

# WISCONSIN DEPARTMENT OF NATURAL RESOURCES NOTICE OF FINAL GUIDANCE & CERTIFICATION

*Pursuant to ch. 227, Wis. Stats., the Wisconsin Department of Natural Resources has finalized and hereby certifies the following guidance document.* 

### **DOCUMENT ID**

RR-19-0705-C

## **DOCUMENT TITLE**

Guidance for Hazardous Waste Remediation

#### **PROGRAM/BUREAU**

**Remediation and Redevelopment** 

#### STATUTORY AUTHORITY OR LEGAL CITATION

Wis. Stats. ch. 292; Wis. Admin. Code ch. NR 700

### DATE SENT TO LEGISLATIVE REFERENCE BUREAU (FOR PUBLIC COMMENTS)

26-Aug-19

#### DATE FINALIZED

02-Sept-19

#### DNR CERTIFICATION

I have reviewed this guidance document or proposed guidance document and I certify that it complies with sections 227.10 and 227.11 of the Wisconsin Statutes. I further certify that the guidance document or proposed guidance document contains no standard, requirement, or threshold that is not explicitly required or explicitly permitted by a statute or a rule that has been lawfully promulgated. I further certify that the guidance document or proposed guidance document contains no standard, requirement, or threshold that is more restrictive than a standard, requirement, or threshold contained in the Wisconsin Statutes.

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September 4, 2019

Date

Signature

# GUIDANCE FOR HAZARDOUS WASTE REMEDIATION

# **RR-705**

# WISCONSIN DEPARTMENT OF NATURAL RESOURCES

**BUREAUS OF** 

# REMEDIATION AND REDEVELOPMENT AND WASTE AND MATERIALS MANAGEMENT

January 2014

This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.



Wisconsin Department of Natural Resources P.O. Box 7921, Madison, WI 53707 dnr.wi.gov, search "brownfield"

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## I. **INTRODUCTION**

## A. Purpose of the Guidance

The purpose of this document is to provide DNR staff, responsible parties and other interested individuals with guidance on the requirements that apply and the options that are available when dealing with cleanup and redevelopment issues at sites that are or may be contaminated with hazardous waste. Process wastes generated during the treatment of contaminated media must meet all applicable regulatory requirements. Implementation of this guidance is intended to result in the best environmental outcome at the most reasonable costs while complying with the hazardous waste requirements applicable to contaminated media. This document replaces all existing guidance regarding hazardous waste remediation unless otherwise specified herein.

## B. Disclaimer, Contact and Revisions

This document is intended solely as guidance, and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations and is not finally determinative of any of the issues addressed. This guidance does not create any rights enforceable by any party in litigation with the State of Wisconsin or the Department of Natural Resources. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying governing statutes and administrative rules to the relevant facts.

This guidance will be updated as needed. Questions, comments and concerns may be sent to Gary Edelstein, P.E. - RR/5, DNR, P.O. Box 7921, Madison, WI 53707, phone number 608-267-7563, email gary.edelstein@wisconsin.gov.

## C. Background and History

The Federal hazardous waste program began in 1976 when Congress passed the Resource Conservation and Recovery Act (RCRA). Subtitle C of that law created the program and directed EPA to develop regulations defining what are hazardous wastes and the appropriate management standards. When the RCRA Subtitle C rules were being developed in the late 1970's, their applicability to contaminated media was not considered. One of the first documents EPA released to address that issue was a November 1986 memo entitled: "RCRA Regulatory Status of Contaminated Groundwater," available here:

## dnr.wi.gov/topic/Brownfields/documents/haz/number1.pdf

The memo indicated that while contaminated environmental media was not itself a hazardous waste, it needed to be managed as a hazardous waste if it "contained" a hazardous waste. The memo went on to say that if groundwater was treated such that it no longer contains a hazardous waste, then the media would no longer be subject to the

hazardous waste regulations. This position was known as the "contained-in" policy and was the subject of a lawsuit filed by numerous interested parties. Ultimately, the Court of Appeals for the Washington D.C. Circuit upheld EPA's ability to define contaminated media as hazardous waste if it contained a listed waste or exhibited a hazardous characteristic.

## 1. <u>Federal Rules and Guidance</u>

Since EPA's initial decision to apply the Subtitle C requirements of RCRA to contaminated media, they have issued several major rules along with numerous policy memos and guidance documents clarifying the applicable requirements. In general, these documents have provided for a more flexible approach in order to help ensure that contaminated sites are investigated and remediated in a timely manner. A good summary of many of these provisions is included in a document entitled: "Management of Remediation Wastes under RCRA," a copy of which can be found at:

www2.epa.gov/sites/production/files/2013-10/documents/remediawaste-rpt.pdf.

## 2. <u>State Specific Information</u>

When Congress promulgated the original RCRA Subtitle C Statute, its intent was that States be delegated the authority to implement these requirements provided that their programs were equivalent to and not inconsistent with the Federal Program. EPA then developed regulations that set forth the requirements for States to obtain "authorization" to implement the Hazardous Waste Program in lieu of EPA. DNR is currently authorized to implement all of the major rules associated with cleanups including: RCRA Closures, RCRA Corrective Action, the Phase IV Land Disposal Restrictions (LDRs), the Corrective Action Management Unit (CAMU) rule and the provisions to re-inject contaminated groundwater for clean up purposes.

In the early 1990's the Department undertook an effort to implement a consolidated cleanup program including the development of comprehensive cleanup rules. This approach envisioned a process by which site investigation, remedy evaluation and selection, development of cleanup standards, and case closure would be the same for every site regardless of the regulatory authority being used to compel the cleanup. This effort resulted in the promulgation of the ch. NR 700 series rules for cleanup.

A series of discussions on the applicability of this consolidated cleanup program to RCRA remediation cases took place with EPA beginning in the fall of 1995. This process ultimately resulted in EPA Region 5 issuing a series of letters confirming that the NR 700 series could be used as the basis for undertaking site investigations, evaluating and selecting remedies, establishing soil cleanup standards, and closing out sites. All of these letters can be found at:

dnr.wi.gov/topic/Brownfields/Hazardous.html

As a result, sites with contaminated environmental media meeting the definition of hazardous waste could receive a case closure letter or a certificate of completion using the appropriate criteria in ch. NR 726, including the use of soil performance standards and natural attenuation remedies. These sites were no longer considered hazardous waste land disposal facilities and were not required to meet the closure and long-term care requirements set out in ch. NR 664.

Following the issuance of these letters, the Brownfields Study Group requested that the Department pursue a more formal agreement with EPA on using the NR 700 series for cleanups. Subsequent discussions took place and in November 2006 a Memorandum of Agreement (MOA) was finalized that recognized DNR's consolidated approach to cleanups. A copy of the MOA is available at:

dnr.wi.gov/topic/Brownfields/documents/ocp.pdf.

## II. HAZARDOUS WASTE DETERMINATIONS

Both State and Federal rules require the generator of a solid waste to determine whether that waste is a hazardous waste. This requirement (see s. 291.21, Stats.) applies to contaminated media and other waste generated during remediation activities, as well as process wastes. There are two major ways that contaminated environmental media can become a hazardous waste. The first is if the media contains a listed hazardous waste, and the second is if the media exhibits a hazardous characteristic. In either case it is the waste generator's responsibility to determine if the media is by definition a hazardous waste. This can be accomplished by either testing the material using the methods set out in ch. NR 661, or by "applying knowledge." Unfortunately, no specific guidance exists on the criteria to use when applying knowledge, especially for contaminated media and therefore these decisions need to be made on a case-by-case basis. However, EPA has issued general guidance on how to make case-by-case determinations and these are summarized below.

Generators and other parties that may be directly involved in a cleanup should make a waste determination as early as possible in the remedial process, since the regulatory status and selected remedial option for contaminated soil or groundwater can significantly affect the overall cost and timing of the proposed project. This should normally be done at the Site Investigation Report (SIR) stage, prior to the Remedial Action Options Report (RAOR). As will be discussed in more detail later, the type of remedial action selected can affect whether or not the contaminated media is subject to regulation as a hazardous waste. The earlier a waste determination is made the more options that can be evaluated in order to ascertain the best alternative for a particular site.

If the generator wants DNR review of their waste determination, they need to submit a \$700 "other technical assistance" fee in accordance with s. 292.55(1)(b), Stats., to the Remediation and Redevelopment Program in the Region that has oversight for the particular project. Waste determinations submitted as part of a Site Investigation Report or a Remedial Action Options Report may be reviewed without the "other technical

assistance" fee, provided the appropriate fee for review of the report is provided. Review of waste determinations on contaminated media is the responsibility of the Remediation and Redevelopment (RR) Program with assistance from the Waste and Materials Management Program, as appropriate. Dialog and interaction between the programs during evaluation of waste determinations is encouraged. DNR has developed the form "Remediation Site Hazardous Waste Determination" that can be used by responsible parties or waste generators to assist them in making and certifying waste determinations:

dnr.wi.gov/topic/Brownfields/documents/haz/4430-019.pdf

## A. Listed Wastes

Chapter NR 661 Subchapter D includes a series of tables that identify certain waste streams that are, by definition, hazardous wastes. For example, spent cyanide plating bath solutions from electroplating operations are defined as an F007 listed hazardous waste and spent halogenated solvents used for degreasing are defined as F001 listed wastes. These "F" listed wastes are hazardous wastes from non-specific sources. There are also "K" listed wastes that are hazardous wastes from specific sources. An example is K106 that is wastewater treatment sludge from the mercury cell process in chlorine production.

The rules also contain a list of commercial chemical products and manufacturing chemical intermediates such as benzene or trichloroethlene (TCE) that would be considered listed hazardous waste if a person discards or intends to discard these products or intermediates. These would be considered either "U" listed or "P" listed wastes depending on the compound. Further, wastes or media derived from the treatment of a listed hazardous waste would be considered listed hazardous waste. As an example, activated carbon being used to treat groundwater contaminated with a listed hazardous waste would be considered listed hazardous waste under the "derived from" rule. Finally, solid wastes or environmental media that are mixed with listed hazardous waste are also considered hazardous waste under the "mixture rule".

As discussed earlier, the "contained-in" policy states that contaminated environmental media is not itself a hazardous waste but requires management as a hazardous waste if it contains a listed waste or exhibits a hazardous characteristic. In remedial situations, it is often difficult to determine the source of contamination. EPA guidance indicates: "Where a facility owner/operator makes a good faith effort to determine if the material is a listed hazardous waste but cannot make such a determination because documentation regarding the source of contaminant or waste is unavailable or inconclusive, one may assume the source, contaminant or waste is not a listed hazardous waste." The EPA guidance goes on to say: "Therefore, provided the material in question does not exhibit a characteristic of hazardous waste, RCRA requirements do not apply."

When making a good faith effort to determine the source of the contamination, responsible parties should evaluate, as appropriate, information such as material safety data sheets (MSDS's), manifests, vouchers, bills of lading, sales and inventory records,

accident reports, spill reports, inspection reports, and other available information. It may also be necessary to conduct interviews of current or former personnel who would have knowledge of the processes and hazardous materials used including waste handling or past spills.

When the responsible party (RP) or waste generator seeks DNR review of their waste determination, the appropriate review fee along with all supporting information must be submitted to the RR Program in the region with jurisdiction for the site. In addition, the Remediation Site Hazardous Waste Determination form, as discussed above, may be submitted. Staff should utilize their knowledge and any readily available information when evaluating these determinations.

If after a good faith evaluation, the evidence on the source of the contamination is either unavailable or inconclusive, it should be assumed the contaminated media does not contain a listed hazardous waste. The following discussion provides two example situations.

*Example 1* - An individual proposes to renovate and redevelop a vacant shopping center. During an environmental assessment, soil and groundwater are determined to be contaminated with tetrachloroethlyene (PCE or "perc") in the vicinity of a former dry cleaning facility. In many instances, releases of PCE from dry cleaning operations results in media contaminated with listed hazardous waste. This is because environmental media contaminated by the release of spent PCE (provided the solvent contained 10% or more, by volume, PCE before use) or ex-situ management of media contaminated by product PCE would be considered to contain a listed hazardous waste.

In this example, the developer reviews all available operating records and also talks with several former employees about the operation of the former business. No documentation on the source of the PCE contamination was identified. In addition, while the soil and groundwater investigation identified some locations with PCE impacts, the contamination appears to be randomly distributed across the shopping center and is at least several hundred feet from the former dry cleaner. A contamination source area adjacent to the former dry cleaners was not found. Based on this evaluation, the developer concludes there is inconclusive information to determine the source of the contamination and therefore the contaminated environmental media does not contain a listed hazardous waste.

If however, a source area is found adjacent to the former dry cleaning equipment or if interviews with former employees reveal discharges of spent PCE from the facility, then the contaminated media may be considered a listed hazardous waste.

*Example 2* - A company is considering purchasing a building that was formerly used for paint manufacturing. They perform a Phase I and II Environmental Assessment in an attempt to define the potential sources of contamination at the site. The investigation discovers petroleum related contaminants (benzene, ethylbenzene, toluene, and xylene) in the soil at various locations around the property. The Phase I indicated that the property

was previously used for paint manufacturing (where benzene was a major ingredient) and that numerous underground petroleum tanks were also present on the property. An evaluation of existing records and discussions with a former employee indicate that the releases took place during the 1960's or early 1970's from both the manufacturing process and the petroleum tanks. However, a detailed evaluation was unable to identify whether the existing contamination is from the product benzene tanks or from the underground petroleum storage tanks. Since the source of contamination is inconclusive the Company concludes that the soil would not contain a listed hazardous waste when excavated.

On the other hand, if the detailed evaluation revealed that high levels of benzene were only present adjacent to the former product benzene tanks, then the media may be a listed hazardous waste. Further analysis is necessary to define:

- 1. when the release occurred,
- 2. whether the release was due to a product spill or disposal and
- 3. how the contaminated media going to be managed, as these answers will determine the regulatory status of the material.
- B. Characteristic Waste

Contaminated media can also be considered a hazardous waste if it exhibits the hazardous characteristic of ignitability, reactivity, corrosivity or toxicity. Chapter NR 661, Subchapter C, identifies the specific test methods that are to be used when determining if a material exhibits a hazardous characteristic. The characteristic most likely to apply to contaminated media is toxicity. Section NR 661.24 identifies the specific test method for determining toxicity, the Toxicity Characteristic Leaching Procedure (TCLP) test. The TCLP test is the current analytical procedure for determining if a waste or media is hazardous for toxicity. Regulatory limits have been established by rule in s. NR 661.24(2) – Table 2 for six pesticides, eight metals, and 26 organic compounds. The following link provides the list of compounds and their associated regulatory levels:

docs.legis.wisconsin.gov/code/admin\_code/nr/600/661.pdf#page=14.

Consideration should be given to performing total contaminant analysis prior to TCLP testing. If the contaminated media has total contaminant concentrations less than 20 times the TCLP regulatory limit it may be assumed the regulatory limit for that compound will not be exceeded.

C. Determining if Contaminated Media is Hazardous Waste

For the purposes of this discussion, it is assumed that contaminated media meets the definition of a solid waste found in s. 289.01(33), Stats.

## 1. <u>Exclusions</u>

The first step in determining if a contaminated media is a hazardous waste is to evaluate whether the media is excluded from regulation under s. NR 661.04. The two most likely situations where remediation waste may not be regulated as a hazardous waste are petroleum contaminated media and Manufactured Gas Plant (MGP) waste. Each is discussed in more detail below.

## a. <u>Petroleum Contaminated Media</u>

When EPA published the Toxicity Characteristic (TC) rule in 1990 there was a provision that excluded petroleum contaminated media and debris from leaking underground storage tanks that failed TCLP for waste codes D018 to D043 from regulation as a hazardous waste. That exclusion has also been adopted in rule by DNR as s. NR 661.04(2)(j). If the media is not a hazardous waste for any other reason (such as ignitability or TCLP for lead), and the tanks are subject to regulation under 40 CFR 280 (the Underground Storage Tank provisions), regulation as a hazardous waste is not required.

## b. <u>Manufactured Gas Plant Waste</u>

On March 13, 2002 EPA amended 40 CFR 261.24 to exclude MGP waste from TCLP testing. As a result of this action, the TCLP leaching test cannot be used to determine whether MGP wastes are hazardous under Federal rules. Since MGP remediation waste is not a listed waste, it would only be classified as RCRA hazardous if it exhibited the characteristic of ignitability, reactivity, or corrosivity. MGP waste that is mixed with or contaminated by other non-MGP sources (i.e. spent solvents) would not be covered by this exclusion. The exclusion from TCLP testing has been adopted in Wisconsin under s. NR 661.24(1).

## 2. <u>Process</u>

As discussed above, the generator of a contaminated media is responsible for determining if the material is a hazardous waste. Determining whether contaminated media is regulated as a hazardous waste depends on whether the contaminant was a waste or product at the time of the release, the date the release occurred, and whether the contaminated media will be actively managed. Figure 1 is a flow chart that summarizes the process that is used to determine when a contaminated media is defined as hazardous waste. While at first glance the flow chart appears extremely complex, the following summary should help make the process more understandable. The discussion goes from relatively straightforward to increasingly complex. Figure 2 identifies the management options and requirements that apply to all contaminated media and will be discussed in more detail in Sections III and IV.

<u>Step 1</u> – The first step a responsible party or waste generator needs to take is to determine if the media was contaminated by material meeting the definition of a listed hazardous

waste or commercial chemical product. As previously discussed, this requires a good faith effort to determine the source of the contamination (see the Remediation Site Hazardous Waste Determination form, discussed above). If information on the source of the contamination is unavailable or inconclusive, the responsible party or waste generator may assume that the media is not contaminated by a listed hazardous waste or commercial chemical product.

<u>Step 1a.</u> – If the answer under Step 1 is no, (the media is not contaminated by a listed hazardous waste or commercial chemical product) then the responsible party or waste generator must make the same good faith effort to determine if the source of the contamination was from the release of a characteristic waste after the waste was defined as hazardous. If the material was a characteristic hazardous waste at the time it was released, go to Step 1c.

<u>Step 1b.</u> – If the answer under Step 1a is no, (the source of contamination was not a characteristic hazardous waste) the next step is to determine whether the media will be managed in-situ or ex-situ. If management is to take place in-situ (for example, remediation is proposed to take place using a soil vapor extraction system), then active management has not occurred and the media would not be considered hazardous waste. The responsible party would follow the NR 700 process to evaluate the effectiveness of the remedy and to determine when the site is ready for closure. As discussed earlier, process wastes generated during the treatment of contaminated media must be managed in accordance with all applicable environmental regulations.

If management of the media will take place ex-situ (for example, excavation and off-site disposal) then the generator would need to determine if the media exhibits a hazardous characteristic through testing or applying knowledge. As an example, a company discovers a small area of foundry waste fill in an area where they were planning a large plant expansion. They determine that the material would not have met the definition of a listed waste, and since disposal took place in the 1970's the material would not be considered a characteristic hazardous waste at the time of disposal. Since the amount of material is relatively small, they choose to excavate the waste and send it off-site for disposal.

At the point where the material is excavated (i.e. actively managed) they become the generator of a solid waste and must determine whether the solid waste is a characteristic hazardous waste. Based on available information they conclude that the potential contaminants of concern are cadmium, chromium, and lead. They subject representative samples of the waste to the TCLP leaching procedure test. The results indicated that all contaminant concentrations are below the appropriate regulatory levels and therefore the company is able to manage the excavated material as a solid waste.

<u>Step 1c.</u> – If the answer under Step 1a is yes, (the media was contaminated with a characteristic hazardous waste) then the RP or waste generator needs to determine if the media exhibits a characteristic in-situ. If the answer is no, then the media is not a

hazardous waste. If the answer is yes, then the material would be considered a hazardous waste regardless of whether the media is managed in-situ or ex-situ.

When contaminated media does not meet the definition of a hazardous waste, it can be managed in accordance with ch. NR 718. The options for managing hazardous contaminated media are discussed in detail in Section III.

<u>Step 2.</u> – If the answer under Step 1 is yes, (the media was contaminated by a listed hazardous waste or commercial chemical product) then the generator needs to determine if the release was from a hazardous waste or commercial chemical product that was listed when the release occurred. This requires a good faith evaluation by the generator.

<u>Step 2a.</u> – If after evaluation, the answer under Step 2 is no (the waste was not listed at the time of release) or if the date of the release is inconclusive, then the waste classification depends on whether the media will be managed in-situ or ex-situ. If an in-situ remedial option is selected, then the contaminated media is not actively managed and the media would not be considered a listed hazardous waste. For example, a developer evaluating a former manufacturing facility determines that the available information clearly documents that the source of groundwater contamination is due to releases of spent TCE which would meet the definition of an F001 listed waste.

This evaluation also reveals that the only documented releases occurred at the facility prior to November 1980 when the waste listings for TCE were promulgated. The contaminated media would become subject to the hazardous waste requirements if it were managed ex-situ (i.e. actively managed) since the media is newly generated at the time of excavation. However, if the selected remedy for the contaminated soil is in-situ soil vapor extraction then the contaminated media would not be considered a listed hazardous waste.

<u>Step 3.</u> – If the answer under Step 2 is yes (the waste was listed at the time of release) then the RP needs to determine if the release was from a commercial chemical product or listed hazardous waste. This step is necessary since the regulatory requirements are different depending on whether the material was a waste or a product at the time of the release. In those situations where a commercial chemical product or manufacturing chemical intermediate is disposed of after the effective date of the listing, the material would be a listed hazardous waste upon release.

<u>Step 3a.</u> – If the answer under Step 3 is yes (a commercial chemical product was released) or if it is inconclusive whether the release was from a commercial chemical product or a listed waste, then the generator needs to determine if the remedy will consist of an in-situ or ex-situ option. As in steps 1b and 2a, in-situ treatment will result in the contaminated media not being considered a listed hazardous waste.

<u>Step 3b.</u> – If the answer under Step 3a is that an ex-situ remedy is planned, the contaminated media would be considered a listed hazardous waste unless a "contained-

out" determination can be made. Section IV outlines the process for making containedout determinations.

<u>Step 4.</u> – If the answer under Step 3 is no, then the generator has concluded that the contamination was caused by a hazardous waste that was listed at the time the release occurred. In this scenario, the contaminated media is subject to the hazardous waste requirements regardless of whether the waste is managed in-situ or ex-situ unless a "contained-out" determination can be made. Section IV outlines the process for making contained-out determinations.

If a contained-out determination cannot be made and the RP or waste generator determines that treatment of media defined as hazardous waste is their preferred alternative, they would need to manage the material in accordance using one of the options identified in Section III.

## D. Land Disposal Restrictions

In 1984, Congress passed a number of amendments to RCRA. One of those changes was promulgation of the Land Disposal Restriction (LDR) program that prohibited the land disposal of hazardous waste unless the waste meets specific treatment standards established by EPA. The treatment standards were established to substantially diminish the toxicity or mobility of hazardous waste so that short and long-term threats to human health and the environment are minimized.

On May 26, 1998 EPA promulgated the Phase IV LDR rule which established a new treatability group - contaminated soils - with standards particularly tailored to that material. Prior to this rule, soils that contained a listed hazardous waste or exhibited a hazardous characteristic were prohibited from land disposal unless they had been treated to meet the LDR standards for hazardous process waste. The Phase IV LDR standards for contaminated soil require treatment that achieves a 90% reduction or to levels 10 times the Universal Treatment Standards (UTS), whichever is higher. DNR has incorporated the Universal Treatment Standards and the Phase IV LDR rule into ch. NR 668.

Determining if an LDR standard applies to a particular contaminated media can be difficult. The following paragraph is a brief summary of EPA's guidance for making this determination. First, the LDRs typically only apply to contaminated media after it is generated, and if it will be placed in a land disposal unit. Therefore, if contaminated media is not removed from the land (i.e. generated), LDRs generally do not apply. In addition, if contaminated media is removed from the land, but never placed in a land disposal unit, the LDRs do not apply. Finally, as will be discussed in detail later, the LDRs do not apply to contaminated soil managed within an Area of Contamination (AOC) even if the soil is removed from the land. The LDRs generally do not apply to contaminated soil in-situ or force excavation of contaminated soil. If soils are excavated, the LDRs may apply as discussed in the examples below.

As part of the Phase IV rule, EPA promulgated a new LDR treatment variance process specific to contaminated soil. An LDR treatment variance is an approval by the appropriate regulatory agency that an alternative treatment standard can be utilized. An alternative LDR treatment standard may be approved if it is determined that compliance with the new standard would result in treatment to the point at which short and long-term threats to human health and the environment are minimized. This approach allows a site specific, risk based determination to supersede the technology based LDR standard under certain circumstances. Section NR 668.44 contains the provisions for LDR treatability variances. All applications for alternative treatment standards, including those for contaminated media or remediation waste require approval by US EPA.

*Example 1* - A generator is considering excavating soil that is contaminated with the spent solvent TCE. The release took place prior to 1980, which is prior to the time the waste listings and LDR standards were established for TCE. The soil does not exhibit a hazardous characteristic and contaminant concentrations are below the site specific health based direct contact levels. The RP concludes that the media does not contain a listed hazardous waste and the contaminated soil is not defined as hazardous waste even upon excavation. In addition, the LDRs do not apply to this contaminated soil since the LDR standards for TCE did not exist at the time of the release and the soil will not be a hazardous waste at the time of generation (i.e., when it is excavated). In general, if a waste was released prior to the time the applicable LDR standards were promulgated and the contaminated soil is not hazardous waste at the time (i.e. actively managed), the LDRs do not apply.

*Example 2* - A responsible party is considering excavating soil contaminated by a release of spent PCE meeting the definition of an F001 listed hazardous waste. Based on a review of available information, it appears the release took place in the early 1980's which was after the waste listings were established, but prior to the effective date of the LDRs for F001 wastes. The soil contains levels of PCE above the site specific health based direct contact levels and the responsible party determines the media "contains" a listed hazardous waste. If the soil is excavated prior to treatment it must meet the LDR standard for PCE before it could be land disposed. The applicable LDR standard for PCE is either a 90% reduction in concentration or 10 times the universal treatment standard (60 ppm), whichever is higher.

If the soil were treated in-situ to reduce the levels to below site specific health based direct contact levels a "contained-out" determination could be made and the excavated soil would be considered a solid waste upon generation. The LDR standards would not apply to the soil in this case. If the soil were treated ex-situ to meet the LDR standard and a site-specific health based direct contact level then the treated soil would no longer require management as a hazardous waste. If the soils are treated to the site specific health based levels, but not to the appropriate LDR standards, the soils cannot be land disposed unless an LDR treatability variance is granted.

*Example 3* - A generator is removing soil contaminated by a spill of product benzene, which when excavated would be a U019 listed hazardous waste. The spill occurred in

2001, well after the date LDRs were established for this waste stream. The excavated soil must be treated to achieve the LDR standard for benzene which would be a 90% reduction in concentration or 10 times the universal treatment standard (100 ppm) prior to land disposal as a hazardous waste. If the excavated soil is treated to reduce the levels to below the appropriate LDR standard and below site specific health based direct contact levels, the generator could make a "contained-out" determination and the treated soil could be managed as solid waste.

## III. MANAGEMENT OPTIONS FOR CONTAMINATED MEDIA DEFINED AS HAZARDOUS WASTE

The previous section discussed the methodology and process that is utilized to determine if a contaminated media is subject to the hazardous waste requirements. This section identifies ex-situ management options for media defined as hazardous waste. In general, unless exempted by rule, the treatment, storage or disposal of hazardous waste (including media) requires a hazardous waste facility operating license or variance. Two notable exceptions are management of contaminated media within an Area of Contamination (AOC) or management within a Corrective Action Management Unit (CAMU). The following section discusses the rule exemptions including the various options available and the specific requirements that apply to each. Several examples are also provided in order to clarify the discussions.

## A. Exemptions by Rule

Most of the exemptions to the licensing requirements of the NR 600 series are found in s. NR 670.001(3), Wis. Adm. Code. The provisions most likely to apply to remediation projects are the exemptions for wastewater treatment units and Publicly Owned Treatment Works (POTWs) which are used for the management of contaminated groundwater. In addition, the NR 600 series and NR 815 allow the Department to consider requests for reinjection of treated contaminated groundwater for remediation purposes. Finally, generators that treat contaminated media in waste accumulation tanks or containers in accordance with the requirements in s. NR 670.001(3)(b)11., are exempt from needing a hazardous waste treatment license or variance. These exemptions are discussed in more detail below.

## 1. <u>Wastewater Treatment Units</u>

Chapter NR 670 contains 2 specific exemptions from licensing that could apply to the treatment of groundwater meeting the definition of hazardous waste. The first is found in s. NR 670.001(3)(b)5., and applies to wastewater treatment units. Section NR 660.10(141) defines a wastewater treatment unit, in part, as a device that is part of a wastewater treatment facility that is subject to regulation under either 33 USC part 1317(b) or 1342, which are the federal wastewater requirements. An example of this type of situation would be if a large manufacturing company was remediating contaminated groundwater defined as hazardous on their property. After evaluating the contaminant

levels, they determine their on-site treatment facility could handle both the concentrations and volume of groundwater. The company works with the Department's Watershed Management Program to obtain their concurrence that the material can be adequately treated in accordance with the existing discharge requirements. Since their treatment facility meets the definition of a wastewater treatment unit, no hazardous waste operating license or variance is needed in order to initiate treatment operations.

The other exemption to licensing is for POTWs which accept hazardous waste (or groundwater defined as hazardous) for treatment or recycling. In order to be eligible for this exemption, the POTW must: a) have a WPDES permit, b) comply with the conditions of their permit, c) comply with certain notification, manifesting, recordkeeping, and reporting requirements specified in s. NR 670.001(3)(b)9., and d) meet applicable pretreatment requirements. In addition, if the contaminated groundwater will be stored prior to treatment in a unit other than a wastewater treatment unit, the storage must be done in accordance with a hazardous waste operating license or variance.

## 2. <u>Reinjection of Contaminated Groundwater</u>

Section 3020(b) of RCRA provides an exemption for underground injection of contaminated groundwater in conjunction with certain remediation activities. Specifically, injection of contaminated groundwater back into the aquifer from which it was withdrawn is allowed if: a) such injection is part of a response action under CERCLA or RCRA Corrective Action intended to cleanup contamination, b) the contaminated groundwater is treated to substantially reduce hazardous constituents prior to reinjection, and c) the response action will, on completion, be sufficient to protect human health and the environment.

EPA issued specific guidance, which interprets these requirements on December 27, 1989 and then supplemented that guidance on December 27, 2000. Both EPA guidance documents can be found at:

## dnr.wi.gov/topic/Brownfields/documents/haz/number12.pdf

In the December 2000 guidance EPA interprets the phrase "substantially reduce hazardous constituents prior to reinjection" to mean either ex-situ or in-situ treatment. The NR 600 series and NR 815 allow the Department to consider requests for reinjection of treated contaminated groundwater defined as hazardous as part of site remediation activities.

## 3. <u>Treatment in Generator Accumulation Containers and Tanks</u>

Section s. NR 670.001(3)(b)11., provides an exemption from licensing for generators that treat their hazardous waste in accumulation containers and tanks, provided that the appropriate provisions in ss. NR 662.034, 662.192 or 662.220 are met. As an example, a company discovers some contaminated soil on its property that fails TCLP for lead. The estimated volume is approximately 30 cubic yards. They decide to treat the soil in roll-

off containers with lime. As long as the treatment effort complies with the generator provisions in ss. NR 662.034, 662.192 or 662.220, a hazardous waste treatment license or variance is not required. If the treatment results in the contaminated soil meeting the TCLP standard for lead, it could be managed as a solid waste. If the resultant solid waste is to be land disposed, it must also meet applicable LDRs. (Note: in this example the LDR treatment standard of 5.0 mg/l TCLP for lead would be met.)

## B. Hazardous Waste Operating License

As discussed at the beginning of this Section the treatment, storage, or disposal of hazardous environmental media generally requires a hazardous waste facility operating license or variance. DNR determined in the early 1990's that attempting to issue hazardous waste operating licenses for cleanup situations was not practical. Given the numerous other alternatives discussed in this Section, it is anticipated that virtually all cleanup projects involving hazardous media will be able to implement a remedy without the need to obtain a hazardous waste facility operating license.

## C. Remediation Variances

When the State Hazardous Waste Management Act was first promulgated in 1978, the Statutes contained a provision that granted the Department authority to issue a variance from the requirement to obtain a license if it is determined that the application for or compliance with a license would cause an undue or unreasonable hardship for any person. A variance may not result in undue harm to public health or the environment and the duration of the variance may not exceed five years. The specific requirements for remediation variances are contained in s. NR 670.079, Wis. Adm. Code.

## 1. Applicability of Variances to Remediation Cases

In 1987, EPA issued a guidance memo indicating RCRA authorized states with waiver authority comparable to CERCLA 121(e) or RCRA 7003 could use those authorities to waive RCRA permit requirements as long as the state did so in a manner no less stringent than allowed under corresponding Federal authorities. This guidance memo can be found here:

## dnr.wi.gov/topic/Brownfields/documents/haz/number13.pdf

In the early 1990's use of the state variance authority to "waive" the need for a hazardous waste facility operating license (i.e. RCRA permit) for remediation cases was the subject of considerable debate between DNR and US EPA. Ultimately, in May, 2001 EPA issued a Federal Register Notice clarifying Wisconsin's use of hazardous waste variances. This document can be found at:

dnr.wi.gov/topic/Brownfields/documents/haz/number14.pdf

With respect to cleanups, the Federal Register Notice states that DNR may use our variance authority: "in the manner consistent with sections 7003 of RCRA or 121(e) of CERCLA, as described in applicable EPA guidance." Further discussions with EPA resulted in them providing additional clarification on the use of our variance authority:

## dnr.wi.gov/topic/Brownfields/documents/haz/number15.pdf

EPA also required that public participation be implemented for every proposed variance in order to be at least as stringent as the Federal permit waiver process. As a result of this mandate, s. NR 670.079 contains specific provisions for public participation.

Under s. NR 670.079(3), the RP is required to issue a Class I public notice in accordance with ch. 985, Stats., in conjunction with preparing the variance application. The notice must describe the details of the proposed project, identify how additional information can be obtained, and list the DNR contact person to whom comments can be sent. Under s. NR 670.079(4), DNR will respond to the comments and then make a final decision on the proposal within 65 business days (approximately 90 calendar days).

## 2. <u>Undue or Unreasonable Hardship Criteria</u>

Section NR 670.079(1) clearly states that: "For purposes of hazardous waste remediation, issuance of a treatment or storage license under this chapter would constitute an undue or unreasonable hardship." A note following s. NR 670.079(4) states: "For purposes of implementing this section, the department has determined that it would be an undue or unreasonable hardship to apply for, and wait for issuance of a hazardous waste treatment or storage license under s. 291.25, Stats., for the treatment or storage of remediation waste as part of the clean up a contaminated site. For example, in order to clean up a contaminated site, it may be necessary to treat excavated soil that is hazardous. In this situation it may be an undue or unreasonable hardship to delay the cleanup of the contamination while awaiting the issuance of a hazardous waste treatment license. The remediation variance approval issued by the department will include operating requirements necessary to protect public health and the environment during site remediation."

The purpose of this note was to clarify that remediation projects, by their very nature, were activities where the use of a variance is typically appropriate. DNR's standard practice is to view requests for remediation related variances as meeting the undue or unreasonable hardship criteria unless the applicant proposes an activity that is prohibited by rule (i.e. land treatment). Meeting the undue or unreasonable hardship criteria does not mean the proposal is technically acceptable, only that the activity is <u>eligible</u> for a variance.

## 3. <u>Information Necessary for Remediation Variances</u>

Section NR 670.079 does not specify the information that must be submitted with a variance application. In practice, especially for remediation related variances, the

Department has allowed applicants to limit the information they provide to what is necessary to justify the specific project.

For purposes of cleanup related variances, applicants should utilize the appropriate provisions in the NR 700 series to justify variance requests from a technical standpoint. This includes utilizing the design, operational, and monitoring provisions in ch. NR 724 as well as the process for determining soil cleanup standards set forth in ch. NR 720 and the groundwater quality standards in ch. NR 140. In addition to the NR 700 provisions, s. NR 670.079 requires that hazardous waste variances also meet the following: 1) the applicant issues a public notice summarizing the proposal and requests public comment; 2) DNR review and approval of the variance application is required; and 3) a fee is required in order for the RR Program to initiate the review. Otherwise, the process is similar to the method currently being used for addressing treatment of contaminated media that are not subject to the hazardous waste requirements.

## 4. <u>Processing Remediation Variances</u>

The review of remediation related variance requests and renewals are the responsibility of Regional Remediation and Redevelopment Program with assistance from the Waste and Materials Management Program, as appropriate. Two copies of requests for variances and renewals (extensions) should be submitted to the appropriate Regional office. At the time of the submittal, the appropriate fee (or fees) required in ch. 670, Appendix II, must be submitted to the appropriate Regional Office. These fees are for the variance report review. Variance review fees may be waived if the review of the request is expected to take less than four hours. If the request is for more than one unit, such as for storage and treatment, the variance report review fees must be submitted for each unit. No review work should begin until the appropriate fee has been received. While not required, technical assistance from EPA-Region 5 can be requested on a case-by-case basis.

All variance requests and renewals under s. NR 670.079 are considered to be Type III actions under ch. NR 150, Wis. Adm. Code. Therefore, an Environmental Assessment Screening Worksheet is not required to be completed for any variance decision.

The RP is required to prepare and issue a Class I notice and submit a copy of the notice as part of the hazardous waste variance application or as a supplement to the original submittal. Public comments will be sent to the RR Project Manager who will respond to the comments received. Most remediation related variances will not require a renewal or extension. However, if a renewal or extension becomes necessary, the Department must issue a notice indicating the public has the opportunity to request an informational hearing on the proposal, if the intention is to grant the variance renewal.

Most variance approvals or conditional approvals should utilize a letter format, similar to other approval documents issued by the Remediation and Redevelopment Program. If deemed necessary by the Regional RR Team Supervisor, a variance could be issued in a Findings of Fact/Conclusions of Law format. Regardless of which approach is selected, Project Managers are encouraged to send a draft version of the approval to the applicant

for review and comment prior to issuing the final decision. In accordance with Manual Code, final variance decisions should be issued under the signature of the Regional DNR Air, Waste, and Remediation and Redevelopment (AWaRe) Program Manager.

Final variance approvals may require inspections of hazardous waste management units by Department staff and the payment of the hourly inspection fee under ch. 670, Appendix II.

## D. Area of Contamination Policy

On March 8, 1990 in the Preamble to the National Contingency Plan (NCP), EPA first articulated the Area of Contamination (AOC) policy. This policy indicates that EPA interprets RCRA to allow certain discrete areas of generally dispersed contamination to be considered RCRA units (usually landfills). Because an AOC is equated to a RCRA land-based unit, consolidation and in-situ treatment of hazardous waste within an AOC does not create a new point of hazardous waste generation for the purposes of RCRA. This interpretation allows wastes to be consolidated or treated in-situ within an AOC without triggering the land disposal restrictions (LDR's) or minimum technology requirements (MTR's).

The AOC policy may be applied to any hazardous remediation waste (including nonmedia wastes) that is in or is on the land. As an example, a developer performs a Phase I and II assessment on a prospective property. This analysis confirms that the property was previously used for foundry waste disposal from the 1960's until the early 1980's. Sampling showed that foundry wastes were present over a large portion of the property and lead was present in the waste at levels that may exceed the TCLP regulatory levels. The volume of waste is such that complete removal of the material is not practical. Instead, the developer wishes to consolidate the waste within the footprint of the building as the mechanism to address the direct contact issue. The developer concludes the waste material is "generally dispersed" across the property and proposes to designate an AOC which would allow consolidation without resulting in the generation of a new waste. If the AOC remedy is found to be acceptable by DNR, a waste determination is not necessary and as a result, TCLP testing of the material being consolidated would not be required.

The AOC policy only covers consolidation and in-situ waste management techniques carried out within an AOC. Ex-situ management such as treatment activities or off-site disposal is not covered by the AOC policy. In a March 13, 1996 guidance memo entitled: "Use of the AOC Concept During RCRA Cleanups," EPA clarified that in addition to Superfund cleanups, the AOC policy also applies to RCRA cleanups including those being implemented under State authority. The memo can be found here:

## dnr.wi.gov/topic/Brownfields/documents/haz/number17.pdf

Unfortunately, EPA's guidance does not define the terms "generally dispersed" or "widely separated" and inconsistent interpretations on when consolidation within an

AOC is appropriate resulted. In January 2002 DNR submitted a letter to EPA regarding implementation of EPA's AOC policy. On February 5, 2002 EPA responded to that letter. A copy of the letters can be found at

## dnr.wi.gov/topic/Brownfields/documents/haz/number20.pdf

DNR's letter stated that it would allow Project Managers to continue to use their judgment, in a reasonable, common-sense manner on a site-specific basis, as to when contamination at a site would be considered "generally dispersed" and therefore potentially able to utilize the AOC policy. The technical requirements set forth in the NR 700 series, including ch. NR 718 would form the basis for determining the merits of the proposal. If approval is granted by DNR, the act of consolidating the contamination would not constitute "active management" and therefore would not be considered hazardous waste generation. As a result, LDR's and MTR's would not be triggered by these consolidation efforts. In those situations where the proposal calls for consolidation of widely separated areas of contamination, the CAMU rule, a hazardous waste variance or other appropriate regulatory authority should be utilized.

## E. Corrective Action Management Units

On February 16, 1993 EPA promulgated the Corrective Action Management Unit (CAMU) rule. The major purpose of the CAMU rule was to provide additional regulatory flexibility in order to expedite and improve remedial decisions involving hazardous remediation waste. DNR promulgated an identical rule on June 1, 1995 and received authorization from EPA to implement the rule on October 4, 1999. This gave DNR the authority to designate and approve a CAMU for the purpose of managing (i.e. treating, storing, or disposing of) hazardous remediation waste. Under these rules, hazardous remediation waste could be placed into a CAMU without triggering the applicability of the Land Disposal Restrictions (LDR's) or the Minimum Technology Requirements (MTR's). Hazardous remediation waste generated at a facility but outside of a CAMU, or releases that migrate beyond the facility boundary could be consolidated into a CAMU without triggering the LDR's or MTR's. Finally hazardous remediation waste could be moved between 2 CAMU's or excavated from a CAMU and treated in a separate unit (either inside or outside of a CAMU) and then re-deposited within the CAMU without triggering LDR's or MTR's.

When the CAMU rule was initially promulgated, a lawsuit was filed by several interested parties. The lawsuit was stayed for many years as EPA undertook a series of actions to address the issue of how hazardous contaminated media is managed during cleanups. In early 2000, EPA completed a settlement agreement with the litigants that resulted in the need for changes to the original rule. The most significant changes were the inclusion of design and treatment standards for CAMU's that will be used for permanent disposal of contaminated media, and expansion of the requirements for obtaining public input. EPA promulgated a revised CAMU rule in January 2002. DNR incorporated analogous provisions into the NR 600 series and has been authorized by EPA to oversee these requirements.

While the CAMU rule provides some additional flexibility when dealing with hazardous contaminated media (particularly the LDR's and MTR's), in most cases our existing hazardous waste variance authority should be used in lieu of designating a CAMU. This is especially true for those situations where a variance is being used to allow storage and/or treatment of hazardous contaminated media. There may be some instances where on-site disposal of hazardous contaminated media is being considered where designation of a CAMU would be appropriate.

## IV. DETERMINING CONTAINED-OUT CONCENTRATIONS FOR CONTAMINATED MEDIA

Section II laid out the process for determining if contaminated environmental media is hazardous waste. In many instances, ex-situ management is necessary for contaminated media to be considered hazardous waste. Section III identified the various methods that are available for approving a specific management option for hazardous contaminated media. This Section describes the criteria to be used in order to determine when the media no longer must be considered hazardous waste. This discussion is summarized in Figure 2.

## A. Media Containing a Listed Waste

As discussed earlier, contaminated media is itself not hazardous waste but may require management as a hazardous waste if it contains listed hazardous waste. EPA guidance indicates that media containing hazardous constituents from listed hazardous waste above health based levels are considered to contain hazardous waste. A "contained-out" demonstration shows that the concentrations of hazardous constituents that caused the waste to be listed are below health based levels. Chapter NR 661, Appendix VII contains the hazardous constituents that caused the "F" and "K" wastes to be listed. Appendix VII contains an alphabetical list of all hazardous constituents. The individual hazardous constituent is the basis for the listing of the specified waste number which is typically either a "P" or "U" listed waste. For purposes of implementing this guidance, soil, sediments or groundwater contaminated with a listed hazardous waste will no longer be considered to contain a listed hazardous waste if the criteria set out in one or two below, are met.

If in-situ or ex-situ treatment of the media is needed in order to achieve contained-out levels, then that is treatment of a hazardous waste and would have to be done in accordance with one of the management options outlined in Section III, above. Simply diluting the media with uncontaminated or less contaminated media to achieve the contained-out levels is prohibited under the LDR rules.

Responsible persons who want DNR review of a contained-out determination need to submit a \$700 "other technical assistance" fee in accordance with s. 292.55(1)(b), Stats., to the Remediation and Redevelopment Program in the Region that has oversight for the particular project. Contained-out determinations submitted as part of a Site Investigation Report or a Remedial Action Options Report may be reviewed without the "other

technical assistance" fee, provided the appropriate fee for review of the report is provided. Review of contained-out determinations on contaminated media is the responsibility of the RR Program.

It should be noted that "contained out" decisions are only used for determining the regulatory status of the contaminated material – specifically, whether the material is a listed hazardous waste or not. If the waste generator or responsible party proposes to manage the contaminated media in a manner other than disposal in a an approved solid waste landfill, then further evaluation to determine if the preferred management option is appropriate would be necessary.

## 1. Soil and Sediments

The direct contact RCL's that are available on the Department's web page may be used as appropriate health based levels for soil contained-out determinations or for sediment contained-out determinations when sediments are managed like soil. For cases where a Responsible Party proposes to manage contaminated soil or sediments in an approved solid waste landfill, it is not necessary to calculate/determine a cumulative excess cancer risk or a hazard index value when making "contained-out" determinations and the industrial land use assumptions may be used.

The spreadsheet with the applicable soil levels is available at:

## dnr.wi.gov/topic/Brownfields/Professionals.html#tabx2.

Even though the soil or sediments may no longer require management as a hazardous waste, as discussed earlier, the generator must determine whether LDRs apply to the soil.

2. <u>Groundwater</u>

Contaminated groundwater containing a listed waste remains hazardous until the ch. NR 140 Enforcement Standard (ES) is met. In most cases this will result in the appropriate LDR treatment standard being met as well.

## B. Media Exhibiting a Hazardous Characteristic

Contaminated media that exhibits a hazardous characteristic upon generation also requires management as a hazardous waste. In these cases the media remains hazardous until the characteristic is removed and, if applicable, until the appropriate LDR treatment standards are met. For example, contaminated soil from a remediation project is being excavated and temporarily accumulated on-site in tanks or containers. Samples of the soil have concentrations of lead greater than or equal to 5.0 mg/l when subjected to the Toxicity Characteristic Leaching Procedure (TCLP). This soil is by definition a characteristic hazardous waste. If that soil were treated to reduce leachable lead to less than 5.0 mg/l, it would no longer be considered a characteristic hazardous waste.

In most cases, removing the characteristic of toxicity also meets the LDR treatment standard. The soil LDR standard for lead is 5.0 mg/l (TCLP). In the previous example, once the soil is treated to remove the hazardous characteristic, compliance with the LDR standard for that constituent would also be met.

Contaminated media that has already been tested for total contaminant concentrations does not need to be analyzed using the TCLP test for those contaminants that contain less than 20 times the TCLP regulatory limit.

## V. REDEVELOPMENT ISSUES

## A. Background

There are thousands of brownfield properties located in Wisconsin, with many in need of local cleanup and redevelopment assistance. However, even when local governments have authority to acquire such properties, officials are often reluctant to do so because of concerns about potential federal and state environmental liability. In the past, local governments that acquired contaminated property, even if they did not purchase it, were considered responsible under Wisconsin's spill law because they "possessed" or "controlled" the contaminated property. In addition, many lenders were reluctant to finance loans for properties or take possession of properties that were contaminated or potentially contaminated because they feared being held responsible for investigation and cleanup costs.

The State's Land Recycling Law, which became effective in 1994 and has been subsequently modified several times since, provides certain limitations on a local governments environmental liability under the Spill Law and created incentives for local governments and certain economic development corporations to redevelop property, depending on how the property is acquired. Specifically, if a local government acquires property through tax delinquency, bankruptcy proceedings, condemnation, eminent domain, escheat, for slum or blight elimination, by using Stewardship funds, or from another eligible local government, the local government is not responsible for investigating or remediating the hazardous substance discharges at the property. This exemption from liability protects the municipality unless the release is caused by an action taken by the municipality or due to failure of the municipality to take certain actions to prevent further spills including removing abandoned underground storage tanks.

In order to encourage the redevelopment of brownfields properties and to alleviate the possible liability burdens faced by Lenders, the Land Recycling Law also included an exemption from the State's Spill Law for Lenders and Representatives. This exemption was intended to provide specific liability relief for Lenders and Representatives in order to encourage them to lend money for the cleanup and development of properties that may have contamination. As a result of this action, Lenders or Representatives that meet the specific conditions in state law will not be held responsible for a pre-existing hazardous substance discharge under the Spill Law. The situations where lenders can be released

from liability include: normal lending, acquiring property through foreclosure, inspecting property, enforcement of a security interest in personal property and fixtures, and being a representative.

## B. Federal Exemptions

## 1. <u>CERCLA</u>

There are liability protections for local governments and lenders under the Federal CERCLA (Superfund) law. In October 1995 EPA issued a policy clarifying when a municipality will not be held liable for contamination by the Federal Superfund Program. This policy was subsequently adopted as law in 1996, and Section 101(20)(D) of CERCLA provides that: a unit of state or local government which acquired ownership or control involuntarily through bankruptcy, tax delinquency, abandonment or other circumstances in which the government involuntarily acquires title by virtue of its function as a sovereign entity, is not considered to be an owner or operator. This exemption also applies to municipalities that acquire property from a county that took the property through an involuntary action.

CERCLA also has a security interest liability exemption, which protects certain Lenders from liability. Generally, Lenders who take certain actions including taking title to the property primarily to protect a security interest and do not participate in the management of a facility or business will not be held responsible under CERCLA.

## 2. <u>Subtitle I</u>

Subtitle I of RCRA contains a security interest exemption that provides secured creditors (i.e. lenders) an explicit statutory exemption from cleanup liability for releases from petroleum underground storage tanks. In addition, EPA issued the Lender Liability rule for underground storage tanks that describes the specific conditions under which secured Lenders may be exempted from Subtitle I for discharges from petroleum underground tanks.

## 3. <u>Subtitle C</u>

There are currently no federal liability exemptions under the RCRA Subtitle C hazardous waste requirements. With hundreds of Brownfields sites in Wisconsin with Subtitle C implications, there have been numerous situations where Local Governments and Lenders have expressed concerns about taking possession of these properties because of concerns about becoming the owner/operator and therefore potentially subject to state and federal liability.

## C. DNR Pilot Program

The lack of a liability exemption for sites with hazardous waste implications significantly reduces the ability of local governments and lenders to help cleanup and redevelop these

types of properties. In order to provide additional incentives, DNR worked with EPA and developed a pilot program for both local governments and lenders. Implementation of these two 48 month pilot programs allowed DNR to use enforcement discretion, on a case-by-case basis, when determining whether to impose the RCRA corrective action requirements. The exemption criteria in ss. 292.11 and 292.21, Wisconsin Statutes formed the basis for determining whether to utilize enforcement discretion. The specific details of the pilots are included in two letters dated November 29, 2001. These letters, along with EPA's concurrence on each of these proposals can be found at:

dnr.wi.gov/topic/Brownfields/documents/haz/number21.pdf

Following completion of the 48 month pilots, DNR prepared an evaluation of the process and submitted it to EPA in December 2007. The evaluation concluded that use of enforcement discretion to provide liability exemptions for LGU's and Lenders that did not cause the contamination was successful and resulted in progress being made at properties that would have likely remained idle. In addition, follow-up conversations with potential applicants revealed that the main reason they didn't enter the program was because of the perception the program was temporary and tGuichat the exemption could expire when the pilot ended.

DNR subsequently requested that the use of liability exemptions be made permanent in order to encourage more participation in the program. EPA ultimately issued a letter dated October 26, 2009 indicating that as an authorized state, DNR may continue to exercise enforcement discretion for Lenders and LGU's using the liability exemption provisions in ch. 292, Wis., Stats. The two letters referenced above can be found at:

dnr.wi.gov/topic/Brownfields/documents/haz/lgupilot.pdf

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This publication is available in alternative format upon request. Please call 608-267-3543 for more information.

FIGURE 1



# FIGURE 2

