Guide for Vehicle Salvage Yards

2020





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About this guide

This guide provides general information for educational purposes. The wording may differ from those contained in the actual laws and regulations.

Do you need an environmental approval?

You need an approval to construct, operate, or reclaim a vehicle salvage yard—called a "facility" in the laws and standards.

The environmental approval concerns itself with protection of the environment.

Size is the deciding factor. Your vehicle salvage yard needs an environmental approval if it exceeds 0.25 hectares (0.62 acres) in area.

Is the area of your vehicle salvage yard more than 0.25 hectares / 0.62 acres? When calculating size, include all areas that will be used for salvage activities:

- receiving area
- dismantling area
- hulk storage area
- waste and vehicle parts storage areas
- crushing/shredding areas

If yes, then you need to apply for an environmental approval. This guide can help.

Table of Contents

Environmental Rules for Salvage Yards	1
Know the rules	1
Learn about environmental standards	2
Applying for an Environmental Approval	3
Apply for an approval	3
Submit supporting documents with your application	4
Checklist for your approval application – documents you need to submit	4
Update your contingency plan every year	5
Renew your approval every 10 years	5
Operating Your Site to Meet the Standards	6
Check your site operations for compliance	6
Checklist for site operations	6
Handling and Storing Automotive Materials	9
Select the appropriate container for automotive materials	9
Check your containers for compliance	9
Apply container labels to identify contents	10
Label examples	10
Check that gasoline containers are certified	13
Store automotive batteries safely	13
Store like fluids with like—for safety and for recycling	13
Separate incompatible materials to avoid explosions	13
Store fluids that may freeze in heated areas to prevent cracking	13
Check your storage area for compliance	14
Checklist for storage area	14
Reusing, Recycling, and Disposing of Automotive Fluids and Batteries	15
Reuse	15
Send for recycling or disposal	15
Keep records for two years	15
Dealing with Used Oil and Glycol—banned from landfills	16
Register for free collection service	16
Burn used crankcase oil in a certified furnace only	16

Dealing with Mercury Switches and Sensors	17
Check older vehicles for mercury switches	17
Check older vehicles for mercury sensors	17
Remove mercury-containing switches and sensors safely	18
How to remove hood and trunk light switches:	18
How to remove ABS sensor modules:	18
Send for safe disposal—hazardous waste	18
Keep disposal records for two years	19
Dealing with Refrigerants	19
Dealing with Refrigerants	19 19
Dealing with Refrigerants Work safely with ozone depleting refrigerants like CFC-12 Find an environmental awareness course	19 19 19
Dealing with Refrigerants	19 19 19 20
Dealing with Refrigerants	19 19 19 20 20
Dealing with Refrigerants	 19 19 20 20 20 20
Dealing with Refrigerants	 19 19 19 20 20 20 20 20 20

Environmental Rules for Salvage Yards

Vehicle salvage yard operators need to know about environmental rules. These rules and regulations help protect the environment and human health.

Know the rules

Rules you must operate under:

- Your approval to operate a salvage facility
 - Contains terms and conditions that must be followed
 - Includes a renewal date—10 years from your approval date
- Standard for Commercial Vehicle Salvage Facilities novascotia.ca/nse/pubs/docs/Salvage-Facility-Standard.pdf
- Dangerous Goods Management Regulations novascotia.ca/just/regulations/regs/envdgm.htm
- Ozone Layer Protection Regulations
 novascotia.ca/just/regulations/regs/env5495.htm
- Contingency Plan for Spills at Commercial Vehicle Salvage Facilities downloadable template:

https://novascotia.ca/nse/dept/docs.policy/appendix-a-contingency-plantemplate-for-commercial-salvage-facilities.pdf

Other rules and regulations might also apply to your yard:

- underground tank systems: Petroleum Management Regulations
- aboveground tank systems greater than 4000 litres: Petroleum Management Regulations
- burning of used crankcase oil: Used Oil Regulations
- transportation of dangerous goods such as batteries: Canada's Transportation of Dangerous Goods Regulations
- use and storage of combustible materials: National Fire Code of Canada

Learn about environmental standards

New standards came into force on December 1, 2019.

They set out what you must do when you site, construct, operate, or rehabilitate a commercial vehicle salvage yard.

Standard for Commercial Vehicle Salvage Facilities: novascotia.ca/nse/pubs/docs/Salvage-Facility-Standard.pdf



Applying for an Environmental Approval

Apply for an approval

OFFICE USE ONLY			
Date Received: (yyyy/mm	v/dd)	Application #	
Please Print or Type. Complete Sections 1, 2, 3, Complete areas of Sectior	4 and 7 for ALL Applications. hs 5 and 6 that are applicable to	the specific activities o	f this application only.
Type of Application:			
New Application	Renewal 🔲 Amendment	Transfer	
f applicable, provide the p	revious Approval #		
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Link to application form: https://www.novascotia.ca/nse/resources/ permits.asp#dangerous.goods

Contingency Pla Salvage Facilitie	n for Spills a	t Commercial	NOVASCOTIA	
ourrage racinat	.s nananng v	chicles	NOWASCOTIA	
D				
Business name:		U	ate of plan:	
Site address:				
Instructions				
 All relevant sections of t a broad range of vehicle business practices of yo 	his contingency plan salvage facilities. Mo ur facility is recomme	must be completed. This to difying this plan to reflect ended.	emplate is designed for site-specific hazards and	
The Approval Holder is re	esponsible for the cor	ntents and annual updates	of the plan.	
 A completed plan must b 	e submitted with an	application for approval or	renewal.	
 The plan must be update Environment (NSE) or fin 	ed annually, kept on si e and emergency pers	ite and made available upo sonnel.	n request from Nova Scotia	
The Approval Holder is responsible to ensure that the contents of the plan, as updated, are communicated to staff working at the facility				
Emergency Numbers	and Spill Report	ing		
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Link to contingency plan template: https://www.novascotia.ca/nse/forms/ docs/Commercial-Salvage-Spills-Contingency-Plan.pdf

Submit supporting documents with your application Checklist for your approval application – documents you need to submit

Property deed or lease	Prove you own the property or have the legal right to conduct the activity on the site			
Site plan or survey prepared by a registered Nova Scotia land	Show the planned salvage footprint for the facility, property boundaries, designated crushing areas, and all existing and planned structures and installed equipment for the salvage facility			
surveyor	Show that separations distances will be met:			
	 30.5 m from watercourses, wetlands, and marine water bodies 			
	• 61 m from wells			
	 90 m from offsite residences 			
	To request a reduced separation distance to wells and offsite residences: see section 3 of the Standard for Commercial Vehicle Salvage Facilities			
Detailed plans/ specifications	Give details on the dismantling pad and the storage facilities for automotive fluids, batteries, mercury switches and sensors, and regulated refrigerants— include the size, the location (whether indoor or outdoor), and material used for construction			
	Give the types and capacity of storage containers/tanks for automotive fluids, batteries, mercury switches and sensors, and regulated refrigerants			
Detailed description	Describe the types of vehicles and other material that will be salvaged			
of activity	Include whether crushing or shredding will occur onsite			
Substance descriptions and controls	Describe the measures you will take to control, contain, or prevent the release of substances to the environment:			
	 during removal and handling of automotive fluids, batteries, regulated refrigerants, and mercury switches and sensors 			
	 during dismantling, storing, crushing, or shredding 			
	State if automotive fluids and batteries will be reused onsite or if they will be sent for recycling or disposal			
	State how refrigerants and mercury will be sent for recycling or disposal			
Description of adverse effect	Confirm in writing that the location of the facility will be outside the separation distance for municipal drinking water supplies as described in section 3(4) and 3(5) of the Standard for Commercial Vehicle Salvage Facilities			
Contingency plan for spills	Use the fillable template to describe your plan OR prepare a document that contains the same information			
Municipal zoning approval	Attach a letter OR current zoning map from the municipal planning authority confirming that vehicle salvage activity is allowed on the proposed property or properties			

Update your contingency plan every year

Your contingency plan needs to be updated annually and communicated to staff at the yard, so they understand what to do if there is a spill.

The plan needs to be

- available on site
- available to Nova Scotia Environment and fire and emergency personnel
- submitted with your application for renewal every 10 years

Renew your approval every 10 years

Your approval needs to be renewed every ten years. If there has been no change to your yard, you can request a waiver of the documents.



Check your site operations for compliance

Checklist for site operations

Receiving area

Inspect each item received for leaks-vehicle, wet part, vehicular battery, and refrigeration and air conditioning equipment

Stop leaks immediately-drain, repair, or remove

Place items so that leaks are easy to spot-off the ground and with an unobstructed view underneath and around each item

Make sure that any hulks in this area are also placed so that leaks are easy to spot-not on the ground, not stacked or piled



Dismantling area

Ensure that your dismantling pad is intact—free of cracks, rust, and deterioration—and continues to meet the construction standard:

- is large enough for an entire vehicle
- is made of one of the following:
 - concrete
 - steel
 - asphalt with an automotive fluid resistant coating
 - at least one metre of low permeability material (1 x 10-6 cm/sec or lower)
- is sloped or bermed when outdoors to allow releases to be captured
- is able to capture and hold fluids accidentally released

Remove automotive fluids, including windshield washer fluid, and wet parts on the dismantling pad, except drained:

- radiator, power steering reservoir, or power brake reservoir
- power steering pump
- differential

Capture automotive fluids in one of the following:

- leak proof drip-pans
- containers
- pump out equipment that prevents a release to the environment

It is best not to mix automotive fluids so they can be reused or recycled. For example, windshield washer fluid and antifreeze can be reused.



Hulk storage area

Store vehicles here only after the following are removed:

- automotive fluids
- batteries
- regulated refrigerants
- mercury switches and sensors



Crushing areas

Crush only in locations designated on your site plan or stated in the approval

Remove the following before crushing:

- automotive fluids
- batteries
- regulated refrigerants
- mercury switches and sensors
- tires



Handling and Storing Automotive Materials

Select the appropriate container for automotive materials

TYPE OF MATERIAL	TYPE OF CONTAINER
Automotive fluids—gasoline, diesel fuel, used crankcase oil, antifreeze, brake fluid, windshield wash fluid, hydraulic fluid, gear oil, transmis- sion fluid, and power steering fluid	 plastic or steel drums intermediate bulk containers plastic buckets, pails, or cans steel, fibreglass, or plastic tanks
Drained used oil filters	a leak-proof container
Mercury switches and sensors	• a heavy plastic bucket or pail
Refrigerants	 refillable cylinders marked with CSA certification
Leaking automotive batteries	 a plastic container lined with a neutralizing agent (baking soda or lime)

Check your containers for compliance

Containers must be

- leak proof
- in good condition with no bulges, dents, gouges, significant rust, or other damage
- stored in an area with a solid surface, like a concrete or metal floor
- placed so visual inspection for leaks, corrosion, and damage can be done, such as on a pallet
- positioned so that they do not collapse or spill
- capped or closed tightly
- left with enough space inside to allow for liquids to expand with temperature changes (for example, gasoline expands in hot weather)
- free of residual or spilled material on the outside
- labeled clearly and accurately



Apply container labels to identify contents

Container labels must indicate the contents. Labels meeting the following are appropriate:

- Federal Transportation and Dangerous Goods Regulations (TDG)
- Workplace Hazardous Materials Information System (WHMIS) Regulations

Label examples

Class 3 flammable liquids like gasoline and diesel fuel

- WHMIS supplier label gasoline
- WHMIS supplier label diesel fuel
- WHMIS workplace label
- WHMIS label for hazardous waste indicating contents
- TDG label

GASOLINE	- ESSENCE
RISK PHRASES	RISQUES
DANGER TO HEALTH BY PROLONGED EXPOSURE.	L'EXPOSITION PROLONGÉE EST DANEREUSE POUR LA SANTÉ.
RISK OF EXPLOSION BY SHOCK.	RISQUE D'EXPLOSION AU CHOC, À LA FRICTION ET À LA FLAMME.
FRICTION OR FIRE.	INCOMPATIBLE AVEC LES COMPURANTS FORTS.
INCOMPATIBLE WITH STRONG UXIDIZING AGENTS.	
PRECAUTIONARY MEASUERS	TENIR LOIN DES SOURCES D'IGNITION – NE PAS FUMMER
KEEP AWAY FROM SOURCES OF IGNITION - DO NOT SMOKE.	NE PAS RESPIRER LES VAPEURS.
DO NOT BREATH VAPOUR.	PORTER DES LUNETTES ÉTEANCHES ET DES VÉTEMENTS DE
WEAR SUITABLE PROTECTIVE CLOTHING AND GOOGLES	PROTECTION ADÉQUATS.
FIRST AID MEASURES	PREMIERS SOINS
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES.	RINCER LES YEUX À GRANDE EAU AU MONS 15 MINUTES.
DO NOT INDUCE VOMITING.	NE PAS FAIRE VOMER, APPELER UN MÉDECIN IMMÉDIATEMENT.
CALL A PHYSICIAN IMMEDIATELY. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF REQUIRED.	DONNER DE L'OXYGÉNE OU LA RESPIRATION ARTIFICIELLE AU BESOIN.
SEE SAFETY	VOIR LA FICHE TOXICOLOGIOUE

WHMIS supplier label

DIESEL

WHMIS – label for hazardous waste indicating contents

GASOLINE

WHIMIS - label for hazardous waste indicating contents





Lead acid batteries

- TDG label
- WHMIS label for hazardous waste indicating contents



WHMIS label for hazardous waste indicating contents



• WHMIS label for hazardous waste indicating contents

TDG label

• WHMIS supplier label antifreeze





CORROSIVE

8

BATTERES.WE

SHEPHERMITHER

WHMIS - label for hazardous waste indicating contents



WHMIS supplier label

Used oil

Label indicating contents



Windshield washer fluid

• Label indicating contents example



Mercury switches and sensors

• Label indicating contents example



Refrigerants

• Label indicating contents



Check that gasoline containers are certified

Containers that contain flammable or combustible liquids like gasoline must be marked with an applicable certification—these are applied or imprinted by the container maker:

- UN
- CSA
- ULC/ORD

Store automotive batteries safely

Automotive batteries contain sulfuric acid.

To prevent leaks and other dangers, you must keep them

- upright
- away from other waste like gasoline
- away from any ignition sources—sparks, smoking

Stacked automotive batteries should also be separated with cardboard or another spacer that prevents an electrical circuit from forming between them and to prevent terminals from puncturing the casing of other batteries.

Store like fluids with like-for safety and for recycling

Do not mix unlike fluids such as used crankcase oil, gasoline, antifreeze, or solvent cleaners:

Cardboard

Batteries

- Mixing can be dangerous—more toxic, more explosive
- Mixing makes recycling difficult or impossible

Separate incompatible materials to avoid explosions

Certain materials cannot be stored side by side—for example, keep corrosives like battery acid away from flammables like gasoline.

Store fluids that may freeze in heated areas to prevent cracking

Materials like windshield washer fluid and oil with water need to be stored in a heated location in winter to prevent freezing. Automotive fluids mixed with water expand as they freeze. Freezing will crack containers, causing leaks.

SAFE STORAGE OF AUTOMOTIVE

BATTERIES

Pallet

Check your storage area for compliance

Checklist for storage area

Danger placards	 Place a danger placard on the door or entry to each structure and storage area: buildings rooms trailers other structures outdoor areas 				
Ventilation	Allow air circulation in enclosed areas				
☐ Spill kit	 Keep spill kit available for use and suitably stocked: absorbent material neutralizing agent for battery acid, such as baking soda or lime shovel, broom, gloves, paper towel, rags the right kind of container for the material drain cover list of items in spill kit 				
Protected from vandalism	Prevent unauthorized people from entering the yard				
	Keep dangerous materials in locked areas—locked inside a building, room, trailer, bin, or cage				
Protected from vehicle traffic, including forklifts	Keep containers isolated from vehicle traffic, including forklifts, using large rocks, secure posts, or other barriers				
Empty containers	 Capped and closed tightly Stored out of the weather Contents sent for hazardous waste disposal if contaminated with water 				

Reusing, Recycling, and Disposing of Automotive Fluids and Batteries

Reuse

Automotive fluids and batteries may be reused.

Send for recycling or disposal

If not reused on site, automotive fluids and batteries must be sent for recycling or disposal. You must do this at least once every two years. Keep your recycling and disposal records.

Keep records for two years

You must keep all paperwork/records from the hazardous waste company for two years. Records can include waybills or receipts.

Your paperwork must detail each of the following:

- volume (L) or weight (kg) of automotive fluids, contaminated soil and clean-up materials; number of batteries and tires
- date of removal from the salvage yard
- name of the hazardous waste management company

Dealing with Used Oil and Glycolbanned from landfills

Used oil and glycol, their empty containers, and used oil filters are banned from landfills in Nova Scotia. They cannot be put in the garbage.

Deal with used oil and glycol, their empty containers, and used oil filters by registering for the free collection service.

You can burn used crankcase oil if you have a certified used oil furnace and have notified NSE.

Register for free collection service

The Used Oil Management Association (UOMA) – Atlantic will collect and recycle these materials. Collection is free to businesses.

Register in the program or find a collector or collection facility near you: www.uoma-atlantic.com

Burn used crankcase oil in a certified furnace only

If you have a certified used oil furnace, you can burn used crankcase oil:

- look for a label on the furnace showing that it is meets CSA or UL/ULC standards
- label the containers used to collect used crankcase oil clearly—so that nothing else is added accidentally
- follow the manufacturer's instructions for burning—Do NOT burn crankcase oil in a regular home furnace: It might explode; It might release dangerous chemicals and ash

Notify government: If you burn used oil, you must send notice in writing to Nova Scotia Environment. Contact your local Nova Scotia Environment office for further information: https://novascotia.ca/nse/dept/regional-office-locations.asp

Warning: Do not burn other fluids in your used oil furnace. Other fluids can harm the furnace and release toxins to the environment. For example, burning brake fluid or solvents such as MEK (methyl-ethyl ketone) can emit hydrochloric acid. The acid corrodes furnace parts and harms Earth's ozone layer.

Dealing with Mercury Switches and Sensors

Some makes and models of vehicles made in 2003 or earlier have mercury capsules in convenience lighting switches and ABS (anti-lock braking system) sensors.

Switches and sensors that contain mercury must be removed before a vehicle is crushed or shredded.

Check older vehicles for mercury switches

Ford2001 and olderChrysler1998 and olderVolvo1991 and olderAudi1077	
Chrysler1998 and olderVolvo1991 and olderAudi10771088 Audi 100	
Volvo 1991 and older Audi 1077, 1088 Audi 100	
Aud: 1077 1000 Audi 100	
AUGI 1977-1988 AUGI 100	
1980-1988 Audi 200	
Mazda 1993–1997 Navajo	
1995–1999 B-Series pick	kup
Porsche 1976-1991	

Check older vehicles for mercury sensors

Audi	1987–1993 Audi 80/90
	1987–1993 Audi 100/Avant
	1989–1995 Audi V8
	1987–1991 Audi 200
	1987–1992 Audi Coupe Quattro
Chrysler	1992–1996 4WD Dodge Stealth
	1992 Eagle 200 GTX AWD
	1992–2001 Jeep Cherokee
	1993–2001 Jeep Grand Cherokee
	1992–1995 Jeep YJ
	1997–2003 Jeep TJ
Ford • Mazo	la • Mercury
	1993–1997 Ford Bronco
	1993–2002 Ford Explorer and Mazda Navajo
	1995–2001 4×4 Ford Ranger and
	Mazda B-Series Pick-Up
	1997–2002 AWD Mercury Mountaineer
Mitsubishi	1990 Galant 4WD
	1991 3000GT 4WD, Expo 4WD/Expo LVR 4WD,
	Eclipse 4WD, Galant 4WD
	1992 3000GT 4WD, Expo 4WD/Expo LVR 4WD,
	Eclipse 4WD, Galant 4WD
	1993 3000GT 4WD, Expo4WD/Expo LVR 4WD
	1994 3000GT 4WD
Nissan	1996 Nissan Pathfinder 4X4
Subaru	1990–1995 Subaru Legacy with 5MT AWD
	1993–1996 Subaru Impreza with 5MT AWD

Remove mercury-containing switches and sensors safely

Switches and sensors that contain mercury must be removed before a vehicle is crushed or shredded. It is a good practice to remove them when the fluids are being removed.

Take care not to break open the sensor module or switch. Find more information on the End of Life Vehicle Solutions (ELVS) website:

"Removing Mercury Switches": elvsolutions.org/?page_id=620 "Removing the ABS Sensor ...": elvsolutions.org/?page_id=9

How to remove hood and trunk light switches:		How to remove ABS sensor modules:		
•	disconnect the battery	•	disconnect the battery	
•	 locate the switches under the hood in the trunk 		ocate the sensors in one of four places depending on the make and model of the vehicle: right front wheel apron drive tunnel left frame rail (directly below the driver) below the rear seat on the floor pan	
_	cut the power supply whe and remove fasteners		and a subject of the second state of the	
•	remove the entire switch— take care not to break it open	• 1	remove the entire sensor module— take care not to break it open	
•	place it in the mercury storage bucket or pail	•	place it in the mercury storage bucket or pail	
•	write on the vehicle in permanent marker: "mercury removed on yyyy/mm/dd"	•	write on the vehicle in permanent marker: 'mercury removed on yyyy/mm/dd"	

Send for safe disposal-hazardous waste

Never put switches or sensors in the regular garbage. Anything with mercury in it must be collected by a hazardous waste management company. Some companies provide a container and a courier service to collect it when full.

Keep disposal records for two years

You must keep all paperwork/records from the hazardous waste company for two years. Records can include waybills or receipts.

Your paperwork must detail each of the following:

- weight (kg) of mercury containing material
- date of removal from the salvage facility
- name of the hazardous waste management company

Dealing with Refrigerants

Avoid releasing or venting refrigerants into the air:

- **Legal obligation:** Ozone depleting refrigerants like CFC-12 (commonly called R-12 or Freon-12) must be recovered, stored properly, and recycled or reclaimed. It would typically be found in vehicles manufactured before the mid-1990s. CFC-12 is no longer used.
- **Best practice:** HFC-134a (R-134a) and other refrigerants are now in use. While these other refrigerants are not covered by our regulations, it is good practice to capture them instead of releasing into the air because they are strong greenhouse gases.

Work safely with ozone depleting refrigerants like CFC-12

A person who installs, services, and removes equipment with ozone depleting refrigerants must have completed an environmental awareness course. You must either train someone for this work or hire someone with this course.

Find an environmental awareness course

The Nova Scotia Community College delivers Canada's Ozone Layer Protection Awareness Program in Nova Scotia for the Heating, Refrigeration, and Air Conditioning Institute of Canada.

This is a one-day course with an exam. Those who achieve 75% or higher receive a wallet-sized card, called an Ozone Depleting Substances card. This card is needed for working with CFC-12 and is recommended for working with other refrigerants.

https://www.nscc.ca/learning_programs/coned/Course.aspx?I=003777

Recover refrigerants with care

Recover refrigerants with specialized equipment before a vehicle is stored, crushed, or shredded. You should do it before storing the vehicle.

Do not cut or puncture refrigerant lines. After refrigerants are recovered, seal all air conditioner openings. This prevents releasing residual oils from the lines.

Keep disposal records

It is good practice to keep paperwork/records showing:

- where refrigerants have been sent for reclamation, recycling, or disposal
- copies of wallet cards held by employees who have taken the environmental awareness course
- invoices from a company contracted to complete refrigerant removal

Cleaning up spills

Follow your contingency plan during a spill or release of automotive fluids, battery acid, regulated refrigerants, and other substances.

Stop the leak

Drain automotive fluids or batteries or repair the wet part.

Clean up spilled fluids

Use your spill kit:

- absorbent materials
- neutralizing agents
- shovels
- containers compatible for the substance beings handled

