

Report To:	Halton-Hamilton Source Protection Committee
Report No.:	SPC-23-09-04
From:	Martin Keller, Senior Manager, Watershed Planning and Source
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Date:	September 26, 2023
Subject:	Draft Policy Package – Dense Non-Aqueous Phase Liquid (DNAPL)

Recommendation

THAT the Halton-Hamilton Source Protection Committee receives for information the staff report SPC-23-09-04 Draft Policy Package – Dense Non-Aqueous Phase Liquid (DNAPL)

Executive Summary

Staff are continuing to analyze the implications of the updated technical framework and revised 2021 Technical Rules under the *Clean Water Act, 2006,* including revised circumstances for identifying significant drinking water threats in the Halton-Hamilton Source Protection Region (HHSPR). Draft policies for the handling and storage of DNAPL were discussed at the Municipal Working Group meeting on September 13, 2023 and are presented to the Source Protection Committee in this report for discussion and feedback.

Report

Background

In December 2021, the Ministry of the Environment, Conservation and Parks (MECP) revised the Technical Rules under the *Clean Water Act, 2006*. The rules are available at: <u>https://www.ontario.ca/page/2021-technical-rules-under-clean-water-act</u>

The recently submitted and approved comprehensive HHSPR updates under Section 36 of the *Clean Water Act, 2006* were undertaken following the 2017/2018 Technical Rules. The 2021 Technical Rules will apply to subsequent Assessment Report and Source Protection Plan updates at HHSPR.

Policy Development

Staff developed and presented draft policy text for the handling and storage of fuel to municipal staff and Risk Management Officials (RMO) at the September 13, 2023 Municipal Working Group meeting. Municipal staff and Risk Management Officials (RMO) are in support of the proposed draft policy text. Further changes may be made based on feedback from the Source Protection Committee.



The 2021 Directors Technical Rules, with respect to handling and storage of DNAPLs, saw limited change. A list of activities (List 1 section 9) where DNAPLs are likely used was added to the Glossary of Terms in the Table of drinking Water Threats.

The intent of the policies is to mitigate the risk associated with DNPALs where the handling and storage is or would be a significant drinking water threat. Staff propose that activities provided in List 1 also be subject to a RMP.

Appendix A of this report provides detail of proposed policy changes and includes List 1 of activities likely associated with dense non-aqueous phase liquids.

<u>Next Steps</u>

Following feedback from Source Protection Committee members, any further policy revisions will be brought forward for discussion to the next Municipal Working Group and future SPC meetings, as applicable.

Signed & respectfully submitted:

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Mardi Bergen Source Water Information Coordinator, Watershed Planning and Source Protection

2021 Technical Rule Changes – DNPALs

Handling and Storage of DNPALs

Intent – To mitigate and monitor the handling and storage of dense non-aqueous phase liquids where the existing and future handling and storage would be considered a significant drinking water threat.

Tool

- Risk Management Plan to manage the existing and future storage and handling of dense non-aqueous phase liquids and/or the activities included in List 1, applicable to the circumstances related to the prescribed threat.
- Land Use Planning municipalities request the disclosure of potential activity occurrence.

Dense Non-Aqueous Phase Liquids

Activity	Existing/Future	Vulnerable	Significant	Threshold	Intent	Tool Options	Applicable	Notes
		Area	Threat VSA				to HHSPR	
Engagement of	Existing/	WHPA-E	9-10	Storage Above	Manage	RMP	All HHSPR	
Activity	Future	WHPA	2-10	Grade, Partially		E&O	WHPAs	
				Below Grade,		Land Use Planning	(excluding	
				Below Grade			Carlisle	
							WHPA-E v	
							8.1)	

Current DNAPLs Policies

Threat	Education &	Incentives	Prescribed	Land Use Planning	Prohibited	Restricted Land	Risk Management	Other
	Outreach		Instrument		Activities	Uses	Plans	
Handling &				T-53-C a			T-44-C	
Storage of DNAPLs								

Policy Comparison Overview

Handling a	nd Storage	of Fuel
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Tool	Current Policies (2022)	Current Policy Number	Proposed Policies	New Policy Number
Risk Management Plan (S.58)	Risk management plans with the persons undertaking or proposing to undertake the handling and storage of a dense non- aqueous phase liquid	T-44-C	Risk management plans with the persons undertaking or proposing to undertake the handling and storage of a dense non-aqueous phase liquid. NEW – or the activity is included on List 1. (Defined in the plan)	T-44-C
Land Use Planning	All property owners/operators must disclose any future handling and storage of DNAPLs	T-53-C	No policy changes proposed	T-53-C

Policy ID	Т-44-С		
Threat	Handling and storage of dense non-aqueous phase liquids		
Policy Tool	Risk management plan		
Policy Implementer	Risk Management Official		
Policy	 a. The handling and storage of dense non-aqueous phase liquids is designated for the purpose of Section 58 of the CWA and a Risk Management Plan Shall be required where the following applies: Where the handling and storage of dense non-aqueous phase liquids is or would be significant drinking water threats The engagement of an activity that may include, but is not limited to, those provided in List 1 of Section 9 of the Glossary of Terms in the Table of Drinking Water Threats. the risk management official shall screen all building permit and <i>Planning Act</i> applications in accordance with policy G-2 within these vulnerable areas. the risk management official shall document in their annual report, in accordance with Section 65 of Ontario Regulation 287/07, action taken regarding risk management plans for the handling and storage of a dense non-aqueous phase liquid and submit this report to the Source Protection Authority by February 1 of each year. 		
Legal Effect	Part a - Must conform with - legally binding. List I (Appendix C – Compliance Lists) Part b - Must conform with - legally binding. List H (Appendix C - Compliance Lists) (Part c is a monitoring policy)		
Where Policy Applies	See Figures 2 to 11. WHPA-A, B, C (all scores)		
When Policy Applies	Existing and future		

Legal Effect	Parts a and b Must conform with - legally binding. List A (Appendix C - Compliance Lists)
	(Part d is a monitoring policy)
Where Policy	See Figures 2 to 11.
Applies	
When Policy Applies	Future

List 1 of Section 9 of the Glossary of Terms in the Table of Drinking Water Threats

Adhesives and resins manufacturing and processing

Airstrips and hangars operations

Asphalt and bitumen manufacturing

Boat manufacturing

Coal gasification and coal tar manufacturing and processing

Commercial autobody shops (including automotive and other motor vehicles)

Commercial port activities, including operation and maintenance of wharves and docks

Cosmetics manufacturing and processing

Dye manufacturing and processing

Electroplating

Electronic, computer, photographic and printing equipment manufacturing

Garages (including automotive and other motor vehicles) and maintenance and repair of

railcars, marine vehicles and aviation vehicles

Glass manufacturing and production

Iron and steel manufacturing and production

Metal fabrication

Metal treatment, coating, plating and finishing

Operation of dry-cleaning equipment (where chemicals are used)

Paints manufacturing and processing

Pesticides (including herbicides, fungicides and anti-fouling agents) manufacturing and processing

Pharmaceutical manufacturing and processing

Plastics (including fibreglass) manufacturing and processing

Pulp, paper and paperboard manufacturing and processing

Rail yards, tracks and spurs

Rubber manufacturing and processing

Solvent manufacturing and processing

Vehicles and associated parts manufacturing

Tanneries

Textile manufacturing and processing

Wood treating and preservative facility