHARGES

The permit requires that all discharge locations be evaluated for the presence of non-storm water discharges. Any unauthorized storm water dischargers must be eliminated, or covered under another National Pollutant Discharge Elimination System (NPDES) permit. Certification that there are no unauthorized discharges must be submitted to the appropriate district supervisor. The following is a list of non-storm water discharges authorized under the general permit.

fire fighting activities, fire hydrant flushing, potable water sources including waterline flushing, irrigation drainage, lawn watering, uncontaminated ground water, foundation or footing drains, building washdown where no detergents were used, air conditioning condensate, dust control spraying.

The following table summarizes the evaluation results.

Date	Outfall	Method	Evaluator	Observations (are there any non-storm water discharges? Authorized or unauthorized?)	Date Corrected
				·	
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#### CERTIFICATION OF EVALUATION OF NON-STORM WATER DISCHARGES

been tested or evaluated for the presence of under my direction and supervision. To information submitted is true, accurate, and completed no unauthorized discharges were significant penalties for submitting false informations.	of non-storm water discharges either by me the best of my knowledge and belief, the I complete. And at the time this plan was e present. I am aware that there are
(Signature)	(Date)
(Printed Name)	(Title)

#### 6.0 RECORD KEEPING AND REPORTING

Ine permit requires that records of all preventive maintenance ins	
semi-annual comprehensive site inspections, records of employee	training
sessions, and the annual report be retained at	
	for at least
three years after the permit coverage expires.	

These records must be made available, upon request, to a representative of the Michigan Department of Environmental Quality (MDEQ). In the case of facilities which discharge storm water to a municipal separate storm sewer system, the records must also be made available to the operator of the municipal system.

#### 6.1 ANNUAL REPORT

The permit requires that	prepare
an annual report discussing the effectiveness of the SWPPP. This report	t should
include any changes that have been made, the reason for the changes, a	any
spills that occurred, what actions were taken as result of the spill, inspect	
results, and any other information relevant to the SWPPP. The annual re-	
to be retained on site. It does not need to be submitted to the MDEQ.	•

#### 6.1 SAMPLE RECORD KEEPING AND REPORTING FORMS

The following pages contain sample forms for the record keeping and reporting associated with the SWPPP. The following forms are examples, they are not required to be used by your facility.

Significant Spill Report
Non-storm Water Inspection Report
Employee Training
Good Housekeeping
Preventive Maintenance
Storm Water Inspection Report

## SIGNIFICANT SPILL REPORT

Date of Occurrence:		
Discovered by Whom:		
Location:		
Material Type & Volume:	,	
Cause of Spill:		
		· · · · · · · · · · · · · · · · · · ·
		•
Corrective Action Taken:		
Agencies/Persons Contacted:		
	· ·	
	Signatu	re

## **NON-STORM WATER INSPECTION REPORT**

Date of Inspection:	Time:	
Inspected by (printed name):	' .	
Signature:		
Description of type of inspection (check those   ☐ visual observation  ☐ dye tests   ☐ analysis of accurate schematics	se that apply): □ smoke tests	
Observations/Results:	,	
	•	
		·····
	•	
Are there any non-storm water discharges? [	□ yes □ no	
ls the discharge authorized under this permit	? □ yes □ no	
ls the discharge covered under another Natio System (NPDES) permit? □ yes □ no	onal Pollutant Discharge	Elimination
Are significant structural changes required to	eliminate the discharge?	P □ yes □ no

# **EMPLOYEE TRAINING**

Date of Session:	Time:
Trainer:	
Trainer :(printed)	(Signature)
Attendees (names, printed):	Signature:
	· · · · · · · · · · · · · · · · · · ·
Topics Covered:	
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## GOOD HOUSEKEEPING

Date:	Time:
Inspected by (printed):	
Signature:	

Areas Inspected	Observations	Actions Taken
Areas mapeeted	Observations	Actions taken
parking areas		
isles & walkways		
	•	
core & scrap		
dumpsters		
dampotoro		
battery removal/storage		
antifreeze		
removal/storage		
ail nama avaldata va va		
oil removal/storage		
fuel removal/storage		
parts cleaning/storage		
solvent storage		
grounds (in general)		
grounds (in general)		
	· · · · · · · · · · · · · · · · · · ·	1
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## PREVENTIVE MAINTENANCE

Areas Inspected	Observations	Actions Taken
iquid storage tanks (oil, fuel, antifreeze)		
pattery storage		
solvent drums/tanks		
Equipment/Machinery		
crusher		
paler		
hredder		
		·

## **COMPREHENSIVE INSPECTION**

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ture:		
Areas Inspected	Observations	Actions Taken
torm water outfalls	·	
property boundaries		
parking lots		
rounds (in general)		
lismantling areas		
vashing areas Vaste Storage Areas		
quid storage oil, fuel, antifreeze)		
azardous waste		
arts		
olvent		
umpsters		
crap & core		
ehicles		
quipment		
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### 7.0 CERTIFICATION OF THE SWPPP

I certify under penalty of law that this SWPPP has been developed in accordance with good engineering practices. To the best of my knowledge and belief, the information submitted is true, accurate, and complete. And at the time this plan was completed no unauthorized discharges were present. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

(Signature of Certified Operator)	(Certification Number
(Printed Name)	(Date)
(Signature of Corporate Officer)	(Date)
(Printed Name)	

Retain a copy of this certification with the SWPPP and submit a copy with the original signatures to the MDEQ office in your area.